

ATK RESPONSES & RESPONSIVE DOCUMENTS TO EPA'S CERCLA 104(e) REQUEST

Book 1 of 2

September 11, 2013



ATK
7480 Flying Cloud Drive
Minneapolis, MN 55344 -3720
www.atk.com

September 10, 2013

BY FEDERAL EXPRESS DELIVERY

Ms. Cynthia Brown
Removal Enforcement Coordinator
Superfund Enforcement Assessment Section (6SF-TE)
U.S. Environmental Protection Agency
1445 Ross Avenue
Dallas, TX 75202-2733

RE: Response to EPA's CERCLA §104(e) Information Request
Explo Systems, Inc.
Minden, Webster Parish, Louisiana
SSID No. A6GH

Dear Ms. Brown:

By this letter and accompanying documents, Alliant Techsystems Inc. ("ATK" or "the Company") hereby provides the Company's initial response to EPA's CERCLA information request, dated July 12, 2013, pertaining to the Explo Systems site at Camp Minden, LA. ATK received EPA's information request on August 12, 2013. ATK and EPA subsequently agreed upon a schedule for ATK's submission of responses to EPA's information request. ATK will submit additional responsive information to EPA by October 11, 2013, in accordance with that schedule.

ATK's responses are numbered to correspond to the numbering in EPA's information request. In addition, responsive documents accompanying this letter are indexed as indicated in each ATK response. Please note that documents responsive to more than one EPA request are not duplicated but are or will be provided in one document Tab in response to the EPA request most relevant to those documents. Other ATK responses to which those documents are also relevant direct EPA to the appropriate TAB location for those documents. After ATK submits its second response on or before October 11, 2013, EPA will have a complete set of copies of all relevant and responsive documents.

1. ***Please provide a detailed description of when you started doing business with Explo, and what Explo did for ATK.***

ATK's business dealings with Explo Systems began with discussions regarding reclamation of trinitrotoluene ("TNT") which ultimately culminated in the execution of a July 24, 2002, Memorandum of Agreement pursuant to which Explo Systems contemplated reclaiming TNT

from Tritonal for ATK. The reclaimed TNT was delivered to the U.S. Government from Explo Systems to fulfill ATK's contract to supply TNT to the U.S. Government.

Four ATK facilities shipped materials to Explo Systems: (1) Lake City Army Ammunition Plant, Independence, MO ("Lake City"); (2) CCI/Speer Operations, Lewiston, ID ("Lewiston"); (3) Federal Premium Ammunition, Anoka, MN ("Anoka"); and (4) Radford Army Ammunition Plant, Radford, VA ("RFAAP"). In addition, pursuant to U.S. Government contracts with ATK, "Government Furnished Materials" ("GFM") were shipped directly to Explo Systems from Department of Defense ("DoD") installations and other facilities under contract to the U.S. Government. Following are descriptions of services rendered by Explo Systems with respect to materials sent from each of the four ATK facilities and the GFM sent to Explo Systems, Minden, LA.

- a. Lake City: Explo Systems was contracted to "furnish all labor, burden, and equipment necessary to provide for pick up, transportation, and removal of scrap propellant powder on site at ATK located at the Lake City Army Ammunition Plant (LCAAP), Independence Missouri so as to be recycled." To the best of ATK's knowledge, Explo Systems recycled this propellant powder by blending it with other ingredients to produce energetic products for sale to its customers.

Documents responsive to this request for ATK's Lake City facility are included in the documents enclosed at Tab 1. Individuals who provided information to respond to this request are: Denise Bricker and Julie Casey.

- b. Lewiston: Explo Systems was contracted to conduct recycling of "double base smokeless powder." To the best of ATK's knowledge, Explo Systems recycled this powder by blending it with other ingredients to produce energetic products for sale to its customers.

Documents responsive to this request for ATK's Lewiston facility are included in the documents enclosed at Tab 2. Individuals who provided information to respond to this request are: Dave Romesburg, Jamie Rockefeller and Mark vonLindern.

- c. Anoka: Explo Systems was contracted to recycle scrap smokeless powder. To the best of ATK's knowledge, Explo Systems recycled this powder by blending it with other ingredients to produce energetic products for sale to its customers.

Documents responsive to this request for ATK's Anoka facility are included in the documents enclosed at Tab 3. Individuals who provided information to respond to this request are: Anita Pederstuen, Judy Carpenter and Robbin Cole.

d. RFAAP:

(1) Trinitrotoluene ("TNT"):

- (i) Explo Systems was contracted to recycle samples of TNT reclaimed by Explo Systems. These samples of reclaimed TNT were sent by Explo Systems to RFAAP for ATK's evaluation of Explo Systems' TNT reclamation process and then returned to Explo Systems, Minden, LA after evaluation at RFAAP. To the best of ATK's knowledge, this TNT was included with other TNT reclaimed by Explo Systems (see response 1.e(1) below) and delivered to the U.S. Government from Explo Systems to fulfill ATK's contract to supply TNT to the U.S. Government.
- (ii) ATK also contracted with Explo Systems to repackage TNT shipped from NitroChem, a production source in Europe, in noncompliant packaging for explosives. Explo Systems repackaged the TNT in compliant packaging and delivered it to the U.S. Government to fulfill ATK's contract to supply TNT to the U.S. Government.

(2) Nitrocellulose ("NC"): Explo Systems was contracted to recycle off-specification NC produced at RFAAP. To the best of ATK's knowledge, Explo Systems recycled this off-spec NC by blending it with other ingredients to produce energetic products for sale to its customers.

(3) Propellants:

- (i) Explo Systems was contracted to recycle off-specification PAP 7993 propellant produced at RFAAP. To the best of ATK's knowledge, Explo Systems recycled this off-spec PAP 7993 propellant by blending it with other ingredients to produce energetic products for sale to its customers.
 - (ii) Explo Systems was contracted to recycle off-specification M6 propellant produced at RFAAP. To the best of ATK's knowledge, Explo Systems recycled this off-spec M6 propellant by blending it with other ingredients to produce energetic products for sale to its customers.
- (4) Isotriol: Explo Systems was contracted to recycle isotriol, an energetic by-product of the TNT production process at RFAAP. To the best of ATK's knowledge, Explo Systems recycled this isotriol by blending it with other ingredients to produce energetic products for sale to its customers.

Documents responsive to this request for RFAAP are included in the documents enclosed at Tab 4. In addition RFAAP documents pertaining to what Explo Systems did for ATK that

are more relevant to the EPA requests that ATK agreed to provide by October 11, 2013, will be included in the documents accompanying ATK's second response to EPA. Individuals who provided information to respond to this request are: Denise Huff.

e. Government Furnished Material:

- (1) Tritonal: Explo Systems was contracted to reclaim TNT from Tritonal furnished by the U.S. Government. The Tritonal was derived from the demilitarization of M117 bombs by ISL in Europe and Day & Zimmerman in the U.S. The reclaimed TNT was delivered to the U.S. Government from Explo Systems to fulfill ATK's contracts to supply TNT to the U.S. Government.
- (2) M117 bombs: Explo Systems was contracted to demilitarize M117 GP bombs furnished by the U.S. Government, recover the Tritonal from the bombs, and reclaim the TNT from the Tritonal. The reclaimed TNT was delivered to the U.S. Government from Explo Systems to fulfill ATK's contracts to supply TNT to the U.S. Government.

Documents responsive to this request for GFM will be included in the documents accompanying ATK's second response to EPA on or before October 11, 2013. Individuals who provided information to respond to this request are: Denise Huff.

2. *What materials did ATK send to Explo Systems, Inc.? Did any of those materials contain ammonium picrate, M30 propellant, other propellants, potassium nitrate, nitrocellulose, Tritonal or any Tritonal mixture?*

The following materials were sent from the following facilities to Explo Systems, Inc., Minden, LA.

- a. Lake City: "scrap propellant powder" described on purchase orders as follows: "Propellant powder (mixed propellant types) for use as a substitute for chemical products under 40 CFR 261.2(e) in the manufacture of energetic products. The propellant powder includes mixed type double base ball powder generated from production, quality control and disassembly activities associated with the manufacture of small arms ammunition. Proper shipping name: RQ Powder, Smokeless, 1.1C, UN0160, PGII, EX-0009082." The propellant powder did not contain ammonium picrate, M30 propellant, Tritonal or any Tritonal mixture. The propellant powder contained nitrocellulose and a trace amount of potassium nitrate.

Documents responsive to this request for ATK's Lake City facility are included in the documents enclosed at Tab 1. Individuals who provided information to respond to this request are: Denise Bricker and Julie Casey.

- b. Lewiston: "powder for recycling" described on shipping orders as follows: "Substance, Explosive, N.O.S. 1.4C, UN0479, PGII (wetted double base smokeless powder), EX2004110197." The powder did not contain ammonium picrate, M30 propellant, Tritonal or any Tritonal mixture. The powder contained nitrocellulose and a trace amount of potassium nitrate.

Documents responsive to this request for ATK's Lewiston facility are included in the documents enclosed at Tab 2. Individuals who provided information to respond to this request are: Dave R6mesburg, Jamie Rockefeller and Mark vonLindern.

- c. Anoka: "scrap smokeless powder" consisting of propellant and "buffer." Buffer consists of plastic (polypropylene) beads or similar material that is incorporated into the shotgun shell to keep the metal shot in a uniform pattern as it flies toward the target. The smokeless powder did not contain ammonium picrate, M30 propellant, Tritonal or any Tritonal mixture. The smokeless powder contained nitrocellulose and a trace amount of potassium nitrate.

Documents responsive to this request for ATK's Anoka facility are included in the documents enclosed at Tab 3. Individuals who provided information to respond to this request are: Anita Pederstuen, Judy Carpenter and Robbin Cole.

d. RFAAP:

- (1) TNT. This TNT consisted of (i) samples of reclaimed TNT sent from Explo Systems to RFAAP for ATK's evaluation of Explo Systems' TNT reclamation process and (ii) TNT sent to Explo Systems for repackaging in compliant packaging for explosives. This material did not contain ammonium picrate, M30 propellant, other propellants, potassium nitrate, nitrocellulose, Tritonal or any Tritonal mixture.
- (2) Off-specification NC from NC production at RFAAP. This material did not contain ammonium picrate, M30 propellant, other propellants, potassium nitrate, Tritonal or any Tritonal mixture.
- (3) Off-specification propellants PAP 7993 and M6 from propellant production at RFAAP. These materials did not contain ammonium picrate, M30 propellant, Tritonal or any Tritonal mixture. The propellants contained nitrocellulose and a trace amount of potassium nitrate.
- (4) Isotrioil, an energetic by-product of TNT production at RFAAP. This material did not contain ammonium picrate, M30 propellant, other propellants, potassium nitrate, nitrocellulose, Tritonal or any Tritonal mixture.

Documents responsive to this request for RFAAP are included in the documents enclosed at Tab 5. Additional documents describing these materials and the amounts sent to Explo Systems, Minden, LA will be included in ATK's responses to Requests #4 and #7 which will be provided as part of ATK's second response to EPA on or before October 11, 2013. Individuals who provided information to respond to this request are: Denise Huff.

e. Government Furnished Materials

- (1) Tritonal: The Tritonal was derived from the demilitarization of M117 bombs by ISL in Europe and Day & Zimmerman in the U.S and shipped directly from those facilities to Explo Systems, Minden, LA. This material did not contain ammonium picrate, M30 propellant, other propellants, potassium nitrate, or nitrocellulose.
- (2) M117 750 pound bombs containing Tritonal for demilitarization and recycling of TNT from the Tritonal. The bombs were shipped directly from DoD facilities to Explo Systems, Minden LA. This material did not contain ammonium picrate, M30 propellant, other propellants, potassium nitrate, or nitrocellulose.

Documents responsive to this request for GFM will be included in the documents accompanying ATK's second response to EPA on or before October 11, 2013. Individuals who provided information to respond to this request are: Denise Huff.

3. ***What was the recycling, treatment or disposal process for these materials once Explo Systems Inc. accepted the shipments? Provide information and documentation describing the recycling, treatment, or disposal process regarding materials containing ammonium picrate, M30 propellant, other propellants, potassium nitrate, nitrocellulose, Tritonal or any Tritonal mixture.***

Pursuant to the agreed upon schedule, ATK will provide information responsive to this request by October 11, 2013.

4. ***What use was made of the materials once they were accepted by Explo Systems, Inc.? Provide information and documentation concerning the use, demilitarization, and disposal of any conventional weapons or materials received by Explo Systems from ATK. Please provide copies of all contracts, sub-contracts and agreements you have with Explo Systems, Inc. that include activities pertaining to ammonium picrate, M30 propellant, other propellants, potassium nitrate, nitrocellulose, Tritonal, Tritonal mixtures, and M6 propellant.***

Pursuant to the agreed upon schedule, ATK will provide information responsive to this request by October 11, 2013.

5. ***Please provide copies of all contracts, sub-contracts, or agreements you have with the Department of Defense-Army that include activities pertaining to ammonium picrate, M30 propellant, other propellants, potassium nitrate, nitrocellulose, Tritonal, Tritonal mixtures, and M6 propellant.***

Pursuant to the agreed upon schedule, ATK will provide information responsive to this request by October 11, 2013.

6. ***Provide an explanation as to the source of the ammonium picrate, M30 propellant, other propellants, potassium nitrate, nitrocellulose, Tritonal and/or Tritonal mixtures, such as type of munitions or equipment that contained the materials, that ATK either sent or caused to be sent to Explo Systems.***

ATK did not send or cause to be sent to Explo Systems any materials containing ammonium picrate or M30 propellant. The sources of the materials described in ATK's response #2 above sent to Explo Systems, Minden, LA by ATK or at ATK's direction are as follows.

- a. **Lake City:** The scrap propellant powder shipped from ATK's Lake City facility to Explo Systems was generated from a mechanical cartridge pull-down process. Off specification ammunition cartridges were disassembled and separated into re-usable and recyclable materials. Some scrap propellant powder was also generated from sweeping the floors in the facility's production areas. The recovered propellant powder was sent to Explo Systems for reuse as an ingredient in the production of energetic products for sale to its customers.

Documents responsive to this request for ATK's Lake City facility are included in the documents enclosed at Tab 1. Individuals who provided information to respond to this request are: Denise Bricker and Julie Casey.

- b. **Lewiston:** The powder for recycling shipped from ATK's Lewiston facility to Explo Systems was generated from a mechanical cartridge pull-down process. Off specification ammunition cartridges were disassembled and separated into re-usable and recyclable materials. The recovered powder was sent to Explo Systems for reuse as an ingredient in the production of energetic products for sale to its customers.

Documents responsive to this request for ATK's Lewiston facility are included in the documents enclosed at Tab 2. Individuals who provided information to respond to this request are: Dave Romesburg, Jamie Rockefeller and Mark vonLindern.

- c. Anoka: The scrap smokeless powder shipped from ATK's Anoka facility to Explo Systems was generated from a mechanical cartridge pull-down process. Off specification ammunition cartridges were disassembled and separated into re-usable and recyclable materials. The recovered powder was sent to Explo Systems for reuse as an ingredient in the production of energetic products for sale to its customers.

Documents responsive to this request for ATK's Anoka facility are included in the documents enclosed at Tab 3. Individuals who provided information to respond to this request are: Anita Pederstuen, Judy Carpenter and Robbin Cole.

d. RFAAP:

- (1) TNT: Samples of reclaimed TNT were sent by Explo Systems to RFAAP for ATK's evaluation of Explo Systems' TNT reclamation process and then returned to Explo Systems, Minden, LA after evaluation at RFAAP. TNT shipped from NitroChem, a production source in Europe, in noncompliant packaging for explosives was sent to Explo Systems and Explo Systems repackaged the TNT in compliant packaging and delivered it to the U.S. Government to fulfill ATK's contract to supply TNT to the U.S. Government.
- (2) The off-specification NC sent from RFAAP to Explo Systems was generated during NC production at RFAAP.
- (3) The off-specification propellants PAP 7993 and M6 sent from RFAAP to Explo Systems were generated during propellant production at RFAAP.
- (4) The isotriol sent from RFAAP to Explo Systems was an energetic by-product of TNT production at RFAAP.

Documents responsive to this request for RFAAP are included in the document enclosed at Tab 6. Individuals who provided information to respond to this request are: Denise Huff.

e. Government Furnished Materials:

- (1) Tritonal derived from the demilitarization of M117 bombs was sent by ISL in Europe and Day & Zimmerman in the U.S. directly to Explo Systems, Minden LA.
- (2) M117 bombs containing Tritonal were sent directly from DoD facilities to Explo Systems for demilitarization and recovery of the TNT from the Tritonal.

Documents responsive to this request for GFM will be included in the documents accompanying ATK's second response to EPA on or before October 11, 2013. Individuals who provided information to respond to this request are: Denise Huff.

7. ***Provide copies of all manifests, shipping/transportation information showing the volume of energetic, materials, and/or munitions delivered to Explo Systems, and the date they were delivered to Explo Systems.***

Pursuant to the agreed upon schedule, ATK will provide information responsive to this request by October 11, 2013.

8. ***Provide copies and/or documentation of all certificates of destruction or certification concerning the sale, reuse or recycling of materials (i.e., ammonium picrate, M30 propellant, other propellants, potassium nitrate, nitrocellulose, Tritonal and/or Tritonal mixtures), conventional weapons, and munitions received from the U.S. Army under any contract between the Army and ATK.***

Pursuant to the agreed upon schedule, ATK will provide information responsive to this request by October 11, 2013.

9. ***Provide documentation of all insurance policies which ATK has/had which would cover environmental liability concerning activities and/or work required under the contracts with the Army concerning the materials (i.e., ammonium picrate, M30 propellant, other propellants, potassium nitrate, nitrocellulose, Tritonal and/or Tritonal mixtures) subject to this information request.***

Documents responsive to this request are included in the documents enclosed at Tab 7. Individuals who provided information to respond to this request are: Jennifer Anderson.

10. ***Provide information and documentation describing the composition of any of the conventional weapons contracts with the Army, which contained or generated the ammonium picrate, M30 propellant, other propellants, potassium nitrate, nitrocellulose, Tritonal and/or Tritonal mixtures that ATK sent to the Explo Site.***

Pursuant to the agreed upon schedule, ATK will provide information responsive to this request by October 11, 2013.

11. ***Provide information and documentation describing the composition of any conventional weapons per the 2005 contract with the Army, which contained or generated the Tritonal and/or Tritonal mixtures that was sent to a General Dynamics facility.***

ATK understands this question is incorrectly posed and should pertain to the composition of any conventional weapons which contained or generated Tritonal and/or Tritonal mixtures sent by ATK or at ATK's direction to Explo Systems, Minden, LA pursuant to a contract with the Army. This is the same as Request #10 above. Pursuant to the agreed upon schedule, ATK will provide information responsive to Request #10 by October 11, 2013.

- 12. Provide information and documentation describing the transport, demilitarization, and/or disposal of conventional weapons which contained or generated ammonium picrate, M30 propellant, other propellants, potassium nitrate, nitrocellulose, Tritonal and/or Tritonal mixtures that ATK sent to the Explo facility.**

Pursuant to the agreed upon schedule, ATK will provide information responsive to this request by October 11, 2013.

- 13. Who was responsible for transporting and selecting the site for demilitarization and disposal of the ammonium picrate, M30 propellant, other propellants, potassium nitrate, nitrocellulose, Tritonal and/or Tritonal mixtures. Provide supporting documentation. Who transported the materials and who paid for the transportation? Provide supporting documentation.**

Pursuant to the agreed upon schedule, ATK will provide information responsive to this request by October 11, 2013.

- 14. Provide a chemical analysis of all materials ATK sent to Explo.**

Documents responsive to this request are enclosed at Tab 8. Included are documents, e.g., Material Safety Data Sheets ("MSDS"), that are representative of the materials ATK sent to Explo Systems, Minden, LA. Individuals who provided information to respond to this request are: Jon Bode and Denise Huff.

- 15. What waste was generated as a result of your process? Where was the waste stored, shipped, and disposed of?**

Pursuant to the agreed upon schedule, ATK will provide information responsive to this request by October 11, 2013.

Ms. Cynthia Brown
September 10, 2013
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16. Provide a copy of licenses provided by the ATF to manage the materials subject to this information request.

Copies of licenses provided by the ATF to ATK to manage the materials ATK sent to Explo Systems and copies of ATF licenses provided to Explo Systems found in ATK's files are enclosed at Tab 9. Individuals who provided information to respond to this request are: Phil Felton and Denise Huff.

If you should have any questions about the foregoing ATK responses, please do not hesitate to give me a call.

Sincerely yours,



Jonathan Bode, PE
Director Corporate Environmental Management
Alliant Techsystems Inc. (ATK)
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Minneapolis, MN 55344-3720
Ph. 952/351-2871
Email: Jonathan.Bode@ATK.com

Encl.

cc: Deb Moeschl, Esq.
Thomas E. Knauer, Esq.

Lake City Sources	
Denise Bricker Environmental Engineer Alliant Techsystems, Inc. PO Boc 1000 Independence, MO 64051 816-796-5213 Fax 816-796-5043 Denise.Bricker@atk.com	Julie Casey Sr Manager, Environmental Engineering Lake City Army Ammunition Plant PO Box 1000 Independence MO 64051 816-796-5193 Julie.casey@atk.com
Lewiston Sources	
Dave Romesburg Materials Manager ATK-Federal Cartridge Co. CCI-Speer Operations 2299 Snake River Ave. Lewiston, ID. 83501 208-750-3294 Dave.Romesburg@ATK.com	Jamie Rockefeller Purchasing ATK-Federal Cartridge Co. CCI-Speer Operations 2299 Snake River Ave. Lewiston, ID. 83501 208-746-2351 Jamie.Rockefeller@ATK.COM
Mark P. Von Lindern, P.E. REM, Sr. Manager Manufacturing Engineering and Environmental Services ATK-Federal Cartridge Co. CCI-Speer Operations 2299 Snake River Ave. Lewiston, ID. 83501 208-746-9569 Mark.VonLindern@ATK.COM	
Anoka Sources	
Robbin Cole Buyer/Planner Analyst Rimfire, Primer and Force on Force Plants Federal Premium Ammunition 900 Ehlen Drive Anoka, MN 55303 763-323-3776 763-323-3894 Fax 763-614-7906 Cell robbin.cole@atk.com	Anita Pederstuen Environmental Engineer Federal Premium Ammunition 900 Ehlen Drive Anoka, MN 55303 Phone: 763-323-2587 anita.pederstuen@atk.com
Judy Carpenter Acocunting 900 Ehlen Drive Anoka, MN 55303	

<p>Phone: 763-323-3813 <u>Judy.carpenter@ATK.com</u></p>	
<p>Radford Sources</p>	
<p>Denise Huff Director, Contract Administration Alliant Techsystems LLC Route 114 P O Box 6 Radford, VA 24143-0096 540-831-4788 Facsimile: 540-639-7554 <u>Denise.Huff@ATK.com</u></p>	
<p>Corporate Sources</p>	
<p>Jon Bode Corporate Environment ATK 7480 Flying Cloud Drive Eden Prairie, MN 55344 952-351-2871 <u>Jon.Bode@ATK.com</u></p>	<p>Phil Felten Corporate Environment ATK 7480 Flying Cloud Drive Eden Prairie, MN 55344 952-351-3067 <u>Phil.Felten@ATK.com</u></p>

Alwei, Tracy

From: Bricker, Denise (Beck)
Sent: Monday, October 22, 2012 9:57 AM
To: Smith, Larry (Purchasing); Casey, Julie (Bounds)
Cc: Bricker, Denise (Beck)
Subject: RE: Explosion at Camp Minden

Larry and Julie,

I just briefly spoke with David Smith at Explo....he was on a conference call and couldn't talk long. David stated that a "little bit" of our powder was involved in the incident. When I asked what a "little bit" was he indicated there was 120,000 lbs in the bunker and 60,000 lbs of the powder was powder we had shipped to him. I asked if he had anymore of our powder left on plant and he said no...that that was all he had left.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213

Fax 816-796-5043

From: Bricker, Denise (Beck)
Sent: Monday, October 22, 2012 9:19 AM
To: Smith, Larry (Modernization)
Subject: RE: Explosion at Camp Minden

The last time we shipped powder to Explo was 11/25/08.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213

Fax 816-796-5043

From: Smith, Larry (Modernization)
Sent: Monday, October 22, 2012 8:44 AM
To: Bricker, Denise (Beck)
Subject: FW: Explosion at Camp Minden


Denise

Do you know if we have any of our scrap powder at Camp Minden?

Thank You

L. H. (Larry) Smith
Supply Chain Manager

ATK Small Caliber Systems
Proud Operator of the Lake City Army Ammunition Plant
PO Box 340
Independence Mo. 64051
Plant Location
25201 East 78 Highway
Independence, MO 64056
Mail Stop: MO10-05

Tel. (816) 796-7221 Fax (816) 796-7224
Work Cell 816-589-8187
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From: Doak, Billy
Sent: Monday, October 22, 2012 8:05 AM
To: Smith, Larry (Modernization)
Subject: Re: Explosion at Camp Minden

Honestly I don't know. Guessing I would say no due to the fact that Denise stop using this company over 5 years ago. I know I have nothing there that belongs to me.

From: Smith, Larry (Modernization)
Sent: Monday, October 22, 2012 07:43 AM
To: Doak, Billy; Morgan, Jeff; Moroski, Richard
Subject: RE: Explosion at Camp Minden

Billy

Was any of the powder our scrap?

Thank You
L. H. (Larry) Smith
Supply Chain Manager

ATK Small Caliber Systems
Proud Operator of the Lake City Army Ammunition Plant
PO Box 340
Independence Mo. 64051
Plant Location
25201 East 78 Highway
Independence, MO 64056
Mail Stop: MO10-05

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From: Doak, Billy
Sent: Monday, October 22, 2012 7:41 AM
To: Morgan, Jeff; Smith, Larry (Modernization); Moroski, Richard
Subject: Explosion at Camp Minden

Jeff and Larry,

The explosion at Camp Minden was actually a bunker owned by Explo Corporation...This company is the one that Julie Casey and Denise Bricker's group was using to dispose of old powder...After our (Denise and myself) inspection and recommendations because they were not doing what they were suppose to do, we stopped doing business with them...When I say we< I mean the whole corporation including Federal and CCI...

If you remember Larry, I even said that I don't trust them....They are too shady...This is why we never sent them cartridges either...Glad we didn't...

All I have found thus far is that it was an underground bunker that had smokeless powder in it...No one was hurt, but it damaged some buildings in downtown areas and on the Camp...

Hope this helps...

Billy Doak

Materials Recovery Manager
ATK, LCAAP
816-589-9313 cell
816-796-7454 office

The Way We See the Problem Is the Problem

If you have a problem, the actual problem is that you are looking at it as a problem. It could be something else, such as an opportunity. When it rains lemons, make lemonade.



Explo Systems

1. ATK (ATK Lake City) started using Explo Systems, located at Camp Minden formally Louisiana AAP, to recycle scrap propellant powder in 2004 with the last shipment on November 25, 2008. A total of 19 loads – 603,903 pounds of propellant powder were sent there for reuse. ATK paid Explo for this service. Explo used the propellant powder to make an explosives gel that was put into cardboard tubes. Explo sold the tubes that were then placed in drilled holes and used to remove rock, primarily road construction.
2. Explo had an explosion at their facility in August 2006. The explosion did not involve the facilities used to manufacture the explosive gel tubes, but Explo shut it down. Explo told ATK that they had approximately 200,000 pounds of propellant powder they received from ATK remaining and they were going to open a new facility in Kentucky and use it to make the gel there. ATK kept calling Explo to see how this was progressing and ATK was told by Explo that they were about ready to start manufacturing anytime. After hearing this same thing for several months, ATK realized that it was not going to happen. About one year ago Explo told ATK that all of their propellant powder was gone and Explo wanted to resume receiving shipments from ATK. ATK did not send anymore propellant powder to Explo.
3. On October 15, 2012 there was an explosion at Camp Minden that was due to propellant powder stored there by Explo. Denise Bricker, ATK Environmental Engineer, contacted David Smith with Explo on October 22, 2012. ATK asked Explo if any of the powder involved in the explosion was ATK Lake City propellant powder. Explo indicated that 120,000 pounds of powder was involved in the incident and 60,000 pounds of powder was ATK Lake City powder. From this discussion ATK feels that the 60,000 pounds of powder was stored in the bunker. ATK then asked if Explo had anymore ATK Lake City powder at the facility. Explo stated that they did not have any additional ATK Lake City propellant powder at their facility. What was involved in the explosion was all that was left of the ATK Lake City propellant powder. A Louisiana State Investigator called Julie Casey, ATK Environmental Manager, requesting information. Julie notified ATK Corporate and Legal and was approved to provide information to the Investigator The Investigator told Julie that the investigation was in process, but suspected that the October 15, 2012 explosion was due to low stabilizer in the propellant powder. . and they suspected that a trailer containing propellant powder exploded and 10 seconds later a bunker next to the trailer exploded. Eleven train box cars in the area were knocked over. The Investigator told Julie that he had contacted Hodgdon and Winchester to obtain additional information. The Investigator told Julie that was all he needed and if he needed anything formally, he would contact her.
4. An article in the new on Monday, December 3, 2012 specified that Explo was being criminally investigated for illegally storing 6,000,000 pounds of propellant powder.

Article is as follows:

'True Blood' town evacuated after 6 million lbs. of explosives found

Image removed by sender. AP1 hr ago By Janet McConnaughey of Associated Press

Boxes and small barrels of an M6 artillery propellant were found both outdoors and crammed into unauthorized buildings leased by Explo Systems Inc. at Camp Minden, about 270 miles northwest of New Orleans.

NEW ORLEANS — A town in northwest Louisiana was being evacuated and state police were starting a criminal investigation of a company after finding about 6 million pounds of explosive material used in howitzers they say was stored illegally.

Boxes and small barrels of the M6 artillery propellant were found both outdoors and crammed into unauthorized buildings leased by Explo Systems Inc. at Camp Minden, the former Louisiana Army Ammunitions Plant, state police superintendent Col. Mike Edmonson said Sunday.

Police were evacuating the town of Doyline, about 270 miles northwest of New Orleans. About half the town's 800 residents left Friday.

The company's "careless and reckless disregard made it unsafe for their own employees, for schoolchildren in Doyline, for the town of Doyline," Edmonson said.

The company is located on a portion of the former ammunition plant's 15,000 acres that is leased for commercial use. Other sections are used for National Guard training.

Capt. Doug Cain, a state police spokesman, identified the product as M6 propellant, used in howitzers and other artillery. The pellets are largely compressed nitrocellulose, also known as guncotton.

Authorities had estimated the total at 1 million tons after an investigator looking into an Oct. 15 explosion at Explo Systems saw cardboard boxes on long rows of pallets behind a building.

They found more stacked in sheds and warehouses when crews returned Saturday to begin moving the boxes into bunkers about two miles away on the former munitions site, which covers nearly 23.5 square miles just north of Doyline.

"It wasn't in their storage magazines. They had it hidden on the property, away from the storage magazines where we would expect to find it," Cain said.

Edmonson said, "It was stuffed in corners. It was stacked all over."

He said that in two days, crews have moved just under a million pounds from the tightest-packed buildings into approved containers and onto 27 tractor-trailers to move to storage bunkers. Another 250,000 pounds has been moved a safe distance from the bulk of the material.

It won't all have to be moved into bunkers to let people return home — the evacuation could be lifted once the propellant is divided into amounts that won't threaten the town if some ignites, with each area a safe distance from the others, Edmonson said.

Company officials could not be reached Sunday. The owners reportedly are returning Monday from a business trip to South Korea, but the manager has been working with state police from the start, Edmonson said.

Doyline was used to film some scenes for the HBO vampire series "True Blood."

US

* Image removed by sender. IMAGE: A bank-owned property for sale sign in Arvada.

<<http://news.msn.com/us/fewer-us-homes-in-foreclosure-in-october-data-shows>>

<<http://news.msn.com/us/fewer-us-homes-in-foreclosure-in-october-data-shows>>

US home foreclosures <<http://news.msn.com/us/fewer-us-homes-in-foreclosure-in-october-data-shows>>

Bricker, Denise (Beck)

From: Finkbiner, John
Sent: Wednesday, August 11, 2004 7:47 AM
To: Beck, Denise
Cc: Herman, Tom
Subject: RE: Audit at Explosystems, Inc.

Thank you for visiting Explo and making sure they meet our requirements. I will proceed with placing an order in the next day or so. I will also forward this to Dave Romesburg at Lewiston. I'm sure he will place an order also.

John

-----Original Message-----

From: Beck, Denise
Sent: Wednesday, August 11, 2004 7:44 AM
To: Finkbiner, John
Cc: Herman, Tom
Subject: Audit at Explosystems, Inc.

John,

I visited Explosystems, Inc. facility in Minden LA. Upon evaluation the facility's proposed use of our scrap propellant powder along with associated storage and handling of the material appeared satisfactory and recommend that we proceed with the purchase order. If you have any questions please let me know. Thank you.

Denise

Bricker, Denise (Beck)

From: Dye, Carolyn
Sent: Monday, July 23, 2007 8:03 AM
To: Bricker, Denise (Beck)
Subject: RE: Explo

*Invoice 1819 is not being paid due to the fact that Explo owes ATK money.
Please see the following.*

Debit memo issued for duplicate payment on Explo invoice 1753.

\$33,069.08

1st payment was on 12/11/2006 Check number-370716

2nd payment was on 01/15/2007 Check number-371487

Invoice-1819

\$23,221.66

Balance due ATK

\$9847.42

Please let me know if you need any further information.

Carolyn

From: Bricker, Denise (Beck)
Sent: Monday, July 23, 2007 7:20 AM
To: Dye, Carolyn
Subject: FW: Explo

Carolyn,

Can you check on the status of the latest payment to ExploSystems – PO C13156? Invoice 1819 dated 6/12/07 for the amount of \$23,221.66. Thank you!

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-7402

From: David Smith [<mailto:davidalansmith@bellsouth.net>]
Sent: Tuesday, July 17, 2007 4:35 PM
To: Bricker, Denise (Beck)
Subject: Explo

Denise: Could you please check on our invoice understood that it was to be paid last week

when your payable people were back. Had good meeting at Radford, I'll call you to fill you in.

Thanks,

Dave

Bricker, Denise (Beck)

From: davidalansmith@bellsouth.net
Sent: Monday, July 09, 2007 6:24 AM
To: Bricker, Denise (Beck)
Subject: Explo

Denise: I would appreciate any help in getting invoice paid now that your AP people are back. I have a meeting at Radford this afternoon to discuss continued TNT and our schedule for getting back into production. We have all people involved working hard to make that happen ASAP. I will give you a update on our slurry plant as soon as I know what our final schedule is with Radford.

Thanks for your help.

Dave

Bricker, Denise (Beck)

From: David Smith [davidsmith@explosystems.com]
Sent: Friday, November 17, 2006 6:12 AM
To: Bricker, Denise (Beck)
Subject: Propellant

Denise: Can you please give me your fax number so that we can fax you a copy of the invoice. We will mail you the original. Next truck scheduled for Monday. Have a nice Thanksgiving.

Dave

David Smith
Explo Systems, Inc.
Phone (318) 382-8700
Fax (318) 382-8434
E-Mail davidsmith@explosystems.com

Bricker, Denise (Beck)

From: David Smith [davidsmith@explosystems.com]
Sent: Friday, November 10, 2006 10:54 AM
To: Bricker, Denise (Beck)
Subject: RE: Propellant

Denise: R & R scheduled for Wednesday 15th. When do you want to do the second shipment? Do not want to get in the situation where payment will hit end of December due to prior experience. Hope you understand.
We could do second one on Monday 20th. Please let me know.

Hope you have a nice weekend.

Dave

> Can we shoot for shipping one trailer load from Lake City on Wednesday
> November 15th? I would prefer that you make arrangements with R&R.
> Please let me know if that will work.

>
> Thanks a bunch!

>
> -----Original Message-----
> From: David Smith [mailto:davidsmith@explosystems.com]
> Sent: Friday, November 10, 2006 10:20 AM
> To: Bricker, Denise (Beck)
> Subject: Propellant

> Denise: Your purchasing dept has finalized PO extension. Do you
want
> to ship on Tues, Wed? We can arrange trucks with R & R or you can.
> Please let me know.

>
> Best Reagards,
>
> Dave
>
> David Smith
> Explo Systems, Inc.
> Phone (318) 382-8700
> Fax (318) 382-8434
> Cell (318) 470-1145
> E-Mail davidsmith@explosystems.com
>
>

David Smith
Explo Systems, Inc.
Phone (318) 382-8700
Fax (318) 382-8434
E-Mail davidsmith@explosystems.com

Bricker, Denise (Beck)

From: David Smith [davidsmith@explosystems.com]
Sent: Monday, November 06, 2006 4:25 PM
To: Bricker, Denise (Beck)
Subject: Explo Systems Update

Denise: I would like to give you a quick update on Explo Systems after our recent fire. The slurry plant that we use your propellant in is currently being refurbished off site and will be completed in about 10 days. The plant will then be disassembled and shipped to Kentucky where we will reassemble it and produce a sample for our new DOT EX Number. We have negotiated a contract with a major US explosive company to take the entire output of the plant and our negotiating with ATK Radford for additional propellants to use in the plant. We expect to back into full production by March of 2007. We would be happy to accept propellant from Lake City and then transfer it to KY after the first of the year. Please let me know if you want to schedule trucks for Week of Nov 13th.

Best Regards,

David A. Smith, PE
Explo Systems, Inc.
Phone (318) 382-8700
Fax (318) 382-8434
Cell (318)470-1145
E-Mail davidsmith@explosystems.com

Bricker, Denise (Beck)

From: Lemon, Earl
Sent: Thursday, January 15, 2004 8:35 AM
To: Redder, Jerome; Beck, Denise
Subject: RE: Ball powder at Lake City and EXPLO

Denise,

I may be able to help you on this. Give me a call and we can discuss it.

Thanks,
Earl Lemon
540 639-8329

-----Original Message-----

From: Redder, Jerome
Sent: Thursday, January 15, 2004 9:10 AM
To: Beck, Denise
Cc: Lemon, Earl
Subject: Ball powder at Lake City and EXPLO

Denise:

I sorry to here about Dyno. I've been trying without any luck to get some of my doublebase powder to them. My issues have been contractual. We have a outfit at the Louisiana AAP that can take the material. They are part of out TNT team. They charge us \$ 0.65 per pound. You may be able to get a better price. At this time I cannot take the powder at either my OBG or incinerator. This is a permit issue that I would like to change. But right now I just need the permits.

If you are interested
David Smith
EXPLO
318 382 8700

I cc Earl Lemon on this. He is our Program Director for the TNT Program. Explo and he have been working different arrangements that my benefit both you and Earl.
Jerry Redder

-----Original Message-----

From: Beck, Denise
Sent: Thursday, January 15, 2004 8:05 AM
To: Redder, Jerome
Subject: RE: Returning your Call to Carolyn Jake

Hi Jerry,

Looks like were having trouble hooking up by phone so I'll try this.

We generate scrap propellant (primarily double base ball) powder that we have in the past sent to Dyno Nobel for reuse in the manufacturing of slurry explosives for the mining/construction industry. Dyno Nobel is not currently running the production line that uses our powder and they don't have the storage space to accept a shipment until they start up the production line again. We are running out of storage space and need to find a home for our powder.

It was suggested that I give Radford a call to see if there was a reuse opportunity for Lake City powder at Radford. Do you know if there is possibility for this and who I should contact?

Denise

-----Original Message-----

From: Redder, Jerome
Sent: Wednesday, January 14, 2004 12:03 PM
To: Beck, Denise
Subject: Returning your Call to Carolyn Jake

Denise:

I work for Carolyn Jake at Radford. The said scrap propellant. I handle the waste streams at Radford and should be able to help you.
My phone is 540 639 7536

Or ask in this media.

I look forward to talking with you
Jerry Redder

Bricker, Denise (Beck)

From: Holly, Kim
Sent: Wednesday, September 22, 2004 8:37 AM
To: Beck, Denise; Becker, Steve
Cc: Herman, Tom; Smith, Larry; Finkbiner, John
Subject: RE: EXPLO SYSTEMS PAYMENT

All payments due and payable by 9/30th will be paid 9/30th.

-----Original Message-----

From: Beck, Denise
Sent: Wednesday, September 22, 2004 8:25 AM
To: Becker, Steve
Cc: Herman, Tom; Holly, Kim; Smith, Larry; Finkbiner, John
Subject: FW: EXPLO SYSTEMS PAYMENT

Steve,

I just wanted to reiterate how crucial Explo Systems servicing our scrap propellant powder is to the overall environmental compliance/operation at Lake City. Purchasing and Environmental has worked for almost one year to locate a facility to reuse our scrap propellant powder versus having to manage the powder as a hazardous waste. Managing the powder as hazardous waste would almost quadruple our costs for disposal.

Our powder bunkers are full and we had to begin storing powder in our permitted hazardous waste bunkers, unfortunately hazardous waste generation has increased and we need all of our permitted hazardous waste bunkers for storage of hazardous waste. If we are unable to ship a steady flow of scrap powder off-site for reuse we will be out of compliance in the storage of scrap powder. In addition there are regulatory requirements that dictate we recycle 75% of our inventory each year or else the scrap powder would be considered hazardous waste, if that happens we will be out of compliance in the storage of hazardous waste, would have to self report the violations to the state and would face significant penalties and fines from the environmental regulatory agencies as well as the increase costs for management and disposal.

We have a powder shipment scheduled for September 30th that must occur to free up much needed storage space. I am concern that if Explo Systems does not receive payment for the two previous shipments prior to the 30th, they will not accept the scheduled powder shipment.

Hope this information helps in understanding our concerns and need for timely payment. Please let me know if there is anything I can do to assist in resolving this issue.

Thank you.

Denise

-----Original Message-----

From: Finkbiner, John
Sent: Tuesday, September 21, 2004 2:29 PM
To: Becker, Steve; Dye, Carolyn
Cc: Smith, Larry; Beck, Denise; Herman, Tom
Subject: EXPLO SYSTEMS PAYMENT

Steve -

This e-mail is to follow up on our conversation this afternoon concerning Explo.

As I told you, Explo is the company the Lake City and Lewiston teamed up with to dispose of our scrap powder. We saved about \$.25 per lbs by teaming up. Anyway, Explo's payment terms are Net. As you read this we have two invoices that are past due for payment. My concern is that by not paying them in a timely manner they will either stop servicing our powder or raise the price. Denise Beck and I looked a long time to find some one to service this material and don't really have a back up plan if they pull out.

Is there something you can do to get these invoices paid this week? I will Fed Ex the check if its written this week.

<< OLE Object: Picture (Device Independent Bitmap) >>

Thank you,

John Finkbiner

Ph. 816 796 7225

Fax 816 796 7224

Email: John.Finkbiner@ATK.com

Salwei, Tracy

From: Bricker, Denise (Beck)
Sent: Thursday, November 05, 2009 1:34 PM
To: Herman, Tom
Cc: Bode, Jonathan
Subject: ExploSystems

Just got off of the phone with David Smith with ExploSystems. He stated that the lease has been signed and that he has a meeting with Ed McGee (my understanding is that Mr. McGee is the owner of the company ExploSystems is partnering with for the Kentucky plant) on Monday to set up firm construction dates. Mr. Smith stated he would send me an e-mail outlining those dates early next week. This is not a whole lot different than what Mr. Smith has been saying for months.

Mr. Smith *did* indicate that he has contracted with SMS to do some explosive testing for the product mix they will be manufacturing at the Kentucky facility and he hopes to send SMS the sample by end of November.

I asked about Lake City's powder, Mr. Smith indicated that all of the powder that we had sent Explo since the fire in August 2006 was still at the Minden facility. I asked if they checked on the powder condition and he stated that they just do the "typical" inspection once every 30 days and that the powder was in good condition. From my understanding the inspection is just a visual not actual testing for stabilizer percentage.

Lake City has shipped 248,044 pounds of propellant powder to ExploSystems since August 2006. The last shipment occurred 11/16/08.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

Salwei, Tracy

From: Bricker, Denise (Beck)
Sent: Tuesday, December 08, 2009 4:37 PM
To: Bode, Jonathan; Pederstuen, Anita
Subject: FW: Kentucky Gel Explosives Plant

Please see below – I received this e-mail from Explo yesterday.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

From: David Smith [<mailto:davidasmith@explosystems.com>]
Sent: Monday, December 07, 2009 3:30 PM
To: Bricker, Denise (Beck)
Subject: RE: Kentucky Gel Explosives Plant

Denise: Just got back with Kentucky Powder for update on the plant. Trial batch of gel will be made next week and sent to SMS in Utah for testing. DOT is estimating 12-14 weeks for EX Approval. Ed McGhee told me contract for building to be let before Christmas and equipment will be installed on concrete pad before building arrives. Building companies have told us about 2 week delivery on building.

Plant moving along a good pace now. Should have completed facility to show you in 4-6 weeks.

Let me know if you need some additional information.

Dave

From: Bricker, Denise (Beck) [<mailto:Denise.BrickerBeck@ATK.COM>]
Sent: Monday, December 07, 2009 4:17 PM
To: David Smith (ExploSystems)
Subject: RE: Kentucky Gel Explosives Plant

David,

Is there construction milestone or deadlines on the Kentucky Plant you can pass along? Or should we assume that this plant is not going to be built?

What is the plans for the propellant powder still located at the Minden facility?

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

From: Bricker, Denise (Beck)
Sent: Monday, November 16, 2009 3:32 PM

To: David Smith (ExploSystems)
Subject: Kentucky Gel Explosives Plant

David

Any news on the Kentucky Gel Explosives Plant?

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

Salwei, Tracy

From: Bricker, Denise (Beck)
Sent: Thursday, December 10, 2009 9:44 AM
To: Bode, Jonathan
Subject: RE: ExploSystems

Correct.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

From: Bode, Jonathan
Sent: Thursday, December 10, 2009 9:44 AM
To: Bricker, Denise (Beck)
Subject: RE: ExploSystems

Just to clarify, although we paid them to take it, it was managed as product for re-use/recycling and not manifested as hazardous waste.

From: Bricker, Denise (Beck)
Sent: Thursday, December 03, 2009 2:04 PM
To: Bode, Jonathan
Subject: RE: ExploSystems

Hi Jon,

- 1) We paid Explo \$0.935 per pound to recycle our propellant powder. Lake City has close to 250K pounds currently still at Explo's Minden facility that has not been recycled. I have not heard from David Smith since our telephone conversation on 11/5/09.
- 2) Yes we have a 43 month backlog on M856 cartridges (5.56 mm tracer round). We are unable to pull the M856 on the high speed pull down unit because it has a tendency to slice into the tracer mix and set off the fire suppression system. So we are left with pulling it down on the slow speed and at current staffing and set-up we have a 43 month backlog. That is the main driver for wanting to send the M856 cartridges off-site to Hi-Tech to pull down. Hi-Tech has indicated they will have the capabilities of pulling down approximately 40K pounds monthly. So if we sent them nothing but M856 we could have our backlog processed in a little less than one year – we have approximately 430K pounds of M856 cartridges for pull down on-site.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

From: Bode, Jonathan
Sent: Thursday, December 03, 2009 1:48 PM
To: Bricker, Denise (Beck)
Subject: RE: ExploSystems

Hi Denise;

I just re-read this email, thanks again for keeping me in the loop. A couple of ?'s:

- 1) Is it our practice to SELL this material to Explo, or did we pay them to take it?
- 2) Unrelated, but I want to confirm that you did indeed say on Monday that you had 43 month of backlog for bullet pull on 5.56mm.

Thanks.

jon

From: Bricker, Denise (Beck)
Sent: Thursday, November 05, 2009 1:34 PM
To: Herman, Tom
Cc: Bode, Jonathan
Subject: ExploSystems

Just got off of the phone with David Smith with ExploSystems. He stated that the lease has been signed and that he has a meeting with Ed McGee (my understanding is that Mr. McGee is the owner of the company ExploSystems is partnering with for the Kentucky plant) on Monday to set up firm construction dates. Mr. Smith stated he would send me an e-mail outlining those dates early next week. This is not a whole lot different than what Mr. Smith has been saying for months.

Mr. Smith did indicate that he has contracted with SMS to do some explosive testing for the product mix they will be manufacturing at the Kentucky facility and he hopes to send SMS the sample by end of November.

I asked about Lake City's powder, Mr. Smith indicated that all of the powder that we had sent Explo since the fire in August 2006 was still at the Minden facility. I asked if they checked on the powder condition and he stated that they just do the "typical" inspection once every 30 days and that the powder was in good condition. From my understanding the inspection is just a visual not actual testing for stabilizer percentage.

Lake City has shipped 248,044 pounds of propellant powder to ExploSystems since August 2006. The last shipment occurred 11/16/08.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043



From: Doak, Billy
Sent: Monday, October 22, 2012 8:05 AM
To: Smith, Larry (Modernization)
Subject: Re: Explosion at Camp Minden

Honestly I don't know. Guessing I would say no due to the fact that Denise stop using this company over 5 years ago. I know I have nothing there that belongs to me.

From: Smith, Larry (Modernization)
Sent: Monday, October 22, 2012 07:43 AM
To: Doak, Billy; Morgan, Jeff; Moroski, Richard
Subject: RE: Explosion at Camp Minden

Billy

Was any of the powder our scrap?

Thank You
L. H. (Larry) Smith
Supply Chain Manager
ATK Small Caliber Systems
Proud Operator of the Lake City Army Ammunition Plant
PO Box 340
Independence Mo. 64051
Plant Location
25201 East 78 Highway
Independence, MO 64056
Mail Stop: MO10-05

Tel. (816) 796-7221 Fax (816) 796-7224
Work Cell 816-589-8187
E-mail address: larry.smith@atk.com

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From: Doak, Billy
Sent: Monday, October 22, 2012 7:41 AM
To: Morgan, Jeff; Smith, Larry (Modernization); Moroski, Richard
Subject: Explosion at Camp Minden

Jeff and Larry,

The explosion at Camp Minden was actually a bunker owned by Explo Corporation... This company is the one that Julie Casey and Denise Bricker's group was using to dispose of old powder... After our (Denise and myself) inspection and recommendations because they were not doing what they were suppose to do, we stopped doing business with them... When I say we< I mean the whole corporation including Federal and CCI...

If you remember Larry, I even said that I don't trust them.... They are too shady... This is why we never sent them cartridges either... Glad we didn't...

All I have found thus far is that it was an underground bunker that had smokeless powder in it... No one was hurt, but it damaged some buildings in downtown areas and on the Camp...

Hope this helps...

Billy Doak

Materials Recovery Manager
ATK, LCAAP
816-589-9313 cell
816-796-7454 office

The Way We See the Problem Is the Problem

If you have a problem, the actual problem is that you are looking at it as a problem. It could be something else, such as an opportunity. When it rains lemons, make lemonade.

Bricker, Denise (Beck)

From: Bricker, Denise (Beck)
Sent: Monday, October 22, 2012 9:19 AM
To: Smith, Larry (Modernization)
Subject: RE: Explosion at Camp Minden

The last time we shipped powder to Explo was 11/25/08.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213

Fax 816-796-5043

From: Smith, Larry (Modernization)
Sent: Monday, October 22, 2012 8:44 AM
To: Bricker, Denise (Beck)
Subject: FW: Explosion at Camp Minden

 Denise

Do you know if we have any of our scrap powder at Camp Minden?

Thank You
L. H. (Larry) Smith
Supply Chain Manager
ATK Small Caliber Systems
Proud Operator of the Lake City Army Ammunition Plant
PO Box 340
Independence Mo. 64051
Plant Location
25201 East 78 Highway
Independence, MO 64056
Mail Stop: MO10-05

Tel. (816) 796-7221 Fax (816) 796-7224
Work Cell 816-589-8187
E-mail address: larry.smith@atk.com

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Bricker, Denise (Beck)

From: Bricker, Denise (Beck)
Sent: Monday, October 22, 2012 9:57 AM
To: Smith, Larry (Modernization); Casey, Julie (Bounds)
Cc: Bricker, Denise (Beck)
Subject: RE: Explosion at Camp Minden

Larry and Julie,

I just briefly spoke with David Smith at Explo....he was on a conference call and couldn't talk long. David stated that a "little bit" of our powder was involved in the incident. When I asked what a "little bit" was he indicated there was 120,000 lbs in the bunker and 60,000 lbs of the powder was powder we had shipped to him. I asked if he had anymore of our powder left on plant and he said no...that that was all he had left.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213

Fax 816-796-5043

From: Bricker, Denise (Beck)
Sent: Monday, October 22, 2012 9:19 AM
To: Smith, Larry (Modernization)
Subject: RE: Explosion at Camp Minden

The last time we shipped powder to Explo was 11/25/08.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213

Fax 816-796-5043

From: Smith, Larry (Modernization)
Sent: Monday, October 22, 2012 8:44 AM
To: Bricker, Denise (Beck)
Subject: FW: Explosion at Camp Minden

Denise

Do you know if we have any of our scrap powder at Camp Minden?

Thank You

L. H. (Larry) Smith
Supply Chain Manager

ATK Small Caliber Systems
Proud Operator of the Lake City Army Ammunition Plant
PO Box 340
Independence Mo. 64051
Plant Location
25201 East 78 Highway
Independence, MO 64056
Mail Stop: MO10-05

Tel. (816) 796-7221 Fax (816) 796-7224
Work Cell 816-589-8187
E-mail address: larry.smith@atk.com

CAUTION: The information contained in this message, including any attached files, is intended only for the recipient(s) to whom it is addressed. This message may contain information that is sensitive and/or confidential. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient(s) is strictly prohibited. If you have received this message in error, please contact the sender immediately and delete the material from your computer.



From: Doak, Billy
Sent: Monday, October 22, 2012 8:05 AM
To: Smith, Larry (Modernization)
Subject: Re: Explosion at Camp Minden

Honestly I don't know. Guessing I would say no due to the fact that Denise stop using this company over 5 years ago. I know I have nothing there that belongs to me.

From: Smith, Larry (Modernization)
Sent: Monday, October 22, 2012 07:43 AM
To: Doak, Billy; Morgan, Jeff; Moroski, Richard
Subject: RE: Explosion at Camp Minden

Billy

Was any of the powder our scrap?

Thank You

L. H. (Larry) Smith
Supply Chain Manager

ATK Small Caliber Systems
Proud Operator of the Lake City Army Ammunition Plant
PO Box 340

Independence Mo. 64051
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From: Doak, Billy
Sent: Monday, October 22, 2012 7:41 AM
To: Morgan, Jeff; Smith, Larry (Modernization); Moroski, Richard
Subject: Explosion at Camp Minden

Jeff and Larry,

The explosion at Camp Minden was actually a bunker owned by Explo Corporation... This company is the one that Julie Casey and Denise Bricker's group was using to dispose of old powder... After our (Denise and myself) inspection and recommendations because they were not doing what they were suppose to do, we stopped doing business with them... When I say we< I mean the whole corporation including Federal and CCI...

If you remember Larry, I even said that I don't trust them.... They are too shady... This is why we never sent them cartridges either... Glad we didn't...

All I have found thus far is that it was an underground bunker that had smokeless powder in it... No one was hurt, but it damaged some buildings in downtown areas and on the Camp...

Hope this helps...

Billy Doak

Materials Recovery Manager
ATK, LCAAP
816-589-9313 cell
816-796-7454 office

The Way We See the Problem Is the Problem

If you have a problem, the actual problem is that you are looking at it as a problem. It could be something else, such as an opportunity. When it rains lemons, make lemonade.

Bricker, Denise (Beck)

From: Pederstuen, Anita
Sent: Monday, March 29, 2010 4:25 PM
To: Bricker, Denise (Beck)
Subject: RE: Explo Systems

I'll contact the facility tomorrow and see what works for them too...

Anita Pederstuen
Environmental Engineer
Federal Premium Ammunition - ATK
763-323-2587

From: Bricker, Denise (Beck)
Sent: Monday, March 29, 2010 4:09 PM
To: Pederstuen, Anita
Subject: RE: Explo Systems

I am definitely interested in going to Idaho – take a look at your calendar and see if we can finalize something.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

From: Pederstuen, Anita
Sent: Monday, March 29, 2010 4:07 PM
To: Bricker, Denise (Beck)
Subject: RE: Explo Systems

Thanks for the update! I may contact him also next week on timing to see if I get the same information. When you decide to go visit the Kentucky site, please let me know and I will probably join you. On the Idaho site, I am thinking of going out there in mid-April, if you are interested...

Anita Pederstuen
Environmental Engineer
Federal Premium Ammunition - ATK
763-323-2587

From: Bricker, Denise (Beck)
Sent: Monday, March 29, 2010 3:52 PM
To: Pederstuen, Anita
Subject: RE: Explo Systems

<< Message: RE: Kentucky Gel Explosives Plant >>

 Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

From: Pederstuen, Anita
Sent: Monday, March 29, 2010 12:13 PM
To: Bricker, Denise (Beck)
Subject: Explo Systems

Denise –

Have you heard anything lately on the status of the new facility? If not, I was going to give them a call and see...

Anita



Bricker, Denise (Beck)

From: Smith, Larry (Purchasing)
Sent: Monday, March 23, 2009 12:17 PM
To: Herman, Tom; Bricker, Denise (Beck)
Cc: Krawczyk, Kim (Holly); Runowski, John; Finkbiner, John; Flemming, Andrea
Subject: FW: Explo systems - David Smith

FYI

Thank You
L. H. (Larry) Smith
Purchasing Manager
Alliant Techsystems
Lake City Ammunition Division
P.O. Box 340
Independence MO 64051
Phone 816-796-7221
Fax 816-796-7224
larry.smith@atk.com

From: Finkbiner, John
Sent: Monday, March 23, 2009 12:01 PM
To: Runowski, John; Smith, Larry (Purchasing)
Subject: Explo systems - David Smith

Larry and John -

David Smith called me about 11:20 this morning.

He told me the following:

- The material we shipped to them is located in both LA & KY.
- Explo is moving their operation to Kentucky. All their equipment is in KY now.
- The new plant will be in a 400 acre under ground facility. It's an old rock mine.
- Explo plans to be up and running by mid / late summer.
- The new plants monthly capacity is approx 500,000 lbs. They want and need the material we shipped them.
- Explo has already sold most of the plants capacity for the next year.
- They are de-milling truckloads of bombs for Rock Island right now.

David Smith will check his calendar and get back with me regarding a date for Denise to visit.

Thank you,

John B. Finkbiner
Senior Subcontract Administrator
Alliant Techsystems Inc.
Lake City Ammunition Division
Ph. 816.796.7225
Fax 816.796.7224
Email: john.finkbiner@atk.com

Bricker, Denise (Beck)

From: Bricker, Denise (Beck)
Sent: Tuesday, March 23, 2010 2:26 PM
To: Krawczyk, Kim (Holly)
Subject: RE: Explo
Attachments: RE: Kentucky Gel Explosives Plant

Kim,

Before Andrea Flemming left to go on the trip, I had asked her if she had a moment while she was down there to see how the propellant powder Lake City had shipped was being stored. I spoke with her today and she indicated that Explo wasn't exactly friendly on their visit last week and she did not get to see the powder.

Attached is e-mail correspondence I had with Explo today as to the progress of the plant that will use propellant powder as an ingredient in the production of gel explosives. His answer is the same story with a few twists that I have been hearing for the last 2 1/2 years. I will be surprised if the Kentucky plant ever comes on line.

It is my understanding that the powder that we have shipped is being stored in bunkers Explo has at the Minden facility. It is a very large facility with a lot of storage space.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

-----Original Message-----

From: Krawczyk, Kim (Holly)
Sent: Tuesday, March 23, 2010 8:22 AM
To: Bricker, Denise (Beck)
Subject: Explo

A few people from ATK recently visited Explo. I asked them if they could tell if Explo has started to process our old material. Billy Doak told me they were instructed not to ask that question. Can you find out?

Bricker, Denise (Beck)

From: Bricker, Denise (Beck)
Sent: Tuesday, March 23, 2010 2:16 PM
To: 'David Smith'
Subject: RE: Kentucky Gel Explosives Plant

David,

Sounds like ExploSystems has really been busy working on the demil operation. Hope all goes well with your Thermal Treatment Plant. As we've discussed before I am very anxious to visit the Kentucky Plant.

Please keep me informed on the progress of the gel explosive plant.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

From: David Smith [<mailto:davidasmith@explosystems.com>]
Sent: Tuesday, March 23, 2010 11:42 AM
To: Bricker, Denise (Beck)
Subject: RE: Kentucky Gel Explosives Plant

Denise: We are making good progress. Made test batches, had SMS test them and have submitted results to DOT for issuance of EX Number. Contractors hired to build building and bring electrical service to site.

In addition, we were awarded today a prop charge demilitarization contract and will be recycling several million lbs of M6 propellant through the Kentucky Gel Plant. The contract is a five year contract and we are very excited about the long term prospects for the KY plant.

We also received late in December our RD&D permit for the Thermal Treatment Plant that I told you about last fall. The permit will allow us to receive, store, and process hazardous wastes from military munitions. We are starting to construct our facility and should have it up and running early this fall. We have also applied for our full Part B RCRA permit for this unit and have just receive the first set of NOD's for the long term permit. We expect to have this permit late this year. The RD&D permit is good for 1 year from start up of plant and can be renewed for 3 additional years.

So lots of exciting news on our front let us know your thoughts.

Regards,

Dave

From: Bricker, Denise (Beck) [<mailto:Denise.BrickerBeck@ATK.COM>]
Sent: Tuesday, March 23, 2010 11:07 AM
To: David Smith (ExploSystems)
Subject: Kentucky Gel Explosives Plant

David,

Haven't heard from you in several months. Just checking in as to what are the plans for the powder that we sent to your Minden Facility for use in the manufacturing of Gel Explosives? Any progress on the Kentucky Gel Explosives Plant?

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

From: David Smith [<mailto:davidasmith@explosystems.com>]
Sent: Monday, December 07, 2009 3:30 PM
To: Bricker, Denise (Beck)
Subject: RE: Kentucky Gel Explosives Plant

Denise: Just got back with Kentucky Powder for update on the plant. Trial batch of gel will be made next week and sent to SMS in Utah for testing. DOT is estimating 12-14 weeks for EX Approval. Ed McGhee told me contract for building to be let before Christmas and equipment will be installed on concrete pad before building arrives. Building companies have told us about 2 week delivery on building.

Plant moving along a good pace now. Should have completed facility to show you in 4-6 weeks.

Let me know if you need some additional information.

Dave

From: Bricker, Denise (Beck) [<mailto:Denise.BrickerBeck@ATK.COM>]
Sent: Monday, December 07, 2009 4:17 PM
To: David Smith (ExploSystems)
Subject: RE: Kentucky Gel Explosives Plant

David,

Is there construction milestone or deadlines on the Kentucky Plant you can pass along? Or should we assume that this plant is not going to be built?

What is the plans for the propellant powder still located at the Minden facility?

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

From: Bricker, Denise (Beck)
Sent: Monday, November 16, 2009 3:32 PM
To: David Smith (ExploSystems)
Subject: Kentucky Gel Explosives Plant

David

Any news on the Kentucky Gel Explosives Plant?

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213

Fax 816-796-5043



Bricker, Denise (Beck)

From: Herman, Tom
Sent: Friday, March 20, 2009 1:50 PM
To: Bricker, Denise (Beck)
Subject: FW: Reserve for Explo Inventory

For your info

From: Snow, Brian (Lake City)
Sent: Tuesday, March 10, 2009 1:06 PM
To: Aeilts, Scott; Herman, Tom
Cc: Bristow, Kevin
Subject: Reserve for Explo Inventory

Scott,

Here is a summary for another reserve to be considered. Tom Herman is the Environmental/Safety Mgr that brought it to my attention, and I hope he will correct me for any incorrect information of mine.

Brian

- Lake City has sent scrap propellant to a company (Explo? - Tom please help with the company name). The plan was for Explo? to turn our scrap propellant into a gel explosive for industrial use.
- The material is currently sitting at a vendor location in inventory. The vendors mfg. facility was destroyed a couple years ago, and has not been rebuilt.
- We now doubt the vendor will rebuild and we will be forced to take back our scrap propellant
- Scrap propellant Inventory levels at 250,000 lbs. Current cost to send this scrap propellant somewhere else for disposal is \$3.70/lb. Total cost to us is \$925k
- With the exception of one location found at disposal cost of \$3.70/lb the industry average for disposal is \$8.00/lb

Bricker, Denise (Beck)

From: Switzer, Tim
Sent: Tuesday, December 08, 2009 1:51 PM
To: Bricker, Denise (Beck)
Subject: EXPLO Systems

Denise:

I just got off of the phone with an Explo fellow, he says that they are using the reclaimed powder, albeit slowly because their business is down. Didn't you say you visited that facility in Louisiana, what was your impression? We're trying to figure out whether to continue with them or not.

Tim Switzer
Environmental Supervisor
ATK (Alliant Techsystems)
Ammunition Accessories Inc.
CCI/Speer Operations
Office Phone 208/799-3585
Cellular 208/305-9285
Fax 208/750-4752

Bricker, Denise (Beck)

From: David Smith [davidasmith@explosystems.com]
Sent: Monday, December 07, 2009 3:30 PM
To: Bricker, Denise (Beck)
Subject: RE: Kentucky Gel Explosives Plant

Denise: Just got back with Kentucky Powder for update on the plant. Trial batch of gel will be made next week and sent to SMS in Utah for testing. DOT is estimating 12-14 weeks for EX Approval. Ed McGhee told me contract for building to be let before Christmas and equipment will be installed on concrete pad before building arrives. Building companies have told us about 2 week delivery on building.

Plant moving along a good pace now. Should have completed facility to show you in 4-6 weeks.

Let me know if you need some additional information.

Dave

From: Bricker, Denise (Beck) [mailto:Denise.BrickerBeck@ATK.COM]
Sent: Monday, December 07, 2009 4:17 PM
To: David Smith (ExploSystems)
Subject: RE: Kentucky Gel Explosives Plant

David,

Is there construction milestone or deadlines on the Kentucky Plant you can pass along? Or should we assume that this plant is not going to be built?

What is the plans for the propellant powder still located at the Minden facility?

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

From: Bricker, Denise (Beck)
Sent: Monday, November 16, 2009 3:32 PM
To: David Smith (ExploSystems)
Subject: Kentucky Gel Explosives Plant

David

Any news on the Kentucky Gel Explosives Plant?

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

Bricker, Denise (Beck)

From: David Smith [davidsmith@explosystems.com]
Sent: Tuesday, December 05, 2006 2:42 PM
To: Bricker, Denise (Beck)
Subject: RE: Explo Update

Denise: Did Carolyn get the invoice?

Thanks,

Dave

> David,
>
> The check for the first shipment has been authorized..you should
receive
> by the end of the week. I checked with our Account Payables...she has
> not seen the invoice 1753 for the second shipment...was it mailed? I
> received the fax but we can not pay off of faxed invoices. I have
> authorized payment so as soon as we receive the paper copy we should
be
> able to process.

>
> Denise Bricker
> Environmental Engineer
> Alliant Techsystems, Inc.
> 816-796-5213
> Fax 816-796-7402

> -----Original Message-----

> From: David Smith [mailto:davidsmith@explosystems.com]
> Sent: Monday, December 04, 2006 1:09 PM
> To: Bricker, Denise (Beck)
> Subject: Explo Update

>
> Denise: All Propellant got here is good shape. Hope that our check
> will not get caught up in end of the year red tape.

> Regards,

>
> David Smith
> Explo Systems, Inc.
> Phone (318) 382-8700
> Fax (318) 382-8434
> E-Mail davidsmith@explosystems.com

>
>
David Smith
Explo Systems, Inc.
Phone (318) 382-8700
Fax (318) 382-8434
E-Mail davidsmith@explosystems.com

Bricker, Denise (Beck)

From: Bode, Jonathan
Sent: Thursday, December 03, 2009 1:48 PM
To: Bricker, Denise (Beck)
Subject: RE: ExploSystems

Hi Denise;

I just re-read this email, thanks again for keeping me in the loop. A couple of ?'s:

- 1) Is it our practice to SELL this material to Explo, or did we pay them to take it?
- 2) Unrelated, but I want to confirm that you did indeed say on Monday that you had 43 month of backlog for bullet pull on 5.56mm.

Thanks.

jon

From: Bricker, Denise (Beck)
Sent: Thursday, November 05, 2009 1:34 PM
To: Herman, Tom
Cc: Bode, Jonathan
Subject: ExploSystems

Just got off of the phone with David Smith with ExploSystems. He stated that the lease has been signed and that he has a meeting with Ed McGee (my understanding is that Mr. McGee is the owner of the company ExploSystems is partnering with for the Kentucky plant) on Monday to set up firm construction dates. Mr. Smith stated he would send me an e-mail outlining those dates early next week. This is not a whole lot different than what Mr. Smith has been saying for months.

Mr. Smith did indicate that he has contracted with SMS to do some explosive testing for the product mix they will be manufacturing at the Kentucky facility and he hopes to send SMS the sample by end of November.

I asked about Lake City's powder, Mr. Smith indicated that all of the powder that we had sent Explo since the fire in August 2006 was still at the Minden facility. I asked if they checked on the powder condition and he stated that they just do the "typical" inspection once every 30 days and that the powder was in good condition. From my understanding the inspection is just a visual not actual testing for stabilizer percentage.

Lake City has shipped 248,044 pounds of propellant powder to ExploSystems since August 2006. The last shipment occurred 11/16/08.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

Bricker, Denise (Beck)

From: Herman, Tom
Sent: Tuesday, November 24, 2009 4:48 PM
To: Bricker, Denise (Beck)
Subject: RE: ExploSystems

Heard any more about this?

From: Bricker, Denise (Beck)
Sent: Thursday, November 05, 2009 1:34 PM
To: Herman, Tom
Cc: Bode, Jonathan
Subject: ExploSystems

Just got off of the phone with David Smith with ExploSystems. He stated that the lease has been signed and that he has a meeting with Ed McGee (my understanding is that Mr. McGee is the owner of the company ExploSystems is partnering with for the Kentucky plant) on Monday to set up firm construction dates. Mr. Smith stated he would send me an e-mail outlining those dates early next week. This is not a whole lot different than what Mr. Smith has been saying for months.

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Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

Bricker, Denise (Beck)

From: Runowski, John
Sent: Monday, November 09, 2009 4:06 PM
To: Bricker, Denise (Beck)
Cc: Humiston, Susan
Subject: RE: ExploSystem

Clause with EBV Explosives:

ATK requires a certificate of destruction for each shipment of scrap propellant. The document shall be provided within 30 days after disposal.

Storage and disposal methods shall meet all safety and environmental requirements of the US Government and the state of Missouri

Regards,
John Runowski
Subcontract Administrator
ATK
Small Caliber Systems
A Division of Alliant Techsystems Inc.
Lake City Army Ammunition Plant
P.O. Box 340
Independence MO 64051
816-796-7219
816-796-7224 fax
john.runowski@atk.com

From: Bricker, Denise (Beck)
Sent: Monday, November 09, 2009 3:38 PM
To: Runowski, John
Cc: Humiston, Susan
Subject: ExploSystem

John,

I have forwarded Susan a copy of purchase order for ExploSystem. Can you please look in the files at Purchasing and forward any other indemnification clauses or other contract language that is not included in the Purchase Order? Susan is with ATK Legal and is evaluating our liability issues concerning propellant powder we have sent to ExploSystems.

Thank you!

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

Bricker, Denise (Beck)

From: Bode, Jonathan
Sent: Thursday, November 05, 2009 1:40 PM
To: Bricker, Denise (Beck)
Subject: RE: ExploSystems

Thanks Denise.

Jon

From: Bricker, Denise (Beck)
Sent: Thursday, November 05, 2009 1:34 PM
To: Herman, Tom
Cc: Bode, Jonathan
Subject: ExploSystems

Just got off of the phone with David Smith with ExploSystems. He stated that the lease has been signed and that he has a meeting with Ed McGee (my understanding is that Mr. McGee is the owner of the company ExploSystems is partnering with for the Kentucky plant) on Monday to set up firm construction dates. Mr. Smith stated he would send me an e-mail outlining those dates early next week. This is not a whole lot different than what Mr. Smith has been saying for months.

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Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-5043

Bricker, Denise (Beck)

From: Herman, Tom
Sent: Monday, March 23, 2009 2:22 PM
To: Krawczyk, Kim (Holly); Smith, Larry (Purchasing); Bricker, Denise (Beck); Finkbiner, John
Subject: RE: Explo systems - David Smith

We have been hearing this same story for two years now. I can hold off shipping 60,000 pounds of floor sweeping powder until the end of summer. If they build I will ship to them.

From: Krawczyk, Kim (Holly)
Sent: Monday, March 23, 2009 1:39 PM
To: Smith, Larry (Purchasing); Herman, Tom; Bricker, Denise (Beck)
Subject: RE: Explo systems - David Smith
Importance: High

So we don't have to take any back? Tom, are you in agreement that our financial exposure is minimal now. I know you were worried about it last month.

From: Smith, Larry (Purchasing)
Sent: Monday, March 23, 2009 12:17 PM
To: Herman, Tom; Bricker, Denise (Beck)
Cc: Krawczyk, Kim (Holly); Runowski, John; Finkbiner, John; Flemming, Andrea
Subject: FW: Explo systems - David Smith

FYI

Thank You
L. H. (Larry) Smith
Purchasing Manager
Alliant Techsystems
Lake City Ammunition Division
P.O. Box 340
Independence MO 64051
Phone 816-796-7221
Fax 816-796-7224
larry.smith@atk.com

From: Finkbiner, John
Sent: Monday, March 23, 2009 12:01 PM
To: Runowski, John; Smith, Larry (Purchasing)
Subject: Explo systems - David Smith

Larry and John -

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He told me the following:

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- The new plant will be in a 400 acre under ground facility. It's an old rock mine.
- Explo plans to be up and running by mid / late summer.
- The new plants monthly capacity is approx 500,000 lbs. They want and need the material we shipped them.
- Explo has already sold most of the plants capacity for the next year.
- They are de-milling truckloads of bombs for Rock Island right now.

David Smith will check his calendar and get back with me regarding a date for Denise to visit.

Thank you,

John B. Finkbiner
Senior Subcontract Administrator
Alliant Techsystems Inc.
Lake City Ammunition Division
Ph. 816.796.7225
Fax 816.796.7224
Email: john.finkbiner@atk.com

Bricker, Denise (Beck)

From: davidasmith@explosystems.com
Sent: Sunday, August 24, 2008 7:26 PM
To: Bricker, Denise (Beck)
Subject: Re: Alliant Techsystems - Lake City - Propellant Powder

Denise: We are 100 percent committed to slurry plant in KY. Our partner Ed McGhee is negotiating a long term lease extension to his quarry lease. Quarry company just went through a sale and new legal dept behind in property leases. We want to wait on new lease before we install equipment. We have presold entire output of plant and your floorsweep important part of our formulation. Let's talk tomorrow, I have a meeting from 10-11 tomorrow. Please give me a call on my cell 3184701145 when you have a minute.

Dave

-----Original Message-----

From: Bricker, Denise (Beck)
To: David Smith (ExploSystems)
Sent: Aug 22, 2008 2:37 PM
Subject: Alliant Techsystems - Lake City - Propellant Powder

David,

Should I be looking for another facility to manage our floor sweeping propellant powder?

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-7402

Sent via BlackBerry by AT&T

Bricker, Denise (Beck)

From: davidasmith@explosystems.com
Sent: Friday, March 14, 2008 12:46 PM
To: Bricker, Denise (Beck);
Subject: Explo

Denise: Would you mind seeing if our invoice could get paid next week?
I hope that it does not get tied into the end of your fiscal year stop.

Hope you have a nice weekend.

Dave

David Smith
Explo Systems, Inc.
Phone (318) 382-8700
Fax (318) 382-8434
E-Mail davidasmith@explosystems.com

Bricker, Denise (Beck)

From: Dye, Carolyn
Sent: Friday, December 21, 2007 11:44 AM
To: Bricker, Denise (Beck)
Subject: RE: Explo

The check was written and mailed today in the amount of \$21,164.66. check number-00378040

From: Bricker, Denise (Beck)
Sent: Wednesday, December 19, 2007 10:40 AM
To: Dye, Carolyn
Subject: FW: Explo

Carolyn,

I authorize payment for the attached invoice – please subtract the overpayment. PO C13156 Please charge to 9000.126.918.

Also could you please let me know the amount of payment and when you expect the check to be sent to ExploSystems.

Thank you.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-7402

From: davidasmith@explosystems.com [<mailto:davidasmith@explosystems.com>]
Sent: Wednesday, December 19, 2007 10:32 AM
To: Bricker, Denise (Beck)
Subject: RE: Explo

Denise: We e mailed it last week, here it is again. Gel plant proceeding, we are running power to the unit as it is in an underground limestone mine.

We expect 1st quarter start up.

Do I need to call John about our mix up on the invoice?

Thanks,

Dave

From: Bricker, Denise (Beck) [<mailto:Denise.BrickerBeck@atk.com>]
Sent: Wednesday, December 19, 2007 11:15 AM
To: Bricker, Denise (Beck); David Smith (ExploSystems)
Subject: RE: Explo

David,

It sounds like you did not get my e-mail from last week on the check – see below e-mail.

As far as a contact person for reclaimed brass – John Finkbiner at 816-796-7225.

Can you give me a status update on the gel explosive plant?

From: Bricker, Denise (Beck)
Sent: Wednesday, December 12, 2007 11:04 AM
To: David Smith (ExploSystems)
Subject: FW: Explo

David,

Accounts Payable has not seen the invoice – all I have is the faxed copy I received and as you know they will not pay off of a fax. If you can scan the invoice and send to my attention – I can authorize payment and get it turned around fairly quickly.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-7402

From: Dye, Carolyn
Sent: Wednesday, December 12, 2007 10:16 AM
To: Bricker, Denise (Beck)
Subject: RE: Explo

Accounts Payable has not seen invoice 1894.

From: Bricker, Denise (Beck)
Sent: Monday, December 10, 2007 4:21 PM
To: Dye, Carolyn
Subject: FW: Explo

Carolyn,

Can you check on Explo Systems latest invoice? It should be invoice #1894 in the amount of \$31,012.08. We shipped powder to ExploSystem on 11/7/07.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-7402

From: davidsmith@explosystems.com [mailto:davidsmith@explosystems.com]
Sent: Monday, December 10, 2007 4:17 PM

To: Bricker, Denise (Beck)
Subject: Explo

Denise: Could you please check on our payment for the November invoice. I know that there was a \$10k credit to deduct but was wondering about the balance.

Thanks, and hope you have a nice holiday.

Dave

David Smith
Explo Systems, Inc.
Phone (318) 382-8700
Fax (318) 382-8434
E-Mail davidasmith@explosystems.com

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Attachments: INVOICE.pdf

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David Smith
Explo Systems, Inc.
Phone (318) 382-8700
Fax (318) 382-8434

1. 6

E-Mail dauidasmith@explosystems.com



Bricker, Denise (Beck)

From: davidasmith@explosystems.com
Sent: Monday, June 09, 2008 10:10 AM
To: Bricker, Denise (Beck)
Subject: RE: Status on Slurry Plant

Denise: We are proceeding with the slurry plant but not as fast as we all want. Ed McGhee has to supply some information to the US Mine Safety and Health Administration (MSHA) since the plant is in an inactive limestone mine. In addition, we are trying to get an additional 10 years on the lease to give us 15 years total on lease.

Equipment is for the most on site, we have some packaging equipment that is being reworked and that is yet to arrive.

Understand your reluctance in sending more till the plant is done. It should come together pretty quickly as we are trying to get our DOT sample made and submitted in June.

I'll give you an update in two weeks.

Best Regards,

Dave

From: Bricker, Denise (Beck) [mailto:Denise.BrickerBeck@atk.com]
Sent: Thursday, June 05, 2008 1:12 PM
To: davidasmith@explosystems.com
Subject: Status on Slurry Plant

David,

Just checking in with you on the status of the slurry plant. We are in need of a shipment but really don't want to send anymore powder until you have the slurry plant functional. Can you give me an update and a projected start date?

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-7402

From: davidasmith@explosystems.com [mailto:davidasmith@explosystems.com]
Sent: Friday, March 14, 2008 12:46 PM
To: Bricker, Denise (Beck)
Subject: Explo

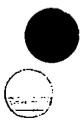
Denise: Would you mind seeing if our invoice could get paid next week? I hope that it does not get tied into the end of your fiscal year stop.

Hope you have a nice weekend.

Dave

David Smith
Explo Systems, Inc.
Phone (318) 382-8700
Fax (318) 382-8434

E-Mail davidsmith@explosystems.com



Bricker, Denise (Beck)

From: davidasmith@explosystems.com
Sent: Thursday, October 25, 2007 5:28 PM
To: Bricker, Denise (Beck)
Subject: RE: Propellant

Denise: We will have R & R there on the 7th.

Thanks,

Dave

From: Bricker, Denise (Beck) [mailto:Denise.BrickerBeck@atk.com]
Sent: Thursday, October 25, 2007 12:47 PM
To: davidasmith@explosystems.com
Subject: RE: Propellant

Great...I am anxious to have you back up and operational...it would make me rest a lot easier. I'm sure the same goes for you as well. We had a discrepancy with our inventory but we have it all straightened out. We have a full load of propellant ready but are short handed next week. Can we schedule a pick up for November 7th?

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-7402

From: davidasmith@explosystems.com [mailto:davidasmith@explosystems.com]
Sent: Monday, October 08, 2007 10:52 AM
To: Bricker, Denise (Beck)
Subject: RE: Propellant

Denise: We have completed engineering work and have bids on RFQ's to electrical and mechanical contractors That we are evaluating. Expect to start pouring slab this month and have building up by Thanksgiving. We have assigned Our engineer is nearly full time on this project and I will be up there several times in the next few weeks.

TNT plant is back up in full operation so that has allowed us to put and engineering time into the slurry plant.

Thanks,

Dave

From: Bricker, Denise (Beck) [mailto:Denise.BrickerBeck@atk.com]
Sent: Monday, October 08, 2007 11:42 AM
To: davidasmith@explosystems.com
Subject: RE: Propellant

David,

How is the slurry plant proceeding?

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-7402

From: davidasmith@explosystems.com [<mailto:davidasmith@explosystems.com>]
Sent: Monday, October 08, 2007 8:50 AM
To: Bricker, Denise (Beck)
Subject: RE: Propellant

Denise: Are you ready to schedule a propellant shipment?

We could get R & R there late this week or early next week.

Thanks,

Dave

From: Bricker, Denise (Beck) [<mailto:Denise.BrickerBeck@atk.com>]
Sent: Monday, August 27, 2007 3:12 PM
To: davidasmith@explosystems.com
Subject: RE: Propellant

Hi David,

We currently only have about a 1/2 of a trailer load of powder – our pull down operation has been slowed while we try to bring up the .50 cal high speed pull down unit. We should have pull down fully operation toward end of September and should have a full load in early October. Let's wait until I have a full load I will give you a call or send an e-mail toward end of September to schedule a shipment in October.

Good luck on your TNT first article.

Denise Bricker
Environmental Engineer
Alliant Techsystems, Inc.
816-796-5213
Fax 816-796-7402

From: davidasmith@explosystems.com [<mailto:davidasmith@explosystems.com>]
Sent: Monday, August 27, 2007 1:59 PM
To: Bricker, Denise (Beck)
Subject: Propellant

Denise: Do you want to schedule a shipment for after the Labor Day holiday? Just let me know.

We will have TNT 1st article production on Sept 4-5 and then will concentrate on Slurry plant in KY.

Regards,

David Smith
Explo Systems, Inc.
Phone (318) 382-8700
Fax (318) 382-8434

E-Mail dauidasmith@explosystems.com



Invoices and bill of ladings sent to Crum regarding Lake City's shipments of scrap powder sent to Explo for recycling

VOUCHER #	WASTE DESCRIPTION	POUNDS	TSDF EPA ID	DATE SHIPPED	DATE RECEIVED BY TSDF	INVOICE #	INVOICE AMOUNT	Invoice submitted with Subpoena	Bill of Lading submitted with Subpoena
E-00012-04-01P	PROPELLANT	37,960.00	EXPLO SYSTEMS	8/31/2004	8/31/2004	1315	\$35,492.60	x	
E-00012-04-02P	PROPELLANT	39,280.00	EXPLO SYSTEMS	9/15/2004	9/15/2004	1320	\$36,726.80	x	
E-00012-04-03P	PROPELLANT	28,620.00	EXPLO SYSTEMS	9/30/2004	9/30/2004	1330	\$26,759.70	x	
E-00004-05-01F	PROPELLANT	25,430.00	EXPLO SYSTEMS	2/9/2005	2/9/2005	1441	\$23,777.05	x	x
E-00004-05-02P	PROPELLANT	32,453.00	EXPLO SYSTEMS	6/14/2005	6/14/2005	1508	\$32,453.00	x	x
E-00004-05-03P	PROPELLANT	36,893.00	EXPLO SYSTEMS	6/22/2005	6/22/2005	1513	\$34,494.96	x	x
E-00004-05-04P	PROPELLANT	34,393.00	EXPLO SYSTEMS	8/31/2005	8/31/2005	1539	\$32,157.46	x	x
E-00004-05-05P	PROPELLANT	35,642.00	EXPLO SYSTEMS	11/9/2005	11/10/2005	1573	\$33,325.27	x	x
E-00004-05-06P	PROPELLANT	28,614.00	EXPLO SYSTEMS	2/23/2006	2/24/2006	1620	\$26,754.09	x	x
E-00004-05-07P	PROPELLANT	18,194.00	EXPLO SYSTEMS	2/24/2006	2/25/2006	1621	\$17,011.39	x	x
E-00004-05-08P	PROPELLANT	38,380.00	EXPLO SYSTEMS	7/12/2006	7/13/2006		\$35,885.30	x	x
E-00004-05-09P	PROPELLANT	34,968.00	EXPLO SYSTEMS	11/15/2006	11/16/2006	1752	\$32,695.08	x	x
E-00004-05-10P	PROPELLANT	35,368.00	EXPLO SYSTEMS	11/20/2006	11/21/2006	1753	\$33,069.08	x	x
E-00004-05-11P	PROPELLANT	25,124.00	EXPLO SYSTEMS	2/28/2007	3/1/2007	1785	\$23,490.94	x	
E-00004-05-12P	PROPELLANT	25,408.00	EXPLO SYSTEMS	3/6/2007	3/7/2007	1787	\$23,756.48	x	x
E-00004-05-13P	PROPELLANT	24,836.00	EXPLO SYSTEMS	6/12/2007	6/13/2007	1819	\$23,221.66	x	x
E-00004-05-14P	PROPELLANT	33,168.00	EXPLO SYSTEMS	11/7/2007	11/8/2007	1894	\$21,164.66	x	x
E-00004-05-15P	PROPELLANT	34,088.00	EXPLO SYSTEMS	3/12/2008	3/12/2008	1973	\$31,872.28	x	x
E-00004-05-16P	PROPELLANT	35,084.00	EXPLO SYSTEMS	11/25/2008	11/26/2008	2169	\$32,803.54	x	x

603,903.00

SIGNATURE AND TALLY RECORD

Form Approved
OMB NO. 0702-0027
Expires Sep 30, 1992

Public reporting burden for this collection of information is estimated to average 2 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0702-0027), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses.

DISTRIBUTION INSTRUCTIONS

- ⊗ The SHIPPER will prepare copies 1 through 4, retain copy 4 and deliver copies 1 through 3 to the Origin Carrier.
- ⊗ The CARRIER will deliver copies 1 through 3 to the Destination Carrier.
- ⊗ The DESTINATION CARRIER will attach copy 1 (reflecting all signatures) and Standard Form 1113 (Public Voucher For Transportation Charges) to the original Government Bill of Lading, and forward for payment. Copy 2 will be delivered to the Consignee. Copy 3 will be retained.
- ⊗ The CONSIGNEE will ensure Destination Carrier surrenders copy 2.

SECTION A - To be completed by the SHIPPER

1. SHIPPER		2. PROTECTIVE SERVICE REQUESTED	
a. NAME ALLIANT TECHSYSTEMS		DUAL DRIVERS	
b. ORIGIN HWY 7 & 78, LAKE CITY AAP INDEPENDENCE, MO 64058		3. GBL OR CBL NUMBER E-00004-05-1F	
4. CONSIGNEE		6. PERMIT NUMBER (if any)	
a. NAME EXPLO SYSTEMS INC			
b. DESTINATION 1702 FOURTH STREET MINDEN, LA 71055		8. TRANSPORTATION CONTROL NUMBER	
7. ROUTING RRUK		8. WEIGHT 27,860	9. CUBE
10. SPECIAL INSTRUCTIONS		11. DATE SHIPMENT TENDERED TO CARRIER 02/09/05	12. NAME OF CARRIER RRUK
13. NUMBER OF PIECES 290 DRUMS	14. TYPE OF PACKAGE(S) (for unsealed loads only) OR CONVEYANCE IDENTIFICATION & SEAL NUMBERS (for sealed loads only) TRAILER # 183335 SEALS: 45903-45904	15. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVES, NO1 NMFC 64300, SUB 1	

SECTION B - To be completed by each person accepting custody of classified or protected material requiring the use of transportation protective service during transit

16. CUSTODY RECORD				
a. PRINT NAME OF PERSON AND COMPANY REPRESENTED	b. STATION INTERCHANGE POINT DESTINATION	c. SIGNATURE OF PERSON ACCEPTING CUSTODY	d. TIME ACCEPTED	e. DATE ACCEPTED
	LCAAP			
<i>[Signature]</i>	LCAAP	<i>[Signature]</i>		
<i>[Signature]</i>		<i>[Signature]</i>		

DD Form 1907, APR 90

Previous editions are obsolete

ORIGINAL - Financa Center - COPY 1

348/107

STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

Shipper No: E-00004-05-2P

Carrier No: RRUK

Date: 6/14/2005

Page 1 of 1 R & R TRUCKING RRUK

(Name of carrier) (SCAC)

<p><small>On Collected Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise in Item 430, Sec. 1</small></p> <p>TO:</p> <p>Consignee EXPLO SYSTEMS INC.</p> <p>Street 1702 FOURTH STREET</p> <p>City MINDEN State LA Zip Code 71055</p>	<p>FROM: ALLIANT LAKE CITY SMALL CAL AMMO CO LLC</p> <p>Shipper LAKE CITY ARMY AMMUNITION PLANT</p> <p>Street HWY 7 & 78, LAKE CITY AAP</p> <p>City INDEPENDENCE State MO Code 64056</p> <p>24 hr. Emergency Contact Tel. No. CHEM TREC 1-800-424-9300</p>
---	--

Route **R & R TRUCKING** Seals #: **53661-53662** Tractor #: _____ Vehicle Number **R17765**

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Class, Hazard Class, Identification number (UN or UA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, Etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
391	X	POWDER, SMOKELESS, 1.1C, UN0180, PG II	GROSS WT 35,390			
DRUMS		EXPLOSIVES, NOI NMFC 64300 SUB 1	FREIGHT WT 35,190			
		<i>(Mixed Propellant Types ERG# 112)</i>				
		EX-0009082	DUNNAGE 200			
		N.E.W. 32,453 LBS				
		EXPLOSIVE 1.1C PLACARDS REQUIRED (4)				
		C13156				
		FRT CHARGES COLLECT				
		DUAL DRIVER REQUIRED				
		FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES.				
		SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. CARRIER TO NOTIFY MIDEN, LA				
		AT 318-382-8700. AND LAKE CITY AAP (816)796-7150 OR AFTER DUTY HOURS (816)796-7488				
		IMMEDIATELY IF SHIPMENT IS DELAYED EN ROUTE BECAUSE OF AN ACCIDENT OR INCIDENT.				

PLACARDS TENDERED: YES NO

NOTE: (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed upon value of the property as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to not be exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowage must be so marked and packaged as to ensure safe transportation. See Section 2(1) of Item 300, Bills of Lading, Freight Bills and Statements of Charges and Section 1(1) of the Contract Terms and Conditions for a full of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Janet A. ...

G.O.D. TO ADDRESS:

COD Amt: \$ _____

C.O.D. FEE: PREPAID COLLECT \$ _____

TOTAL CHARGES: \$ _____

FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked. Check box if charges are to be collected.

RECEIVED, subject to clauses and terms in effect on the date of the Bill of Lading. The property described above in apparent good order, except as noted (ports and condition of contents of packages unknown), marked consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract, agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination.

If it is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER ALLIANT LAKE CITY SCAC LLC	CARRIER R & R TRUCKING RRUK
PER DONNA M. SIMS	PER _____
TRANSPORTATION MANAGER	DATE 6/14/2005

Permanent post-office address of shipper

SIGNATURE AND TALLY RECORD

form Approved
OMB NO. 0702-0027
Expires Sep 30, 1992

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1. SHIPPER		2. PROTECTIVE SERVICE REQUESTED	
a. NAME ALLIANT TECHSYSTEMS		DUAL DRIVERS	
b. ORIGIN HWY 7 & 78, LAKE CITY AAP INDEPENDENCE, MO 64056		3. GBL OR CBL NUMBER E-00004-05-2P	
4. CONSIGNEE		5. PERMIT NUMBER (if any)	
a. NAME EXPLO SYSTEMS INC			
b. DESTINATION 1702 FOURTH STREET MINDEN, LA 71055		6. TRANSPORTATION CONTROL NUMBER	
7. ROUTING RRUK		8. WEIGHT 35,190	9. CUBE
10. SPECIAL INSTRUCTIONS		11. DATE SHIPMENT TENDERED TO CARRIER 06/14/05	12. NAME OF CARRIER RRUK
13. NUMBER OF PIECES 391 DRUMS	14. TYPE OF PACKAGE(S) (for unsealed loads only) OR CONVEYANCE IDENTIFICATION & SEAL NUMBERS (for sealed loads only) TRAILER # R17765 SEALS: 63361-63362	15. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVES, NOI NMFC 64300, SUB 1	

SECTION B - To be completed by each person accepting custody of classified or protected material requiring the use of transportation protective service during transit

16. CUSTODY RECORD				
a. PRINT NAME OF PERSON AND COMPANY REPRESENTED	b. STATION INTERCHANGE POINT DESTINATION	c. SIGNATURE OF PERSON ACCEPTING CUSTODY	d. TIME ACCEPTED	e. DATE ACCEPTED
RALPH PHIPPS <i>R.P.</i>	LCAAP	<i>Ralph Phipps</i>	11:30	6-14-05
EDNA PHIPPS <i>E.P.</i>	LCAAP	<i>Edna Phipps</i>	11:30	6-14-05

DD Form 1907, APR 90

Previous editions are obsolete

ORIGINAL - Finance Center - COPY 1

349/107

REQUISITION AND INVOICE / SHIPPING DOCUMENT						Form Approved OMB No. 0704-0246 Expires Oct 31, 1991					
Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Service, Directorate for Information Operations and Reports, 1215 Jefferson Davis Hwy, Suite 1204, Arlington VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0246), Washington D.C. 20503											
1. FROM: ALLIANT TECH SYSTEMS DAAA09-99-D-0016 LAKE CITY ARMY AMMUNITION PLANT MO HWYS 7 & 78 INDEPENDENCE MO 64057				SHEET 1	# OF SHEETS 1	5. REQUISITION DATE					
				6. REQUISITION NUMBER C13156							
2. TO: EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055				7. DATE MATERIAL REQUIRED <i>(M/M/DD)</i>		8. PRIORITY					
				9. AUTHORITY OR PURPOSE Raw Material Substitution							
				10. SIGNATUR <i>[Signature]</i>		11a. VOUCHER NUMBER & DATE E-00004-05-2P					
3. SHIP TO - MARK FOR EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055				12. DATE SHIPPED 6/14/2005 <i>(M/M/DD)</i>		TRACTOR : TRAILER: R17765					
				13. MODE OF SHIPMENT R & R TRUCKING		14. BILL OF LADING # COMMERCIAL COLLECT					
				15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO. SEALS: 53361 & 53362							
4. APPROPRIATIONS SYMBOL AND SUBHEAD		OBJECT CLASS	EXPEND. ACCOUNT <i>(FROM)</i>	<i>(TO)</i>	CHARGEABLE ACTIVITY	BUREAU CONTROL ACTIVITY NO.	BUREAU CONTROL NO.	AMOUNT			
ITEM # <i>(a)</i>	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES <i>(b)</i>		UNIT OF ISSUE <i>(c)</i>	QTY SHIPPED <i>(d)</i>	SUPPLY ACTION <i>(e)</i>	TYPE CONTAINER <i>(f)</i>	CONTAINER NUMBER <i>(g)</i>	UNIT PRICE <i>(h)</i>	TOTAL COST <i>(i)</i>		
1	Powder, Smokeless, 1.1C, UN0160, PG II, EX-0009082 Mixed Propellant Types ERG# 112 DOT MKS; POWDER, SMOKELESS, UN0160 EXPLOSIVE 1.1C PLACARDS REQUIRED (4) This material shall be transported and recycled in accordance with the terms and conditions of Alliant purchase order LCO C13156 EXPLOSIVE 1.1C LABELS REQUIRED ON EACH DRUM ORIGINATOR: <i>[Signature]</i> APPROVED BY: <i>Randy J. Griller</i> 6/9/2005		LBS	32,453	391	DF					
				FOR EMERGENCY RESPONSE INFORMATION CONTACT THE FOLLOWING 1-800-424-9300 (TOLL FREE IN THE U.S., CANADA, AND THE U.S. VIRGIN ISLANDS) 703-527-3887 FOR CALLS ORIGINATING ELSEWHERE (COLLECT CALLS ARE ACCEPTED) ACCOUNTABILITY NOT TO BE RETAINED THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED PACKAGED, MARKED & LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. DD-626 FURNISHED CARRIER DUAL DRIVERS REQUIRED MSDS FURNISHED <i>[Signature]</i>							
16. TRANSPORTATION VIA MATS OR MSTs CHARGEABLE TO				17. SPECIAL HANDLING							
R S E H C I A P P M E O N F T	18. ISSUED BY	TOTAL CONTAINERS	TYPE CONTAINERS	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE	19. CONT RCVD	DATE (Y/M/DD)	BY	SHEET TOTAL	
	CHECKED BY	391	Drums	GROSS	35,390		R				
	PACKED BY			FREIGHT	35,190		E				
				DUNNAGE	200		C	AS NOTED			
							E	QTYs RCVD	DATE (Y/M/DD)	BY	GRAND TOTAL
							P	EXCEPT AS NOTED			
						T	POSTED	DATE (Y/M/DD)	BY	DO REC VOUCHING	
← TOTAL →											

STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

Shipper No: E-00004-06-3P

Carrier No: RRUK

Date: 6/22/2005

Page 1 of 1 R & R TRUCKING RRUK
 (Name of carrier) (SCAC)

<p><small>On Collected Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise in Item 430, Sec. 1</small></p> <p>TO:</p> <p>Consignee EXPLO SYSTEMS INC.</p> <p>Street 1702 FOURTH STREET</p> <p>City MINDEN State LA Zip Code 71056</p>	<p>FROM: ALLIANT LAKE CITY SMALL CAL AMMO CO LLC</p> <p>Shipper LAKE CITY ARMY AMMUNITION PLANT</p> <p>Street HWY 7 & 76, LAKE CITY AAP</p> <p>City INDEPENDENCE State MO Code 64056</p> <p>24 hr. Emergency Contact Tel. No. CHEM TREC 1-800-424-9300</p>
Route R & R TRUCKING	Seals #: 53783-53784
Tractor #: 6074	Vehicle Number 18003

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Class, Hazard Class, Identification number (UN or UTA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, Etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
361 DRUMS	X	POWDER, SMOKELESS, 1.1C, UN0160, PG II	GROSS WT 39,820			
		EXPLOSIVES, NOI NMFC 64300 SUB 1	FREIGHT WT 39,620			
		(Mixed Propellant Types ERG# 112)				
		EX-0009082	DUNNAGE 200			
		N.E.W. 37,093 LBS				
		EXPLOSIVE 1.1C PLACARDS REQUIRED (4)				
		C13156				
		FRT CHARGES COLLECT				
		DUAL DRIVER REQUIRED				
		FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES.				
		SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. CARRIER TO NOTIFY MIDEN, LA				
		AT 318-382-8700. AND LAKE CITY AAP (816)796-7150 OR AFTER DUTY HOURS (816)796-7488				
		IMMEDIATELY IF SHIPMENT IS DELAYED EN ROUTE BECAUSE OF AN ACCIDENT OR INCIDENT.				

PLACARDS TENDERED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		RELAY	
<small>NOTE: (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed upon value of the property as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to not be exceeding _____ per _____." (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172. (3) Commodity requiring special or additional care or attention in handling or stowage must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 302, Bills of Lading, Freight Bill and Statements of Charges and Section 1(f) of the Contract Terms and Conditions for a list of such articles.</small>		<small>I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.</small>	
C.O.D. TO ADDRESS:		COD Amt: \$	
C.O.D. FEE: PREPAID COLLECT \$		TOTAL CHARGES: \$	
FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked. Check box if charges are to be collect. <input checked="" type="checkbox"/>		ALLIANT LAKE CITY SMALL CAL AMMO CO LLC	

RECEIVER, subject to classification and terms in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked consigned, and delivered as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract), agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination.

It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for his use and his assigns.

SHIPPER ALLIANT LAKE CITY SCAC LLC	CARRIER R & R TRUCKING RRUK
PER DONNA M. SIMS	PER <i>[Signature]</i>
TRANSPORTATION MANAGER	DATE 6/22/2005

Permanent post-office address of shipper

SIGNATURE AND TALLY RECORD

Form Approved
OMB NO. 0702-0027
Expires Sep 30, 1992

Public reporting burden for this collection of information is estimated to average 2 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0702-0027), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses.

DISTRIBUTION INSTRUCTIONS

- The SHIPPER will prepare copies 1 through 4, retain copy 4 and deliver copies 1 through 3 to the Origin Carrier.
- The CARRIER will deliver copies 1 through 3 to the Destination Carrier.
- The DESTINATION CARRIER will attach copy 1 (reflecting all signatures) and Standard Form 1113 (Public Voucher For Transportation Charges) to the original Government Bill of Lading, and forward for payment. Copy 2 will be delivered to the Consignee. Copy 3 will be retained.
- The CONSIGNEE will ensure Destination Carrier surrenders copy 2.

SECTION A - To be completed by the SHIPPER

1. SHIPPER		2. PROTECTIVE SERVICE REQUESTED	
a. NAME ALLIANT TECHSYSTEMS		DUAL DRIVERS	
b. ORIGIN HWY 7 & 78, LAKE CITY AAP INDEPENDENCE, MO 64058		3. GBL OR CBL NUMBER E-00004-05-3P	
4. CONSIGNEE		5. PERMIT NUMBER (if any)	
a. NAME EXPLO SYSTEMS INC			
b. DESTINATION 1702 FOURTH STREET MINDEN, LA 71055		6. TRANSPORTATION CONTROL NUMBER	
7. ROUTING RRUK 18003		8. WEIGHT 39,820	9. CUBE
10. SPECIAL INSTRUCTIONS		11. DATE SHIPMENT TENDERED TO CARRIER 08/22/05	12. NAME OF CARRIER RRUK
13. NUMBER OF PIECES 361 DRUMS	14. TYPE OF PACKAGE(S) (for unsealed loads only) OR CONVEYANCE IDENTIFICATION & SEAL NUMBERS (for sealed loads only) TRAILER # 18003 SEALS: 53783-53784	15. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVES, NOI NMFC 64300, SUB 1	

SECTION B - To be completed by each person accepting custody of classified or protected material requiring the use of transportation protective service during transit

16. CUSTODY RECORD				
a. PRINT NAME OF PERSON AND COMPANY REPRESENTED	b. STATION INTERCHANGE POINT DESTINATION	c. SIGNATURE OF PERSON ACCEPTING CUSTODY	d. TIME ACCEPTED	e. DATE ACCEPTED
Robert [Signature]	LCAAP	[Signature]		8/22/05
Karen [Signature]	LCAAP	[Signature]		8/22/05

REQUISITION AND INVOICE / SHIPPING DOCUMENT

Form Approved
OMB No. 0704-0246
Expires Oct 31, 1991

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1. FROM: ALLIANT TECH SYSTEMS DAAA09-99-D-0016 LAKE CITY ARMY AMMUNITION PLANT MO HWYS 7 & 78 INDEPENDENCE MO 64057		SHEET 1	# OF SHEETS 1	5. REQUISITION DATE	6. REQUISITION NUMBER C13156
2. TO: EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055		7. DATE MATERIAL REQUIRED (YYMMDD)		8. PRIORITY	
3. SHIP TO - MARK FOR EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055		9. AUTHORITY OR PURPOSE Raw Material Substitution		10. SIGNATUR <i>[Signature]</i>	
		11a. VOUCHER NUMBER & DATE E-00004-05-3P		12. DATE SHIPPED (YYMMDD) 6/22/2005	
		13. MODE OF SHIPMENT R & R TRUCKING		14. BILL OF LADING # TRACTOR : TRAILER: 18003	
		15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO. SEALS: 53783 -84			

4. APPROPRIATIONS SYMBOL AND SUBHEAD		OBJECT CLASS	EXPEND. ACCOUNT (FROM) (TO)		CHARGEABLE ACTIVITY	BUREAU CONTROL ACTIVITY NO.	BUREAU CONTROL NO.	AMOUNT
ITEM #	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES (a) (b)	UNIT OF ISSUE (c)	QTY SHIPPED (d)	SUPPLY ACTION (e)	TYPE CONTAINER (f)	CONTAINER NUMBER (g)	UNIT PRICE (h)	TOTAL COST (i)
1	Powder, Smokeless, 1.1C, UN0160, PG II, EX-0009082 Mixed Propellant Types ERG# 112 DOT MKS; POWDER, SMOKELESS, UN0160 EXPLOSIVE 1.1C PLACARDS REQUIRED (4) This material shall be transported and recycled in accordance with the terms and conditions of Alliant purchase order LCO C13156 EXPLOSIVE 1.1C LABELS REQUIRED ON EACH DRUM ORIGINATOR: APPROVED BY: <i>[Signature]</i> Randy J. Heiden 6/20/2005	LBS	37,093	361	DF			
FOR EMERGENCY RESPONSE INFORMATION CONTACT THE FOLLOWING 1-800-424-9300 (TOLL FREE IN THE U.S., CANADA, AND THE U.S. VIRGIN ISLANDS) 703-527-3887 FOR CALLS ORIGINATING ELSEWHERE (COLLECT CALLS ARE ACCEPTED) ACCOUNTABILITY NOT TO BE RETAINED THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED PACKAGED, MARKED & LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. DD-626 FURNISHED CARRIER DUAL DRIVERS REQUIRED <i>[Signature]</i>								

16. TRANSPORTATION VIA MATS OR MSTs CHARGEABLE TO					17. SPECIAL HANDLING				
R S E H C I A P M E O N F T	ISSUED BY	TOTAL CONTAINERS	TYPE CONTAINERS	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE	19. CONT ROVD EXCEPT AS NOTED DATE (YYMMDD) by QTYs ROVD EXCEPT AS NOTED DATE (YYMMDD) by PASTED DATE (YYMMDD) by	SHEET TOTAL GRAND TOTAL DUPLICATE VOUCHER	
	CHECKED BY	361	Drums	GROSS	39,820				
	PACKED BY			FREIGHT WT	39,620				
				DUNN	200				
← TOTAL →									

STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

Shipper No: **E-00004-05-4P**
 Carrier No: **RRUK**
 Date: **8/31/2005**

Page 1 of 1 **R & R TRUCKING** **RRUK**
 (Name of carrier) (SCAC)

<p><small>On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise in Item 430, Sec. 1</small></p> <p>TO:</p> <p>Consignee EXPLO SYSTEMS INC.</p> <p>Street 1702 FOURTH STREET</p> <p>City MINDEN State LA Zip Code 71065</p>	<p>FROM: ALLIANT LAKE CITY SMALL CAL AMMO CO LLC</p> <p>Shipper LAKE CITY ARMY AMMUNITION PLANT</p> <p>Street HWY 7 & 78, LAKE CITY AAP</p> <p>City INDEPENDENCE State MO Code 64056</p> <p>24 hr. Emergency Contact Tel. No. CHEM TREC 1-800-424-9300</p>
---	---

Route **R & R TRUCKING** Seals #: **59373 & 59374** Tractor #: **5710** Vehicle Number **7810044**

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Class, Hazard Class, Identification number (UN or UA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, Etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
381	X	POWDER, SMOKELESS, 1.1C, UN0160, PG II	GROSS WT 37,260			
DRUMS		EXPLOSIVES, NOI NMFC 64300 SUB 1	FREIGHT WT 37,060			
		(Mixed Propellant Types ERG# 112)				
		EX-0009082	DUNNAGE 200			
		N.E.W. 34,393 LBS				
		EXPLOSIVE 1.1C PLACARDS REQUIRED (4)				
		C13166				
		CUBE: 1143				
		FRT CHARGES COLLECT				
		DUAL DRIVER REQUIRED				
		FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES.				
		SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. CARRIER TO NOTIFY MINDEN, LA				
		AT 318-382-8700. AND LAKE CITY AAP (816)796-7150 OR AFTER DUTY HOURS (816)796-7488				
		IMMEDIATELY IF SHIPMENT IS DELAYED EN ROUTE BECAUSE OF AN ACCIDENT OR INCIDENT.				

PLACARDS TENDERED: YES NO REWAY

<p><small>NOTE: (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed upon value of the property as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to not be exceeding _____ per _____"</small></p> <p><small>(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NAFTA Item 172.</small></p> <p><small>(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged so to ensure safe transportation. See Section 2(i) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(p) of the Contract Terms and Conditions for a list of such articles.</small></p>	<p><small>I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.</small></p> <p style="text-align: center;"><i>Janice A. Sims</i></p>	<p><small>Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse to the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.</small></p> <p>COD Amt: \$ C.O.D. FEE: PREPAID \$ COLLECT \$</p> <p>TOTAL CHARGES: \$ FREIGHT CHARGES: FREIGHT PREPAID <small>(except when box of right is checked. Check box if charges are to be collect. <input checked="" type="checkbox"/>)</small></p>
---	---	--

RECEIVED, subject to classifications and tariffs in effect on the date of issue of this Bill of Lading, the property described above in agreement good order, except as noted (particlarly and condition of contents of packages unknown), marked consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract), agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination.

It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at said time intervals in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER ALLIANT LAKE CITY SCAC LLC	CARRIER R & R TRUCKING RRUK
PER DONNA M. SIMS	PER <i>Janice A. Sims</i>
TRANSPORTATION MANAGER	DATE 8/31/2005

Permanent post-office address of shipper

SIGNATURE AND TALLY RECORD

Form Approved
OMB NO. 0702-0027
Expires Sep 30, 1992

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- The CARRIER will deliver copies 1 through 3 to the Destination Carrier.
- The DESTINATION CARRIER will attach copy 1 (reflecting all signatures) and Standard Form 1113 (Public Voucher For Transportation Charges) to the original Government Bill of Lading, and forward for payment. Copy 2 will be delivered to the Consignee. Copy 3 will be retained.
- The CONSIGNEE will ensure Destination Carrier surrenders copy 2.

SECTION A - To be completed by the SHIPPER

1. SHIPPER		2. PROTECTIVE SERVICE REQUESTED	
a. NAME ALLIANT TECHSYSTEMS		DUAL DRIVERS	
b. ORIGIN HWY 7 & 78, LAKE CITY AAP INDEPENDENCE, MO 64058		3. GBL OR CBL NUMBER E-00004-05-4P	
4. CONSIGNEE		5. PERMIT NUMBER (if any)	
a. NAME EXPLO SYSTEMS INC			
b. DESTINATION 1702 FOURTH STREET MINDEN, LA 71055		6. TRANSPORTATION CONTROL NUMBER	
7. ROUTING RRUK 7810044		8. WEIGHT 37,260	9. CUBE 1143
10. SPECIAL INSTRUCTIONS		11. DATE SHIPMENT TENDERED TO CARRIER 8/31/2005	12. NAME OF CARRIER RRUK
13. NUMBER OF PIECES 381 DRUMS	14. TYPE OF PACKAGE(S) (for unsealed loads only) OR CONVEYANCE IDENTIFICATION & SEAL NUMBERS (for sealed loads only) TRAILER # SEALS: 59373 & 59374	15. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVES, NOI HMFC 64300, SUB 1	

SECTION B - To be completed by each person accepting custody of classified or protected material requiring the use of transportation protective service during transit

16. CUSTODY RECORD				
a. PRINT NAME OF PERSON AND COMPANY REPRESENTED	b. STATION INTERCHANGE POINT DESTINATION	c. SIGNATURE OF PERSON ACCEPTING CUSTODY	d. TIME ACCEPTED	e. DATE ACCEPTED
J. Fiddl.	LCAAP	<i>[Signature]</i>	14:00	8-31-05
C. Fiddl.	LCAAP	<i>[Signature]</i>	14:30	8-31-05

DD Form 1907, APR 90

Previous editions are obsolete

ORIGINAL - Finance Center - COPY 1

349107

REQUISITION AND INVOICE / SHIPPING DOCUMENT							Form Approved OMB No. 0704-0246 Expires Oct 31, 1991							
Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Service, Directorate for Information Operations and Reports, 1215 Jefferson Davis Hwy, Suite 1204, Arlington VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0246), Washington D.C. 20503							1. FROM: ALLIANT TECH SYSTEMS DAAA09-99-D-0016 LAKE CITY ARMY AMMUNITION PLANT MO HWYS 7 & 78 INDEPENDENCE MO 64057		SHEET 1	# OF SHEETS 1	5. REQUISITION DATE		6. REQUISITION NUMBER C13156	
2. TO: EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055							7. DATE MATERIAL REQUIRED (YYMMDD)			8. PRIORITY				
							9. AUTHORITY OR PURPOSE Raw Material Substitution						10. SIGNATURE <i>[Signature]</i>	
5. SHIP TO - MARK FOR EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055							12. DATE SHIPPED (YYMMDD) 8/31/2005			13. MODE OF SHIPMENT R & R TRUCKING			14. BILL OF LADING # COMMERCIAL COLLECT	
							15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO. SEALS:							
4. APPROPRIATIONS SYMBOL AND SUBHEAD		OBJECT CLASS	EXPEND. ACCOUNT (FROM) (TO)		CHARGEABLE ACTIVITY	BUREAU CONTROL ACTIVITY NO.	BUREAU CONTROL NO.	AMOUNT						
ITEM #	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES (a) (b)				UNIT OF ISSUE (c)	QTY SHIPPED (d)	SUPPLY ACTION (e)	TYPE CONTAINER (f)	CONTAINER NUMBER (g)	UNIT PRICE (h)	TOTAL COST (i)			
1	Powder, Smokeless, 1.1C, UN0160, PG II, EX-0009082 Mixed Propellant Types ERG# 112 DOT MKS; POWDER, SMOKELESS, UN0160 EXPLOSIVE 1.1C PLACARDS REQUIRED (4) This material shall be transported and recycled in accordance with the terms and conditions of Alliant purchase order LCO C13156 EXPLOSIVE 1.1C LABELS REQUIRED ON EACH DRUM ORIGINATOR: <i>[Signature]</i> APPROVED BY: <i>Randy J. Hiller</i> 8/26/2005				LBS	FOR EMERGENCY RESPONSE INFORMATION CONTACT THE FOLLOWING 1-800-424-8300 (TOLL FREE IN THE U.S., CANADA, AND THE U.S. VIRGIN ISLANDS) 703-527-3887 FOR CALLS ORIGINATING ELSEWHERE (COLLECT CALLS ARE ACCEPTED) ACCOUNTABILITY NOT TO BE RETAINED THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED PACKAGED, MARKED & LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. DD-626 FURNISHED CARRIER DUAL DRIVERS REQUIRED								
16. TRANSPORTATION VIA MATS OR MSTs CHARGEABLE TO						17. SPECIAL HANDLING								
R S E H C I A P P M E O N F T	18. ISSUED BY		TOTAL CONTAINERS	TYPE CONTAINERS	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE	R E C E I P T	19. CONT. RECD	DATE (YYMMDD)	BY	SHEET TOTAL		
	CHECKED BY			Drums	GROSS				AS NOTED					
	PACKED BY				TARE				DATE (YYMMDD)					GRAND TOTAL
					NET				NOTED					20. REC. VOUCH. NO.
← TOTAL →														

STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

Shipper No: **E-00004-05-5P**

Carrier No: **RRUK**

Date: **11/9/2005**

Page 1 of 1

 R & R TRUCKING RRUK

(Name of carrier)

(SCAC)

On Colored or Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise in Item 430, Sec. 1		FROM: ALLIANT LAKE CITY SMALL CAL AMMO CO LLC
TO:	Shipper	LAKE CITY ARMY AMMUNITION PLANT
Consignee EXPLO SYSTEMS INC.	Street	HWY 7 & 78, LAKE CITY AAP
Street 1702 FOURTH STREET	City	INDEPENDENCE State MO Code 64056
City MINDEN State LA Zip Code 71055	24 hr. Emergency Contact Tel. No. <u>CHEM TREC 1-800-424-9300</u>	

Route **R & R TRUCKING** Seals #: **74621-22** Tractor #: **7175** Vehicle Number **7810094**

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Class, Hazard Class, Identification number (UN or UA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, Etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
394	X	POWDER, SMOKELESS, 1.1C, UN0160, PG II	GROSS WT 38,700 LBS.			
DRUMS		N.E.W. 36,642 LBS.	FREIGHT WT 38,500 LBS.			
		(Mixed Propellant Types ERG# 112)	DUNNAGE 200 LBS			
		EX-0009082				
		EXPLOSIVES, NOI NMFC 64300 SUB 1				
		EXPLOSIVE 1.1C PLACARDS REQUIRED (4)				
		C13156				
		CUBE: 1182				
		FRT CHARGES COLLECT				
		DUAL DRIVER REQUIRED				
		FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES.				
		SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. CARRIER TO NOTIFY MINDEN, LA				
		AT 318-382-8700. AND LAKE CITY AAP (816)796-7150 OR AFTER DUTY HOURS (816)796-7488				
		IMMEDIATELY IF SHIPMENT IS DELAYED EN ROUTE BECAUSE OF AN ACCIDENT OR INCIDENT.				

PLACARDS TENDERED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		REMY	
Note: (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed upon value of the property as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to not be exceeding _____ per _____." (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NACLC Item 112. (3) Commodities requiring special or additional care or attention in handling or stowage must be so marked and packaged as to ensure safe transportation. See Section 2(i) of Item 350, Bill of Lading, Freight Bills and Submittals of Charges and Section 1(i) of the Contract Terms and Conditions for a list of such articles.		I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.	
C.O.D. TO, ADDRESS COD Amt: \$		C.O.D. FEE: PREPAID \$ COLLECT \$	
Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.		TOTAL CHARGES: \$ FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked. Check box if charges are to be collect. <input checked="" type="checkbox"/>	
ALLIANT LAKE CITY SCAC LLC <i>James A. Ludwig</i>		ALLIANT LAKE CITY SCAC LLC <i>James A. Ludwig</i>	

RECEIVED, subject to classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract), agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination.

It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assignee.

SHIPPER ALLIANT LAKE CITY SCAC LLC	CARRIER R & R TRUCKING RRUK
PER DONNA M. SIMS	PER <i>[Signature]</i>
TRANSPORTATION MANAGER	DATE 11/9/2005

Permanent post-office address of shipper

SIGNATURE AND TALLY RECORD

Form Approved
OMB NO. 0702-0027
Expires Sep 30, 1992

Public reporting burden for this collection of information is estimated to average 2 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0702-0027), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses.

DISTRIBUTION INSTRUCTIONS

- The SHIPPER will prepare copies 1 through 4, retain copy 4 and deliver copies 1 through 3 to the Origin Carrier.
- The CARRIER will deliver copies 1 through 3 to the Destination Carrier.
- The DESTINATION CARRIER will attach copy 1 (reflecting all signatures) and Standard Form 1113 (Public Voucher For Transportation Charges) to the original Government Bill of Lading, and forward for payment. Copy 2 will be delivered to the Consignee. Copy 3 will be retained.
- The CONSIGNEE will ensure Destination Carrier surrenders copy 2.

SECTION A - To be completed by the SHIPPER

1. SHIPPER		2. PROTECTIVE SERVICE REQUESTED	
a. NAME ALLIANT TECHSYSTEMS		DUAL DRIVERS	
b. ORIGIN HWY 7 & 78, LAKE CITY AAP INDEPENDENCE, MO 64056		3. GBL OR CBL NUMBER E-00004-05-5P	
4. CONSIGNEE		5. PERMIT NUMBER (if any)	
a. NAME EXPLO SYSTEMS INC			
b. DESTINATION 1702 FOURTH STREET MINDEN, LA 71055		6. TRANSPORTATION CONTROL NUMBER	
7. ROUTING RRUK		8. WEIGHT 38,600 LBS.	9. CUBE 1,182 CF
10. SPECIAL INSTRUCTIONS		11. DATE SHIPMENT TENDERED TO CARRIER 11/09/2005	12. NAME OF CARRIER RRUK
13. NUMBER OF PIECES 394 DRUMS	14. TYPE OF PACKAGE(S) (for unsealed loads only) OR CONVEYANCE IDENTIFICATION & SEAL NUMBERS (for sealed loads only) TRAILER # 7810094 SEALS: 74621/22	15. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVES, NOI NMFC 64300, SUB 1	

SECTION B - To be completed by each person accepting custody of classified or protected material requiring the use of transportation protective service during transit

16. CUSTODY RECORD				
a. PRINT NAME OF PERSON AND COMPANY REPRESENTED	b. STATION INTERCHANGE POINT DESTINATION	c. SIGNATURE OF PERSON ACCEPTING CUSTODY	d. TIME ACCEPTED	e. DATE ACCEPTED
x Connie Compton	LCAAP		11:15	11/9/5
x David Ford	LCAAP		11:15	11/9/5

DD Form 1907, APR 90

Previous editions are obsolete

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349/107

REQUISITION AND INVOICE / SHIPPING DOCUMENT										Form Approved OMB No. 0704-0246 Expires Oct 31, 1991								
Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, gathering existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Hwy, Suite 1204, Arlington VA 22202-4302, and to the Office of Paperwork Reduction Project (0704-0246), Washington D.C. 20503										SHEET 1		# OF SHEETS 1		5. REQUISITION DATE		6. REQUISITION NUMBER C13156		
1. FROM: ALLIANT TECH SYSTEMS DAAA09-99-D-0016 LAKE CITY ARMY AMMUNITION PLANT MO HWYS 7 & 78 INDEPENDENCE MO 64057				7. DATE MATERIAL REQUIRED (YYYYMMDD)				8. PRIORITY										
2. TO: EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055				9. AUTHORITY OR PURPOSE Raw Material Substitution						10. SIGNATUR <i>[Signature]</i>		11a. VOUCHER NUMBER & DATE E-00004-05-5P						
3. SHIP TO - MARK FOR EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055				12. DATE SHIPPED (YYYYMMDD) 11/9/2005				TRACTOR : TRAILER: 7810094										
				13. MODE OF SHIPMENT R & R TRUCKING				14. BILL OF LADING # COMMERCIAL COLLECT										
				15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO. SEALS: 74621-22														
4. APPROPRIATIONS SYMBOL AND SUBHEAD			OBJECT CLASS		EXPEND. ACCOUNT (FROM) (TO)		CHARGEABLE ACTIVITY		BUREAU CONTROL ACTIVITY NO.		BUREAU CONTROL NO.	AMOUNT						
ITEM # (a)	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES (b)				UNIT OF ISSUE (c)	QTY SHIPPED (d)	SUPPLY ACTION (e)	TYPE CONTAINER (f)	CONTAINER NUMBER (g)	UNIT PRICE (h)	TOTAL COST (i)							
1	Powder, Smokeless, 1.1C, UN0160, PG II, EX-0009082 Mixed Propellant Types ERG# 112 DOT MKS; POWDER, SMOKELESS, UN0160 EXPLOSIVE 1.1C PLACARDS REQUIRED (4) This material shall be transported and recycled in accordance with the terms and conditions of Alliant purchase order LCO C13156 EXPLOSIVE 1.1C LABELS REQUIRED ON EACH DRUM ORIGINATOR: <i>[Signature]</i> APPROVED BY: <i>Randy J. Hiller</i> 11/8/2005				LBS	35,642		DF										
						FOR EMERGENCY RESPONSE INFORMATION CONTACT THE FOLLOWING 1-800-424-9300 (TOLL FREE IN THE U.S., CANADA, AND THE U.S. VIRGIN ISLANDS) 703-527-3887 FOR CALLS ORIGINATING ELSEWHERE (COLLECT CALLS ARE ACCEPTED) ACCOUNTABILITY NOT TO BE RETAINED THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED PACKAGED, MARKED & LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. DD-626 FURNISHED CARRIER DUAL DRIVERS REQUIRED <i>[Signature]</i>												
16. TRANSPORTATION VIA MATS OR MSTs CHARGEABLE TO						17. SPECIAL HANDLING												
18. ISSUED BY		TOTAL CONTAINERS	TYPE CONTAINERS	DESCRIPTION		TOTAL WEIGHT	TOTAL CUBE	19. CONT RCVD		DATE (YYYYMMDD)	BY	SHEET TOTAL						
R S		394	Drums	GROSS		38,700	1.182	E										
C I				TARE		3,058		C										
A P				NET		35,642		E										
P M								I										
E								P										
O N								T										
F T																		
← TOTAL →																		

STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

Shipper No: E-00004-05-6P
 Carrier No: RRUK
 Date: 2/23/2006

Page 1 of 1 R & R TRUCKING RRUK
 (Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise in Item 430, Sec. 1 TO: Consignee EXPLO SYSTEMS INC. Street 1702 FOURTH STREET City MINDEN State LA Zip Code 71066	FROM: ALLIANT LAKE CITY SMALL CAL AMMO CO LLC Shipper LAKE CITY ARMY AMMUNITION PLANT Street HWY 7 & 78, LAKE CITY AAP City INDEPENDENCE State MO Code 64056 24 hr. Emergency Contact Tel. No. <u>CHEM TREC 1-800-424-9300</u>
--	---

Route R & R TRUCKING SEALS: 67573-67574 Tractor #: Vehicle Number R17953

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Class, Hazard Class, Identification number (UN or UA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, Etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
318	X	POWDER, SMOKELESS, 1.1C, UN0160, PG II	GROSS WT 31,040 LBS.			
DRUMS		N.E.W. 28,614 LBS. (Mixed Propellant Types ERG# 112)	FREIGHT WT 30,840 LBS.			
		EX-0009082	DUNNAGE 200 LBS			
		EXPLOSIVES, NOI NMFC 64300 SUB 1				
		EXPLOSIVE 1.1C PLACARDS REQUIRED (4)				
		C13156				
		CUBE: 954 CF				
		FRT CHARGES COLLECT				
		DUAL DRIVER REQUIRED (SM NOT REQUIRED)				
		FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES.				
		SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. CARRIER TO NOTIFY MIDEN, LA				
		AT 318-382-8700. AND LAKE CITY AAP (816)796-7150 OR AFTER DUTY HOURS (816)796-7488				
		IMMEDIATELY IF SHIPMENT IS DELAYED EN ROUTE BECAUSE OF AN ACCIDENT OR INCIDENT.				

PLACARDS TENDERED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> <small>Note: (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed upon value of the property as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to not be exceeding _____ per _____." (2) Where the applicable to its provisions specify a limitation of the carrier's liability, absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See 104FC Part 172. (3) Commodities requiring special or additional care or attention in handling or stowage must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(b) of the Contract Terms and Conditions for a list of such articles.</small>	I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. RECEIVED, subject to classification and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown, marked consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract), agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any portion of said property over all or any portion of said route to destination. It is mutually agreed as to each carrier of all or any portion of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bills of lading terms and conditions in the governing classfication on the date of shipment. Shipper hereby certifies that he is familiar with all the bills of lading terms and conditions in the governing classfication and the said terms and conditions are hereby agreed to by the shipper and accepted for transit and the consignee.
C.O.D. TO ADDRESS COD Amt: \$ ALLIANT LAKE CITY SCAC LLC James A. Snodgrass	C.O.D. FEE: PREPAID \$ COLLECT \$ TOTAL CHARGES: \$ FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked. Check box if charges are to be collect. <input type="checkbox"/>

SHIPPER ALLIANT LAKE CITY SCAC LLC	CARRIER R & R TRUCKING RRUUK
PER JAMES SNODGRASS	PER
TRANSPORTATION LOGISTICS SPECIALIST	DATE 2/23/2006

Permanent post-office address of shipper

STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

Shipper No: **E-00004-05-7P**

Carrier No: **RRUK**

Date: **2/24/2006**

Page 1 of 1

 R & R TRUCKING RRUK

(Name of carrier)

(SCAC)

<p>On Collection Deliveries, the letters "COD" must appear before consignee's name or as otherwise in Item 430, Sec 1</p> <p>TO: Consignee EXPLO SYSTEMS INC.</p> <p>Street 1702 FOURTH STREET</p> <p>City MINDEN State LA Zip Code 71055</p>	<p>FROM: ALLIANT LAKE CITY SMALL CAL AMMO CO LLC Shipper LAKE CITY ARMY AMMUNITION PLANT</p> <p>Street HWY 7 & 78, LAKE CITY AAP</p> <p>City INDEPENDENCE State MO Code 64056</p> <p>24 hr. Emergency Contact Tel. No. <u>CHEM TREC 1-800-424-9300</u></p>
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Route R & R TRUCKING	Seals #: 67576 & 67576	Tractor #:	Vehicle Number R17741
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No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Class, Hazard Class, Identification number (UN or UA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, Etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
198	X	POWDER, SMOKELESS, 1.1C, UN0160, PG II	GROSS WT 19,780 LBS.			
DRUMS		N.E.W. 18,194 LBS. LBS.	FREIGHT WT 19,730 LBS.			
		(Mixed Propellant Types ERG# 112)	DUNNAGE 60 LBS.			
		EX-0009082				
		EXPLOSIVES, NOI NMFC 64300 SUB 1				
		EXPLOSIVE 1.1C PLACARDS REQUIRED (4)				
		C13158				
		CUBE: 594 CF				
		FRT CHARGES COLLECT				
		DUAL DRIVER REQUIRED (SM NOT REQUIRED)				
		FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES.				
		SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. CARRIER TO NOTIFY MINDEN, LA				
		AT 318-382-8700. AND LAKE CITY AAP (816)796-7150 OR AFTER DUTY HOURS (816)796-7488				
		IMMEDIATELY IF SHIPMENT IS DELAYED EN ROUTE BECAUSE OF AN ACCIDENT OR INCIDENT.				

PLACARDS TENDERED: YES NO

<p><small>Notes: (1) When the rate is dependent on value, shippers are required to state specifically in writing the agreed upon value of the property as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to not be exceeding _____ per _____"</small></p> <p><small>(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.</small></p> <p><small>(3) Commodities requiring special care or attention in handling or stowage must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 300, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.</small></p>	<p>I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and as a classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations.</p> <p style="text-align: right;"><i>James A. Snodgrass</i></p>	<p>COD Amt: \$</p> <p><small>Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.</small></p> <p>ALLIANT LAKE CITY SCAC LLC <i>James A. Snodgrass</i></p>	<p>C.O.D. FEE: PREPAID COLLECT \$</p> <p>TOTAL CHARGES: \$</p> <p>FREIGHT CHARGES: FREIGHT PREPAID (except when box at right is checked. Check box if charges are to be collect.) <input checked="" type="checkbox"/></p>
--	--	---	---

RECEIVED, subject to classifications and tariffs in effect on the date of this Bill of Lading, the property described above in appearance and order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract), agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination.

It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER ALLIANT LAKE CITY SCAC LLC	CARRIER R & R TRUCKING RRUK
PER JAMES SNODGRASS	PER <i>James A. Snodgrass</i>
TRANSPORTATION LOGISTICS SPECIALIST	DATE 2/24/2006

Permanent post-office address of shipper

SIGNATURE AND TALLY RECORD

Form Approved
OMB NO. 0702-0027
Expires Sep 30, 1992

Public reporting burden for this collection of information is estimated to average 2 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0702-0027), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses.

DISTRIBUTION INSTRUCTIONS

- The SHIPPER will prepare copies 1 through 4, retain copy 4 and deliver copies 1 through 3 to the Origin Carrier.
- The CARRIER will deliver copies 1 through 3 to the Destination Carrier.
- The DESTINATION CARRIER will attach copy 1 (reflecting all signatures) and Standard Form 1113 (Public Voucher For Transportation Charges) to the original Government Bill of Lading, and forward for payment. Copy 2 will be delivered to the Consignee. Copy 3 will be retained.
- The CONSIGNEE will ensure Destination Carrier surrenders copy 2.

SECTION A - To be completed by the SHIPPER

1. SHIPPER		2. PROTECTIVE SERVICE REQUESTED	
a. NAME ALLIANT TECHSYSTEMS		DUAL DRIVERS	
b. ORIGIN HWY 7 & 78, LAKE CITY AAP INDEPENDENCE, MO 64058		3. GBL OR CBL NUMBER E-00004-05-7P	
4. CONSIGNEE		5. PERMIT NUMBER (if any)	
a. NAME EXPLO SYSTEMS INC			
b. DESTINATION 1702 FOURTH STREET MINDEN, LA 71055		6. TRANSPORTATION CONTROL NUMBER	
7. ROUTING RRUK		8. WEIGHT 19,750 LBS.	9. CUBE 594 CF
10. SPECIAL INSTRUCTIONS		11. DATE SHIPMENT TENDERED TO CARRIER 2/24/06	12. NAME OF CARRIER RRUK
13. NUMBER OF PIECES 198 DRUMS	14. TYPE OF PACKAGE(S) (for unsealed loads only) OR CONVEYANCE IDENTIFICATION & SEAL NUMBERS (for sealed loads only) TRAILER # R17741 SEALS: 87576 & 87676	15. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVES, NOI NMFC 64300, SUB 1	

SECTION B - To be completed by each person accepting custody of classified or protected material requiring the use of transportation protective service during transit

16. CUSTODY RECORD				
a. PRINT NAME OF PERSON AND COMPANY REPRESENTED	b. STATION INTERCHANGE POINT DESTINATION	c. SIGNATURE OF PERSON ACCEPTING CUSTODY	d. TIME ACCEPTED	e. DATE ACCEPTED
Lee Summers RIR	LCAAP	[Signature]	0930	2-24-06
LONNA Summers RIR	LCAAP	[Signature]	0930	2-24-06

DD Form 1907, APR 90

Previous editions are obsolete

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349107

REQUISITION AND INVOICE / SHIPPING DOCUMENT										Form Approved OMB No. 0704-0246 Expires Oct 31, 1991		
<p>Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, gathering existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information, and comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters and the Office of Management and Budget, Paperwork Reduction Project (0704-0246), Washington, D.C. 20503</p>												
1. FROM: ALLIANT TECH SYSTEMS DAAA09-99-D-0016 LAKE CITY ARMY AMMUNITION PLANT MO HWYS 7 & 78 INDEPENDENCE MO 64057				SHEET 1		# OF SHEETS 1		5. REQUISITION DATE		6. REQUISITION NUMBER C13156		
2. TO: EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055				7. DATE MATERIAL REQUIRED (YYYYMMDD)				8. PRIORITY				
3. SHIP TO - MARK FOR EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055				9. AUTHORITY OR PURPOSE Raw Material Substitution				10. SIGNATUR				
				11. VOUCHER NUMBER & DATE E-00004-05-7P								
				12. DATE SHIPPED (YYYYMMDD) 2/24/2006				TRACTOR : TRAILER: R-17741				
				13. MODE OF SHIPMENT R & R TRUCKING				14. BILL OF LADING # COMMERCIAL COLLECT				
				15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO. SEALS: 67575 & 67576								
4. APPROPRIATIONS SYMBOL AND SUBHEAD				CHARGEABLE ACTIVITY		BUREAU CONTROL ACTIVITY NO.		BUREAU CONTROL NO.		AMOUNT		
				2-23-01								
ITEM #	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	UNIT OF ISSUE	QTY SHIPPED	SUPPLY ACTION	TYPE CONTAINER	CONTAINER NUMBER	UNIT PRICE	TOTAL COST				
1	Powder, Smokeless, 1.1C, UN0160, PG II, EX-0009082 Mixed Propellant Types ERG# 112 DOT MKS; POWDER, SMOKELESS, UN0160 EXPLOSIVE 1.1C PLACARDS REQUIRED (4) This material shall be transported and recycled in accordance with the terms and conditions of Alliant purchase order LCO C13156 EXPLOSIVE 1.1C LABELS REQUIRED ON EACH DRUM ORIGINATOR: APPROVED BY:  Randy J. Hillen 2/20/2006	LB	18,194 LBS.		DF	198						
FOR EMERGENCY RESPONSE INFORMATION CONTACT THE FOLLOWING 1-800-424-9300 (TOLL FREE IN THE U.S., CANADA, AND THE U.S. VIRGIN ISLANDS) 703-527-3887 FOR CALLS ORIGINATING ELSEWHERE (COLLECT CALLS ARE ACCEPTED) ACCOUNTABILITY NOT TO BE RETAINED THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED PACKAGED, MARKED & LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. DD-626 FURNISHED CARRIER DUAL DRIVERS REQUIRED 15 OVER PACKS												
16. TRANSPORTATION VIA MATS OR MSTs CHARGEABLE TO					17. SPECIAL HANDLING							
R S E H C I A P M E O N F T	ISSUED BY		TOTAL CONTAINERS	TYPE CONTAINERS	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE	19. CONT REVD		DATE (YYYYMMDD)	BY	SHEET TOTAL
	CHECKED BY				GROSS	19,780 LBS.	594 CF	R	EXCEPT AS NOTED			
	PACKED BY				TARE	1,536 LBS.		C	QTYs ACVE	DATE (YYYYMMDD)	BY	GRAND TOTAL
					NET	18,194 LBS.		E	EXCEPT AS NOTED			
					DUNN	50 LBS.		I	NOTED			
								P	POSTED	DATE (YYYYMMDD)	BY	20 REC VOUCH. NO.
← TOTAL →												

STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

Shipper No: **E-00004-05-8P**

Carrier No: **RRUK**

Date: **7/12/2006**

Page 1 of 1

R & R TRUCKING
(Name of carrier)

RRUK
(SCAC)

On Collection Delivery shipments, the terms "COD" shall appear before consignee's name or as otherwise in Item 430, Sec. 1 TO: Consignee EXPLO SYSTEMS INC. Street 1702 FOURTH STREET City MINDEN State LA Zip Code 71065	FROM: ALLIANT TECHSYSTEMS INC Shipper LAKE CITY AMMUNITION DIVISION Street HWY 7 & 78, LAKE CITY AD City INDEPENDENCE State MO Code 64056 24 hr. Emergency Contact Tel. No. CHEM TREC 1-800-424-9300
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Route **R & R TRUCKING** Tractor #: **6129** Vehicle Number **50851**

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Class, Hazard Class, Identification number (UN or UA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, Etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
372	X	POWDER, SMOKELESS, 1.1C, UN0160, PG II	GROSS WT	38,380 LBS.		
DRUMS		N.E.W. 36,576 LBS.	FREIGHT WT	38,180 LBS.		
		(Mixed Propellant Types ERG# 112)	DUNNAGE	200 LBS		
		EX-0009082				
		EXPLOSIVES, NOI NMFC 64300 SUB 1				
		EXPLOSIVE 1.1C PLACARDS REQUIRED (4)				
		C13156				
		CUBE. 1116 CF				
		FRT CHARGES COLLECT				
		DUAL DRIVER REQUIRED (SM NOT REQUIRED)				
		SEALS: 82033 - 82034				
		FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES.				
		SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. CARRIER TO NOTIFY MINDEN, LA				
		AT 318-382-8700. AND LAKE CITY AMMO DIV AD (816)796-7150 OR AFTER DUTY HOURS (816)796-7488				
		IMMEDIATELY IF SHIPMENT IS DELAYED EN ROUTE BECAUSE OF AN ACCIDENT OR INCIDENT.				

PLACARDS TENDERED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> <small>Note: (1) When the rate is dependent on value, shipment are required to state specifically in writing the agreed upon value of the property as follows: "The agreed insured value of the property is hereby specifically stated by the shipper to not be exceeding _____". (2) Where the applicable tariff provides a rate of 100% of the value, the carrier is hereby advised a release or a value declaration by the shipper and the shipper shall be released from the carrier's liability to declare a value, the carrier's liability shall be limited to the amount provided by a statute, etc. See NACD Item 172. (3) Commodity requiring special or additional care or attention in storage or handling must be so marked and packaged as to ensure safe transportation. See Section 110, Item 202, Bill of Lading, Freight Bids and Statements of Charges and Section 110 of the Contract Terms and Conditions for a list of such articles.</small>	I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled, placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. COD Amt: \$ _____ C.O.D. FEE: PREPAID \$ _____ COLLECT \$ _____ TOTAL CHARGES: \$ _____ FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked. Check box if charges are to be collect. <input checked="" type="checkbox"/>
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RECEIVED: The vessel, car, rail car and ferry as noted on the title of this Bill of Lading is hereby received and accepted in good order, except as noted (contents and condition of contents of packages or units) if there is any damage, and delivered as indicated above which said carrier (the word cannot be changed) is bound by this contract as meaning any person or corporation in possession of the property under contract to be ready to its usual place of delivery at said destination, if on its route of service, or to deliver it to the carrier on the route to said destination. It is mutually agreed as to each carrier of this bill of lading to be subject to the bill of lading and to the route to destination.

It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for transport and his assigns.

SHIPPER ALLIANT TECHSYSTEMS INC.	CARRIER R & R TRUCKING RRUK
PER NATHANIEL HERVEY	PER <i>Nathaniel Hervey</i>
TRANSPORTATION LOGISTICS SPECIALIST	DATE 7/12/2006

Permanent post-office address of shipper:

SIGNATURE AND TALLY RECORD

Form Approved
OMB NO. 0702-0027
Expires Sep 30, 1992

Public reporting burden for this collection of information is estimated to average 2 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0702-0027), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses.

DISTRIBUTION INSTRUCTIONS

- The SHIPPER will prepare copies 1 through 4, retain copy 4 and deliver copies 1 through 3 to the Origin Carrier.
- The CARRIER will deliver copies 1 through 3 to the Destination Carrier.
- The DESTINATION CARRIER will attach copy 1 (reflecting all signatures) and Standard Form 1113 (Public Voucher For Transportation Charges) to the original Government Bill of Lading, and forward for payment. Copy 2 will be delivered to the Consignee. Copy 3 will be retained.
- The CONSIGNEE will ensure Destination Carrier surrenders copy 2.

SECTION A - To be completed by the SHIPPER

1. SHIPPER		2. PROTECTIVE SERVICE REQUESTED	
a. NAME ALLIANT TECHSYSTEMS, INC.		DUAL DRIVERS	
b. ORIGIN HWY 7 & 7th LAKE CITY APT INDEPENDENCE, MO 64055		3. GBL OR CBL NUMBER E-00004-05-8P	
4. CONSIGNEE		5. PERMIT NUMBER (if any)	
a. NAME EXPLO SYSTEMS INC			
b. DESTINATION 1702 FOURTH STREET MINDEN LA 71055		6. TRANSPORTATION CONTROL NUMBER	
7. ROUTING RRUK 50851		8. WEIGHT 38,380LBS.	9. CUBE 1116 CF
10. SPECIAL INSTRUCTIONS		11. DATE SHIPMENT TENDERED TO CARRIER 7/12/06	12. NAME OF CARRIER RRUK
13. NUMBER OF PIECES 372 ORUMS	14. TYPE OF PACKAGE(S) (for unsealed loads only) OR CONVEYANCE IDENTIFICATION & SEAL NUMBERS (for sealed loads only) TRAILER # SEALS 82033 - 82034 50851	15. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVES, NOI NMFC 64300, SUB 1	

SECTION B - To be completed by each person accepting custody of classified or protected material requiring the use of transportation protective service during transit

16. CUSTODY RECORD				
a. PRINT NAME OF PERSON AND COMPANY REPRESENTED	b. STATION INTERCHANGE POINT DESTINATION	c. SIGNATURE OF PERSON ACCEPTING CUSTODY	d. TIME ACCEPTED	e. DATE ACCEPTED
Richard Good	LCAD	R Good	11:00	7-12-06
H. Hall Good	LCAD	H Good	11:00	7-12-06

DD Form 1907, APR 90

Previous editions are obsolete

ORIGINAL - Finance Center - COPY 1

349/107

REQUISITION AND INVOICE / SHIPPING DOCUMENT										Form Approved OMB No. 0704-0246 Expires Oct 31, 1991	
(When reporting burden for this collection of information, do not include instructions, reviewing existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information, send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Service, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0246), Washington D.C. 20503)											
1. FROM: ALLIANT TECH SYSTEMS DAAA09-99-D-0016 LAKE CITY AMMUNITION DIVISION MO HWYS 7 & 78 INDEPENDENCE MO 64057/6				SHEET 1 OF SHEETS 1		5. REQUISITION DATE		6. REQUISITION NUMBER C13156			
2. TO: EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055				7. DATE MATERIAL REQUIRED (YYYYMMDD)				8. PRIORITY			
3. SHIP TO - MARK FOR EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055				9. AUTHORITY OR PURPOSE Raw Material Substitution				10. SIGNATUR			
THIS IS TO CERTIFY THAT THE HERE-IN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. SIGNED <i>Randy J. Hillen</i> 2/20/06				11. VOUCHER NUMBER & DATE E-00004-05-8P		12. DATE SHIPPED (YYYYMMDD) 7/12/2006		13. MODE OF SHIPMENT R & R TRUCKING		14. BILL OF LADING # COMMERCIAL COLLECT	
				15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO. SEALS: 82033 - 82034							
4. APPROPRIATIONS SYMBOL AND SUBHEAD		OBJECT CLASS		EXPEND. ACCOUNT (FROM)		CHARGEABLE ACTIVITY		BUREAU CONTROL ACTIVITY NO.		BUREAU CONTROL NO.	
				7712-06							
ITEM #	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES			UNIT OF ISSUE	QTY SHIPPED	SUPPLY ACTION	TYPE CONTAINER	CONTAINER NUMBER	UNIT PRICE	TOTAL COST	
(a)	(b)			(c)	(d)	(e)	(f)	(g)	(h)	(i)	
1	Powder, Smokeless, 1.1C, UN0160, PG II, EX-0009082 Mixed Propellant Types ERG# 112 DOT MKS; POWDER, SMOKELESS, UN0160 EXPLOSIVE 1.1C PLACARDS REQUIRED (4) This material shall be transported and recycled in accordance with the terms and conditions of Alliant purchase order LCO C13156 EXPLOSIVE 1.1C LABELS REQUIRED ON EACH DRUM ORIGINATOR: <i>[Signature]</i> APPROVED BY: <i>Randy J. Hillen</i> 2/20/2006			38380 LBS			DF	372			
FOR EMERGENCY RESPONSE INFORMATION CONTACT THE FOLLOWING 1-800-424-9300 (TOLL FREE IN THE U.S., CANADA, AND THE U.S. VIRGIN ISLANDS) 703-527-3887 FOR CALLS ORIGINATING ELSEWHERE (COLLECT CALLS ARE ACCEPTED) ACCOUNTABILITY NOT TO BE RETAINED THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED PACKAGED, MARKED & LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. DD-626 FURNISHED CARRIER DUAL DRIVERS REQUIRED											
16. TRANSPORTATION VIA MATS OR MSTs CHARGEABLE TO						17. SPECIAL HANDLING					
R S E H C I A P P M E O N F T	ISSUED BY		TOTAL CONTAINERS	TYPE CONTAINERS	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE	19. CONT RCVD DATE (YYYYMMDD) by SHEET TOTAL			
	CHECKED BY		372	Drums	GROSS	66,380 LBS.		R E C E I P T			
	PACKED BY				TARE	28000 LBS.		C O N T A I N E R S			
					NET	38,380 LBS.	1116 CF	E X C E P T A S N O T E D			
								P O S T E D			
← TOTAL →											

STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

Shipper No: **E-00004-06-9P**

Carrier No: **RRUK**

Date: **11/15/2006**

Page 1 of 1

R & R TRUCKING
(Name of carrier)

RRUK
(SCAC)

<p>On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise in Item 430, Sec 1</p> <p>TO: Consignee EXPLO SYSTEMS INC.</p> <p>Street 1702 FOURTH STREET</p> <p>City MINDEN State LA Zip Code 71055</p>	<p>FROM: ALLIANT TECHSYSTEMS INC Shipper LAKE CITY AMMUNITION DIVISION</p> <p>Street HWY 7 & 78, LAKE CITY AD</p> <p>City INDEPENDENCE State MO Code 64056</p> <p>24 hr. Emergency Contact Tel. No. CHEM TREC 1-800-424-9300</p>
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Route **R & R TRUCKING** Trailer #: **7810153** Vehicle Number **5715**

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Class, Hazard Class, Identification number (UN or UA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, Etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
396	X	POWDER, SMOKELESS, 1.1C, UN0160, PG II	GROSS WT 37,940 LBS			
FIBER BOARD		N.E.W. 34,968 LBS.	FREIGHT WT 37,740 LBS			
DRUMS		(Mixed Propellant Types ERG# 112)	DUNNAGE 200 LBS			
		EX-0009082				
		EXPLOSIVES, NOI NMFC 84300 SUB 1				
		EXPLOSIVE 1.1C PLACARDS REQUIRED (4)				
		C13156				
		CUBE: 1188 CF				
		FRT CHARGES COLLECT				
		DUAL DRIVER REQUIRED (SM NOT REQUIRED)				
		DD1907 AND DD626 REQUIRED				
		MSDS AND ERG 112 FURNISHED TO CARRIER				
		BOLT SEALS: 0108087-0108088				
		FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES.				
		SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. CARRIER TO NOTIFY MINDEN, LA				
		AT 318-382-8700. AND LAKE CITY AMMO DIV AD (816)798-7150 OR AFTER DUTY HOURS (816)796-7488				
		IMMEDIATELY IF SHIPMENT IS DELAYED EN ROUTE BECAUSE OF AN ACCIDENT OR INCIDENT.				

<p>PLACARDS TENDERED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/></p> <p><small>Note: (1) When the rate is dependent on value, shippers are required to state specifically in writing the agreed upon value of the property as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to not be exceeding _____ per _____." (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NISBO Item 172. (3) Commodities requiring special or additional care or attention in handling or stowage must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 300, Bill of Lading, Freight Bill and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.</small></p>	<p><small>I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.</small></p> <p style="text-align: center;"><i>Christine Bosley</i> Shipper</p>	<p>RECEIVED</p> <p>COD TO ADDRESS:</p> <p style="text-align: center;">COD Amt: \$ _____</p> <p><small>Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignee, the consignee shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.</small></p> <p>ALLIANT TECHSYSTEMS CHRISTINE BOSLEY</p>
<p><small>RECEIVED, subject to classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above is apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract), agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over at or any portion of said route to destination.</small></p>		<p>C.O.D. FEE: PREPAID COLLECT \$ _____</p> <p>TOTAL CHARGES: \$</p> <p>FREIGHT CHARGES: FREIGHT PREPAID except when box of right is checked. Check box if charges are to be collect. <input checked="" type="checkbox"/></p>

<p>SHIPPER ALLIANT TECHSYSTEMS INC.</p> <p>PER CHRISTINE BOSLEY</p> <p style="text-align: center;">TRAFFIC COORDINATOR</p>	<p>CARRIER R & R TRUCKING RRUK</p> <p>PER <i>[Signature]</i></p> <p>DATE 11/15/2006</p>
---	--

Permanent post-office address of shipper

SIGNATURE AND TALLY RECORD

(See DoD 4500.9-R for guidance)

(Use of equivalent carrier-furnished signature and tally record is acceptable.)

*Form Approved
OMB No. 0702-0027
Expires Jan 31, 2006*

The public reporting burden for this collection of information is estimated to average 3 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Service and Communications Directorate (0702-0027). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ORGANIZATION. RETURN COMPLETED FORM AS DIRECTED IN THE DISTRIBUTION INSTRUCTIONS BELOW.

DISTRIBUTION INSTRUCTIONS

- (1) The SHIPPER will print two copies, retain one copy and give one to the Origin Carrier.
- (2) The ORIGIN CARRIER will deliver one copy with original signatures to the Destination Carrier.
- (3) The DESTINATION CARRIER will attach one copy (reflecting all original signatures) and Standard Form 1113, Public Voucher for Transportation Charges, to the original Government Bill of Lading and forward for payment. Reproduced completed copy of DD Form 1907 will be delivered to the Consignee and one will be retained.
- (4) The CONSIGNEE will ensure Destination Carrier surrenders a reproduced copy of completed form with all signatures.

SECTION I - TO BE COMPLETED BY THE SHIPPER

1a. SHIPPER NAME ALLIANT TECHSYSTEMS INC.		b. ORIGIN HYW 7 & 78 INDEPENDENCE, MO. 64056	
2. PROTECTIVE SERVICE REQUESTED N/A		3. GBL OR CBL NUMBER E-00004-05-9P	
4a. CONSIGNEE NAME EXPLO SYSTEMS INC		b. DESTINATION 1702 FOURTH STREET MINDEN, LA 71055	
5. PERMIT NUMBER (If any)		6. TRANSPORTATION CONTROL NUMBER	
7. ROUTING R & R TRUCKING (RRUK)		8. WEIGHT 37,940 LBS	9. CUBE 1188 CF
10. SPECIAL INSTRUCTIONS			11. DATE SHIPMENT TENDERED TO CARRIER (YYYYMMDD) 2006/11/15
12. NAME OF CARRIER R & R TRUCKING (RRUK)			13. NUMBER OF PIECES 396
14. TYPE OF PACKAGE(S) (For unsealed loads only) OR CONVEYANCE IDENTIFICATION AND SEAL NUMBERS (For sealed loads only) TRAILER# SEALS: 0108087-0108088		15. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVE , NOI NMFC 64300 SUB 1	

SECTION II - TO BE COMPLETED BY EACH PERSON ACCEPTING CUSTODY OF CLASSIFIED OR PROTECTED MATERIAL REQUIRING THE USE OF TRANSPORTATION PROTECTIVE SERVICE DURING TRANSIT

16. CUSTODY RECORD				
PRINT NAME OF PERSON AND COMPANY REPRESENTED <small>a.</small>	STATION INTERCHANGE POINT DESTINATION <small>b.</small>	SIGNATURE OF PERSON ACCEPTING CUSTODY <small>c.</small>	TIME ACCEPTED <small>d.</small>	DATE ACCEPTED (YYYYMMDD) <small>e.</small>
Lee Summers R & R	LCAAP	<i>Lee S</i>	1115	11-15-06
DONNA Summers	LCAAP	<i>Donna Summers</i>	1115	11-15-06

REQUISITION AND INVOICE / SHIPPING DOCUMENT								Form Approved OMB No. 0704-0246 Expires Oct 31, 1991													
Form reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Service, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0246), Washington, DC 20503.																					
1. FROM: ALLIANT TECH SYSTEMS DAAA09-99-D-0016 LAKE CITY ARMY AMMUNITION PLANT MO HWYS 7 & 78 INDEPENDENCE MO 64057				SHEET 1	# OF SHEETS 1	5. REQUISITION DATE	6. REQUISITION NUMBER C13156														
2. TO: EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055				7. DATE MATERIAL REQUIRED (YYMMDD)			8. PRIORITY														
3. SHIP TO - MARK FOR EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055				9. AUTHORITY OR PURPOSE Raw Material Substitution			10. SIGNATURE 			11a. VOUCHER NUMBER & DATE E-00004-05-9P											
4. APPROPRIATIONS SYMBOL AND SUBHEAD				OBJECT CLASS		EXPEND. ACCOUNT (FROM) (TO)		CHARGEABLE ACTIVITY		BUREAU CONTROL ACTIVITY NO.		BUREAU CONTROL NO.		AMOUNT							
																12. DATE SHIPPED (YYMMDD) 11/15/2006		13. MODE OF SHIPMENT R & R TRUCKING		14. BILL OF LADING # COMMERCIAL COLLECT	
																15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO. LCAAP BOLT SEALS: 0108087-0108088					
ITEM # (a)	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES (b)				UNIT OF ISSUE (c)	QTY SHIPPED (d)	SUPPLY ACTION (e)	TYPE CONTAINER (f)	CONTAINER NUMBER (g)	UNIT PRICE (h)	TOTAL COST (i)										
1	Powder, Smokeless, 1.1C, UN0160, PG II, N.E.W 34,968 LBS EX-0009082 Mixed Propellant Types ERG# 112 DOT MKS: POWDER, SMOKELESS, UN0160 EXPLOSIVE 1.1C PLACARDS REQUIRED (4) This material shall be transported and recycled in accordance with the terms and conditions of Alliant purchase order LCO C13156 EXPLOSIVE 1.1C LABELS REQUIRED ON EACH DRUM ORIGINATOR: APPROVED BY: 11/10/2006				LB	34,968	DF	396	FOR EMERGENCY RESPONSE INFORMATION CONTACT THE FOLLOWING 1-800-424-9300 (TOLL FREE IN THE U.S., CANADA, AND THE U.S. VIRGIN ISLANDS) 703-527-3887 FOR CALLS ORIGINATING ELSEWHERE (COLLECT CALLS ARE ACCEPTED) ACCOUNTABILITY NOT TO BE RETAINED THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED & LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION DD-626 FURNISHED CARRIER DUAL DRIVERS REQUIRED MSDS FURNISHED ERG 112 FURNISHED												
16. TRANSPORTATION VIA MATS OR MSTs CHARGEABLE TO						17. SPECIAL HANDLING															
R S E H C I A P M E O N F T	18. ISSUED BY		TOTAL CONTAINERS 396	TYPE CONTAINERS Drums	DESCRIPTION GROSS TARE NET	TOTAL WEIGHT 37,740 2,772 34,968	TOTAL CUBE 1188	19. R E C E I P T I	COST RECD EXCEPT AS NOTED	DATE (YYMMDD)	BY	SHEET TOTAL									
	CHECKED BY								QTY RECD EXCEPT AS NOTED	DATE (YYMMDD)	BY	GRAND TOTAL									
	PACKED BY								PORTED	DATE (YYMMDD)	BY	SUBEC VOUCHER									
	<- TOTAL ->																				
	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100																				

STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

Shipper No: **E-00004-05-10P**

Carrier No: **RRUK**

Date: **11/20/2006**

Page 1 of 1

R & R TRUCKING
(Name of carrier)

RRUK
(SCAC)

On Contract on Delivery shipments, the terms "COD" must appear before consignee's name or as otherwise in box 430, Sec. 1		FROM: ALLIANT TECHSYSTEMS INC
TO:		Shipper: LAKE CITY AMMUNITION DIVISION
Consignee: EXPLO SYSTEMS INC.		
Street: 1702 FOURTH STREET		Street: HWY 7 & 78, LAKE CITY AD
City: MINDEN	State: LA	City: INDEPENDENCE State: MO Code: 64058
Zip Code: 71066	24 hr. Emergency Contact Tel. No.: CHEM TREC 1-800-424-9300	

Route **R & R TRUCKING** Trailer #: **R18401** Vehicle Number **6195**

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Class, Hazard Class, Identification number (UN or UA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, Etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
396	X	POWDER, SMOKELESS, 1.1C, UN0160, PG II	GROSS WT 38,340 LBS			
FIBER BOARD		N.E.W. 35,368 LBS.	FREIGHT WT 38,140 LBS			
DRUMS		(Mixed Propellant Types ERG# 112) EX-0009082	DUNNAGE 200 LBS			
		EXPLOSIVES, NOI NMFC 64300 SUB 1				
		EXPLOSIVE 1.1C PLACARDS REQUIRED (4) C13156				
		CUBE: 1188 CF				
		FRT CHARGES COLLECT				
		DUAL DRIVER REQUIRED (SM NOT REQUIRED) DD1907 AND DD626 REQUIRED				
		MSDS AND ERG 112 FURNISHED TO CARRIER				
		BOLT SEALS: 0108195-0108198				
		FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES.				
		SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. CARRIER TO NOTIFY MINDEN, LA				
		AT 318-392-8700. AND LAKE CITY AMMO DIV AD (818)798-7150 OR AFTER DUTY HOURS (818)798-7488				
		IMMEDIATELY IF SHIPMENT IS DELAYED EN ROUTE BECAUSE OF AN ACCIDENT OR INCIDENT.				

PLACARDS TENDERED: YES NO

Note: (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed upon value of the property as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to not be exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling must be so marked and packaged as to require such transportation. See Section 2(1) of Item 300, Bills of Lading, Freight Bills and Statements of Charges and Section 1(1) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Christine Bosley
Signature

REUR		C.O.D. TO ADDRESS:	
COD	Amt: \$	C.O.D. FEE: PREPAID COLLECT	\$
Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the carrier, the carrier shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.		TOTAL CHARGES: \$	
ALLIANT TECHSYSTEMS CHRISTINE BOSLEY		FREIGHT CHARGES: FREIGHT PREPAID box at right is checked. Check box if charges collect. <input checked="" type="checkbox"/>	

RECEIVED, I agree to classifications and terms in effect on the date of the issue of this Bill of Lading. The property described above in apparent good order, except as noted (contents and condition of contents of packages known, marked consigned, and declared as indicated above which shall remain the responsibility of the carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract), agree to carry to the usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination.

It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER	ALLIANT TECHSYSTEMS INC.	CARRIER	R & R TRUCKING RRUK
PER	CHRISTINE BOSLEY	PER	<i>Christine Bosley</i>
	TRAFFIC COORDINATOR	DATE	11/20/2006

Permanent post-office address of shipper

SIGNATURE AND TALLY RECORD

(See DoD 4500.9-R for guidance)

(Use of equivalent carrier-furnished signature and tally record is acceptable.)

*Form Approved
OMB No. 0702-0027
Expires Jan 31, 2006*

The public reporting burden for this collection of information is estimated to average 3 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0702-0027). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ORGANIZATION. RETURN COMPLETED FORM AS DIRECTED IN THE DISTRIBUTION INSTRUCTIONS BELOW.

DISTRIBUTION INSTRUCTIONS

- (1) The SHIPPER will print two copies, retain one copy and give one to the Origin Carrier.
- (2) The ORIGIN CARRIER will deliver one copy with original signatures to the Destination Carrier.
- (3) The DESTINATION CARRIER will attach one copy (reflecting all original signatures) and Standard Form 1113, Public Voucher for Transportation Charges, to the original Government Bill of Lading and forward for payment. Reproduced completed copy of DD Form 1907 will be delivered to the Consignee and one will be retained.
- (4) The CONSIGNEE will ensure Destination Carrier surrenders a reproduced copy of completed form with all signatures.

SECTION I - TO BE COMPLETED BY THE SHIPPER

1a. SHIPPER NAME ALLIANT TECHSYSTEMS		b. ORIGIN HWY 7 & 78 INDEPENDENCE, MO. 64056	
2. PROTECTIVE SERVICE REQUESTED N/A		3. GBL OR CBL NUMBER E-00004-05-10P	
4a. CONSIGNEE NAME EXPLO SYSTEMS		b. DESTINATION 1702 FOURTH STREET MINDEN, LA 71055	
5. PERMIT NUMBER (If any)		6. TRANSPORTATION CONTROL NUMBER	
7. ROUTING R & R TRUCKING (RRUK)		8. WEIGHT 38,140 LBS	9. CUBE 1188 CF
10. SPECIAL INSTRUCTIONS		11. DATE SHIPMENT TENDERED TO CARRIER (YYYYMMDD) 2006/11/20	
12. NAME OF CARRIER R & R TRUCKING (RRUK)		13. NUMBER OF PIECES 396	
14. TYPE OF PACKAGE(S) (For unsealed loads only) OR CONVEYANCE IDENTIFICATION AND SEAL NUMBERS (For sealed loads only) SEALS: 0108185-0108186 TRAILER# R18401		15. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVE, NOI NMFC 64300 SUB 1	

SECTION II - TO BE COMPLETED BY EACH PERSON ACCEPTING CUSTODY OF CLASSIFIED OR PROTECTED MATERIAL REQUIRING THE USE OF TRANSPORTATION PROTECTIVE SERVICE DURING TRANSIT

16. CUSTODY RECORD				
PRINT NAME OF PERSON AND COMPANY REPRESENTED <small>a.</small>	STATION INTERCHANGE POINT DESTINATION <small>b.</small>	SIGNATURE OF PERSON ACCEPTING CUSTODY <small>c.</small>	TIME ACCEPTED <small>d.</small>	DATE ACCEPTED (YYYYMMDD) <small>e.</small>
LARRY SHIE	LCAAP	<i>Larry Shie</i>	13:00	
SHERRY WEISER	LCAAP	<i>Sherry Weiser</i>	13:00	

REQUISITION AND INVOICE / SHIPPING DOCUMENT							Form Approved OMB No. 0704-0246 Expires Oct 31, 1991							
Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, gathering existing data sources, gathering and maintaining the data needed, reviewing and reviewing the collection of information, sending comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Hwy, Suite 1204, Arlington VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0246), Washington, DC 20503							SHEET 1		# OF SHEETS 1		5. REQUISITION DATE		6. REQUISITION NUMBER C13156	
1. FROM: ALLIANT TECH SYSTEMS DAAA09-99-D-0016 LAKE CITY ARMY AMMUNITION PLANT MO HWYS 7 & 78 INDEPENDENCE MO 64057							7. DATE MATERIAL REQUIRED (YYMMDD)		8. PRIORITY					
2. TO: EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055							9. AUTHORITY OR PURPOSE Raw Material Substitution		10. SIGNATURE <i>[Signature]</i>		11a. VOUCHER NUMBER & DATE E-00004-05-10P			
3. SHIP TO - MARK FOR EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055							12. DATE SHIPPED (YYMMDD) 11/20/2006		TRACTOR: TRAILER: R18401		14. BILL OF LADING # COMMERCIAL COLLECT			
							13. MODE OF SHIPMENT R & R TRUCKING		15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO. LCAAP BOLT SEALS: 0108185-0108186					
4. APPROPRIATIONS SYMBOL AND SUBHEAD			OBJECT CLASS	EXPEND. ACCOUNT (FROM) (TO)	CHARGEABLE ACTIVITY	BUREAU CONTROL ACTIVITY NO.	BUREAU CONTROL NO.	AMOUNT						
ITEM # (a)	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES (b)			UNIT OF ISSUE (c)	QTY SHIPPED (d)	SUPPLY ACTION (e)	TYPE CONTAINER (f)	CONTAINER NUMBER (g)	UNIT PRICE (h)	TOTAL COST (i)				
1	Powder, Smokeless, 1.1C, UN0160, PG II, N.E.W 35,368 LBS EX-0009082 Mixed Propellant Types ERG# 112 DOT MKS: POWDER, SMOKELESS, UN0160 EXPLOSIVE 1.1C PLACARDS REQUIRED (4) This material shall be transported and recycled in accordance with the terms and conditions of Alliant purchase order LCO C13156 EXPLOSIVE 1.1C LABELS REQUIRED ON EACH DRUM ORIGINATOR: <i>[Signature]</i> APPROVED BY: <i>Randy J. Hillen</i> 11/10/2006			LB	35,368		DF	396						
					FOR EMERGENCY RESPONSE INFORMATION CONTACT THE FOLLOWING 1-800-424-9300 (TOLL FREE IN THE U.S., CANADA, AND THE U.S. VIRGIN ISLANDS) 703-527-3887 FOR CALLS ORIGINATING ELSEWHERE (COLLECT CALLS ARE ACCEPTED) ACCOUNTABILITY NOT TO BE RETAINED THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED & LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION DD-626 FURNISHED CARRIER DUAL DRIVERS REQUIRED MSDS FURNISHED ERG 112 FURNISHED									
16. TRANSPORTATION VIA MATS OR MSTIS CHARGEABLE TO							17. SPECIAL HANDLING							
R S E H C I A P M E O N T	18. ISSUED BY		TOTAL CONTAINERS	TYPE CONTAINERS	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE	19. COST RECD DATE (YYMMDD) BY SHEET TOTAL						
	CHECKED BY		396	Drums	GROSS	38,140	1188	E EXCEPT AS NOTED						
	PACKED BY				TARE	2,772		C QTY'S RECD DATE (YYMMDD) BY GRAND TOTAL						
					NET	35,368		E EXCEPT AS NOTED						
								P POSTED DATE (YYMMDD) BY DIRECT VOUCHER NO.						
<-- TOTAL -->						3								

STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

Shipper No: E-00004-05-11P

Carrier No: RRUK

Date: 2/28/2007

Page 1 of 1

R & R TRUCKING RRUK
(Name of carrier) (SCAC)

On Creation of Delivery documents, the letters "COD" must appear before consignee's name or as otherwise in Item 430, Sec. 1		FROM: ALLIANT TECHSYSTEMS INC
TO:	Shipper	LAKE CITY AMMUNITION DIVISION
Consignee	EXPLO SYSTEMS INC.	
Street	HWY 7 & 78, LAKE CITY AAP	
City	INDEPENDENCE	State MO Code 64056
City	MINDEN	State LA Zip Code 71055
24 hr. Emergency Contact Tel. No. <u>CHEM TREC 1-800-424-9300</u>		

Route R & R TRUCKING BOLT SEALS: 0109479-0109480 TRAILER #: 7810032 Vehicle Number 5752

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Class, Hazard Class. Identification number (UN or UA), Packing Group, per 172 101, 172 202, 172 203	TOTAL QUANTITY (Weight, Volume, Gallons, Etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
288	X	UN 0160, POWDER, SMOKELESS, 1.1C, PG II	GROSS WT 27,340 LBS.			
FIBER BOARD		N.E.W. 25,124 LBS.	FREIGHT WT 25,124 LBS.			
DRUMS		(Mixed Propellant Types ERG# 112)	TARE WT 2,016 LBS			
		EX-0009082	DUNNAGE 200 LBS			
		EXPLOSIVES, NOI NMFC 64300 SUB 1				
		C13156				
		EXPLOSIVE 1.1C PLACARDS REQUIRED (4)				
		MSDS FURNISHED				
		DD626 FURNISHED				
		ERG 112 FURNISHED				
		COMPETENT AUTHORITY FURNISHED				
		DD1907 REQUIRED				
		DUAL DRIVER REQUIRED (SM NOT REQUIRED)				
		FRT CHARGES COLLECT				
		CUBE: 864 CF				
		FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES.				
		SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. CARRIER TO NOTIFY MINDEN, LA				
		AT 318-382-8700. AND LAKE CITY AAP (816)796-7150 OR AFTER DUTY HOURS (816)796-7488				
		IMMEDIATELY IF SHIPMENT IS DELAYED EN ROUTE BECAUSE OF AN ACCIDENT OR INCIDENT.				

PLACARDS TENDERED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> <small>NOTE: (1) Where the rate is dependent on value, shipper is required to state specifically in writing the agreed upon value of the property as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to not be exceeding _____ for _____." (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See 40CFR Part 172. (3) Commodities requiring special or additional care or attention in handling or stowage must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 350, B/Ls of Lading, Freight B/Ls and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.</small>	REV. 1 COD TO ADDRESS COD Amt: \$ _____ <small>Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the carrier, the consignee shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.</small> ALLIANT LAKE CITY SCAC, LLC (BUSINESS ENTITY)
<small>RECEIVED: I agree to these conditions and terms in respect to the carriage of the goods described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked consigned, and declared as indicated above which said carrier (the word carrier being understood throughout this contract to mean any person or corporation in possession of the property under contract) agrees to carry to its usual place of delivery at said destination, if on the route, or to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of at or any of, said property over or at any portion of said route to destination.</small>	C.O.D. FEE: PREPAID \$ _____ COLLECT \$ _____ TOTAL CHARGES: \$ FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked. Check box if charges are to be collect. <input checked="" type="checkbox"/>

SHIPPER ALLIANT LAKE CITY SCAC LLC	CARRIER R & R TRUCKING RRUK
PER <i>Sharon Beatty</i>	PER <i>Sharon Beatty / Mike Moore 5752</i>
TRAFFIC COORDINATOR	DATE 2/28/2007

Permanent post-office address of shipper

SIGNATURE AND TALLY RECORD

(See DoD 4500.9-R for guidance)

(Use of equivalent carrier-furnished signature and tally record is acceptable.)

*Form Approved
OMB No. 0702-0027
Expires Jan 31, 2006*

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DISTRIBUTION INSTRUCTIONS

- (1) The SHIPPER will print two copies, retain one copy and give one to the Origin Carrier.
- (2) The ORIGIN CARRIER will deliver one copy with original signatures to the Destination Carrier.
- (3) The DESTINATION CARRIER will attach one copy (reflecting all original signatures) and Standard Form 1113, Public Voucher for Transportation Charges, to the original Government Bill of Lading and forward for payment. Reproduced completed copy of DD Form 1907 will be delivered to the Consignee and one will be retained.
- (4) The CONSIGNEE will ensure Destination Carrier surrenders a reproduced copy of completed form with all signatures.

SECTION I - TO BE COMPLETED BY THE SHIPPER

1a. SHIPPER NAME ALLIANT TECHSYSTEMS		b. ORIGIN HWY 7 & 78 INDEPENDENCE, MO. 64056	
2. PROTECTIVE SERVICE REQUESTED N/A		3. GBL OR CBL NUMBER E-00004-05-11P	
4a. CONSIGNEE NAME EXPLO SYSTEMS		b. DESTINATION 1702 FOURTH STREET MINDEN, LA 71055	
5. PERMIT NUMBER (if any)		6. TRANSPORTATION CONTROL NUMBER	
7. ROUTING R & R TRUCKING (RRUK)		8. WEIGHT 27,340 LBS	9. CUBE 864 CF
10. SPECIAL INSTRUCTIONS			11. DATE SHIPMENT TENDERED TO CARRIER (YYYYMMDD) 2007/02/28
12. NAME OF CARRIER R & R TRUCKING (RRUK)			13. NUMBER OF PIECES 288
14. TYPE OF PACKAGE(S) (For unsealed loads only) OR CONVEYANCE IDENTIFICATION AND SEAL NUMBERS (For sealed loads only) SEALS: 0109479-0109480 TRAILER# 7810032		15. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVE, NOI NMFC 64300 SUB 1	

SECTION II - TO BE COMPLETED BY EACH PERSON ACCEPTING CUSTODY OF CLASSIFIED OR PROTECTED MATERIAL REQUIRING THE USE OF TRANSPORTATION PROTECTIVE SERVICE DURING TRANSIT

PRINT NAME OF PERSON AND COMPANY REPRESENTED <small>a.</small>	STATION INTERCHANGE POINT DESTINATION <small>b.</small>	SIGNATURE OF PERSON ACCEPTING CUSTODY <small>c.</small>	TIME ACCEPTED <small>d.</small>	DATE ACCEPTED (YYYYMMDD) <small>e.</small>
Willie Green RRUK	LCAAP	<i>Willie Green</i>	11:45	2/28/07
Judy Green RRUK	LCAAP	<i>Judy Green</i>	11:45	2/28/07

STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

Shipper No: E-00004-05-12P

Carrier No: RRUK

Date: 3/6/2007

Page 1 of 1

R & R TRUCKING RRUK
(Name of carrier) (SCAC)

TO: Consignee EXPLO SYSTEMS INC. Street 1702 FOURTH STREET City MINDEN State LA Zip Code 71055	FROM: ALLIANT TECHSYSTEMS INC Shipper LAKE CITY AMMUNITION DIVISION Street HWY 7 & 78, LAKE CITY AAP City INDEPENDENCE State MO Code 64056 24 hr. Emergency Contact Tel No CHEM TREC 1-800-424-9300
--	--

Route R & R TRUCKING BOLT SEALS: 0109481-0109482 TRAILER #: 18605 Vehicle Number 5872

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Class, Hazard Class, Identification number (UN or UA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, Etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
294	X	UN 0160, POWDER, SMOKELESS, 1.1C, PG II GROSS WT	27,960 LBS.			
FIBER BOARD		N.E.W. 25,408 LBS. FREIGHT WT	25,408 LBS.			
DRUMS		(Mixed Propellant Types ERG# 112) TARE WT	2,352 LBS			
		EX-0009082 DUNNAGE	200 LBS			
		EXPLOSIVES, NOI NMFC 64300 SUB 1				
		C13166				
		EXPLOSIVE 1.1C PLACARDS REQUIRED (4)				
		MSDS FURNISHED				
		DD626 FURNISHED				
		ERG 112 FURNISHED				
		COMPETENT AUTHORITY FURNISHED				
		DD1907 REQUIRED				
		DUAL DRIVER REQUIRED (SM NOT REQUIRED)				
		FRT CHARGES COLLECT				
		CUBE: 882 CF				
FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES. SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. CARRIER TO NOTIFY MINDEN, LA AT 318-382-8700. AND LAKE CITY AAP (816)796-7150 OR AFTER DUTY HOURS (816)796-7488 IMMEDIATELY IF SHIPMENT IS DELAYED EN ROUTE BECAUSE OF AN ACCIDENT OR INCIDENT.						

PLACARDS TENDERED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	C.O.D. ADDRESS COD Amt: \$ ALLIANT LAKE CITY SCAC, LLC 11433191 18-113
<small> Title: (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed upon value of the property as follows: The agreed or declared value of the property as hereby specifically stated by the shipper to be insuring... per... (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMC Item 172. (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Part 350, B of the Lading, Freight Bills and Statements of Charges and Section 1(h) of the Contract Terms and Conditions for a full of such articles. </small>	<small> I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are in all respects in proper condition for transport according to applicable international and national governmental regulations. </small>
<small> RECEIVED, subject to classifications and terms in effect on the date of this Bill of Lading the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, counted, and declared as indicated above when said carrier (the word carrier being understood throughout this contract to mean any person or corporation in possession of the property under contract) agrees to carry to its usual place of delivery at said destination, in full compliance with the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns. </small>	<small> It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is fully and in full compliance with the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns. </small>
C.O.D. FEE: PREPAID COLLECT \$	TOTAL CHARGES: \$ FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked. Check box if charges are to be collect. <input checked="" type="checkbox"/>

SHIPPER ALLIANT LAKE CITY SCAC LLC	CARRIER R & R TRUCKING RRUK
PER <i>James Bailey</i> TRAFFIC COORDINATOR	PER <i>[Signature]</i> DATE 3/6/2007

Permanent post-office address of shipper

SIGNATURE AND TALLY RECORD

(See DoD 4500.9-R for guidance)

(Use of equivalent carrier-furnished signature and tally record is acceptable.)

*Form Approved
OMB No. 0702-0027
Expires Jan 31, 2006*

The public reporting burden for this collection of information is estimated to average 3 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0702-0027). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ORGANIZATION. RETURN COMPLETED FORM AS DIRECTED IN THE DISTRIBUTION INSTRUCTIONS BELOW.

DISTRIBUTION INSTRUCTIONS

- (1) The SHIPPER will print two copies, retain one copy and give one to the Origin Carrier.
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- (4) The CONSIGNEE will ensure Destination Carrier surrenders a reproduced copy of completed form with all signatures.

SECTION I - TO BE COMPLETED BY THE SHIPPER

1a. SHIPPER NAME ALLIANT TECHSYSTEMS		b. ORIGIN HWY 7 & 78 INDEPENDENCE, MO. 64056	
2. PROTECTIVE SERVICE REQUESTED N/A		3. GBL OR CBL NUMBER E-00004-05-12P	
4a. CONSIGNEE NAME EXPLO SYSTEMS		b. DESTINATION 1702 FOURTH STREET MINDEN, LA 71055	
5. PERMIT NUMBER (If any)		6. TRANSPORTATION CONTROL NUMBER	
7. ROUTING R & R TRUCKING (RRUK)		8. WEIGHT 27,960 LBS	9. CUBE 882 CF
10. SPECIAL INSTRUCTIONS			11. DATE SHIPMENT TENDERED TO CARRIER (YYYYMMDD) 2007/03/06
12. NAME OF CARRIER R & R TRUCKING (RRUK)			13. NUMBER OF PIECES 294
14. TYPE OF PACKAGE(S) (For unsealed loads only) OR CONVEYANCE IDENTIFICATION AND SEAL NUMBERS (For sealed loads only) SEALS: 0109481-0109482 TRAILER# 18605		15. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVE, NOI NMFC 64300 SUB 1	

SECTION II - TO BE COMPLETED BY EACH PERSON ACCEPTING CUSTODY OF CLASSIFIED OR PROTECTED MATERIAL REQUIRING THE USE OF TRANSPORTATION PROTECTIVE SERVICE DURING TRANSIT

16. CUSTODY RECORD				
PRINT NAME OF PERSON AND COMPANY REPRESENTED <small>a.</small>	STATION INTERCHANGE POINT DESTINATION <small>b.</small>	SIGNATURE OF PERSON ACCEPTING CUSTODY <small>c.</small>	TIME ACCEPTED <small>d.</small>	DATE ACCEPTED (YYYYMMDD) <small>e.</small>
Amir Jordan	LCAAP	<i>[Signature]</i>	0900	3-6-07
Kevin Jordan	LCAAP	<i>[Signature]</i>	0900	3-6-07

REQUISITION AND INVOICE / SHIPPING DOCUMENT										FORM Approved DDM 16, 10/14/26 EFFECT 1/1/11									
1. This is a requisition document for the collection of information. It is submitted to the requisitioner for the purpose of providing the requisitioner with the necessary information, including the requisitioner's name, address, telephone number, and the date of collection of information. It is not to be used for the collection of information for the purpose of providing the requisitioner with the necessary information, including the requisitioner's name, address, telephone number, and the date of collection of information.										4. SHEET		5. REQUISITION DATE		6. REQUISITION NUMBER					
1. FROM: ALLIANT TECH SYSTEMS' DAAA09-99-D-0016 LAKE CITY ARMY AMMUNITION PLANT MO HWYS 7 & 78 INDEPENDENCE MO 64057										1		1				C13156			
2. TO: EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055										7. DATE MATERIAL REQUIRED		(FYANDD)		8. PRIORITY					
3. SHIP TO - MARK FOR EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055										9. AUTHORITY OR PURPOSE		Raw Material Substitution		10. SIGNATUR		11a. VOUCHER NUMBER & DATE		E-00004-05-12P	
										12. DATE SHIPPED		(FYANDD)		13. MODE OF SHIPMENT		14. BILL OF LADING #		TRACTOR: TRAILER: 18605	
										15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO.		SEALS: 0109481-0109482		R & R TRUCKING		COMMERCIAL COLLECT			
4. APPROPRIATIONS SYMBOL AND SUBHEAD			OBJECT CLASS		EXPEND. ACCOUNT (FROM) (TO)		CHARGEABLE ACTIVITY		BUREAU CONTROL ACTIVITY NO.		BUREAU CONTROL NO.		AMOUNT						
ITEM #	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICE:	UNIT OF ISSUE	QTY SHIPPED	SUPPLY ACTION	TYPE CONTAINER	CONTAINER NUMBER	UNIT PRICE	TOTAL COST											
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)											
1	UN0160, Powder, Smokeless, 1.1C, PG II, N.E.W. 25,408 LBS EX-0009082 Mixed Propellant Types ERG# 112 DOT MKS: POWDER, SMOKELESS, UN0160 This material shall be transported and recycled in accordance with the terms and conditions of Alliant purchase order LCO C13156 ORIGINATOR:  APPROVED BY  2/22/2007	LB	25,408		DF	294													
										FOR EMERGENCY RESPONSE INFORMATION CONTACT THE FOLLOWING 1-800-424-9300 (TOLL FREE IN THE U.S., CANADA, AND THE U.S. VIRGIN ISLANDS) 703-527-3887 FOR CALLS ORIGINATING ELSEWHERE (COLLECT CALLS ARE ACCEPTED) ACCOUNTABILITY NOT TO BE RETAINED THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED & LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. DD-626 FURNISHED CARRIER COMPETENT AUTHORITY REQUIRED DUAL DRIVERS REQUIRED EXPLOSIVE 1.1C PLACARDS REQUIRED (4) EXPLOSIVE 1.1C LABELS REQUIRED ON EACH DRUM		MSDS REQUIRED ERG 112 REQUIRED 1907 REQUIRED							
16. TRANSPORTATION VIA MATS OR MATS CHARGEABLE TO										17. SPECIAL HANDLING									
ISS. BY	CHECKED BY	PACKED BY	TOTAL CONTAINERS	TYPE CONTAINERS	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE	19. CONTAINER	DATE (YYYYMMDD)	20. SHIP TO	21. CONTAINER	DATE (YYYYMMDD)	22. SHIP TO	23. CONTAINER	DATE (YYYYMMDD)	24. SHIP TO			
R S E H C I A P M E O N F T			294	Drums	GROSS	27,960	882												
					TARE	2,352													
					NET	25,408													
					DUNN	200													
					← TOTAL →														

SIGNATURE AND TALLY RECORD

(See DoD 4500.9-R for guidance)

(Use of equivalent carrier-furnished signature and tally record is acceptable.)

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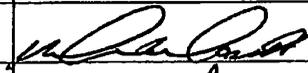
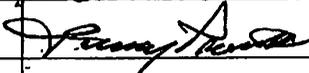
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5. PERMIT NUMBER (If any)		6. TRANSPORTATION CONTROL NUMBER	
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10. SPECIAL INSTRUCTIONS			11. DATE SHIPMENT TENDERED TO CARRIER (YYYYMMDD) 2007/06/12
12. NAME OF CARRIER R & R TRUCKING (RRUK)			13. NUMBER OF PIECES 293
14. TYPE OF PACKAGE(S) (For unsealed loads only) OR CONVEYANCE IDENTIFICATION AND SEAL NUMBERS (For sealed loads only) SEALS: 0110973-0110974 TRAILER# R18703		15. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVE, NOI NMFC 64300 SUB 1	

SECTION II - TO BE COMPLETED BY EACH PERSON ACCEPTING CUSTODY OF CLASSIFIED OR PROTECTED MATERIAL REQUIRING THE USE OF TRANSPORTATION PROTECTIVE SERVICE DURING TRANSIT

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David Dossin	LCAAP		10:00	6/12/07
Tammy Stoughton	LCAAP		10:00	6/12/07

REQUISITION AND INVOICE / SHIPPING DOCUMENT										FORM APPROVED OMB No. 0704-026 EXP. 01-31-12									
1. FROM: ALLIANT TECH SYSTEMS DAAA09-99-D-0016 LAKE CITY AMMUNITION DIVISION MO HWYS 7 & 78 INDEPENDENCE MO 64057										4. SHEET 1		5. OF SHEETS 1		6. REQUISITION DATE		7. REQUISITION NUMBER C13156			
2. TO: EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055										7. DATE MATERIAL REQUIRED (FYMMDD) 6/12/2007		8. PRIORITY		9. AUTHORITY OR PURPOSE Raw Material Substitution		10. SIGNATURE		11. VOUCHER NUMBER & DATE E-00004-05-13P	
3. SHIP TO - MARK FOR EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055										12. DATE SHIPPED (FYMMDD) 6/12/2007		13. MODE OF SHIPMENT R & R TRUCKING		14. BILL OF LADING COMMERCIAL COLLECT		15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO. BOLT SEALS: 0110973-0110974			
4. APPROPRIATIONS SYMBOL AND SUBHEAD			OBJECT CLASS		EXPEND. ACCOUNT (FYMM)		CHARGEABLE ACTIVITY		BUREAU CONTROL ACTIVITY NO.		BUREAU CONTROL NO.		AMOUNT						
ITEM #	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES				UNIT OF ISSUE	QTY SHIPPED	SUPPLY ACTION	TYPE CONTAINER	CONTAINER NUMBER	UNIT PRICE	TOTAL COST								
1	UN0160, Powder, Smokeless, 1.1C, PG II, N.E.W. 24,836 LBS EX-0009082 Mixed Propellant Types ERG# 112 DOT MKS: POWDER, SMOKELESS, UN0160 This material shall be transported and recycled in accordance with the terms and conditions of Alliant purchase order LCO C13156 ACCOUNTABILITY NOT TO BE RETAINED ORIGINATOR: <i>[Signature]</i> APPROVED BY: <i>[Signature]</i> 2/22/2007				LB	24,836		DF	293										
16. TRANSPORTATION VIA MATS OR MSTs CHARGEABLE TO										17. SPECIAL HANDLING		18. CONFIDENTIALITY		19. CHECKED BY					
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R	S	E																	

STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

Shipper No: **E-00004-05-14P**

Carrier No: **RRUK**

Date: **11/7/2007**

Page 1 of 1

 R & R TRUCKING RRUK

(Name of carrier)

(SCAC)

On Call or Delivery shipments, the letters "COD" must appear before consignee's name or its address in Item 40, Box 1		FROM: ALLIANT TECHSYSTEMS INC
TO:	Consignee EXPLO SYSTEMS INC.	Shipper LAKE CITY AMMUNITION DIVISION
Street	1702 FOURTH STREET	Street HWY 7 & 78, LAKE CITY AAP
City MINDEN	State LA Zip Code 71055	City INDEPENDENCE State MO Code 64056
24 hr. Emergency Contact Tel. No. CHEM TREC 1-800-424-9300		

Route R & R TRUCKING **BOLT SEALS:** 0112983-0112994 **TRAILER #:** R & R 18295 **Vehicle Number** 6079

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Class, Hazard Class, Identification number (UN or UA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, Etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
300 FIBER BOARD DRUMS	X	UN 0160, POWDER, SMOKELESS, 1.1C, PG II N.E.W. 33,188 LBS. (Mixed Propellant Types ERG# 112) EX-0009082 EXPLOSIVES, NOI NMFC 84300 SUB 1 C13158 EXPLOSIVE 1.1C PLACARDS REQUIRED (4) MSDS FURNISHED DD626 FURNISHED ERG 112 FURNISHED COMPETENT AUTHORITY FURNISHED DD1807 FURNISHED DUAL DRIVER REQUIRED (SM NOT REQUIRED) FRT CHARGES COLLECT CUBE: 1,188 CF	GROSS WT 36,140 LBS. FREIGHT WT 33,188 LBS. TARE WT 2,772 LBS DUNNAGE 200 LBS			
FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES.						
SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. CARRIER TO NOTIFY MINDEN, LA						
AT 318-382-8700. AND LAKE CITY AAP (816)798-7150 OR AFTER DUTY HOURS (816)798-7488						
IMMEDIATELY IF SHIPMENT IS DELAYED EN ROUTE BECAUSE OF AN ACCIDENT OR INCIDENT.						

PLACARDS TENDERED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		TEST
Note: (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed upon value of the property as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to not be exceeding _____ per _____" (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See BOPD form 179 (3) Commodities requiring special or additional care or attention in handling or stowage must be so marked and packaged as to ensure safe transportation. See Section 21(1) of Item 300, Bill of Lading, Freight Bill and Statement of Charges and Section 1(c) of the Contract Terms and Conditions for a list of such articles.		I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/signed, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
ALLIANT LAKE CITY SCAC LLC CHELTEN SOCIETY		COD TO ADDRESS: Amt: \$ _____ C.O.D. FEE: PREPAID COLLECT \$ _____ TOTAL CHARGES: \$ _____ FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked. Check box if charges are to be collect <input checked="" type="checkbox"/>

RECEIVED, subject to classifications and terms in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown, marked consigned, and described as indicated above which said carrier (the legal carrier) hereby undertakes throughout this contract as meaning any person or corporation in possession of the property under contract, agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination.

It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party of any time interested in or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER ALLIANT TECHSYSTEMS INC	CARRIER R & R TRUCKING RRUK
PER <i>Cherie Anney</i>	PER <i>[Signature]</i>
TRANSPORTATION LOGISTICS SPECIALIST 1	DATE 11/7/2007

Permanent post-office address of shipper

SIGNATURE AND TALLY RECORD

(See DoD 4500.9-R for guidance)

(Use of equivalent carrier-furnished signature and tally record is acceptable.)

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2. PROTECTIVE SERVICE REQUESTED N/A		3. GBL OR CBL NUMBER E-00004-05-14P	
4a. CONSIGNEE NAME EXPLO SYSTEMS		b. DESTINATION 1702 FOURTH STREET MINDEN, LA 71055	
5. PERMIT NUMBER (If any)		6. TRANSPORTATION CONTROL NUMBER	
7. ROUTING R & R TRUCKING (RRUK)		8. WEIGHT 35,940 LBS	9. CUBE 1,188 CF
10. SPECIAL INSTRUCTIONS			11. DATE SHIPMENT TENDERED TO CARRIER (YYYYMMDD) 2007/11/07
12. NAME OF CARRIER R & R TRUCKING (RRUK)			13. NUMBER OF PIECES 396
14. TYPE OF PACKAGE(S) (For unsealed loads only) OR CONVEYANCE IDENTIFICATION AND SEAL NUMBERS (For sealed loads only) SEALS: 0112993-0112994 TRAILER# R&R 18295		15. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVE, NOI NMFC 64300 SUB 1	

SECTION II - TO BE COMPLETED BY EACH PERSON ACCEPTING CUSTODY OF CLASSIFIED OR PROTECTED MATERIAL REQUIRING THE USE OF TRANSPORTATION PROTECTIVE SERVICE DURING TRANSIT

18. CUSTODY RECORD				
PRINT NAME OF PERSON AND COMPANY REPRESENTED <small>a.</small>	STATION INTERCHANGE POINT DESTINATION <small>b.</small>	SIGNATURE OF PERSON ACCEPTING CUSTODY <small>c.</small>	TIME ACCEPTED <small>d.</small>	DATE ACCEPTED (YYYYMMDD) <small>e.</small>
Daniel Maloney	LCAAP	<i>[Signature]</i>	0800	# 7 07
Cindy Maloney	LCAAP	<i>[Signature]</i>	0800	11 7 07

STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

Shipper No: **E-00004-05-16P**

Carrier No: **RRUK**

Date: **3/12/2008**

Page 1 of 1

 R & R TRUCKING RRUK

(Name of carrier)

(SCAC)

<p><small>On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or its alternate in Item 430, Box 1</small></p> <p>TO: Consignee EXPLO SYSTEMS INC.</p> <p>Street 1702 FOURTH STREET</p> <p>City MINDEN State LA Zip Code 71055</p>	<p>FROM: ALLIANT TECHSYSTEMS INC Shipper LAKE CITY AMMUNITION DIVISION</p> <p>Street HWY 7 & 78, LAKE CITY AAP</p> <p>City INDEPENDENCE State MO Code 64058</p> <p>24 hr. Emergency Contact Tel. No. CHEM TREC 1-800-424-9300</p>
---	---

Route R & R TRUCKING		BOLT SEALS: 0114571-0114572		TRAILER #: R & R T104		Vehicle Number 6198	
No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Class, Hazard Class, Identification number (UN or UA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, Etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)	
	X	UN 0160, POWDER, SMOKELESS, 1.1C, PG II	GROSS WT 37,080 LBS.				
398 FIBER BOARD		N.E.W. 34,088 LBS.	FREIGHT WT 34,088 LBS.				
DRUMS		(Mixed Propellant Types ERG# 112)	TARE WT 2,772 LBS				
		EX-0008082	DUNNAGE 200 LBS				
		EXPLOSIVES, NOI NMFC 84300 SUB 1					
		C13156					
		EXPLOSIVE 1.1C PLACARDS REQUIRED (4)					
		MSDS FURNISHED					
		DD826 FURNISHED					
		ERG 112 FURNISHED					
		COMPETENT AUTHORITY FURNISHED					
		DD1907 FURNISHED					
		DUAL DRIVER, SM NOT REQUIRED					
		FRT CHARGES COLLECT					
		CUBE: 1,188 CF					
FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES. SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. CARRIER TO NOTIFY MINDEN, LA AT 318-382-8700. AND LAKE CITY AAP (816)786-7150 OR AFTER DUTY HOURS (816)786-7488 IMMEDIATELY IF SHIPMENT IS DELAYED EN ROUTE BECAUSE OF AN ACCIDENT OR INCIDENT.							

PLACARDS TENDERED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		<small>NOTE: (1) When the rate is dependent on value, shippers are required to state specifically in writing the agreed upon value of the property as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to not be exceeding _____ per _____". (2) Where the applicable tariff provisions specify a limitation of the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172. (3) Commodity requiring special or additional care in stowage or handling shall be so marked and packaged as to ensure safe transportation. See Section 2(2) of Tare 300, Bill of Lading, Freight Bill and Statement of Charges and Section 1(4) of the Contract Terms and Conditions for a list of such articles. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. _____ Signature </small>		C.O.D. TO ADDRESS: COD Amt: \$ _____ <small>Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignee, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other freight charges.</small>		C.O.D. FEE: PREPAID \$ _____ COLLECT \$ _____ TOTAL CHARGES: \$ FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked. Check box if charges are to be collect. <input checked="" type="checkbox"/>	
--	--	---	--	--	--	--	--

RECEIVED, subject to classification and limits in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (quantity and condition of contents of packages unknown), marked, counted, and weighed as indicated above which said carrier (the vessel carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract), agrees to carry to its usual place of delivery at said destination, if in its route, otherwise to deliver to another carrier en route to said destination. It is mutually agreed as to each carload of all or any of, said property over all or any portion of said route to destination.

I am fully agreed as to each carload of all or any of said property over all or any portion of said route to destination and as to each party of any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER ALLIANT TECHSYSTEMS INC PER _____ TRANSPORTATION LOGISTICS SPECIALIST 1	CARRIER R & R TRUCKING RRUK PER _____ DATE 3/12/2008
---	--

Home post-office address of shipper

SIGNATURE AND TALLY RECORD

(See DoD 4600.9-R for guidance)

(Use of equivalent carrier-furnished signature and tally record is acceptable.)

*Form Approved
OMB No. 0702-0027
Expires Jan 31, 2006*

The public reporting burden for this collection of information is estimated to average 3 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Service and Communications Directorate (0702-0027). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ORGANIZATION. RETURN COMPLETED FORM AS DIRECTED IN THE DISTRIBUTION INSTRUCTIONS BELOW.

DISTRIBUTION INSTRUCTIONS

- (1) The SHIPPER will print two copies, retain one copy and give one to the Origin Carrier.
- (2) The ORIGIN CARRIER will deliver one copy with original signatures to the Destination Carrier.
- (3) The DESTINATION CARRIER will attach one copy (reflecting all original signatures) and Standard Form 1113, Public Voucher for Transportation Charges, to the original Government Bill of Lading and forward for payment. Reproduced completed copy of DD Form 1907 will be delivered to the Consignee and one will be retained.
- (4) The CONSIGNEE will ensure Destination Carrier surrenders a reproduced copy of completed form with all signatures.

SECTION I - TO BE COMPLETED BY THE SHIPPER

1a. SHIPPER NAME ALLIANT TECHSYSTEMS		b. ORIGIN HWY 7 & 78 INDEPENDENCE, MO. 64056	
2. PROTECTIVE SERVICE REQUESTED N/A		3. GBL OR CBL NUMBER E-00004-05-15P	
4a. CONSIGNEE NAME EXPLO SYSTEMS		b. DESTINATION 1702 FOURTH STREET MINDEN, LA 71055	
5. PERMIT NUMBER (If any)		6. TRANSPORTATION CONTROL NUMBER	
7. ROUTING R & R TRUCKING (RRUK)		8. WEIGHT 37,060 LBS	9. CUBE 1,188 CF
10. SPECIAL INSTRUCTIONS			11. DATE SHIPMENT TENDERED TO CARRIER (YYYYMMDD) 2008/03/12
12. NAME OF CARRIER R & R TRUCKING (RRUK)			13. NUMBER OF PIECES 396
14. TYPE OF PACKAGE(S) (For unsealed loads only) OR CONVEYANCE IDENTIFICATION AND SEAL NUMBERS (For sealed loads only) SEALS: 0114571-0114572 TRAILER# R&R T104		15. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVE, NOI NMFC 64300 SUB 1	

SECTION II - TO BE COMPLETED BY EACH PERSON ACCEPTING CUSTODY OF CLASSIFIED OR PROTECTED MATERIAL REQUIRING THE USE OF TRANSPORTATION PROTECTIVE SERVICE DURING TRANSIT

16. CUSTODY RECORD				
PRINT NAME OF PERSON AND COMPANY REPRESENTED <small>a.</small>	STATION INTERCHANGE POINT DESTINATION <small>b.</small>	SIGNATURE OF PERSON ACCEPTING CUSTODY <small>c.</small>	TIME ACCEPTED <small>d.</small>	DATE ACCEPTED (YYYYMMDD) <small>e.</small>
WAYNE VENTRANS	LCAAP	<i>Wayne Ventrans</i>	10:00	3-12-08
	LCAAP			

SHIPPING CONTAINERFULLY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

REQUISITION AND INVOICE / SHIPPING DOCUMENT

FORM APPROVED
CMB No. 0704-0246
EFFECTIVE DATE 11/15/91

FOR INFORMATION ONLY: THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. IT IS THE USER'S RESPONSIBILITY TO VERIFY THE INFORMATION CONTAINED HEREIN, INCLUDING THE DATA REQUIRED, BEFORE ORDERING. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE INFORMATION CONTAINED HEREIN, INCLUDING THE DATA REQUIRED, BEFORE ORDERING. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE INFORMATION CONTAINED HEREIN, INCLUDING THE DATA REQUIRED, BEFORE ORDERING.

1. FROM: ALLIANT TECH SYSTEMS DAAA09-99-D-0016 LAKE CITY ARMY AMMUNITION PLANT MO HWYS 7 & 78 INDEPENDENCE MO 64057		4. SHEET 1	5. # OF SHEETS 1	6. REQUISITION DATE (YYYYMM)	7. REQUISITION NUMBER C13156
2. TO: EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055		7. DATE MATERIAL REQUIRED (YYYYMM)		8. PRIORITY	
3. SHIP TO - MARK FOR EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055		9. AUTHORITY OR PURPOSE Raw Material Substitution		10. SIGNATURE <i>[Signature]</i>	
		11. VOUCHER NUMBER & DATE E-00004-05-15P		12. DATE SHIPPED 3/12/2008	
		13. MODE OF SHIPMENT R & R TRUCKING		14. BILL OF LADING # COMMERCIAL COLLECT	
		15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO. LCAAP BOLT SEALS: 0114571-0114572			

4. APPROPRIATIONS SYMBOL AND SUBREAD		OBJECT CLASS	EXPEND. ACCOUNT (FSCM) (FC)		CHARGEABLE ACTIVITY	BUREAU CONTROL ACTIVITY NO.	BUREAU CONTROL NO.	AMOUNT
ITEM #	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	UNIT OF ISSUE	QTY SKIPPED	SUPPLY ACTION	TYPE CONTAINER	CONTAINER NUMBER	UNIT PRICE	TOTAL COST
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
1	UN0160, POWDER, SMOKELESS, 1.1C, PG II N.E.W. 34,088 POUNDS EX-0009082 Mixed Propellant Types ERG# 112 DOT MKS: POWDER, SMOKELESS, UN0160 EXPLOSIVE 1.1C PLACARDS REQUIRED (4) This material shall be transported and recycled in accordance with the terms and conditions of Alliant purchase order LCO C13156 EXPLOSIVE 1.1C LABELS REQUIRED ON EACH DRUM ORIGINATOR: APPROVED BY: <i>[Signature]</i> <i>[Signature]</i> 10/26/2007	LB	34,088		DF	396		
FOR EMERGENCY RESPONSE INFORMATION CONTACT THE FOLLOWING 1-800-424-9300 (TOLL FREE IN THE U.S., CANADA, AND THE U.S. VIRGIN ISLANDS) 703-527-3987 FOR CALLS ORIGINATING ELSEWHERE (COLLECT CALLS ARE ACCEPTED) ACCOUNTABILITY NOT TO BE RETAINED THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED & LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. DD-626 FURNISHED CARRIER MSDS FURNISHED 1507 FURNISHED								

16. TRANSPORTATION VIA MATS OR MSDS CHARGEABLE TO					17. SPECIAL HANDLING				
ISSUED BY	TOTAL CONTAINERS	TYPE CONTAINERS	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE	COYT REVD	DATE (YYYYMM)	BY	SHEET TOTAL
R S E H C I A P M E O N F T	396	Drums	GROSS	37,060	1188 CF				
			NET	34,088					
			TARE	2,772					
			DUNN	200					
			←TOTAL→	34,088					

51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

DD FORM 1149, DEC 93

PREVIOUS EDITION MAY BE USED.

USAPPC V1.10

STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

Shipper No: E-00004-05-16P

Carrier No: RRUK

Date: 11/25/2008

Page 1 of 1

R & R TRUCKING RRUK

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the facility "COD" must appear before consignee's name or as otherwise in Item 432, Sec 1		FROM: ALLIANT TECHSYSTEMS INC
TO:	Shipper	LAKE CITY AMMUNITION DIVISION
Consignee EXPLO SYSTEMS INC.	Street	HWY 7 & 78, LAKE CITY AAP
Street 1702 FOURTH STREET	City INDEPENDENCE	State MO Code 64056
City MINDEN State LA Zip Code 71056	24 hr. Emergency Contact Tel. No. CHEM TREC 1-800-424-8300	

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Class, Hazard Class, Identification number (UN or UA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, Etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
	X	UN 0160, POWDER, SMOKELESS, 1.1C, PG II	GROSS WT 37,660 LBS.			
396 FIBER BOARD		N.E.W. 35,084 LBS.	FREIGHT WT 35,084 LBS.			
DRUMS		(Mixed Propellant Types ERG# 112)	TARE WT 2,376 LBS			
		EX-0009082	DUNNAGE 200 LBS			
		EXPLOSIVES, NOI NMFC 64300 SUB 1				
		C13156				
		EXPLOSIVE 1.1C PLACARDS REQUIRED (4)				
		MSDS FURNISHED				
		DD626 FURNISHED				
		ERG 112 FURNISHED				
		COMPETENT AUTHORITY FURNISHED				
		DD1907 FURNISHED				
		DUAL DRIVER, SM NOT REQUIRED				
		FRT CHARGES COLLECT				
		CUBE: 1188 CF				
FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES.						
SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. CARRIER TO NOTIFY MINDEN, LA						
AT 318-382-8700. AND LAKE CITY AAP (816)796-7150 OR AFTER DUTY HOURS (816)796-7488						
IMMEDIATELY IF SHIPMENT IS DELAYED EN ROUTE BECAUSE OF AN ACCIDENT OR INCIDENT.						

PLACARDS TENDERED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		PLACARD
Note: (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed upon value of the property as follows: "The highest or declared value of the property is hereby specifically stated by the shipper to not be exceeding _____ per _____" (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the amount provided by such provisions. See NMFCA Item 172. (3) Commodities requiring special or additional care or attention in handling or stowage must be so marked and packaged as to ensure a safe transportation. See Section 11(4) of Item 350, Bill of Lading, Freight Bill and Statement of Charges and Section 11(4) of the Contract Terms and Conditions for a list of such articles.	I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.	ADD TO ADDRESS COD Amt: \$ _____ C.O.D. FEE: PREPAID COLLECT \$ _____ TOTAL CHARGES: \$ FREIGHT CHARGES FREIGHT PREPAID except when box all right is checked. Check box if charges are to be collect <input checked="" type="checkbox"/>
RECEIVED, subject to classifications and tariffs in effect on the date of this Bill of Lading the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the vessel carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract), agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination.		ALLIANT LAKE CITY SCAC, LLC Signature: _____ Date: _____

SHIPPER ALLIANT TECHSYSTEMS INC	CARRIER R & R TRUCKING RRUK
PER <i>Chris Bay...</i>	PER <i>Jak... SEC</i>
TRANSPORTATION LOGISTICS SPECIALIST 1	DATE 11/25/2008

REQUISITION AND INVOICE / SHIPPING DOCUMENT

Form Approved
OMB No. 0704-0246
Expires 06-30-2011

Please reporting under this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Service, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Project Director, Paperwork Project, Washington, DC 20503.

1. FROM: ALLIANT TECH SYSTEMS DAAA09-99-D-0016 LAKE CITY AMMUNITION DIVISION MO HWYS 7 & 78 INDEPENDENCE MO 64057		7. DATE MATERIAL REQUIRED <i>(11/25/2008)</i>	8. PRIORITY
2. TO: EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055		9. AUTHORITY OR PURPOSE Raw Material Substitution	10. SIGNATOR <i>[Signature]</i>
3. SHIP TO - MARK FOR EXPLO SYSTEMS INC. 1702 FOURTH STREET MINDEN, LA 71055		11. VOUCHER NUMBER & DATE E-00004-05-16P	12. DATE SHIPPED <i>(11/25/2008)</i>
		13. MODE OF SHIPMENT R & R TRUCKING	14. BILL OF LADING # COMMERCIAL COLLECT
		15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO. LCAAP BOLT SEALS: 0117871-0117872	

4. APPROPRIATION'S SYMBOL AND SUBHEAD	OBJECT CLASS	EXPEND. ACCOUNT (FBI/DO)	CHARGEABLE ACTIVITY	BUREAU CONTROL ACTIVITY NO.	BUREAU CONTROL NO.	AMOUNT
---------------------------------------	--------------	--------------------------	---------------------	-----------------------------	--------------------	--------

ITEM #	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES (a)	UNIT OF ISSUE (c)	QTY SHIPPED (d)	SUPPLY ACTION (e)	TYPE CONTAINER (f)	CONTAINER NUMBER (g)	UNIT PRICE (h)	TOTAL COST (i)
1	UN0160, POWDER, SMOKELESS, 1.1C, PG II N.E.W. 35,084 LBS EX-0009082 Mixed Propellant Types ERG# 112 DOT MKS: POWDER, SMOKELESS, UN0160 EXPLOSIVE 1.1C PLACARDS REQUIRED (4) This material shall be transported and recycled in accordance with the terms and conditions of Alliant purchase order LCO C13156 EXPLOSIVE 1.1C LABELS REQUIRED ON EACH DRUM ORIGINATOR: <i>[Signature]</i> APPROVED BY: <i>[Signature]</i> 11/21/2008	LB	34,088		DF	396		
FOR EMERGENCY RESPONSE INFORMATION CONTACT THE FOLLOWING 1-800-424-9300 (TOLL FREE IN THE U.S., CANADA, AND THE U.S. VIRGIN ISLANDS) 703-627-3887 FOR CALLS ORIGINATING ELSEWHERE (COLLECT CALLS ARE ACCEPTED) ACCOUNTABILITY NOT TO BE RETAINED THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED & LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. DD-626 FURNISHED CARRIER MSDS FURNISHED 1907 FURNISHED								

16. TRANSPORTATION VIA MATS OR MSTs CHARGEABLE TO						17. SPECIAL HANDLING			
18. ISSUED BY	TOTAL CONTAINERS	TYPE CONTAINERS	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE	19. R E C E I P T	DATE (YYYYMMDD)	BY	SUBJECT TOTAL
CHECKED BY	396	Drums	GROSS	37,660	1188 CF	AS NOTED			
			NET	35,084		DATE (YYYYMMDD)			GRAND TOTAL
			TARE	2,376		LAUNDRY AS NOTED			
			DUNN	200		DATE (YYYYMMDD)			SUBJECT TOTAL
			← TOTAL →						

SIGNATURE AND TALLY RECORD

(See DoD 4500.9-R for guidance)

(Use of equivalent carrier-furnished signature and tally record is acceptable.)

*Form Approved
OMB No. 0702-0027
Expires Jan 31, 2006*

The public reporting burden for this collection of information is estimated to average 3 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0702-0027). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ORGANIZATION. RETURN COMPLETED FORM AS DIRECTED IN THE DISTRIBUTION INSTRUCTIONS BELOW.

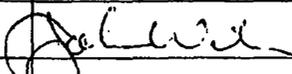
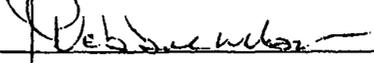
DISTRIBUTION INSTRUCTIONS

- (1) The SHIPPER will print two copies, retain one copy and give one to the Origin Carrier.
- (2) The ORIGIN CARRIER will deliver one copy with original signatures to the Destination Carrier.
- (3) The DESTINATION CARRIER will attach one copy (reflecting all original signatures) and Standard Form 1113, Public Voucher for Transportation Charges, to the original Government Bill of Lading and forward for payment. Reproduced completed copy of DD Form 1907 will be delivered to the Consignee and one will be retained.
- (4) The CONSIGNEE will ensure Destination Carrier surrenders a reproduced copy of completed form with all signatures.

SECTION I - TO BE COMPLETED BY THE SHIPPER

1a. SHIPPER NAME ALLIANT TECHSYSTEMS		b. ORIGIN IIWY 7 & 78 INDEPENDENCE. MO. 64056	
2. PROTECTIVE SERVICE REQUESTED N/A		3. GBL OR CBL NUMBER E-00004-05-16P	
4a. CONSIGNEE NAME EXPLO SYSTEMS		b. DESTINATION 1702 FOURTH STREET MINDEN, LA 71055	
5. PERMIT NUMBER (If any)		6. TRANSPORTATION CONTROL NUMBER	
7. ROUTING R & R TRUCKING (RRUK)		8. WEIGHT 37,660 LBS	9. CUBE 1188 CF
10. SPECIAL INSTRUCTIONS			11. DATE SHIPMENT TENDERED TO CARRIER (YYYYMMDD) 2008/11/25
12. NAME OF CARRIER R & R TRUCKING (RRUK)			13. NUMBER OF PIECES
14. TYPE OF PACKAGE(S) (For unsealed loads only) OR CONVEYANCE IDENTIFICATION AND SEAL NUMBERS (For sealed loads only) SEALS: 0117871-0117872 TRAILER# R&R 17815		16. FREIGHT CLASSIFICATION DESCRIPTION EXPLOSIVE, NOI NMFC 64300 SUB 1	

SECTION II - TO BE COMPLETED BY EACH PERSON ACCEPTING CUSTODY OF CLASSIFIED OR PROTECTED MATERIAL REQUIRING THE USE OF TRANSPORTATION PROTECTIVE SERVICE DURING TRANSIT

16. CUSTODY RECORD				
PRINT NAME OF PERSON AND COMPANY REPRESENTED <small>a.</small>	STATION INTERCHANGE POINT DESTINATION <small>b.</small>	SIGNATURE OF PERSON ACCEPTING CUSTODY <small>c.</small>	TIME ACCEPTED <small>d.</small>	DATE ACCEPTED (YYYYMMDD) <small>e.</small>
John Wilson	LCAAP		0900	2008/11/25
Debbie Wilson	LCAAP		0900	2008/11/25

**Domestic Bilateral
PROPRIETARY INFORMATION EXCHANGE AGREEMENT
between**

**Alliant Techsystems Inc. and Affiliates and Explos Systems, Inc.
for the Demilitarization of Conventional Ammunition Program**

This AGREEMENT is made and entered into by and between EXPLO Systems, Inc., having a place of business in 1600 Java Road, Minden, LA 71055 ("hereinafter referred to as "EXPLO"), and the following divisions of ALLIANT TECHSYSTEMS INC.: Small Caliber Systems, having a place of business in Hwys 7 & 78, P.O. BOX 1000, Independence, MO 64051-1000 (hereinafter referred to as "ATK-SCS") and Advanced Weapons, having a place of business in 4700 Nathan Lane North, Plymouth, MN 55442 (hereinafter referred to as "ATK-AWD").

WITNESSETH THAT:

WHEREAS, both parties for their mutual benefit are desirous of exchanging and disclosing certain information and ideas relative to the Demilitarization of Conventional Ammunition Program, (hereinafter referred to as "PROGRAM").

NOW, THEREFORE, EXPLO, ATK-SCS and ATK-AWD do mutually agree that any information received by one party from the other shall be governed by the following:

1. DEFINITIONS

Proprietary information shall mean written technical and financial information, or other information applicable to the PROGRAM (hereinafter referred to as "DATA"), which the disclosing party desires to protect from unauthorized disclosure or use, and shall include: (1) that DATA which either party designates as proprietary information in writing or by appropriate stamp or legend to the other party, and (2) that DATA which either party orally discloses to the other party and which is reduced to writing within thirty (30) days and stated by the disclosing party in writing to be considered Proprietary, submitted under this AGREEMENT, which relates to the PROGRAM. Such Proprietary information shall not include DATA which:

- a. Was not specifically designated in writing as Proprietary; or
- b. Was in the receiving party's possession or was known to the party receiving it prior to its receipt from the other party; or
- c. Was independently developed by the receiving party without the utilization of such DATA of the other party; or
- d. Is or becomes public knowledge without the fault of the receiving party; or
- e. Is or becomes available to the receiving party from a lawful source other than the disclosing party; or
- f. Is or becomes available on an unrestricted basis to a third party by authorization of the disclosing party; or

- g. Is received by the receiving party after written notification to the disclosing party that the receiving party will not accept any further DATA; or
- h. Is approved for release or use by written authorization of the disclosing party.
- i. Is required to be disclosed under the order of a court of competent jurisdiction, provided the receiving party promptly notifies the disclosing party of such order and the disclosing party has an opportunity to oppose such disclosure.

2. **HANDLING OF PROPRIETARY INFORMATION**

A party receiving DATA from the other agrees to treat such DATA as proprietary for a period of Five (5) year(s) from the date received and will handle such DATA with the same degree of care it uses to handle its own proprietary information, but no less than reasonable care, and such information shall not be duplicated, used or disclosed, in whole or in part, other than for internal purposes, and then only to those persons having a "need to know." However, the receiving party may incorporate such DATA in proposal(s) and/or contract documentation item(s) to/with the United States Government provided the DATA is submitted and marked in accordance with the provisions of Federal Acquisition Regulation (FAR) 52.215-1 and/or the provisions of Department of Defense FAR Supplement (DFARS) 252.227-7013. There shall be no restrictions on the handling of DATA which is not appropriately marked as herein provided.

3. **LIMITATION ON DISCLOSURE**

A party receiving DATA from the other shall use reasonable efforts not to divulge, in whole or in part, such DATA to any third party without the prior written consent of the disclosing party, but only to the extent and during the period of time that such DATA is to be treated as proprietary under the foregoing provisions of this AGREEMENT. Neither party shall be responsible, however, for unauthorized disclosure of DATA by persons who are or who have been in its employ unless such party has failed to treat such DATA as proprietary and handle such DATA with the same degree of care it uses to handle its own proprietary information.

4. **LIMITATION ON USE**

A party receiving DATA from the other shall make no commercial use, in whole or in part, of any DATA without the prior written consent of the disclosing party, but only to the extent and during the period of time such information is to be treated as proprietary under the foregoing provisions of this AGREEMENT. Upon termination or expiration of this AGREEMENT and if requested by the disclosing party, all DATA disclosed by the disclosing party and all copies thereof shall be returned or destroyed with a written certificate of destruction provided by the receiving party; except one copy may be kept for archival purposes.

5. **TERM**

This AGREEMENT shall terminate Five (5) year(s) from the effective date of this AGREEMENT unless extended or modified in writing signed by the parties hereto. This AGREEMENT may be terminated by either party by thirty (30) days advance written notice to the other party or by mutual agreement in writing. However, the parties' obligations with respect to DATA disclosed to it prior to termination shall not be affected.

6. **RELATIONSHIP OF PARTIES**

Nothing in this AGREEMENT shall grant to either party the right to make commitments of any kind for or on behalf of the other party. This AGREEMENT shall not constitute a joint venture or partnership as between the parties; nor shall anything in this AGREEMENT be construed to permit **EXPLO**, ATK-SCS and ATK-AWD to utilize any of the DATA which is provided for purposes other than that set out in Paragraph 2 above.

7. **CHARGES**

EXPLO, ATK-SCS and ATK-AWD shall perform their respective obligations hereunder without charge to the other.

8. MUTUAL DISCLAIMERS

No rights or obligations other than those expressly recited herein are to be implied from this AGREEMENT. In particular, no license or right is hereby granted directly or indirectly under any patent, trademark, copyright, trade secret, or know-how now held by, or which may be obtained by, or which is or may be licensable by either party. The party disclosing DATA hereunder makes no representation, express or implied, as to adequacy, sufficiency or freedom from fault of the same, and incurs no responsibility or obligation by reason thereof. Neither party shall be liable to the other for any cost, expense, or risk of liability arising out of efforts of the other party in connection with performance of this AGREEMENT.

9. MANAGEMENT OF DATA

All notices including the transmission and receipt of all DATA exchanged between the parties shall be given by letter addressed, except as each party may change in writing the designation pursuant hereto, as follows:

SMALL CALIBER SYSTEMS,
A division of ALLIANT TECHSYSTEMS, INC.
P.O. BOX 1000
HWYS 7 & 78
INDEPENDENCE, MO 64051-1000

Advanced Weapons Division,
A division of ALLIANT TECHSYSTEMS INC
4700 Nathan Lane North
Plymouth, MN 55442

ATTENTION: John McCollum

ATTENTION: David Belasco

PHONE: (816)796-4616

PHONE: (763) 744-5397

E-MAIL: john.mccollum@atk.com

E-MAIL: david.belasco@atk.com

EXPLO SYSTEMS, INC.
1600 Java Road
Minden, LA 71055

ATTENTION: Ken Lampkin

PHONE: (318) 382-8700

E-MAIL: kenlmapkin@explosystems.com

10. GOVERNING LAW

This AGREEMENT shall be governed by and construed in accordance with the laws of the State of Minnesota.

11. SECURITY REQUIREMENTS

Any United States (U.S.) classified information/material and any controlled unclassified information exchanged under this AGREEMENT shall be protected in accordance with the U.S. Department of Defense National Industrial Security Program Operating Manual, NISPOM (DoD 5220.22-M).

12. ASSIGNMENT

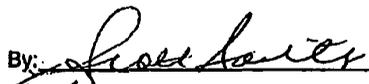
Neither this AGREEMENT, nor any interest herein, may be assigned, in whole or in part, by either party without the prior written consent of the other party hereto, except that without securing such prior consent, either party shall have the right to assign this AGREEMENT to any successor which results from a merger, consolidation, spin-off, or the acquisition of substantially all of the entire business and assets of that party relating to the subject matter of this AGREEMENT, provided, however, that such successor shall have expressly assumed all of the obligations and liability of such party under this AGREEMENT, and such successor is not a competitor to the other party on the PROGRAM.

13. EXPORT CONTROL

Technical data as defined in the International Traffic in Arms Regulation (22 CFR Parts 120 - 130 et. seq.) or technology as defined in the Export Administration Regulations (15 CFR Parts 730 - 774 et. seq.) of the United States may be provided to the participant by the disclosing party under this agreement. Such technical data or technology provided to the participant may not be transferred, transshipped on a non-continuous voyage, or otherwise be disposed of in any other country, either in its original form or after being incorporated into other end items, without the prior written approval of the U.S. Department of State or U.S. Department of Commerce as applicable. Each party agrees to indemnify the other for all claims, demands, damages, costs, fines, penalties and other expenses arising from that party's failure to comply with this clause and applicable statutes and regulations

IN WITNESS WHEREOF, the parties have caused this AGREEMENT to be executed and effective when signed by both parties.

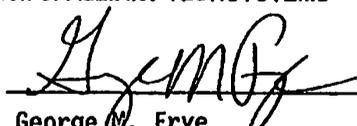
SMALL CALIBER SYSTEMS,
A division of ALLIANT TECHSYSTEMS, INC.

By: 
Mark Hissong
[print name]

Title: Vice President & General Manager

Date: _____

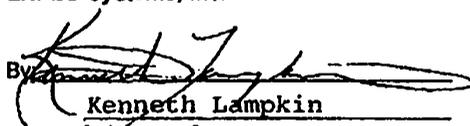
ADVANCED WEAPONS,
A division of ALLIANT TECHSYSTEMS

By: 
George M. Frye
[print name]

Title: Director of Contracts

Date: 6 May 2010

EXPLO Systems, Inc.

By: 
Kenneth Lampkin
[print name]

Title: Program Manager

Date: 12 April 2010

Switzer, Tim

From: Romesburg, Dave
Sent: Tuesday, August 03, 2004 10:02 AM
To: Switzer, Tim
Subject: RE: TPL--Disposal of Powder

Price has not been firmed up yet, I'll check on it. Keep in mind, Thaddeus will be providing a "recommendation" for shipping classification, this letter then goes to DOT for actual classification & an authorization to ship. That will take another 3-4 weeks.

Dave

-----Original Message-----

From: Switzer, Tim
Sent: Tuesday, August 03, 2004 7:35 AM
To: Romesburg, Dave
Subject: RE: TPL--Disposal of Powder

Dave:

We have heard back from Thaddeus...our powder may get a classification of 1.4 with a higher moisture content than what we have shipped in the past. Has a price been firmed-up to either TPL or Explo?

-----Original Message-----

From: Romesburg, Dave
Sent: Wednesday, July 21, 2004 1:37 PM
To: Finkbner, John
Cc: Switzer, Tim
Subject: RE: TPL--Disposal of Powder

Thanks, for the update...keep me posted, please.
Dave

-----Original Message-----

From: Finkbner, John
Sent: Wednesday, July 21, 2004 1:24 PM
To: Romesburg, Dave
Subject: RE: TPL--Disposal of Powder

Dave -

I called TPL about their lack of response to the revised RFQ. They told me the fax number I used went to their corporate office not the plant. #%%\$% I re-sent it to the "correct" number a few minutes ago. We should know something shortly.

I also talked to our environmental engineers about Explo. If Explo is the company with the best offer, they want to visit their plant before contract award is made.

John

-----Original Message-----

From: Romesburg, Dave
Sent: Wednesday, July 21, 2004 12:40 PM
To: Finkbner, John
Subject: RE: TPL--Disposal of Powder

John,

What's the latest on the quotes? I have my sample being tested at Safety Mgmt. for DOT shipping classification, as soon as that's approved, we will be ready to "sell" some powder.

Dave

-----Original Message-----

From: Finkbner, John
Sent: Thursday, July 08, 2004 5:21 AM
To: Romesburg, Dave

Subject: RE: TPL--Disposal of Powder

Dave -

Have you gotten your yearly quantities yet? I want to get this order in place as soon as possible due to Lake City having 60,000 lbs of material in house right now that needs a home.

Thank you,

John Finkbiner

-----Original Message-----

From: Romesburg, Dave
Sent: Thursday, July 01, 2004 9:50 AM
To: Finkbiner, John
Subject: RE: TPL--Disposal of Powder

Fax:208-746-8275.

It may get us a little better deal with combined quantities, I'll get our estimated yearly quantities & get back with you. How much will you be sending them?

Dave

-----Original Message-----

From: Finkbiner, John
Sent: Thursday, July 01, 2004 7:22 AM
To: Romesburg, Dave
Subject: RE: TPL--Disposal of Powder

Dave -

Give me your fax number and I'll fax you the price quote I received from them. We don't have any agreements with them at this time. We will pay them \$1.19 per lbs to recycle the scrap powder. This price includes freight. We received a price quote from EXPLO Systems for the same work but their price was \$1.22 with us paying the freight. Before I place my order maybe we need to see if there is some sort of savings by both of us using them. What do you think?

John

-----Original Message-----

From: Romesburg, Dave
Sent: Thursday, July 01, 2004 9:15 AM
To: Smith, Larry
Cc: Finkbiner, John
Subject: RE: TPL--Disposal of Powder

Thanks, we're looking at using them here in Lewiston. John, do you have some kind of agreement with them, are they paying you for the powder or are you paying them, how much, etc. Any info you can provide me?

Dave

-----Original Message-----

From: Smith, Larry
Sent: Thursday, July 01, 2004 4:41 AM
To: Romesburg, Dave
Cc: Smith, Larry
Subject: TPL--Disposal of Powder

see below

-----Original Message-----

From: Finkbner, John
Sent: Thursday, July 01, 2004 6:35 AM
To: Smith, Larry
Subject: RE:

Yes. TPL is the company that offered the lowest price for servicing the scrap powder. Our environmental engineering dept has been in contact with them and has approved their process and end use.

John

-----Original Message-----

From: Smith, Larry
Sent: Wednesday, June 30, 2004 5:28 PM
To: Finkbner, John
Subject: FW:

Is this the vendor you are working with for the disposal of the powder?

Larry

-----Original Message-----

From: Romesburg, Dave
Sent: Wednesday, June 30, 2004 5:18 PM
To: Smith, Larry
Subject:

Larry,
Do you use TPL to dispose of reclaimed powder?

I spoke with Mark Lillie today, he said that normally the Purchasing department will send a request for quotation (RFQ) for cost to use our recycle our reclaimed powder. I guess that we need some kind of statement from TPL about who they are and what they plan to do with our material. Lake City is already using TPL, and their Purchasing folk should know what's involved. Mark Lillie said that Lake City is currently paying \$1.19/# and this includes shipping (which TPL arranges)...TPL can handle shipping arrangements or we can.

Dave Romesburg
Materials Manager
ATK - CCI/SPEER
P.O. Box 856
Lewiston, Idaho 83501
Ph: (208)799-3294 Fax: (208)746-8275
email: dave.romesburg@atk.com



Fax Cover Sheet

TO:	John Finkbiner / Alliant Lake City	FROM:	David Smith
FAX:	816-796-7224	DATE:	July 19, 2004
TEL:	816-796-7225	PAGE(S):	1
RE:	Revision on Request for Quote	CC:	

Message:

Mr. Finkbiner,

Revision to ATK's request for quote for scrap powder recycling.

Per your revised quotation dated 7/15/04, price quote for transportation and recycling services : \$.935 per lbs.

If you have any questions, please call me at 318-382-8700. Thank you.

Regards,
David Smith /ns
 David Smith
 Explo Systems, Inc.

TECHNICAL CUY
 DAVE FINCHER
 DPFINCHER@BELLSOUTH.NET

ATK PURCHASING

19 JUL '04

PM 12:32



Technologies to Products - on the Leading edge

July 22, 2004

Request for Revised Quotation Dated 7/16/04

John B. Finkbiner
Alliant Techsystems
Alliant Lake City Small Caliber Ammunition Company LLC
Lake City Army Ammunition Plant
P.O. Box 340
Independence MO. 64051-0340

Dear Mr. Finkbiner,

Thank you for the opportunity to quote the additional propellant recycling volume from your Lewiston location. Unfortunately, the smaller volumes produced at the Lewiston plant significantly increase the transportation cost per pound of recycled propellant. Thus, the cost to recycle the Lewiston propellants actually increases to \$1.36 per pound.

TPL is pleased to quote your requirement for out-processing this additional propellant powder at a price of \$1.36 per pound subject to the following conditions.

1. TPL will arrange transportation from Lewiston ID at TPL's expense. TPL will schedule a drum that will hold up to 4 pallets. Alliant Techsystems (ATK) will load the drum and prepare all necessary shipping paper work at its own expense. ATK will not detain trucks for longer than 2 hours. The minimum net weight (propellant and water) will not be less than 4,000 pounds per load.
2. The price of \$1.36 per pound is per pound of total net weight including the propellant powders and water. ATK will not include any other materials (including, but not limited to gloves, wipes, etc.).
3. ATK will package the propellant (and water) in containers that are mutually agreeable to both TPL and ATK.
4. TPL is preparing this quotation without the benefit of prior test samples. TPL may cancel this agreement if, after receiving the first load, the material is found to be unsatisfactory for the intended process.

This quotation is specific to the additional material from ATK's Lewiston ID plant. The pricing and terms quoted for recycling propellant from Lake City remain unchanged.

Best Regards,


Mark E. Lillie
TPL Inc.

Finkbiner, John

From: Beck, Denise
Sent: Wednesday, August 11, 2004 7:44 AM
To: Finkbiner, John
Cc: Herman, Tom
Subject: Audit at Explosystems, Inc.

John,

I visited Explosystems, Inc. facility in Minden LA. Upon evaluation the facility's proposed use of our scrap propellant powder along with associated storage and handling of the material appeared satisfactory and recommend that we proceed with the purchase order. If you have any questions please let me know. Thank you.

Denise

Switzer, Tim

From: Bieren, Carrie
Sent: Wednesday, August 18, 2004 12:58 PM
To: Hill, Tom; Luthy, Brian; Stamper, Charlie; Bakker, Pete; Keys, Lenny; Cramer, Rick
Cc: Switzer, Tim; VonLindern, Mark
Subject: Propellant Powder

Importance: High

All,
Effective today, our scrap propellant powder has been reclassified from a hazardous waste to a recyclable material. In order to ensure the integrity of this material we must guarantee that there will be absolutely no debris in the powder, specifically metal debris of any kind. Please pass this information on to your folks who handle the scrap powder in your areas.

Please let us know if you have any questions or concerns. Thank you.

Carrie Bieren
Coordinator
Environmental Services
CCI/SPEER Operations
Ammunition Accessories Inc.
Ammunition & Related Products
ATK (Alliant Techsystems)
ext. 2337
Tel 208-799-3955
Fax 208-799-3921

Switzer, Tim

From: Beck, Denise
Sent: Friday, September 03, 2004 12:14 PM
To: Switzer, Tim
Subject: RE: Propellant Powder Reuse

Tim,

I am sorry this e-mail got buried in my inbox. Just in case you haven't contacted Explo Systems, Inc. yet...Contact is David Smith at 318-382-8700. Our powder is dry, so I don't know about wet powder.

We just shipped our first load to Explo earlier this week. Hope everything works out on your end.

Denise

-----Original Message-----

From: Switzer, Tim
Sent: Tuesday, August 17, 2004 7:24 PM
To: Beck, Denise
Subject: RE: Propellant Powder Reuse

Denise:

I have had no contact with Explo, Inc., but I understand that they have the best price and that you have been to their facility. Can you tell me whether they can handle wet powder (60-65% solids)? I could also use a contact name. I hope all is well with you. Take care.

Tim Switzer
Environmental Supervisor
ATK (Alliant Techsystems)
Ammunition Accessories Inc.
CCI/Speer Operations
Office Phone 208/799-3585
Cellular 208/305-9285
Fax 208/799-3921

Switzer, Tim

From: Romesburg, Dave
Sent: Thursday, December 02, 2004 6:30 PM
To: Switzer, Tim
Subject: RE: Any News...?

Can we wait until you have around 250 drums, for freight purposes?

-----Original Message-----

From: Switzer, Tim
Sent: Wednesday, December 01, 2004 9:58 AM
To: Romesburg, Dave
Subject: RE: Any News...?

Dave:

We have 180 drums of powder to ship now.

-----Original Message-----

From: Romesburg, Dave
Sent: Tuesday, November 30, 2004 2:09 PM
To: Switzer, Tim
Subject: RE: Any News...?

I haven't seen your requisition, yet? When do you want to ship? How much?

-----Original Message-----

From: Switzer, Tim
Sent: Tuesday, November 30, 2004 1:29 PM
To: Romesburg, Dave
Subject: Any News...?

Dave:

Any news on the reclaimed powder shipment date?

Tim Switzer
Environmental Supervisor
ATK (Alliant Techsystems)
Ammunition Accessories Inc.
CCI/Speer Operations
Office Phone 208/799-3585
Cellular 208/305-9285
Fax 208/799-3921



Fax Cover Sheet

Type 1st line of address here
Type 2nd line of address here

DATE: 1/17/06	TIME	PAGES TO FOLLOW: 1	<input type="checkbox"/> URGENT
TO: Nita		COMPANY: Explo	
ADDRESS			
TELEPHONE		FAX: 318/382-8434	
FROM: Tim Switzer		TELEPHONE	FAX
NOTE: IF YOU DID NOT RECEIVE A CLEAR TRANSMISSION, PLEASE CALL THE SENDER			
COMMENTS: Nita: We do not have an MSDS for this material, however I'm attaching the DOT classification for this. Hope it helps. Tim			

Session B - [24 x 80]

File Edit View Communication Actions Window Help

PL500 ATK Civil Ammo and Related P

Supplier Inquiry - Payment History

Account code ? 0205680 EXPLO SYSTE

Currency ? _____

Item details _____

Item transactions _____

Ref #: _____

Inv #: _____

	References	Txt	Docu/Due
1	PY	20168346	2/15/06
		Paid by chk 00036115	2/15/06
2	PY	20120556	4/04/05
		Paid by chk 00029882	4/04/05

F3=Exit F4=Prompt F5=0
F7=Cash flow F8=Recur payments F10=

ATK

CCI/Speer Operations
 PO Box 856
 Lewiston, ID 83501
 208 746 2351 FAX 208 746 8275

Debit Memo
 Invoice
 Shipping Order

Number: **1103**

PURCHASED FROM:

SHIP TO:
 EXPLO SYSTEMS
 1702 FOURTH STREET
 MINDEN, LA 71055

P O Number/Date: Vendor Invoice Number/Date: Return Authorization: Reference w/7's: Date:
 C066795 D. Romesburg 1/12/2006

Quantity	Description	Unit Price	Dollar Amount
9,100 LBS	Substances, Explosive, N.O.S., UN0479, UN Class = 1.4C/ EX2004110197, Wetted, Double Base Smokeless Powder		
	260 Drums @ 35 lbs. Ea NET WT 220 4516 6035 WT/DRUM		
	ATK CCI/SPEER TAPE SEAL # 104199		
	TOTAL:		

Handwritten notes:
 JEAN HARDAGE
 \$360/4
 \$45,090
 \$11,836
 \$33,254
 \$5,000 x 3 (SHIPPING)

Shipping Order-Straight Bill of Lading-Short Form Original-Not Negotiable RECEIVED Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below, in apparent good order, except as noted (contents and condition of contents of packages, unknown) marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any said property formed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or rail water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Account #:

# of Pkgs	Type of Package	Weight
260	PIPER DRUM	11,200
15	WOOD PALLET	375
	Total Weight	12,075

Carrier's Signature:

P/P SP
 Collect Dest

Value: Ship Via:

Date Shipped

This is to certify that the above-named material is properly classified, described, packaged, marked and labeled and is in proper condition for transportation to the applicable regulations of the Department of Transportation.

By:

Original: Vendor Copies: 2-Accounting, 1-Purchasing, 1-Shipping, 1-Carrier, 1-Packing List

EMERGENCY CONTACT:
 MANN VAN LINDSEAN 208/746-2351

Switzer, Tim

From: Kempster, Pam
Sent: Monday, May 15, 2006 3:43 PM
To: Switzer, Tim
Subject: RE: Powder Recycling

below is payment history

PL500 ATK Civil Ammo and Related Prod

Supplier Inquiry - Payment History

Account code ? 0205680 EXPLO SYSTEMS
Currency ? _____ Lo
Item details _ Le
Item transactions _ Co

Ref #: _____ Inv #: _____

References	Txt	Docu/Due	
1	PY 20168346	2/15/06	
	Paid by chk 00036115	2/15/06	
2	PY 20120556	4/04/05	
	Paid by chk 00029882	4/04/05	

F3=Exit F4=Prompt F5=Cont
F7=Cash flow F8=Recur payments F10=Tex

From: Switzer, Tim
Sent: Monday, May 15, 2006 9:36 AM
To: Kempster, Pam
Subject: Powder Recycling

Pam:
I know we shipped powder to Explo Systems in Feb. '06...did we get billed for any shipments in calendar year '05?

Tim Switzer
Environmental Supervisor
ATK (Alliant Techsystems)
Ammunition Accessories Inc.
CCI/Speer Operations
Office Phone 208/799-3585
Cellular 208/305-9285
Fax 208/799-3921

EXPLO

SYSTEMS, INC.
1702 Fourth Street - Minden, LA 71055

DATE	INVOICE #
2/28/2005	1445

BILL TO
CCI/SPEER 2299 Snake River Ave Lewiston, ID 83501

SHIP TO
CCI/SPEER 2299 Snake River Ave Lewiston, ID 83501

P.O. NO.	TERMS	SHIP DATE	SHIP VIA	FOB	PROJECT
C048847	Net 30	2/28/2005			
QUANTITY	DESCRIPTION			RATE	AMOUNT
10,160	(Lbs) RECLAIMED PROPELLANT			0.935	9,499.60
Total					\$9,499.60



Fax Cover Sheet

TO: Dave Romesburg / CCR/SPEER

FROM: Nita Singer

FAX: 208-746-8275

DATE: March 1, 2005

TEL:

PAGE(S): 3

RE: Invoice

CC:

Message:

Shipment for the Reclaimed Propellant was received yesterday, Feb 28, 2005.

Attached is Invoice #1445 - \$9,499.60 for 10,160 lbs.

The original invoice will be mailed to your accounts payable dept. today.

Any questions, call 318-382-8700.

Nita Singer *Nita*
Office Manager
Explo Systems, Inc.

DAVE ROMESBURG 799
VENDOR DELIVERY SP

2/15/05 Page 1
NET 30 DAYS

★ C048847

EXPLO SYSTEMS
1702 FOURTH STREET
MINDEN
LA

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

71055

1	10000.000 POUNDS	RECLAIMED PROPELLANT per POUNDS	.93500
	*****		9,350.00
	8070566687	Ammo Reclamation	2/23/05
		RECLAIMED 1.4C DOUBLE BASE PROPELLANT	
		(FOR RECYCLE)	

per Dave

3-1005

PKV

Total Stockroom Value: (Dollars)	9,350.00
Total This PO: (Dollars)	9,350.00

SHIPPING ORDER #274
CONFIRMING TO DAVID SMITH

X



PURCHASE ORDER

NUMBER ~~0~~C048847 - 1 PAGE: 1

ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

SALES TAX EXEMPT
NO. 001042008-S

PURCHASE ORDER NUMBER
MUST APPEAR ON ALL PACKAGES,
BILLS OF LADING AND INVOICES

208 746 2351
FAX 208 746 8275

NORMAL RECEIVING HOURS
6:00 A.M. - 3:00 P.M.
MONDAY THUR THURSDAY

VENDOR

EXPLO SYSTEMS
1702 FOURTH STREET
MINDEN
LA

SHIP TO

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

71055

VENDOR	SHIP VIA	FOB	TERMS	ORDER DATE	DATE REQUIRED
80205680	VENDOR DELIVERY	SP	NET 30 DAYS	2/15/05	SEE BODY
ITEM	QUANTITY	DOM	PART NUMBER / DESCRIPTION	DUE DATE	UNIT COST

1	10000.0	LB	RECLAIMED PROPELLANT RECLAIMED 1.4C DOUBLE BASE PROPELLANT (FOR RECYCLE)	2/23/05	.93500 LB
---	---------	----	--	---------	--------------

SHIPPING ORDER #274
CONFIRMING TO DAVID SMITH

COST NOT TO EXCEED: 9350.00

Refer questions to: DAVE ROMESBURG 799-3294

BY David Shiley
Ammunition Accessories Inc.

THIS ORDER IS ACCEPTED SUBJECT TO BUYER'S CONDITIONS ON BOTH SIDES HEREOF.
The seller shall comply with all applicable U.S. export control laws in receiving, utilizing and/or disposing of any articles, technical data and/or services provided by the Buyer in connection with this Order, and in transferring or otherwise disposing of any articles, technical data and/or services developed or produced therefrom by the Seller. As provided in the terms and conditions for this Order, no technical data or other items provided by Buyer or developed or produced by the Seller may be exported, transferred or disclosed outside the United States or to any foreign person, unless the Buyer provides written consent and the Seller obtains all required export licenses and/or other approvals from the United States Government.
For export compliance purposes, the Seller shall obtain approval (written or verbal) from the Buyer prior to providing any personnel who are not U.S. Citizens.*



Mar 01 05 10:19a

Minden, LA

318-382-8434

P. 3

A&K
CCI/Speer Operations
PO Box 856
Lewiston, ID 83501
208 746 2351 FAX 208 746 8275

Debit Memo
Invoice
Shipping Order

Number: **274**

PURCHASED FROM:

SHIP TO:
EXPLO SYSTEMS
1702 FOURTH STREET
MINDEN LA 71055

Tr2 48611
W02 146210

P O Number/Date: **C048847** 2/16/2005 Vendor Invoice Number/Date: Return Authorization: **DAVID SMITH** Reference w/7's: **D. Romesburg** Date: **2/16/2005**

Quantity	Description	Unit Price	Dollar Amount
250 drums	Substances, Explosive, N.O.S., UN0479, UN Class = 1.4C/ EX2004110197, Wetted, Double Base Smokeless Powder Drums - 45 lb/ea gross 40 lb/ea net <i>10,000 NET</i>		
<i>William C. Cox</i> <i>2-28-05</i>			
TOTAL:			

throughout this contract as meaning any person or corporation in possession of the property under the contract agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any said property named hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or rail water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

45# GROSS/PACKAGE

Account #: **807056687**

254

# of Pkgs	Type of Package	Weight
<i>254</i>		<i>40# NET</i>
Total Weight		<i>10160 NET</i>

Carrier's Signature: *[Signature]*

P/P SP
Collect Dest

Value: **\$0.00** Ship Via: **VENDOR TRUCK**

Date Shipped: **2-24-05**

This is to certify that the above-named material is properly classified, described, packaged, marked and labeled and is in proper condition for transportation to the applicable regulations of the Department of Transportation.

By: *Susan Munden*

Original: Vendor Copies: 2-Accounting, 1-Purchasing, 1-Shipping, 1-Carrier, 1-Packing List

PURCHASE ORDER NUMBER
CC48847

DEPARTMENT
7056

ACCOUNT NUMBER
1/2 6687
1/2 6688

VERBAL ORDER GIVEN TO - DATE
DAVID SMITH
2-15-05

FOR
Explo Systems
1702 Fourth St.
MINDEN, LA. 71055
PH - 718-382-8700
FAX - 318-382-8024
TERMS N-30
FOB SP
SHIP VIA VENDOR TRUCK
VENDOR NO. 80705680

REQUISITIONER - Please Complete Shaded Areas MINORITY

SUGGESTED SUPPLIER
Explo

TO BE USED FOR DELIVER TO

QUANTITY	UNIT	PART NO.
10,000		RECLAIMED
10,000	lb	RECLAIMED / PROPELLANT
		PROPELLANT
		PROPELLANT
		PROPELLANT

part 8070566687
no charge acct on
PO
in internal test - part
1/2 - 8070566687
1/2 - 8070566688
Nothing on the bottom part
is included in PO except
S/O #

LINDA
3/14/05
S/O
P.O.

(250 DRUMS AT 45 lb/EA GROSS
40 lb/EA NET)

SHIP AS: SUBSTANCES, explosive, n.e.s., UN0479
UN CLASS: 1.4C / EX2004110197

SPECIAL INSTRUCTIONS
wetter, double base smokeless powder
KEY PUNCHED

REQUISITIONED BY
APPROVED BY
PURCHASING AGENT

FEB 16 2005

NOTICE: IF YOU KNOW THAT CERTAIN ITEMS BEING REQUISITIONED COME FROM DIFFERENT SUPPLIERS, OR FROM DIFFERENT SHIPPING POINTS PLEASE USE SEPARATE REQUISITIONS FOR THESE ITEMS.

PURCHASING COPY

BEST WAY DAVE ROMESBURG 799
SP

1/12/06

C066795
Page 1
NET 30 DAYS

EXPLO SYSTEMS
1702 FOURTH STREET
MINDEN
LA

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

71055

1 9100.000 POUNDS PROPELLANT POWDER per POUNDS .93500
***** 8,508.50
7056 Ammo Reclamation 1/17/06
RECLAIMED PROPELLANT POWDER FOR RECYCLE
(1.4 C DOUBLE BASE POWDER)

per DR

Total Stockroom Value: (Dollars) 8,508.50
Total This PO: (Dollars) 8,508.50

SHIPPING ORDER 1103

CONFIRMING TO DAVE

*Explo
No invoice*

ATK
 CCI/Speer Operations
 PO Box 856
 Lewiston, ID 83501
 208 746 2351 FAX 208 746 8275

Debit Memo
 Invoice
 Shipping Order

Number: 1103

PURCHASED FROM:

SHIP TO:
 EXPLO SYSTEMS
 1702 FOURTH STREET
 MINDEN, LA 71055

P O Number/Date: C066795 Vendor Invoice Number/Date: Return Authorization: Reference w/7's: D. Romesburg Date: 1/12/2006

Quantity	Description	Unit Price	Dollar Amount
9,100 LBS	Substances, Explosive, N.O.S., UN0479, UN Class = 1.4C/ EX2004110197, Wetted, Double Base Smokeless Powder <i>NET WT</i> 260 Drums @ 35 lbs. Ea 270 45 lb GROSS WT/DRUM		
TOTAL:			

COPY

COPY

ATK CCI/SPEER TAPESEAL # 04199

Shipping Order-Straight Bill of Lading-Short Form Original-Not Negotiable RECEIVED Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below, in apparent good order, except as noted (contents and condition of contents of packages, unknown) marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract to mean any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery of said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any said property formed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or rail water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Account #: 807056690

Carrier's Signature:

# of Pkgs	Type of Package	Weight
260	FIBER DRUMS	11,700
15	WOOD PALLET'S	375
Total Weight		12,075

PIP SP
 Collect Dest

Value: Ship Via:
 VENDOR TRUCK

Date Shipped: 1/17/06

This is to certify that the above-named material is properly classified, described, packaged, marked and labeled and is in proper condition for transportation to the applicable regulations of the Department of Transportation.

By: *[Signature]*

Original: Vendor Copies: 2-Accounting, 1-Purchasing, 1-Shipping, 1-Carrier, 1-Packing List



80205680
9/8

DATE	INVOICE #
8/8/2006	1732

BILL TO
CCI/SPEER 2299 Snake River Ave Lewiston, ID 83501

SHIP TO
CCI/SPEER 2299 Snake River Ave Lewiston, ID 83501

P.O. NO.	TERMS	SHIP DATE	SHIP VIA	FOB	PROJECT
C078912	Net 30	8/8/2006	R & R		
QUANTITY	DESCRIPTION		RATE	AMOUNT	
10,675	(Lbs) RECLAIMED PROPELLANT (305 Drums Received)		0.935	9,981.13	
	50% 7056 6687 4990.52 7056 6688 4990.55				
				Total	\$9,981.13

RECEIVED
AUG 14 2006

TRUCK DAVE ROMESBURG 799
SP

C078912
8/03/06 Page 1
NET 30 DAYS

EXPLO SYSTEMS
1702 FOURTH STREET
MINDEN
LA

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

71055

1 10500.000 LB RECYCLE per LB .93500
***** 9,817.50
7056

Ammo Reclamation 8/08/06
RECLAIMED PROPELLANT POWDER FOR RECYCLE
(1.4C DOUBLE BASE POWDER)

en OR
8-24-06
PK

Total Stockroom Value: (Dollars) 9,817.50
Total This PO: (Dollars) 9,817.50

SHIPPING ORDER #1654
(300 DRUMS AT 35 LB EACH)
CONFIRMING TO DAVE

Romesburg, Dave

From: Romesburg, Dave
Sent: Friday, August 04, 2006 11:10 AM
To: 'davidalansmith@bellsouth.net'
Subject: RE: RE: FW: Need to Ship Reclaimed Powder to Explo

Dave,
Use PO C078912 for this shipment. Will R&R call us and confirm date & time for pick-up?
We're planning on Aug. 8, unless we hear differently.
Thanks,
Dave

-----Original Message-----

From: davidalansmith@bellsouth.net [mailto:davidalansmith@bellsouth.net]
Sent: Thursday, August 03, 2006 12:59 PM
To: Romesburg, Dave
Subject: RE: RE: FW: Need to Ship Reclaimed Powder to Explo

Dave: R & R's freight charge is \$5811.45 including fuel surcharge. Our charge is \$.935 per lb.

Thanks,

Dave

>
> **From:** "Romesburg, Dave" <Dave.Romesburg@ATK.com>
> **Date:** 2006/08/03 Thu AM 11:52:20 EDT
> **To:** <davidalansmith@bellsouth.net>
> **Subject:** RE: RE: FW: Need to Ship Reclaimed Powder to Explo

> OK, thanks. Prices, please...?

> -----Original Message-----

> **From:** davidalansmith@bellsouth.net
> [mailto:davidalansmith@bellsouth.net]
>
> **Sent:** Thursday, August 03, 2006 7:26 AM
> **To:** Romesburg, Dave
> **Subject:** Re: RE: FW: Need to Ship Reclaimed Powder to Explo

> Dave: R & R will pick up on August 8th. It will help you to ship
> every drum that you have on this truck, it will hold quite a bit more
> than 280 drums.

> Thanks,

> Best Regards,

> Dave Smith

> > **From:** "Romesburg, Dave" <Dave.Romesburg@ATK.com>
> > **Date:** 2006/08/02 Wed PM 12:52:27 EDT
> > **To:** <davidalansmith@bellsouth.net>
> > **Subject:** RE: FW: Need to Ship Reclaimed Powder to Explo

> > R & R would be fine...thank you.

> > -----Original Message-----

> > **From:** davidalansmith@bellsouth.net
> > [mailto:davidalansmith@bellsouth.net]
> >
> > **Sent:** Wednesday, August 02, 2006 9:48 AM
> > **To:** Romesburg, Dave

> > Subject: Re: FW: Need to Ship Reclaimed Powder to Explo
> >
> > Dave: You can ship anytime that you can arrange transportation. If
> > you want us to schedule with R & R just let me know. Hope you are
> > keeping cool, it has been a bear of a summer in Louisiana.

> > Best Rgards,

> > Dave

> > >
> > > From: "Romesburg, Dave" <Dave.Romesburg@ATK.com>
> > > Date: 2006/08/02 Wed AM 11:18:03 EDT
> > > To: <davidalansmith@bellsouth.net>
> > > Subject: FW: Need to Ship Reclaimed Powder to Explo

> > > David,
> > > We're ready to ship another load...when can we set this up?
> > > Thanks.
> > > Dave

> > > Subject: Need to Ship Reclaimed Powder to Explo

> > > We have 280+ drums of Reclaimed powder and we're running out of
> > > storage room.

FAX COVER SHEET

FEDERAL FREIGHT SYSTEMS, INC.
 P.O. BOX 5826
 319 Baylor Street, Suite 101
 Texarkana TX 75505-5826
 (903) 831-4666
 1-800-621-1611
 Fax 903-838-6560

Send to: ROD MILL	From: CHARLES P. HANCOCK, JR.
Attention:	Date: 8/4/06
Office Location:	Office Location: Texarkana USA
Fax Number: (208) 746-8215	Phone Number: 800-621-1611

- Urgent
- Reply ASAP
- Please comment
- Please review
- For your information

Total pages, including cover:

Comments:

F: LEWISTON, ID] 2111 MILES
T: DOYLINE, LA	
L/H RATE @ \$ 2.10 plm x 2111 mi = 4433.10	
FSC @ .39 plm x 2111 mi = 823.29	
\$ 5256.39	
<p>These are same rates we have in effect for both GOEX, DOYLINE, LA & ST MARKS POWDER ST MARKS, FL. Thanks for opportunity & furnish you a quote.</p>	

Charles


CCI/SPEER OPERATIONS

REQUISITION

VENDOR <i>Explo Systems</i>		PURCHASE ORDER NUMBER <i>0078912</i>	
VENDOR NO. <i>80205680</i>		DEPARTMENT <i>7056</i>	
		ACCOUNT NUMBER <i>6687/6688</i>	
TERMS	FOB <i>SP</i>	SHIP VIA <i>RER TRUCKING</i>	
SUGGESTED SUPPLIER <i>Explo</i>	TODAY'S DATE <i>8/3/06</i>	Minority <input type="checkbox"/>	VERBAL ORDER GIVEN TO - DATE <i>DAVE</i>
		TAXED <input type="checkbox"/>	<i>8-2-06</i>
		EXEMPT <input checked="" type="checkbox"/>	
TO BE USED FOR	DELIVER TO	DATE WANTED <i>8/10/06</i>	RECEIVE BY <i>8-8-06</i>

QUANTITY	UNIT	PART NO.	DESCRIPTION	PRICE	/EA., etc.
300	ea		35# net wt. drum of reclaimed powder		
<i>10,500</i>	<i>lb</i>		<i>Reclaimed propellant powder for recycle</i>	<i>0.935</i>	<i>lb</i>
			<i>(1.4C Double base powder)</i>		
			<i>(300 drums AT 35 lb. each)</i>		
			<i>S/D</i>		

SPECIAL INSTRUCTIONS <i>S/D also should read:</i> <i>10,500 lb. substance, explosive, N.D.S. UN0479</i> <i>1.4C / EX 2004110197</i> <i>WETTED, double based smokable powder</i>	REQUISITIONED BY <i>Tim Switzer</i>
	APPROVED BY
	PURCHASING AGENT <i>[Signature]</i>

NOTICE: If you know that certain items being requisitioned come from different suppliers, or from different shipping points PLEASE USE SEPARATE REQUISITIONS FOR THESE ITEMS.

[Signature] 300 drums @ 35 lb NET WT.
45 lb. gross wt.



PURCHASE ORDER

NUMBER C078912 - 1 PAGE: 1

ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

SALES TAX EXEMPT
NO. 001042008-S

PURCHASE ORDER NUMBER
MUST APPEAR ON ALL PACKAGES,
BILLS OF LADING AND INVOICES

208 746 2351
FAX 208 746 8275

NORMAL RECEIVING HOURS
6:00 A.M. - 3:00 P.M.
MONDAY THRU THURSDAY

VENDOR

EXPLO SYSTEMS
1702 FOURTH STREET
MINDEN
LA
71055

SHIP TO

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

VENDOR	SHIP VIA	FOB	TERMS	ORDER DATE	DATE REQUIRED
80205680	TRUCK	SP	NET 30 DAYS	8/03/06	SEE BODY
ITEM	QUANTITY	DOM	PART NUMBER / DESCRIPTION	DUE DATE	UNIT COST/PER

1	10500.0 LB		RECYCLE RECLAIMED PROPELLANT POWDER FOR RECYCLE (1.4C DOUBLE BASE POWDER)	8/08/06	.9350C LB
---	------------	--	---	---------	--------------

SHIPPING ORDER #1654
(300 DRUMS AT 35 LB EACH)
CONFIRMING TO DAVE

COST NOT TO EXCEED: 9817.50

Refer questions to: DAVE ROMESBURG 799-3294

BY: Daryl S. Roesburg
Ammunition Accessories Inc.

THIS ORDER IS ACCEPTED SUBJECT TO BUYER'S CONDITIONS ON BOTH SIDES HEREOF.

"The seller shall comply with all applicable U.S. export control laws in receiving, utilizing and/or disposing of any articles, technical data and/or services provided by the Buyer in connection with this Order, and in transferring or otherwise disposing of any articles, technical data and/or services developed or produced therefrom by the Seller. As provided in the terms and conditions for this Order, no technical data or other items provided by Buyer or developed or produced by the Seller may be exported, transferred or disclosed outside the United States or to any foreign person, unless the Buyer provides written consent and the Seller obtains all required export licenses and/or other approvals from the United States Government."

"For export compliance purposes, the Seller shall obtain approval (written or verbal) from the Buyer prior to providing any personnel who are not U.S. Citizens."





EXPLO SYSTEMS
 1702 FOURTH ST.
 MINDEN, LA 71055
 (318) 382-8700

Invoice

802052680
44

DATE	INVOICE #
3/1/2007	1786

BILL TO:
 CCI/SPEER
 2299 Snake River Ave
 Lewiston, ID 83501

SHIP TO:
 CCI/SPEER
 2299 Snake River Ave
 Lewiston, ID 83501

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
C090168	Net 30		3/1/2007	R & R		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
11,400 Lbs.		RECLAIMED PROPELLANT (285 Drums Received)	0.935	10,659.00

70506690

PAID
MAR 13 2007

Thank you for your business.

TOTAL

\$10,659.00

3/1/2007 1786

BEST WAY DAVE ROMESBURG 799 SP

C090168 2/14/07 Page 1 NET 30 DAYS

EXPLO SYSTEMS
1702 FOURTH STREET
MINDEN
LA

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

71055

1

10000.000 LB

RECYCLE per LB

.93500

9,350.00

7056

Ammo Reclamation

3/01/07

SHIPMENT OF RECLAIMED PROPELLANT POWDER,
1.4C, WETTED DOUBLE BASE FOR RECYCLING

Handwritten:
11,400
✓ per Jim
3-15-07
PK

Total Stockroom Value: (Dollars)

9,350.00

Total This PO: (Dollars)

9,350.00

SHIPPING ORDER #2154

CONFIRMING TO DAVE

CCI/SPEER OPERATIONS

REQUISITION

VENDOR Explo Systems VENDOR NO. 70005680		PURCHASE ORDER NUMBER 6090168
		DEPARTMENT 7056
		ACCOUNT NUMBER 6690
TERMS	FOB SP	SHIP VIA TRUCK
SUGGESTED SUPPLIER Explo Systems	TODAY'S DATE 2/11/07	Minority <input type="checkbox"/> TAXED <input type="checkbox"/> EXEMPT <input checked="" type="checkbox"/>
		VERBAL ORDER GIVEN TO - DATE 2-14-07
TO BE USED FOR	DELIVER TO	DATE WANTED 3/1/07
		RECEIVE BY 3-1-07

QUANTITY	UNIT	PART NO.	DESCRIPTION	PRICE	/EA., etc.
250+	ea		shipment and recycling of 40# gross-wght-	0.935	16
0,000	16		drum with wetted, double base reclaimed powder		
			shipment of reclaimed propellant powder, 1.4C, wetted double base for recycling.		

SPECIAL INSTRUCTIONS 1.4C	REQUISITIONED BY Tim Switzer
	APPROVED BY
	PURCHASING AGENT DSA

NOTICE: If you know that certain items being requisitioned come from different suppliers, or from different shipping points PLEASE USE SEPARATE REQUISITIONS FOR THESE ITEMS.



PURCHASE ORDER

NUMBER C090168 - 1 PAGE: 1

ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

SALES TAX EXEMPT
NO. 001042008-S

PURCHASE ORDER NUMBER
MUST APPEAR ON ALL PACKAGES,
BILLS OF LADING AND INVOICES

208 746 2351
FAX 208 746 8275

NORMAL RECEIVING HOURS
6:00 A.M. - 3:00 P.M.
MONDAY THRU THURSDAY

VENDOR
EXPLO SYSTEMS
1702 FOURTH STREET
MINDEN
LA
71055

SHIP TO
CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

VENDOR	SHIP VIA	FOB	TERMS	ORDER DATE	DATE REQUIRED
80205680	BEST WAY	SP	NET 30 DAYS	2/14/07	SEE BODY
ITEM	QUANTITY	UOM	PART NUMBER / DESCRIPTION	DOE DATE	UNIT COST/PER

1	10000.0 LB		RECYCLE SHIPMENT OF RECLAIMED PROPELLANT POWDER, 1.4C, WETTED DOUBLE BASE FOR RECYCLING	3/01/07	.93500 LB
---	------------	--	---	---------	------------------

SHIPPING ORDER #2154
CONFIRMING TO DAVE

COST NOT TO EXCEED: 9350.00

Refer questions to: DAVE ROMESBURG 799-3294

BY: *Daniel S. Rousberg*
Ammunition Accessories Inc.

THIS ORDER IS ACCEPTED SUBJECT TO BUYER'S CONDITIONS ON BOTH SIDES HEREOF.
The seller shall comply with all applicable U.S. export control laws in receiving, utilizing and/or disposing of any articles, technical data and/or services provided by the Buyer in connection with this Order, and in transferring or otherwise disposing of any articles, technical data and/or services developed or produced therefrom by the Seller. As provided in the terms and conditions for this Order, no technical data or other items provided by Buyer or developed or produced by the Seller may be exported, transferred or disclosed outside the United States or to any foreign person, unless the Buyer provides written consent and the Seller obtains all required export licenses and/or other approvals from the United States Government.
For export compliance purposes, the Seller shall obtain approval (written or verbal) from the Buyer prior to providing any personnel who are not U.S. Citizens.



80205080
1017

Invoice



EXPLO SYSTEMS
1702 FOURTH ST.
MINDEN, LA 71055
(318) 382-8700

DATE	INVOICE #
9/7/2007	1874

BILL TO:
 CCI/SPEER
 2299 SNAKE RIVER AVE
 LEWISTON ID 83501

SHIP TO:
 CCI/SPEER
 2299 Snake River Ave
 Lewiston, ID 83501

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
C101675	Net 30		9/7/2007	R & R		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
10,080 Lbs.		RECLAIMED PROPELLANT (252 Drums Received)	0.935	9,424.80

OK
DSR

1/2 7050 0087 4712.40
 1/2 7050 0088 4712.40

Please note our new address:
 EXPLO SYSTEMS 1600 JAVA ROAD MINDEN, LA 71055

TOTAL \$9,424.80

BEST WAY DAVE ROMESBURG 799 SP

C101675 8/29/07 Page 1
NET 30 DAYS

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN
LA

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

71055

1

10000.000 POUNDS

RECYCLING per POUNDS

.93500
9,350.00

7056

Ammo Reclamation 9/05/07
RECYCLING OF RECLAIMED POWDER

10,000

10/8/07

CJ
per Aect

Total Stockroom Value: (Dollars) 9,350.00
Total This PO: (Dollars) 9,350.00

SHIPPING ORDER #2641

CONFIRMING TO DAVE

Renfrow, Linda

From: Varner, Kay

Sent: Tuesday, October 09, 2007 8:54 AM

To: Renfrow, Linda

Linda, would you please close out the system on an Explo po C0101675 on the remaining balance. No more will come in.
Thank you.

pk

P. Kay Varner
Receiving Clerk
ATK
Lewiston, ID. 83501
208-799-3504
208-799-4488 FAX

Item #1

KEY PUNCHED
OCT 10 2007



PURCHASE ORDER

NUMBER C101675 - 1 PAGE: 1

ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

SALES TAX EXEMPT
NO. 001042008-S

PURCHASE ORDER NUMBER
MUST APPEAR ON ALL PACKAGES,
BILLS OF LADING AND INVOICES

208 746 2351
FAX 208 746 8275

NORMAL RECEIVING HOURS
6:00 A.M. - 3:00 P.M.
MONDAY THRU THURSDAY

VENDOR

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN
LA

SHIP TO

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

71055

VENDOR	SHIP VIA	FOB	TERMS	ORDER DATE	DATE REQUIRED
80205680	BEST WAY	SP	NET 30 DAYS	8/29/07	SEE BODY
ITEM	QUANTITY	UOM	PART NUMBER / DESCRIPTION	DUE DATE	UNIT COST/PER

1	10000.0 LB		RECYCLING RECYCLING OF RECLAIMED POWDER	9/05/07	.93500 LB
---	------------	--	--	---------	--------------

SHIPPING ORDER #2641
CONFIRMING TO DAVE

COST NOT TO EXCEED: 9350.00

Refer questions to: DAVE ROMESBURG 799-3294

BY: *Dave Romesburg*
Ammunition Accessories Inc.

THIS ORDER IS ACCEPTED SUBJECT TO BUYER'S CONDITIONS ON BOTH SIDES HEREOF.

The seller shall comply with all applicable U.S. export control laws in receiving, utilizing and/or disposing of any articles, technical data and/or services provided by the Buyer in connection with this Order, and in transferring or otherwise disposing of any articles, technical data and/or services developed or produced therefrom by the Seller. As provided in the terms and conditions for this Order, no technical data or other items provided by Buyer or developed or produced by the Seller may be exported, transferred or disclosed outside the United States or to any foreign person, unless the Buyer provides written consent and the Seller obtains all required export licenses and/or other approvals from the United States Government.

For export compliance purposes, the Seller shall obtain approval (written or verbal) from the Buyer prior to providing any personnel who are not U.S. Citizens.





EXPLO SYSTEMS
1600 JAVA RD
MINDEN LA 71055
(318) 382-8700

802057080
4-10

Invoice

DATE	INVOICE #
3/6/2008	1966

BILL TO:
CCI/SPEER
2299 SNAKE RIVER AVE
LEWISTON ID 83501

SHIP TO:
CCI/SPEER
2299 Snake River Ave
Lewiston, ID 83501

P.O. NUMBER	TERMS	REP.	SHIP	VIA	F.O.B.	PROJECT
C113031	Net 15		3/6/2008	R & R		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
13,230 Lbs.		RECLAIMED PROPELLANT (294 Drums Received)	0.935	12,370.05

RECEIVED
APR 13 2008

7056 46690

Please note our new address:
EXPLO SYSTEMS 1600 JAVA ROAD MINDEN, LA 71055

TOTAL

\$12,370.05

BEST WAY DAVE ROMESBURG 799
SP

C113031
2/26/08 Page 1
NET 30 DAYS

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN
LA

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

71055

1

10000.000 LB

POWDER per LB

.93500
9,350.00

7056

Ammo Reclamation

3/05/08

RECYCLING OF RECLAIMED PROPELLANT POWDER
(250 DRUMS @ 40 LBS/EA)

13,830
3/14/08
CS-PDR

Total Stockroom Value: (Dollars)
Total This PO: (Dollars)

9,350.00
9,350.00

CONFIRMING TO DAVE

Jeffreys, Cheri

From: Romesburg, Dave
Sent: Friday, March 14, 2008 12:52 PM
To: Kempster, Pam
Cc: Jeffreys, Cheri
Subject: RE: Explo Systems PO C113031

yes.
Dave

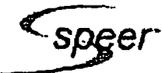
From: Kempster, Pam
Sent: Friday, March 14, 2008 12:50 PM
To: Romesburg, Dave
Subject: Explo Systems PO C113031

ok to close? invoiced for 13,230 lbs

Pam Kempster

Accounts Payable Administrator
ATK Inc., CCI-Speer Operations
Phone 208-799-3946
Fax 208-746-5899

CCI REQUISITION FORM



Requisition No: 208819		Vendor: Explo systems		PO No: C113031
Terms: N-30		FOB: SP	Ship Via: TRUCK	Vendor No: 80205680
REQUISITIONER - Please Complete Shaded Areas				<input type="checkbox"/> AR <input checked="" type="checkbox"/> Minority <input checked="" type="checkbox"/> Taxed <input checked="" type="checkbox"/> Exempt
Suggested Supplier: Explo Systems		Today's Date: 2/11/2008		Verbal Order Given To - Date: DAVL 2-26-08
To Be Used For: powder recycling		Deliver To:	Date Wanted: 3/5/2008	Receive By: 3-5-08
Qty: 250 10,000	Unit: lb.	Part No:	Description: RECYCLING GRADE OF RECLAIMED PROPELLANT POWDER	Price: .935 Each: lb

(250 drums @ 40 lb. each)

Special Instructions	Requisitioned By: Tim Switzer
	Approved By: Switzer, Timothy H
	<input checked="" type="checkbox"/> Approve
	Purchasing Agent: DSA

NOTICE: If you know that certain items being requisitioned come from different suppliers or from different shipping points PLEASE USE SEPARATE REQUISITIONS FOR THESE ITEMS.



PURCHASE ORDER

NUMBER C113031 - 1 PAGE: 1

ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

SALES TAX EXEMPT
NO. 001042008-S

PURCHASE ORDER NUMBER
MUST APPEAR ON ALL PACKAGES,
BILLS OF LADING AND INVOICES

208 746 2351
FAX 208 746 8275

NORMAL RECEIVING HOURS
6:00 A.M. - 3:00 P.M.
MONDAY THRU THURSDAY

VENDOR

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN
LA

SHIP TO

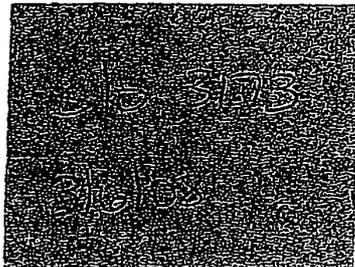
CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

71055

VENDOR	SHIP VIA	FOB	TERMS	ORDER DATE	DATE REQUIRED
80205680	BEST WAY	SP	NET 30 DAYS	2/26/08	SEE BODY
ITEM	QUANTITY	UOM	PART NUMBER / DESCRIPTION	DUE DATE	UNIT COST/PER.

1	10000.0 LB		POWDER RECYCLING OF RECLAIMED PROPELLANT POWDER (250 DRUMS @ 40 LBS/EA)	3/05/08	.93500 LB
---	------------	--	---	---------	------------------

CONFIRMING TO DAVE



COST NOT TO EXCEED: 9350.00

Refer questions to: DAVE ROMESBURG 799-3294

BY: David S. Roesburg DSR
Ammunition Accessories Inc.

THIS ORDER IS ACCEPTED SUBJECT TO BUYERS CONDITIONS ON BOTH SIDES HEREOF.

The seller shall comply with all applicable U.S. export control laws in receiving, utilizing and/or disposing of any articles, technical data and/or services provided by the Buyer in connection with this Order, and in transferring or otherwise disposing of any articles, technical data and/or services developed or produced herefrom by the Seller. As provided in the terms and conditions for this Order, no technical data or other items provided by Buyer or developed or produced by the Seller may be exported, transferred or disclosed outside the United States or to any foreign person, unless the Buyer provides written consent and the Seller obtains all required export licenses and/or other approvals from the United States Government.

"For export compliance purposes, the Seller shall obtain approval (written or verbal) from the Buyer prior to providing any personnel who are not U.S. Citizens."





*80705680
8/28*

Invoice

DATE	INVOICE #
7/28/2008	2057

BILL TO:
 CCI/SPEER
 2299 SNAKE RIVER AVE
 LEWISTON ID 83501

SHIP TO:
 CCI/SPEER
 2299 Snake River Ave
 Lewiston, ID 83501

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
C122759	Net 15		7/28/2008	R & R		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
10,000 Lbs.		RECLAIMED PROPELLANT (250 Drums Received)	0.935	9,350.00

105661910

Thank you for your business.

TOTAL

\$9,350.00

BEST WAY DAVE ROMESBURG 799
SP

C122759
7/15/08 Page 1
NET 30 DAYS

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN
LA

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

71055

1 10000.000 POUNDS POWDER per POUNDS .93500
***** 9,350.00
7056

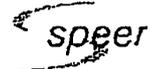
Ammo Reclamation 8/04/08
RECLAIMED DOUBLE BASE POWDER (WETTED) FOR
RECYCLING
(250 DRUMS @ 40 LBS/EA.)

Total Stockroom Value: (Dollars) 9,350.00
Total This PO: (Dollars) 9,350.00

SHIPPING ORDER 3551

per DR
8-6-08
R

CCI REQUISITION FORM



Requisition No.		212660		PO No.		12 2759	
Vendor						Department	
Explo Systems 1100 South Blvd Minden, LA 71255						7056	
						Account No.	
						6690	
Terms	FOB	Ship Via	Vendor No.	<input type="checkbox"/> AR	Verbal Order Given To - Date		
		4	2452	<input type="checkbox"/> Minority			
↓ REQUISITIONER - Please Complete Shaded Areas ↓				<input type="checkbox"/> Taxed			
Suggested Supplier			Today's Date	<input checked="" type="checkbox"/> Exempt			
Explo Systems			7/15/2008				
To Be Used For		Deliver To		Date Wanted		Receive By	
recycling				8/4/2008		3/4/08	
Qty	Unit	Part No.	Description			Price	Each
250			40# NET WT RECLAIMED DOUBLE BASE POWDER (WETTED) FOR RECYCLING 250 Drums @ 40 lbs/Drum			935	lb

10,600 lbs

5/0 3551

1.4C

R + R Trucking

Special Instructions Would like to ship on Tuesday or Wednesday.	Requisitioned By
	Tim Switzer
	Approved By
	Switzer, Timothy H
	<input checked="" type="checkbox"/> Approve
Purchasing Agent	
	<i>[Signature]</i>

NOTICE: If you know that certain items being requisitioned come from different suppliers or from different shipping points PLEASE USE SEPARATE REQUISITIONS FOR THESE ITEMS.

EXPLO EXPLO SYSTEMS
 1600 JAVA ROAD
 MINDEN, LA 71055
 SYSTEMS, INC. (318) 382-8700

802051250
 2121

Invoice

DATE	INVOICE #
1/21/2009	2216

BILL TO:
 ATK
 CCI/SPEER OPERATIONS
 PO BOX 856
 LEWISTON ID 83501

SHIP TO:
 CCI/SPEER
 2299 Snake River Ave
 Lewiston, ID 83501

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
C134506	Net 30		1/21/2009	R & R		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
12,640 Lbs.		RECLAIMED PROPELLANT (316 Drums Received)	0.935	11,818.40

7056 11690

EXPLO

JAN 26 2009

Thank you for your business.

TOTAL \$11,818.40

BEST WAY DAVE ROMESBURG 799 DEST

1/21/09 C134506 Page 1 NET 30 DAYS

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN
LA

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

71055

1 12640.000 LB

7056

RECYCLE per LB .93500
11,818.40

Ammo Reclamation 1/21/09
RECLAIMED POWDER FOR RECYCLING
40 LB NET WEIGHT/DRUM (316 DRUMS)

*ten acct
2-309
pk*

Total Stockroom Value: (Dollars) 11,818.40
Total This PO: (Dollars) 11,818.40

SHIPPING ORDER #4077

CONFIRMING TO DAVE

CCI REQUISITION FORM



Requisition No. 216035		Vendor		PO No. C134506
Explo systems				Department 7056
				Account No. 6690
Terms	FOB	Ship Via	Vendor No.	<input type="checkbox"/> AR
	DEST	TWAIL	80205680	<input checked="" type="checkbox"/> Minority
↓ REQUISITIONER - Please Complete Shaded Area ↓				Verbal Order Given To Date
Suggested Supplier		Todays Date		DAVE
Explo Systems		1/7/2009		1-21-09
To Be Used For	Deliver To	Date Wanted	Receive By	
recycling		1/15/2009	1-21-09	
Qty	Unit	Part No.	Description	Price Each
285	lb.		DRUM RECLAIMED POWDER FOR RECYCLING	.935 lb.
342	lb.		40 lb. NET weight / drum	

12,640

(316 drums)

L- Need S/O
 & P.O.

KEYED
JAN 21 2009

Special Instructions	Requisitioned By tim switzer
	Approved By Von Lindern, Mark P
	<input checked="" type="checkbox"/> Approve
	Purchasing Agent

NOTICE: If you know that certain items being requisitioned come from different suppliers or from different shipping points PLEASE USE SEPARATE REQUISITIONS FOR THESE ITEMS.

Wednesday, January 07, 2009

Invoice



DATE	INVOICE #
7/16/2009	2374

BILL TO:
ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

SHIP TO:
CCI/SPEER
2299 Snake River Ave
Lewiston, ID 83501

802 05680
8/10

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
C145297	Net 30		7/16/2009	R & R		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
11,640 Lbs.		RECLAIMED PROPELLANT (291 Drums Received)	0.935	10,883.40

705706690



EXPLO SYSTEMS, INC.
MINDEN, LA 71055

Thank you for your business.

TOTAL **\$10,883.40**

BEST WAY DAVE ROMESBURG 799
DEST

6/22/09 C145297
Page 1
NET 30 DAYS

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN
LA

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

71055

1 11000.000 LB

7056

RECYCLE per LB

.93500
10,285.00

Ammo Reclamation 7/14/09
RECLAIMED POWDER FOR RECYCLING

Total Stockroom Value: (Dollars) 10,285.00
Total This PO: (Dollars) 10,285.00

SHIPPING ORDER #4505
CONFIRMING TO DAVE

per DR
7-29-09
PK

CCI REQUISITION FORM

speer

Requisition No. 219676		Vendor		PO No. C145297	
Explo				Department 7056	
				Account No. 6690	
Terms N-30	FOB DEST.	Ship Via R&R Trucking	Vendor No. 80205680	<input type="checkbox"/> AR	Verbal Order Given To - Date
↓ REQUISITIONER - Please Complete Shaded Areas ↓				<input type="checkbox"/> Minority	DAVE 6-22-09
Suggested Supplier Explo Systems		Today's Date 6/16/2009		<input checked="" type="checkbox"/> Exempt	
To Be Used For recycling		Deliver To	Date Wanted 7/8/2009 →	Receive By 7/8/09 7/14/09	
Qty	Unit	Part No.	Description	Price	Each
11,000	lb		POUND OF RECLAIMED POWDER FOR RECYCLING	0.935	1b

** Linda - need S/O also.*

Special Instructions	Requisitioned By tim switzer
	Approved By Switzer, Timothy H
	<input checked="" type="checkbox"/> Approve
	Purchasing Agent <i>RS</i>

NOTICE: If you know that certain items being requisitioned come from different suppliers or from different shipping points PLEASE USE SEPARATE REQUISITIONS FOR THESE ITEMS.



PURCHASE ORDER

NUMBER C145297 - 1 PAGE: 1

ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

SALES TAX EXEMPT
NO. 001042008-S

PURCHASE ORDER NUMBER
MUST APPEAR ON ALL PACKAGES,
BILLS OF LADING AND INVOICES

208 746 2351
FAX 208 746 8275

NORMAL RECEIVING HOURS
6:00 A.M. - 3:00 P.M.
MONDAY THRU THURSDAY

VENDOR

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN
LA

SHIP TO

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

71055

VENDOR	SHIP VIA	FOB	TERMS	ORDER DATE	DATE REQUIRED
80205680	BEST WAY	DEST	NET 30 DAYS	6/22/09	SEE BODY
ITEM	QUANTITY	DOM	PART NUMBER / DESCRIPTION	DUE DATE	UNIT COST/PER

1	11000.0 LB		RECYCLE RECLAIMED POWDER FOR RECYCLING	7/14/09	.93500 LB
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SHIPPING ORDER #4505
CONFIRMING TO DAVE

COST NOT TO EXCEED: 10285.00

Refer questions to: DAVE ROMESBURG 799-3294

BY: David S. Romsburg
Ammunition Accessories Inc.

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TKPDMIP

013957

Invoice

EXPLO EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN, LA 71055
SYSTEMS, INC. (318) 382-8700

802 05680
313

DATE	INVOICE #
2/3/2010	2505

BILL TO:

ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

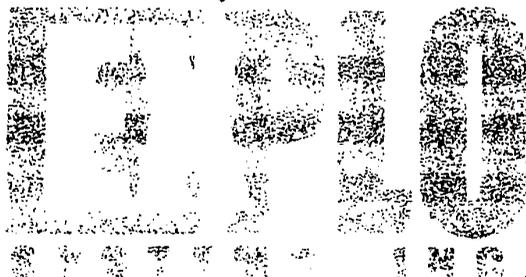
SHIP TO:

CCI/SPEER
2299 Snake River Ave
Lewiston, ID 83501

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
C160419	Net 30		2/3/2010	TRUCK		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
10,800 Lbs.		RECLAIMED PROPELLANT (270 Drums Received)	0.935	10,098.00

7056 6690



REC'D FEB 15 2010

Thank you for your business.

TOTAL \$10,098.00

BEST WAY DAVE ROMESBURG 799
SP

C160419
2/01/10 Page 1
NET 30 DAYS

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN LA 71055

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

1 10800.000 POUNDS RECLAIMED POWDER per POUNDS .93500
***** 10,098.00
7056 Ammo Reclamation 2/03/10
RECLAIMED, WETTED, DOUBLE BASE POWDER
(20# NEW, 40# NET, 45# GROSS) FOR RECYCLING
(270 DRUMS)

*per PL
2-15-0
PK*

Total Stockroom Value: (Dollars) 10,098.00
Total This PO: (Dollars) 10,098.00

SHIPPING ORDER #5081

CONFIRMING TO DAVE

CCI REQUISITION FORM



Requisition No. 225281		Vendor		PO No. C160419	
Explo				Department 7056	
Terms		FOB SP	Ship Via TRUCK	Vendor No. 80205680	Account No. 6690
↓ REQUISITIONER - Please Complete Shaded Areas ↓ Suggested Supplier Explo Systems Today's Date 1/21/2010				<input type="checkbox"/> AR	Verbal Order Given To - Date
				<input checked="" type="checkbox"/> Minority	DAVC
				<input checked="" type="checkbox"/> Taxed	2-1-10
				<input checked="" type="checkbox"/> Exempt	
To Be Used For recycling		Deliver To ENVIFO		Date Wanted 2/3/2010	Receive By 2-3-10
Qty 270	Unit EA.	Part No.	Description	Price	Each
10,800	16		RECLAIMED, WETTED, DOUBLE BASE POWDER (40# NEW, 45# GROSS) FOR RECYCLING (270 DRUMS)	1,935	16.

S/O also 5081

Shipping 2/3/10
TRUCK &
Value: 10,000

partim

FEB 7 2010

Special Instructions	Requisitioned By
Please arrange shipping for Wed., Feb. 3. Will need shipping papers.	tim switzer
	Approved By
	Switzer, Timothy Hugh
	<input checked="" type="checkbox"/> Approve
	Purchasing Agent
	DSR

NOTICE: If you know that certain items being requisitioned come from different suppliers or from different shipping points PLEASE USE SEPARATE REQUISITIONS FOR THESE ITEMS.



PURCHASE ORDER

NUMBER C160419 - 1 PAGE: 1

ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

SALES TAX EXEMPT
NO. 001042008-S

PURCHASE ORDER NUMBER
MUST APPEAR ON ALL PACKAGES
BILLS OF LADING AND INVOICES

208 746 2351
FAX 208 746 8275

NORMAL RECEIVING HOURS
6:00 A.M. - 3:00 P.M.
MONDAY THRU THURSDAY

VENDOR

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN LA 71055

SHIP TO

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

VENDOR	SHIP VIA	FOB	TERMS	ORDER DATE	DATE REQUIRED
80205680	BEST WAY	SP	NET 30 DAYS	2/01/10	SEE BODY
ITEM	QUANTITY	UOM	PART NUMBER / DESCRIPTION	DUE DATE	UNIT COST/PER

1	10800.0 LB		RECLAIMED POWDER RECLAIMED, WETTED, DOUBLE BASE POWDER (20# NEW, 40# NET, 45# GROSS) FOR RECYCLING (270 DRUMS)	2/03/10	.93500 LB
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SHIPPING ORDER #5081
CONFIRMING TO DAVE

COST NOT TO EXCEED: 10098.00

Refer questions to: DAVE ROMESBURG 799-3294

BY: Dave Romesburg
Ammunition Accessories Inc.

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EXPLO EXPLO SYSTEMS
 1600 JAVA ROAD
 MINDEN, LA 71055-7924
 SYSTEMS, INC. (318) 382-8700

Invoice

DATE	INVOICE #
8/25/2010	2657

BILL TO:
 ATK
 CCI/SPEER OPERATIONS
 PO BOX 856
 LEWISTON ID 83501

SHIP TO:
 CCI/SPEER
 2299 Snake River Ave
 Lewiston, ID 83501

*802051080
 9-26*

EXPLO SYSTEMS, INC.

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
C177481	Net 30		8/25/2010	TRUCK		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
12,000 Lbs.		RECLAIMED PROPELLANT (300 Drums Received)	0.935	11,220.00

70570 6690

EXPLO
 SYSTEMS, INC.

you for your business.

REC'D SEP 3 2010

TOTAL

\$11,220.00



PURCHASE ORDER

NUMBER C177481 - 2 PAGE: 1

ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

SALES TAX EXEMPT
NO. 001042008-S

PURCHASE ORDER NUMBER
MUST APPEAR ON ALL PACKAGES,
BILLS OF LADING AND INVOICES

208 746 2351
FAX 208 746 8275

NORMAL RECEIVING HOURS
6:00 A.M. - 3:00 P.M.
MONDAY THRU THURSDAY

CHANGE ORDER

VENDOR

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN LA 71055

SHIP TO

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

VENDOR	SHIP VIA	FOB	TERMS	ORDER DATE	DATE REQUIRED
80205680	VENDOR DELIVERY	SP	NET 30 DAYS	8/16/10	SEE BODY
ITEM	QUANTITY	UOM	PART NUMBER / DESCRIPTION	DUE DATE	UNIT COST/PER

1	12000.0 LB		RECYCLING RECLAIMED, WETTED, DOUBLE-BASED POWDER FOR RECYCLING	8/25/10	.93500 LB
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SHIPPING ORDER #5719
CONFIRMING TO DAVE SMITH
8/24/10
QUANTITY CHANGED FROM 10,400 LBS TO 12,000 LB

AMENDED

COST NOT TO EXCEED: 11220.00

Refer questions to: DAVE ROMESBURG 2087503294

BY: David S. Roesburg
Ammunition Accessories Inc.

This Order is accepted subject to the accompanying Buyer's General Terms and Conditions of Purchase (TC-001)(10/09) and FAR and DFAR Regulations.
The seller shall comply with all applicable U.S. export control laws in receiving, utilizing and/or disposing of any articles, technical data and/or services provided by the Buyer in connection with this Order, and in transferring or otherwise disposing of any articles, technical data and/or services developed or produced therefrom by the Seller. As provided in the terms and conditions for this Order, no technical data or other items provided by Buyer or developed or produced by the Seller may be exported, transferred or disclosed outside the United States or to any foreign person, unless the Buyer provides written consent and the Seller obtains all required export licenses and/or other approvals from the United States Government.
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DAVE ROMESBURG 20875
VENDOR DELIVERY SP

C177481
8/16/10 Page 1
NET 30 DAYS

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN LA 71055

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

This is change number 2 to order originally dated 8/16/10

1 12000.000 LB RECYCLING per LB .93500
***** 11,220.00
7056

Ammo Reclamation 8/25/10
RECLAIMED, WETTED, DOUBLE-BASED POWDER
FOR RECYCLING

Total Stockroom Value: (Dollars) 11,220.00
Total This PO: (Dollars) 11,220.00

SHIPPING ORDER #5719

CONFIRMING TO DAVE SMITH

8/24/10

QUANTITY CHANGED FROM 10,400 LBS TO 12,000 LB

*Comp. per Acet
9-10-10
EJ*

✓

Renfrow, Linda

From: Switzer, Tim
Sent: Tuesday, August 24, 2010 6:39 AM
To: Renfrow, Linda
Cc: Romesburg, Dave; Bieren, Carrie
Subject: Explo Shipment Tomorrow

Linda:

We will need shipping papers for the Explo shipment tomorrow (Req. 231392)...we will actually ship 300 drums not the 260 that the req. states. I will be gone tomorrow, so you might ship the papers to both Carrie and I, so between us we can get them to ARA.

Tim Switzer
Environmental Supervisor
ATK (Alliant Techsystems)
Ammunition Accessories Inc.
CCI/Speer Operations
Office Phone 208/799-3585
Cellular 208/305-9285
Fax 208/750-4752

C177481

S/O 5719

10,400 lbs

40 lbs x 260 drums = 10,400 lbs

40 lbs x 300 drums = 12,000 lbs

CCI / SPEER

PURCHASE ORDER

NUMBER C177481 - 1 PAGE: 1

ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

SALES TAX EXEMPT
NO. 001042008-5

PURCHASE ORDER NUMBER
MUST APPEAR ON ALL PACKAGES,
BILLS OF LADING AND INVOICES

208 746 2351
FAX 208 746 8275

NORMAL RECEIVING HOURS
6:00 A.M. - 3:00 P.M.
MONDAY THRU THURSDAY

VENDOR

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN LA 71055

SHIP TO

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

VENDOR	SHIP VIA	FOB	TERMS	ORDER DATE	DATE REQUIRED
80205680	VENDOR DELIVERY	SP	NET 30 DAYS	8/16/10	SEE BODY
ITEM	QUANTITY	UOM	PART NUMBER / DESCRIPTION	DUE DATE	UNIT COST/PER

1 10400.0 LB

RECYCLING
RECLAIMED, WETTED, DOUBLE-BASED POWDER
FOR RECYCLING

8/25/10

.93500

LB

SHIPPING ORDER #5719

CONFIRMING TO DAVE SMITH

COST NOT TO EXCEED:

9724.00

Refer questions to: DAVE ROMESBURG 2087503294

BY: *David S. Romsburg*
Ammunition Accessories Inc.

This Order is accepted subject to the accompanying Buyer's General Terms and Conditions of Purchase (TC-001)(10/09) and FAR and DFAR Regulations.
The seller shall comply with all applicable U.S. export control laws in receiving, utilizing and/or disposing of any articles, technical data and/or services provided by the Buyer in connection with this Order, and in transferring or otherwise disposing of any articles, technical data and/or services developed or produced therefrom by the Seller. As provided in the terms and conditions for this Order, no technical data or other items provided by Buyer or developed or produced by the Seller may be exported, transferred or disclosed outside the United States or to any foreign person, unless the Buyer provides written consent and the Seller obtains all required export licenses and/or other approvals from the United States Government.

For export compliance purposes, the Seller shall obtain approval (written or verbal) from the Buyer prior to providing any personnel who are not U.S. Citizens.



OMP

013966

CCI. REQUISITION FORM



Requisition No. 231392		Vendor		PO No. C177481	
Explo systems				Department 7056	
				Account No. 6690	
Terms	FOB	Ship Via	Vendor No.	<input type="checkbox"/> AR	Verbal Order Given To - Date
	SP	VENDOR TRK	80205680	<input type="checkbox"/> Minority	DAVE Smith
↓ REQUISITIONER - Please Complete Shaded Areas ↓				<input type="checkbox"/> Taxed	8-16-10
Suggested Supplier			Todays Date		
Explo Systems			8/12/2010		
To Be Used For		Dept	Deliver To	Name	Date Wanted
powder recycling					8/25/2010
Receive By		8-25-10			
Qty	Unit	Part No.	Description	Price	Each
260			NET EXPLOSIVE WEIGHT/RECLAIMED POWDER FOR RECYCLING	.935	lb.
10,400	lb				

Reclaimed, wetted, double-bund powder for recycling.

L. S/O
P.O.

AUG 17 2010

Special Instructions	Requisitioned By
	tim switzer
	Approved By
	Switzer, Timothy Hugh
	<input checked="" type="checkbox"/> Approve
Purchasing Agent	
	DSR

NOTICE: If you know that certain items being requisitioned come from different suppliers or from different shipping points PLEASE USE SEPARATE REQUISITIONS FOR THESE ITEMS.

ATK
 CCI/Speer Operations
 2299 Snake River Avenue
 Lewiston, ID 83501
 208 746 2351 FAX 208 746 8275

Debit Memo
 Invoice
 Shipping Order

Number: **5719**

PURCHASED FROM:

SHIP TO:
 EXPLO SYSTEMS
 1600 JAVA ROAD
 MINDEN LA 71055

P O Number/Date: **C177481** / **8/17/2010** Vendor Invoice Number/Date: [] [] Return Authorization: [] Reference w/7's: **D. Romesburg** Date: **8/17/2010**

Quantity	Description	Unit Price	Dollar Amount
12,000 lbs	POWDER FOR RECYCLING Substance, Explosive, N.O.S. 1.4C, UN0479, PGII (wetted double based smokeless powder)		
	45 lb gross weight drums 20 lb NEW		
	EMERGENCY CONTACT: TIM SWITZER - 208-746-2351		
	(Trailer # 50657)		
	TOTAL:		

FOR CHEMICAL **BLT 42490**
EMERGENCY
 SPILL, LEAK, FIRE,
 EXPOSURE, OR ACCIDENT
 CALL CHEMTREC - DAY OR NIGHT
800 - 424 - 9300

Shipping Order-Straight Bill of Lading-Short Form Original-Not Negotiable RECEIVED Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below, in apparent good order, except as noted (contents and condition of contents of packages, unknown,) marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any said property formed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or rail water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

(ATK CCI/SPEER SEAL #0001487)

Account #: **8070566890**

# of Pkgs	Type of Package	Weight
17	Pallets of 300 Barrels	
	Substance, Explosive	
	NOS. 1.4C, UN10479	
	PGII (wetted double base smokeless powder)	
	tare =	12,000 #
		3,010 #
	Total Weight	14,010 #

Carrier's Signature: *C. Thawles*

PIP SP
 Collect Dest

Value: **\$11,220.00** Ship Via: **TRUCK**

Date Shipped: **8/25/10**

This is to certify that the above-named material is properly classified, described, packaged, marked and labeled and is in proper condition for transportation to the applicable regulations of the Department of Transportation

By: *[Signature]*

Original: Vendor Copies: 2-Accounting, 1-Purchasing, 1-Shipping, 1-Carrier, 1-Packing List

EXPLO EXPLO SYSTEMS
 1600 JAVA ROAD
 MINDEN, LA 71055-7924
 SYSTEMS, INC. (318) 382-8700

Invoice

80205080
 2/21

DATE	INVOICE #
1/21/2011	2764

BILL TO:

ATK
 CCI/SPEER OPERATIONS
 PO BOX 856
 LEWISTON ID 83501

SHIP TO:

CCI/SPEER
 2299 Snake River Ave
 Lewiston, ID 83501

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
C186854	Net 30		1/21/2011	TRUCK		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
13,500 Lbs.		RECLAIMED PROPELLANT (300 Drums Received)	0.935	12,622.50

KEY PUNCHED

FEB -4 2011

70566690

EXPLO
 SYSTEMS

No Shipping documents -
 per Denver
 8-29-13

2011

L

\$12,622.50

Thank you for your business.



EXPLO SYSTEMS
 1600 JAVA ROAD
 MINDEN, LA 71055-7924
 (318) 382-8700

Invoice

*80203080
11-27*

DATE	INVOICE #
10/27/2011	3016

BILL TO:
 ATK
 CCI/SPEER OPERATIONS
 PO BOX 856
 LEWISTON ID 83501

SHIP TO:
 CCI/SPEER
 2299 Snake River Ave
 Lewiston, ID 83501

KEY PUNCHED

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
C209790	Net 30		10/27/2011	TRUCK		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
10,800 Lbs.		RECLAIMED PROPELLANT (270 Drums Received)	0.935	10,098.00

7056 6691

Thank you for your business.

TOTAL \$10,098.00

BEST WAY DAVE ROMESBURG 20875
SP

C209790
10/13/11 Page 1
NET 30 DAYS

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN LA 71055

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

1 10000.000 POUNDS

RECYCLE per POUNDS

.93500

9,350.00

↓ 7056

Ammo Reclamation

10/26/11

10,800

RECLAIMED DOUBLE BASE POWDER FOR RECYCLING

11-7-11

KC/PT

Total Stockroom Value: (Dollars)

9,350.00

Total This PO: (Dollars)

9,350.00

SHIPPING ORDER 7078

CONFIRMING TO DAVE



PURCHASE ORDER

NUMBER C209790 - 1 PAGE: 1

ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

SALES TAX EXEMPT
NO. 001042008-S

PURCHASE ORDER NUMBER
MUST APPEAR ON ALL PACKAGES,
BILLS OF LADING AND INVOICES

208 746 2351
FAX 208 746 8275

NORMAL RECEIVING HOURS
6:00 A.M. - 3:00 P.M.
MONDAY THRU THURSDAY

VENDOR

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN LA 71055

SHIP TO

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

VENDOR	SHIP VIA	FOB	TERMS	ORDER DATE	DATE REQUIRED
80205680	BEST WAY	SP	NET 30 DAYS	10/13/11	SEE BODY
ITEM	QUANTITY	UOM	PART NUMBER / DESCRIPTION	DUE DATE	UNIT COST/PER

1	10000.0 LB		RECYCLE RECLAIMED DOUBLE BASE POWDER FOR RECYCLING	10/26/11	.93500 LB
---	------------	--	---	----------	--------------

SHIPPING ORDER 7078
CONFIRMING TO DAVE

COST NOT TO EXCEED: 9350.00

Refer questions to: DAVE ROMESBURG 2087503294

BY: *Daniel S. Rosenberg*
Ammunition Accessories Inc.

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The seller shall comply with all applicable U.S. export control laws in receiving, utilizing and/or disposing of any articles, technical data and/or services provided by the Buyer in connection with this Order, and in transferring or otherwise disposing of any articles, technical data and/or services developed or produced therefrom by the Seller. As provided in the terms and conditions for this Order, no technical data or other items provided by Buyer or developed or produced by the Seller may be exported, transferred or disclosed outside the United States or to any foreign person, unless the Buyer provides written consent and the Seller obtains all required export licenses and/or other approvals from the United States Government.

For export compliance purposes, the Seller shall obtain approval (written or verbal) from the Buyer prior to providing any personnel who are not U.S. Citizens.



CCI REQUISITION FORM



Requisition No. 241978		Vendor		PO No. C 209790	
Explo systems				Department 7056	
				Account No. 6691	
Terms	FOB	Ship Via	Vendor No. 80205680	<input type="checkbox"/> AR	Verbal Order Given To - Date
↓ REQUISITIONER - Please Complete Shaded Areas ↓				<input type="checkbox"/> Minority	DAVC
Suggested Supplier Explo Systems			Todays Date 10/12/2011		<input checked="" type="checkbox"/> Exempt 10-13-11
To Be Used For	Dept	Deliver To	Name	Date Wanted	Receive By
powder recycling	ammo rec.			10/26/2011	10-26-11
Qty	Unit	Part No.	Description	Price	Each
10,000	lb.		RECLAIMED DOUBLE BASE POWDER FOR RECYCLING	\$0.935	lb.

L. S/O & P.O.
 Shipping ~ 10,000 lb. (250 drums x 40 lb.)
 to Explo on their truck 10/26.
 P.O. is for cost to recycle it.

Special Instructions Please schedule shipment for <u>Wed., October 26.</u> Will need a shipping order	Requisitioned By tim switzer
	Approved By Switzer, Timothy Hugh
	<input checked="" type="checkbox"/> Approve
	Purchasing Agent DSR

NOTICE: If you know that certain items being requisitioned come from different suppliers or from different shipping points PLEASE USE SEPARATE REQUISITIONS FOR THESE ITEMS.

Curran, Kay

From: Kempster, Pam
Sent: Monday, November 07, 2011 1:12 PM
To: Curran, Kay
Subject: Explo PO C209790

Please close complete 10,800

Pam Kempster

Accounts Payable Administrator
ATK Inc., CCI-Speer Operations
Phone 208-750-3155
Fax 208-746-5899

Renfrow, Linda

From: Switzer, Tim
Sent: Wednesday, October 19, 2011 9:40 AM
To: Renfrow, Linda
Subject: RE: SHIPPING ORDER

Linda:
Don't we need an EX number on this? EX2004110197

· Tim Switzer
Environmental Supervisor
ATK (Alliant Techsystems)
Ammunition Accessories Inc.
CCI/Speer Operations
Office Phone 208/750-3585
Cellular 208/305-9285
Fax 208/750-4752

From: Renfrow, Linda
Sent: Thursday, October 13, 2011 2:06 PM
To: Switzer, Tim
Subject: SHIPPING ORDER

Tim -
We need a copy of this back when it ships.
<< File: 7078.snp >>

Thanks,

Linda Renfrow
Purchasing Assistant
ATK CCI/Speer Operations
208-750-3147

Invoice

80205680
5/11



EXPLO SYSTEMS, INC.
1600 JAVA ROAD
MINDEN, LA 71055-7924
318-382-8700 / 318-382-8434 (Fax)

DATE	INVOICE #
4/11/2012	3127

BILL TO:

ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

SHIP TO:

CCI/SPEER
2299 Snake River Ave
Lewiston, ID 83501

KEY PUNCHED

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
-------------	-------	-----	------	-----	--------	---------

C221403 Net 30 4/11/2012 TRUCK

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
----------	-----------	-------------	------------	--------

12,150 Lbs. RECLAIMED PROPELLANT (270 Drums Received) 0.935 11,360.25

OK
T85
7056-6688/6687



h...ou for your business.

TOTAL \$11,360.25

BEST WAY

SU HILL

208-750
SP

3/27/12

C221403

Page 1

NET 30 DAYS

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN LA 71055

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

1	12150.000 LB	POWDER RECYCLING per LB	.00000
	*****		.00
	7056 TIM	Ammo Reclamation	4/11/12
		RECLAIMED DOUBLE BASED POWDER FOR RECYCLING	
		(45# GROSS - 40# NET WEIGHT) 270 BARRELS	

Total Stockroom Value: (Dollars)	.00
Total This PO: (Dollars)	.00

SHIPPING ORDER 7579

CONFIRMING TO LIONEL

Sen 6-7-12 PK

CCI REQUISITION FORM

speer

Requisition No. 245460		318-382-8700		PO No. 221403	
Vendor <i>Explo Systems</i>				Department 7056	
<input type="checkbox"/> Do Not Fax <input checked="" type="checkbox"/> Fax <input type="checkbox"/> Email				Account No. 6690	
Terms	FOB <i>OP</i>	Ship Via <i>Vendor</i>	Vendor No. <i>2050</i>	<input type="checkbox"/> AR	Verbal Order Given To - Date
↓ REQUISITIONER - Please Complete Shaded Areas ↓				<input type="checkbox"/> Minority	<i>3/27</i>
Suggested Supplier <i>Explo Systems</i>			Todays Date 3/26/2012		
To Be Used For powder recycling		Dept	Deliver To	Name	Date Wanted 4/11/2012
Qty <i>270</i>	Unit <i>12,150 lb</i>	Part No.	Description <i>(45# GROSS (40# NET) WEIGHT) RECLAIMED POWDER FOR RECYCLING</i>		Price <i>Double Paced wetted</i>
					Each <i>(270 Barrels)</i>

5/0
see attached

Special Instructions Would like to ship on April 11	Requisitioned By tim switzer
<i>3/27</i> <i>Linol</i>	Approved By Switzer, Timothy Hugh
	<input checked="" type="checkbox"/> Approve Purchasing Agent <i>Linol</i>

NOTICE: If you know that certain items being requisitioned come from different suppliers or from different shipping points PLEASE USE SEPARATE REQUISITIONS FOR THESE ITEMS.

Monday, March 26, 2012

ATK
 CCI/Speer Operations
 2000 Snake River Avenue
 Lewiston, ID 83501
 208-746-2351 FAX 208-746-8275

Debit Memo
 Invoice
 Shipping Order

Number: **7579**
 WO# 194010

PURCHASED FROM:

SHIP TO:
 EXPLO SYSTEMS
 1600 JAVA ROAD
 MINDEN LA 71055

P O Number/Date: **C221403** 3/29/2012 Vendor Invoice Number/Date: [] [] Return Authorization: [] Reference w/?'s: **S. Hill** Date: **3/29/2012**

Quantity	Description	Unit Price	Dollar Amount
	POWDER FOR RECYCLING		
12,150 lbs.	Substance, Explosive, N.O.S. 1.4C, UN0479, PGII (wetted double base smokeless powder)		
	EX2004110197		
	EMERGENCY CONTACT: TIM SWITZER - 208-746-2351		
	<i>[Signature]</i> 4/11/12		
	TOTAL:		

Shipping Order-Straight Bill of Lading-Short Form Original-Not Negotiable RECEIVED Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below, in apparent good order, except as noted (contents and condition of contents of packages, unknown,) marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any said property formed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or rail water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

# of Pkgs	Type of Package	Weight
270	EXPL. DRUM	12,150
	UL-1156193 TMS	SLK
	Total Weight	

Account #: **8070566690**

Carrier's Signature: *[Signature]*

PIP SP
 Collect Dest:

Value: **\$10,000.00** Ship Via: **VENDOR TRUCK**

Date Shipped: []

This is to certify that the above-named material is properly classified, described, packaged, marked and labeled and is in proper condition for transportation to the applicable regulations of the Department of Transportation.
 By: *[Signature]*

Original: Vendor Copies: 2-Accounting, 1-Purchasing, 1-Shipping, 1-Carrier, 1-Packing List

ATK
 CCI/Speer Operations
 2299 Snake River Avenue
 Lewiston, ID 83501
 208-746-2351 FAX 208-746-8275

Debit Memo
 Invoice
 Shipping Order

Number: **7579**

PURCHASED FROM:

SHIP TO:
 EXPLO SYSTEMS
 1600 JAVA ROAD
 MINDEN LA 71055

P O Number/Date: C221403 / 3/29/2012 Vendor Invoice Number/Date: / Return Authorization: Reference w/?'s: S. Hill Date: 3/29/2012

Quantity	Description	Unit Price	Dollar Amount
	POWDER FOR RECYCLING		
12,150 lbs.	Substance, Explosive, N.O.S. 1.4C, UN0479, PGII (wetted double base smokeless powder)		
	EX2004110197		
	EMERGENCY CONTACT: TIM SWITZER - 208-746-2351		
TOTAL:			

Shipping Order-Straight Bill of Lading-Short Form Original-Not Negotiable RECEIVED Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below, in apparent good order, except as noted (contents and condition of contents of packages, unknown,) marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any said property forward hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereat, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Account #: 807056690

Carrier's Signature: *[Signature]*

# of Pkgs	Type of Package	Weight
270	fiber drums	12,150
Total Weight		

PIP SP
 Collect Dest

Value: \$10,000.00 Ship Via: VENDOR TRUCK

Date Shipped:

This is to certify that the above-named material is properly classified, described, packaged, marked and labeled and is in proper condition for transportation to the applicable regulations of the Department of Transportation.

By: *[Signature]*

Original: Vendor Copies: 2-Accounting, 1-Purchasing, 1-Shipping, 1-Carrier, 1-Packing List



PURCHASE ORDER

NUMBER C221403 - 1 PAGE: 1

ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

IDAHO
SALES TAX APPLIES

PURCHASE ORDER NUMBER
MUST APPEAR ON ALL PACKAGES,
BILLS OF LADING AND INVOICES

208 746 2351
FAX 208 746 8275

NORMAL RECEIVING HOURS
6:00 A.M. - 3:00 P.M.
MONDAY THRU THURSDAY

VENDOR

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN LA 71055

SHIP TO

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

VENDOR	SHIP VIA	FOB	TERMS	ORDER DATE	DATE REQUIRED
80205680	BEST WAY	SP	NET 30 DAYS	3/27/12	SEE BODY
ITEM	QUANTITY	UOM	PART NUMBER / DESCRIPTION	DUE DATE	UNIT COST/PER

1	12150.0 LB		POWDER RECYCLING RECLAIMED DOUBLE BASED POWDER FOR RECYCLING (45# GROSS - 40# NET WEIGHT) 270 BARRELS	4/11/12	.00000 LB
---	------------	--	---	---------	------------------

SHIPPING ORDER 7579
CONFIRMING TO LIONEL

Refer questions to: SU HILL 208-750-3146

BY: *Su Hill*
Ammunition Accessories Inc.

This Order is accepted subject to the accompanying Buyer's General Terms and Conditions of Purchase (TC-001)(10/09) and FAR and DFAR Regulations.
The Seller shall comply with all applicable U.S. export control laws in receiving, utilizing and/or disposing of any articles, technical data and/or services provided by the Buyer in connection with this Order, and in transferring or otherwise disposing of any articles, technical data and/or services developed or produced therefrom by the Seller. As provided in the terms and conditions for this Order, no technical data or other items provided by Buyer or developed or produced by the Seller may be exported, transferred or disclosed outside the United States or to any foreign person, unless the Buyer provides written consent and the Seller obtains all required export licenses and/or other approvals from the United States Government.

For export compliance purposes, the Seller shall obtain approval (written or verbal) from the Buyer prior to providing any personnel who are not U.S. Citizens.



Invoice



EXPLO SYSTEMS, INC.
1600 JAVA ROAD
MINDEN, LA 71055-7924
318-382-8700 / 318-382-8434 (Fax)

70205080
1016

DATE	INVOICE #
9/6/2012	3202

BILL TO:
ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

SHIP TO:
CCI/SPEER
2299 Snake River Ave
Lewiston, ID 83501

KEY LAUNCHED

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
C230917	Net 30		9/5/2012	TRUCK		
QUANTITY	ITEM CODE	DESCRIPTION			PRICE EACH	AMOUNT
11,280 Lbs.		RECLAIMED PROPELLANT (282 Drums Received)			0.935	10,546.80

70504440

REC'D SEP 12 2012

for your business.

TOTAL \$10,546.80

ATK
 GCI/Speer
 2299 Snake River Avenue
 Lewiston, ID 83501
 208-746-2351 FAX 208-750-3475

Debit Memo
 Invoice
 Shipping Order

Number: **7988**

PURCHASED FROM:

SHIP TO:
 EXPLO SYSTEMS
 1600 JAVA ROAD
 MINDEN LA 71055

P O Number/Date: C230917 8/8/2012 Vendor Invoice Number/Date: _____ Return Authorization: _____ Reference w/7's: D. Romesburg Date: 8/8/2012

Quantity	Description	Unit Price	Dollar Amount
	POWDER FOR RECYCLING		
12,000 lbs 13,122 lbs	Substance, Explosive, N.O.S. 1.4C, UN0479, PGII (wetted double base smokeless powder)		
11,280 N.E.W.			
	EX2004110197		
	EMERGENCY CONTACT: TIM SWITZER - 208-746-2351		
	<i>Seal # 58</i>		
	<i>Steven P. Simmons Explo Systems, Inc 9-7-12 08:05</i>		
	TOTAL:		

Shipping Order-Straight Bill of Lading-Short Form Original-Not Negotiable RECEIVED Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below, in apparent good order, except as noted (contents and condition of contents of packages, unknown) marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any said property formed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or rail water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Account #: 8070566690

# of Pkgs	Type of Package	Weight
282	Fiber Drums	12,690
	Total Weight	13,122

Carrier's Signature:
R.P.R. Trucking
Alvin P. ...

PIP SP
 Collect Dest

Value: \$10,000.00 Ship Via: VENDOR TRUCK

Date Shipped: 9-5-12

This is to certify that the above-named material is properly classified, described, packaged, marked and labeled and is in proper condition for transportation to the applicable regulations of the Department of Transportation.

By: Mark Tank

Original: Vendor Copies: 2-Accounting, 1-Purchasing, 1-Shipping, 1-Carrier, 1-Packing List

BEST WAY DAVE ROMESBURG 20875
SP

C230917
8/07/12 Page 1
NET 30 DAYS

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN LA 71055

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

1	12000.000 POUNDS	RECYCLING per POUNDS	.93500
	*****		11,220.00
<i>comp</i>	7056	Ammo Reclamation	9/25/12
<i>@</i>		RECLAIMED POWDER FOR RECYCLING	
<i>11,280</i>		(300 X 40 LB DRUMS)	
<i>per acct</i>		Total Stockroom Value: (Dollars)	11,220.00
<i>9-12-12</i>		Total This PO: (Dollars)	11,220.00
<i>PK</i>			

CONFIRMING TO DAVE

S/O 7988

CCI REQUISITION FORM



Requisition No. 248476		Vendor		PO No. C230917		
Explo				Department 7056		
Terms		FOB	Ship Via	Vendor No.	Account No. 6690	
		SP	TANUCL	80205680	Verbal Order Given To - Date	
↓ REQUISITIONER - Please Complete Shaded Areas ↓				<input type="checkbox"/> AR <input type="checkbox"/> Minority <input type="checkbox"/> Taxed <input checked="" type="checkbox"/> Exempt		
Suggested Supplier			Todays Date			
Explo			8/7/2012			
To Be Used For		Dept	Deliver To	Name	Date Wanted	
recycling					9/5/2012	
Receive By		9.25.12				
Qty	Unit	Part No.	Description		Price	Each
300			40# DRUM OF RECLAIMED POWDER FOR RECYCLING		935	lb.
12,000	lb.		300 X 40 lb drums			

Linda - 7988
 Shipping order
 P.O. please

Special Instructions	Requisitioned By
Please schedule for first week of September.	tim switzer
	Approved By
	Switzer, Timothy Hugh
	<input checked="" type="checkbox"/> Approve
	Purchasing Agent
	DSL

NOTICE: If you know that certain items being requisitioned come from different suppliers or from different shipping points PLEASE USE SEPARATE REQUISITIONS FOR THESE ITEMS.



PURCHASE ORDER

NUMBER C230917 - 1 PAGE: 1

ATK - AMMUNITION
CCI/SPEER
PO BOX 856
LEWISTON ID 83501

SALES TAX EXEMPT
NO. 000691828-S

PURCHASE ORDER NUMBER
MUST APPEAR ON ALL PACKAGES,
BILLS OF LADING AND INVOICES

208 746 2351
FAX 208 750 3475

NORMAL RECEIVING HOURS
6:00 A.M. - 3:00 P.M.
MONDAY THRU THURSDAY

VENDOR

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN LA 71055

SHIP TO

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

VENDOR	SHIP VIA	FOB	TERMS	ORDER DATE	DATE REQUIRED
80205680	BEST WAY	SP	NET 30 DAYS	8/07/12	SEE BODY
ITEM	QUANTITY	UOM	PART NUMBER / DESCRIPTION	DUE DATE	UNIT COST/PEP

1 12000.0 LB

RECYCLING
RECLAIMED POWDER FOR RECYCLING
(300 X 40 LB DRUMS)

9/25/12

.93500

LB

CONFIRMING TO DAVE
S/O 7988

COST NOT TO EXCEED:

11220.00

Refer questions to: DAVE ROMESBURG 2087503294

BY: *Dave Romesburg*

This Order is accepted subject to the accompanying Buyer's General Terms and Conditions of Purchase (TC-001) (10/09) and FAR and DFAR Regulations.
The seller shall comply with all applicable U.S. export control laws in receiving, utilizing and/or disposing of any articles, technical data and/or services provided by the Buyer in connection with this Order, and in transferring or otherwise disposing of any articles, technical data and/or services developed or produced therefrom by the Seller. As provided in the terms and conditions for this Order, no technical data or other items provided by Buyer or developed or produced by the Seller may be exported, transferred or disclosed outside the United States or to any foreign person, unless the Buyer provides written consent and the Seller obtains all required export licenses and/or other approvals from the United States Government.

For export compliance purposes, the Seller shall obtain approval (written or verbal) from the Buyer prior to providing any personnel who are not U.S. Citizens.



POMP

013989

BEST WAY DAVE ROMESBURG 20875
SP

C199267
5/24/11 Page 1
NET 30 DAYS

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN LA 71055

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

1	10400.000 LB	RECYCLE per LB	.93500
	*****		9,724.00
	7056	Ammo Reclamation	6/03/11
		RECLAIMED DOUBLE BASE POWDER 40# NET	
		(45# GROSS) 260 DRUMS @ 40 LBS	

Total Stockroom Value: (Dollars)	9,724.00
Total This PO: (Dollars)	9,724.00

SHIPPING ORDER #6603

CONFIRMING TO DAVID

COBO

8-5-11

PK

CCI REQUISITION FORM

speer

Requisition No. 238748		Vendor		PO No. C199267	
Explo		Department 7056		Account No. 6690	
Terms	FOB	Ship Via	Vendor No.	<input type="checkbox"/> AR	Verbal Order Given To - Date
	SP	TAWK	80205680	<input checked="" type="checkbox"/> Minority	David
↓ REQUISITIONER - Please Complete Shaded Areas ↓				<input checked="" type="checkbox"/> Taxed	5-24-11
Suggested Supplier			Todays Date		
Explo Systems			5/24/2011		
To Be Used For	Dept	Deliver To	Name	Date Wanted	Receive By
recycling				6/3/2011	6-3-11
Qty	Unit	Part No.	Description	Price	Each
280			DRUM OF RECLAIMED DOUBLE BASE POWDER 40# NET (45# GROSS)	935	lb.
10,400 lb.		(260 drums x 40 lb.)			

L - P.O. &
 shipping order
 -DSM
 REC 3

Special Instructions	Requisitioned By
Will need a shipping order	tim switzer
	Approved By
	Switzer, Timothy Hugh
	<input checked="" type="checkbox"/> Approve
	Purchasing Agent
	<i>[Signature]</i>

NOTICE: If you know that certain items being requisitioned come from different suppliers or from different shipping points PLEASE USE SEPARATE REQUISITIONS FOR THESE ITEMS.

Tuesday May 24 2011

013991



PURCHASE ORDER

ATK
CCI/SPEER OPERATIONS
PO BOX 856
LEWISTON ID 83501

SALES TAX EXEMPT
NO. 001042008-S

NUMBER C199267 - 1 PAGE: 1

PURCHASE ORDER NUMBER
MUST APPEAR ON ALL PACKAGES,
BILLS OF LADING AND INVOICES

208 746 2351
FAX 208 746 8275

NORMAL RECEIVING HOURS
6:00 A.M. - 3:00 P.M.
MONDAY THRU THURSDAY

VENDOR

EXPLO SYSTEMS
1600 JAVA ROAD
MINDEN LA 71055

SHIP TO

CCI/Speer
2299 Snake River Ave
Lewiston, ID 83501

VENDOR	SHIP VIA	FOB	TERMS	ORDER DATE	DATE REQUIRED
80205680	BEST WAY	SP	NET 30 DAYS	5/24/11	SEE BODY
ITEM	QUANTITY	UOM	PART NUMBER / DESCRIPTION	DUE DATE	UNIT COST/PER

1 10400.0 LB

RECYCLE
RECLAIMED DOUBLE BASE POWDER 40# NET
(45# GROSS) 260 DRUMS @ 40 LBS

6/03/11

.93501

LB

SHIPPING ORDER #6603
CONFIRMING TO DAVID

COST NOT TO EXCEED:

9724.00

For questions to: DAVE ROMESBURG 2087503294

BY: *Dave Romesburg*
Ammunition Accessories Inc.

This Order is accepted subject to the accompanying Buyer's General Terms and Conditions of Purchase (TC-001)(10/09) and FAR and DFAR Regulations.
The seller shall comply with all applicable U.S. export control laws in receiving, utilizing and/or disposing of any articles, technical data and/or services provided by the Buyer in connection with this Order, and in transferring or otherwise disposing of any articles, technical data and/or services developed or produced therefrom by the Seller. As provided in the terms and conditions to this Order, no technical data or other items provided by Buyer or developed or produced by the Seller may be exported, transferred or disclosed outside the United States or to any foreign person, unless the Buyer provides written consent and the Seller obtains all required export licenses and/or other approvals from the



11/15/05

FEDERAL CARTRIDGE COMPANY
PURCHASE ORDER REQUISITION

F964269

DATE 11/15/05

P.O. NO. ~~624610~~

Vendor 624610

10 Systems - 1704 4th St, Linden, LA 71055

U: N+9 Singer (318) 382-8700

518 382 6434

Suggested Source: _____

IA
IN
INCLUDES FRT
ALONG SIDE
AID & ADD
IAL

TERMS:	
N30	NET 30 DAYS
N45	NET 45 DAYS
N60	NET 60 DAYS
A	1% 10 NET 30
B	2% 10 NET 30
C	1% 15 NET 30
D	1/2% 10 NET 30
E	1% 10 NET 60
SPL	SPECIAL

SHIP VIA:	
UPS	UPS
TRK	TRUCK
AIR	AIR FREIGHT
RR	RAIL CARRIER
FED	FEDERAL EXPRESS
WAY	BEST WAY

DELIVERY DATE		
MO	DAY	YR
12	07	05

HOLD HARMLESS AGREEMENT	_____
DRUG TEST	_____
CERTIFICATE OF INSURANCE	_____
CONFIDENTIALITY AGREEMENT	_____

Unit of Measure	Description	Federal R/M No.	Account	Work Center Charged	Work Center Delivered
2 lbs	Scrap powder for recycle (38,000 lbs) x (\$0.95 per lb) = \$36,100 \$12,000 Net 30 Days \$24,000 Net 60 Days		666	1101	
Please call Greg Grindis (x3703) with PO # ✓					

Confirmation: Carl
 Date: _____
 by: _____

Approved: [Signature] (date) 15 Nov 05
 (Dept. Head)
 Approved: _____ (date) _____
 Approved: [Signature] (date) 11/18/05
 (V.P.) (E.V.P.)

Req. Date 11/15/05

FEDERAL CARTRIDGE COMPANY
PURCHASE ORDER REQUISITION

F964069

DATE 11/15/05

Explo Systems, 1704 4th St, Linden, LA 71055
ATTN: N79 Singer (318) 382-8700

318 382 8734

P.O. NO. ~~10000000~~

Vendor 624610

Suggested Source: _____

FOB: ANOKA
ORI ORIGIN
CIF COST INCLUDES FRT
FAS FREE ALONG SIDE
PPA PREPAID & ADD
SPL SPECIAL

TERMS:
N30 NET 30 DAYS
N45 NET 45 DAYS
N60 NET 60 DAYS
A 1% 10 NET 30
B 2% 10 NET 30
C 1% 15 NET 30
D 1/2% 10 NET 30
E 1% 10 NET 60
SPL SPECIAL

SHIP VIA:
UPS UPS
TRK TRUCK
AIR AIR FREIGHT
RR RAIL CARRIER
FED FEDERAL EXPRESS
WAY BEST WAY

DELIVERY DATE
MO DAY YR
12 07 05

HOLD HARMLESS AGREEMENT _____
DRUG TEST _____
CERTIFICATE OF INSURANCE _____
CONFIDENTIALITY AGREEMENT _____

Quantity	Unit of Measure	Description	Federal R/M No.	Account	Work Center Charged	Work Center Delivered
38,000	lbs	Scrap powder for recycle (38,000 lbs) x (\$0.95 per lb) = \$36,100 \$12,000 Net 30 Days \$24,000 Net 60 Days		666	1101	
Please call Greg Grino/s (x3703) with PO # ✓						

Confirmation Carl
Deliver to _____
Requested by _____
Justification _____

Approved: [Signature] (date) 15 Nov 05
Approved: [Signature] (date) _____
Approved: [Signature] (date) 11/18/05
Est. cost \$36,100
(V.P.) (E.V.P.)



EXPLO SYSTEMS
1600 JAVA RD
MINDEN LA 71055
(318) 382-8700

Invoice

DATE	INVOICE #
3/19/2008	1978

BILL TO:

Federal Cartridge Company
Attn: Steve Rauschendorfer
900 Ehlen Drive
Anoka, MN 55303

SHIP TO:

Federal Cartridge Company
900 Ehlen Drive
Anoka, MN 55303

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
F115148	Net 15		3/19/2008	Federal Trk		
QUANTITY	ITEM CODE	DESCRIPTION			PRICE EACH	AMOUNT
22,776 Lbs.		Recycle Smokeless Powder			0.95	21,637.20

Thank you for your business.

TOTAL \$21,637.20

Salwei, Tracy

From: Stephan, Lori
Sent: Monday, September 21, 2009 11:39 AM
To: Shead, David
Cc: Pederstuen, Anita
Subject: Environmental Audit

David,

Can you tell me if ATK has performed an audit on the following facility or if any other ATK facilities are currently using this place?
Kentucky Powder Company
Mullins Station
Mt. Vernon, KY

Thanks!

Lori

Lori Stephan
Environmental & Safety Engineer
Federal Premium Ammunition - ATK
Voice: 763-323-3703
Cell: 763-567-9759
Email: Lori.Stephan@ATK.com
Web: www.federalpremium.com

Salwei, Tracy

From: Stephan, Lori
Sent: Friday, October 09, 2009 3:17 PM
To: Persoon, Jim; Pederstuen, Anita
Subject: FW: Federal Propellant Shipment

Just as we suspected, our last shipment of propellant/buffer is still in Minden at the Explo facility and has not been processed.

Lori

Lori Stephan
Environmental & Safety Engineer
Federal Premium Ammunition - ATK
Voice: 763-323-3703
Cell: 763-567-9759
Email: Lori.Stephan@ATK.com
Web: www.federalpremium.com

From: David Smith [<mailto:davidasmith@explosystems.com>]
Sent: Friday, October 09, 2009 1:31 PM
To: Stephan, Lori
Subject: RE: Federal Propellant Shipment

Lori: Sorry for the delay but I wanted to check on a few things before replying.

The material that we took in last year is still in Minden waiting to move to the new plant in Kentucky.

I have a meeting on Monday in Kentucky to discuss progress on the plant, and I will e mail you on Monday if that is all right.

Thanks,

Dave

From: Stephan, Lori [<mailto:Lori.Stephan@ATK.COM>]
Sent: Thursday, October 01, 2009 12:45 PM
To: David Smith
Subject: Federal Propellant Shipment

Good morning David,

The last shipment of propellant/buffer mixture we sent to Explo was in March/April 2008. I'm reviewing Steve's files and can not find a certificate or proof of processing/destruction. Is that material still sitting at the Explo facility in Minden? If you have processed this shipment please send me proof of processing no later than Friday, October 9. Thanks.

Lori

Lori Stephan
Environmental & Safety Engineer
Federal Premium Ammunition - ATK
Voice: 763-323-3703
Cell: 763-567-9759
Email: Lori.Stephan@ATK.com
Web: www.federalpremium.com

Salwei, Tracy

From: Stephan, Lori
Sent: Monday, September 21, 2009 4:11 PM
To: Pederstuen, Anita
Subject: FW: Powder for Shipment

Lori

Lori Stephan
Environmental & Safety Engineer
Federal Premium Ammunition - ATK
Voice: 763-323-3703
Cell: 763-567-9759
Email: Lori.Stephan@ATK.com
Web: www.federalpremium.com

From: David Smith [<mailto:davidasmith@explosystems.com>]
Sent: Monday, September 21, 2009 4:05 PM
To: Stephan, Lori
Subject: RE: Powder for Shipment

Lori: The facility in Kentucky is the storage and plant location for Kentucky Powder Company.

Ky Powder is owned by Ed McGhee who is also one of the owners of Explo Systems. So there is cross Ownership and cooperation between Explo and Ky Powder on the plant where we will be using your powder.

Hope that this helps,

Dave

From: Stephan, Lori [<mailto:Lori.Stephan@ATK.COM>]
Sent: Monday, September 21, 2009 4:45 PM
To: David Smith
Cc: Pederstuen, Anita
Subject: RE: Powder for Shipment

David,

Is this KY facility part of Explo Systems? Please send me additional information on this site. Thanks.

Lori

Lori Stephan
Environmental & Safety Engineer
Federal Premium Ammunition - ATK
Voice: 763-323-3703
Cell: 763-567-9759

Email: Lori.Stephan@ATK.com

Web: www.federalpremium.com

From: David Smith [<mailto:davidasmith@explosystems.com>]

Sent: Wednesday, September 09, 2009 12:51 PM

To: Stephan, Lori

Subject: RE: Powder for Shipment

Lori: Yes, as long as both pallets can be moved via pallet jack from nose of trailer to rear.

Does that make sense?

Dave

From: Stephan, Lori [<mailto:Lori.Stephan@ATK.COM>]

Sent: Wednesday, September 09, 2009 9:31 AM

To: David Smith

Subject: RE: Powder for Shipment

Can the pallets be double stacked?

Lori

Lori Stephan

Environmental & Safety Engineer

Federal Premium Ammunition - ATK

Voice: 763-323-3703

Cell: 763-567-9759

Email: Lori.Stephan@ATK.com

Web: www.federalpremium.com

From: David Smith [<mailto:davidasmith@explosystems.com>]

Sent: Tuesday, September 08, 2009 1:09 PM

To: Stephan, Lori

Subject: RE: Powder for Shipment

Lori: The powder can be shipped directly to Kentucky: Kentucky Powder Company

Mullins Station

Mt. Vernon, KY

Attn: Mr. Ed McGhee

Shipment should be palletized.

Thanks,

Dave

From: Stephan, Lori [<mailto:Lori.Stephan@ATK.COM>]

Sent: Thursday, August 27, 2009 10:53 AM

To: David Smith

Subject: RE: Powder for Shipment

Please let me know who your preferred carrier is along with any specific trailer loading/packing instructions. I will begin coordinating with our Shipping/DOT Department once I hear back from you. Thanks so much!!!

Lori

Lori Stephan
Environmental & Safety Engineer
Federal Premium Ammunition - ATK
Voice: 763-323-3703
Cell: 763-567-9759
Email: Lori.Stephan@ATK.com
Web: www.federalpremium.com

From: David Smith [<mailto:davidasmith@explosystems.com>]
Sent: Thursday, August 27, 2009 8:57 AM
To: Stephan, Lori
Subject: RE: Powder for Shipment

Lori: Thanks for the update. If you want to schedule a truck for the 1st half for September let me know.

We will ship directly to Kentucky.

Dave

From: Stephan, Lori [<mailto:Lori.Stephan@ATK.COM>]
Sent: Thursday, August 27, 2009 9:32 AM
To: davidasmith@explosystems.com
Subject: Powder for Shipment

David,

Thanks for chatting yesterday. I did an inventory of scrap propellant/buffer and we have more than I thought. We are sitting on approximately 37K lbs.

Lori

Lori Stephan
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David,

Is this KY facility part of Explo Systems? Please send me additional information on this site. Thanks.

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Web: www.federalpremium.com

From: David Smith [<mailto:davidasmith@explosystems.com>]
Sent: Tuesday, September 08, 2009 1:09 PM
To: Stephan, Lori
Subject: RE: Powder for Shipment

Lori: The powder can be shipped directly to Kentucky: Kentucky Powder Company
Mullins Station
Mt. Vernon, KY
Attn: Mr. Ed McGhee

Shipment should be palletized.

Thanks,

Dave

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Please let me know who your preferred carrier is along with any specific trailer loading/packing instructions. I will begin coordinating with our Shipping/DOT Department once I hear back from you. Thanks so much!!!

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Lori Stephan
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Federal Premium Ammunition - ATK
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Environmental & Safety Engineer
Federal Premium Ammunition - ATK
Voice: 763-323-3703
Cell: 763-567-9759
Email: Lori.Stephan@ATK.com
Web: www.federalpremium.com

Salwei, Tracy

From: Stephan, Lori
Sent: Monday, September 21, 2009 4:12 PM
To: David Smith
Cc: Pederstuen, Anita
Subject: RE: Powder for Shipment

What is the timeframe before the Minden facility is up and running all cylinders?

Lori

Lori Stephan
Environmental & Safety Engineer
Federal Premium Ammunition - ATK
Voice: 763-323-3703
Cell: 763-567-9759
Email: Lori.Stephan@ATK.com
Web: www.federalpremium.com

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To: Stephan, Lori
Subject: RE: Powder for Shipment

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Lori

Lori Stephan
Environmental & Safety Engineer
Federal Premium Ammunition - ATK
Voice: 763-323-3703
Cell: 763-567-9759
Email: Lori.Stephan@ATK.com
Web: www.federalpremium.com

From: David Smith [<mailto:davidasmith@explosystems.com>]
Sent: Thursday, August 27, 2009 8:57 AM
To: Stephan, Lori
Subject: RE: Powder for Shipment

Lori: Thanks for the update. If you want to schedule a truck for the 1st half for September let me know.

We will ship directly to Kentucky.

Dave

From: Stephan, Lori [<mailto:Lori.Stephan@ATK.COM>]
Sent: Thursday, August 27, 2009 9:32 AM
To: davidasmith@explosystems.com
Subject: Powder for Shipment

David,

Thanks for chatting yesterday. I did an inventory of scrap propellant/buffer and we have more than I thought. We are sitting on approximately 37K lbs.

Lori

Lori Stephan
Environmental & Safety Engineer
Federal Premium Ammunition - ATK
Voice: 763-323-3703
Cell: 763-567-9759
Email: Lori.Stephan@ATK.com
Web: www.federalpremium.com



EXPLO SYSTEMS
 1702 FOURTH ST.
 MINDEN, LA 71055
 (318) 382-8700

Invoice

DATE	INVOICE #
12/6/2006	1760

BILL TO:

Federal Cartridge Company
 900 Ehlen Drive
 Anoka, MN 55303

SHIP TO:

Federal Cartridge Company
 900 Ehlen Drive
 Anoka, MN 55303

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
F064069	Net 30		12/5/2006	Prestara		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
19,320 Lbs.		(Lbs) Smokeless Powder	0.95	18,354.00

Delivered to Minden, LA

NOZINE

*OO 621010
11016666*

ENTERED
 DEC 20 2006

*OK
by [unclear]
6666-1101*

RECEIVED DEC 11 2006

*OK to pay
J. R. Person
19 Dec 06*

Thank you for your business.

TOTAL \$18,354.00

F121364

Invoice

EXPLO SYSTEMS, INC.
EXPLO SYSTEMS
1600 JAVA RD
MINDEN LA 71055
(318) 382-8700

DATE	INVOICE #
3/19/2008	1978

BILL TO:

Federal Cartridge Company
Attn: Steve Rauschendorfer
900 Ehlen Drive
Anoka, MN 55303

SHIP TO:

Federal Cartridge Company
900 Ehlen Drive
Anoka, MN 55303

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
F115148	Net 15		3/19/2008	Federal Trk		
QUANTITY	ITEM CODE	DESCRIPTION			PRICE EACH	AMOUNT
22,776 Lbs.		Recycle Smokeless Powder			0.95	21,637.20

6666-1101

OK

Steve Rauschendorfer

6240
11014444

OK to pay

James Peterson
20 June 08

ENTIRETY
Steve Rauschendorfer

JUN 25 2008

Thank you for your business.

TOTAL \$21,637.20



014015



014016



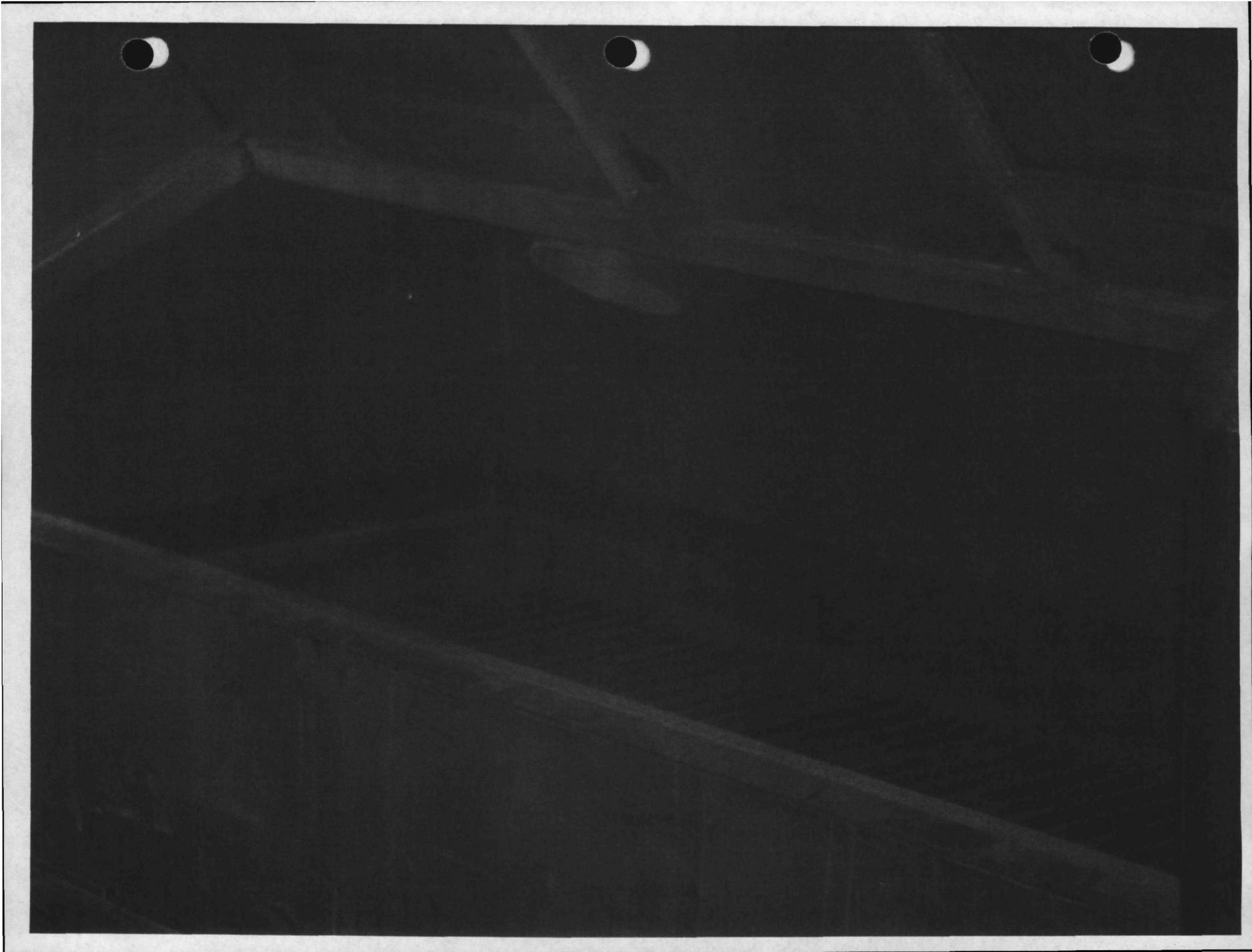
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014018



014019

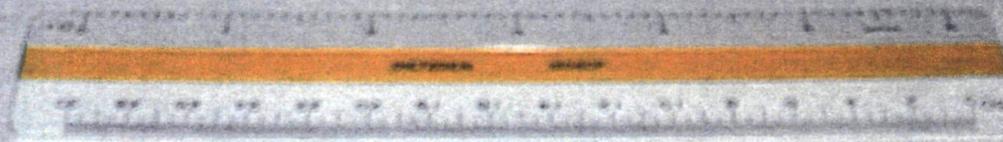


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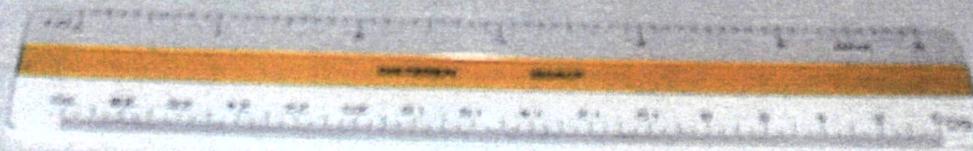
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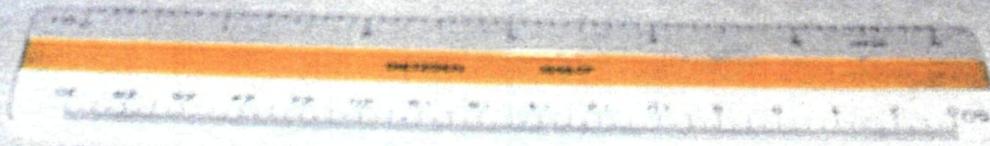
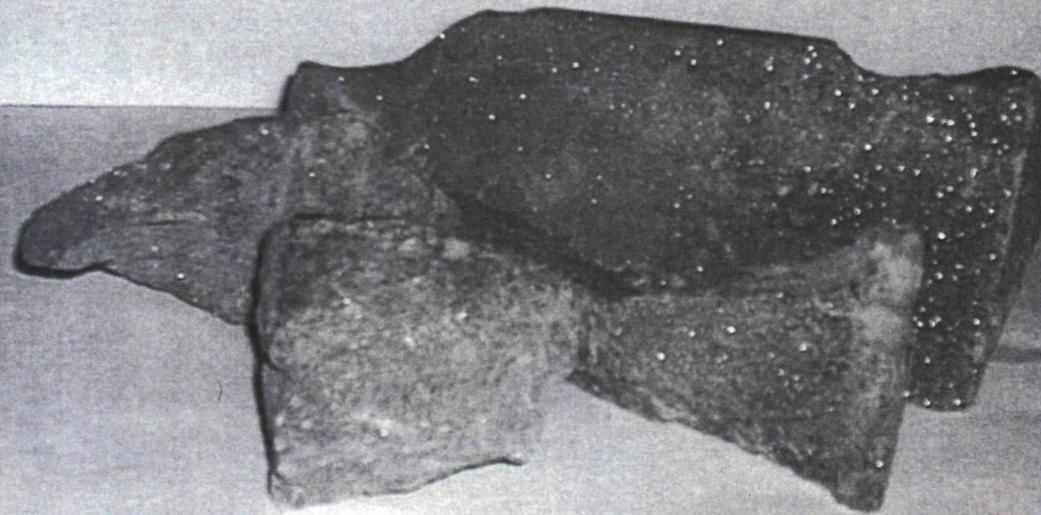
RECLAIMED TNT



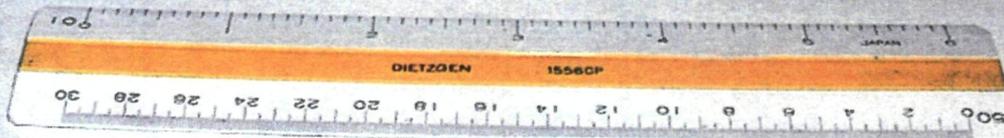
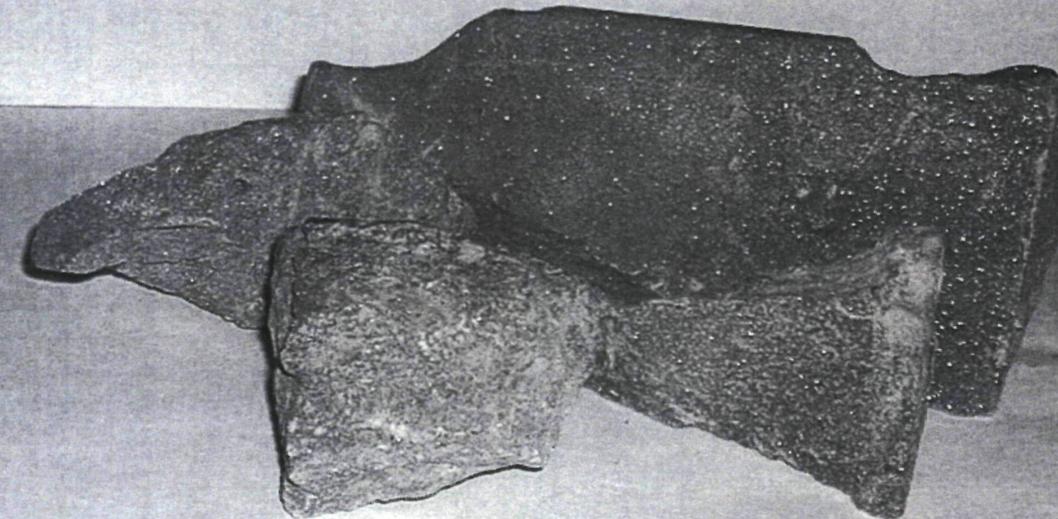
RECLAIMED TNT



RAW TRITONAL



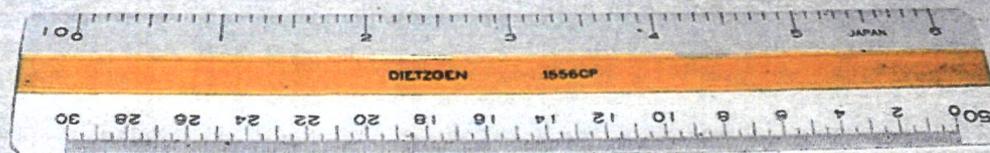
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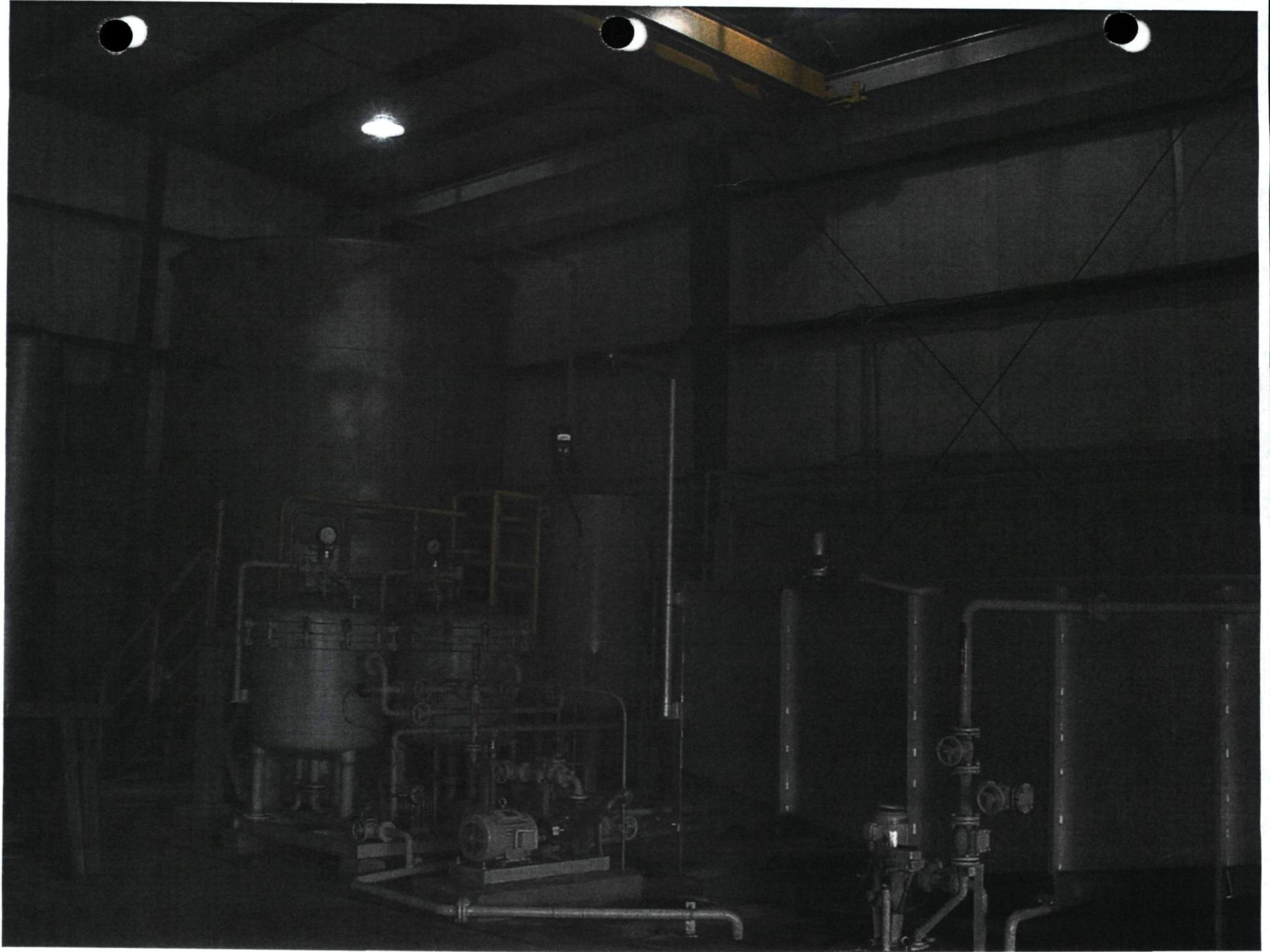


TRITONAL

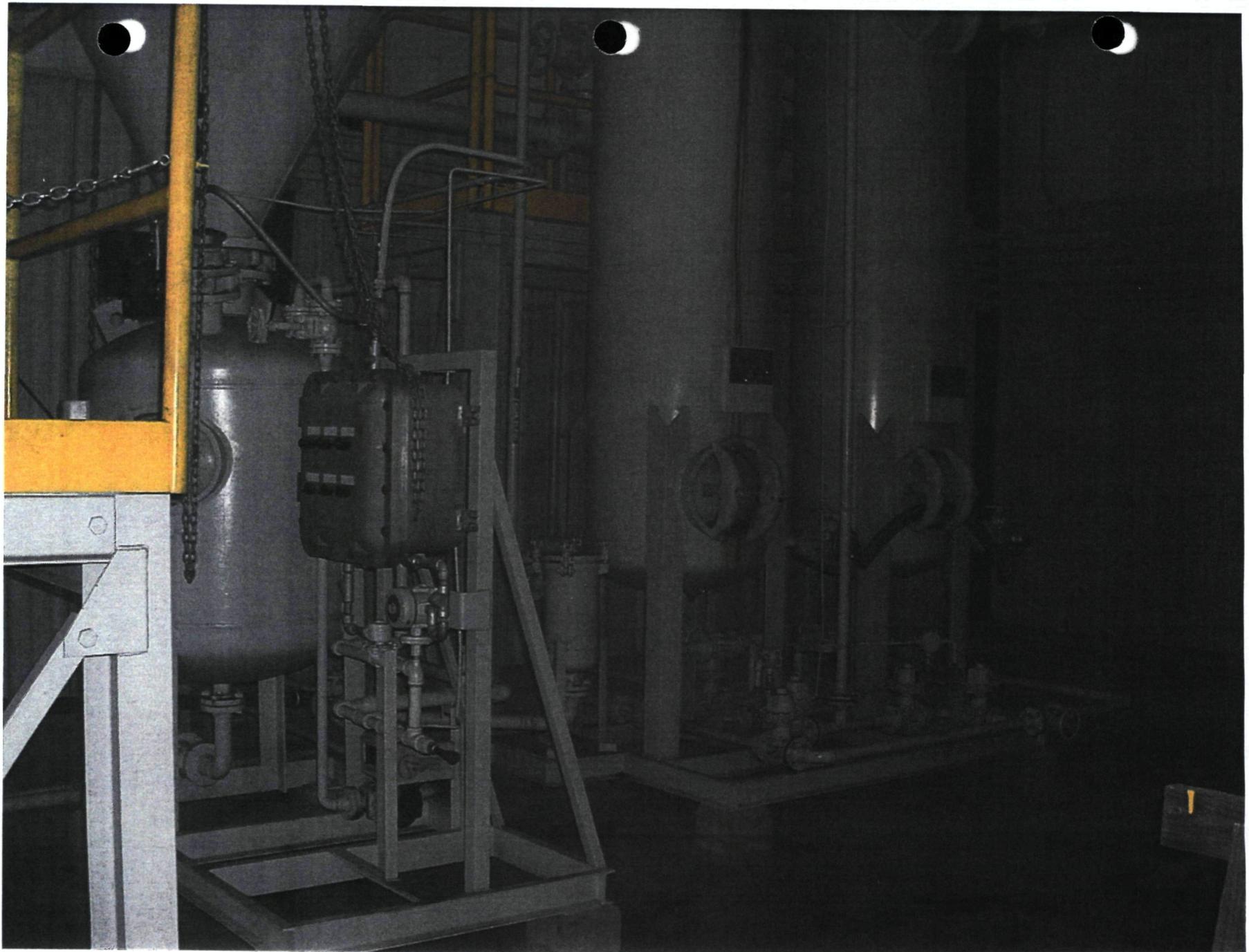


TRITONAL





014028



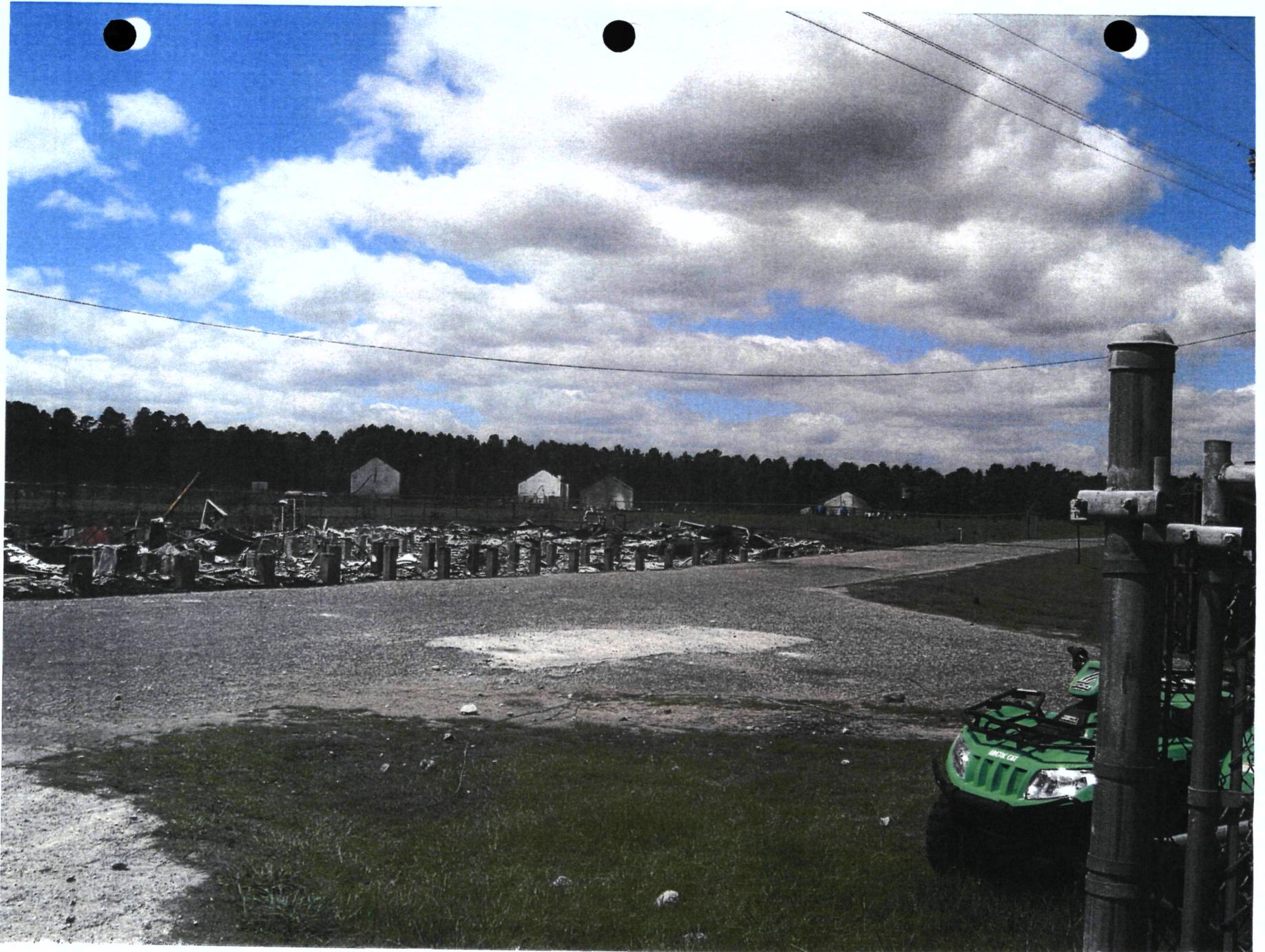
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014031



014032



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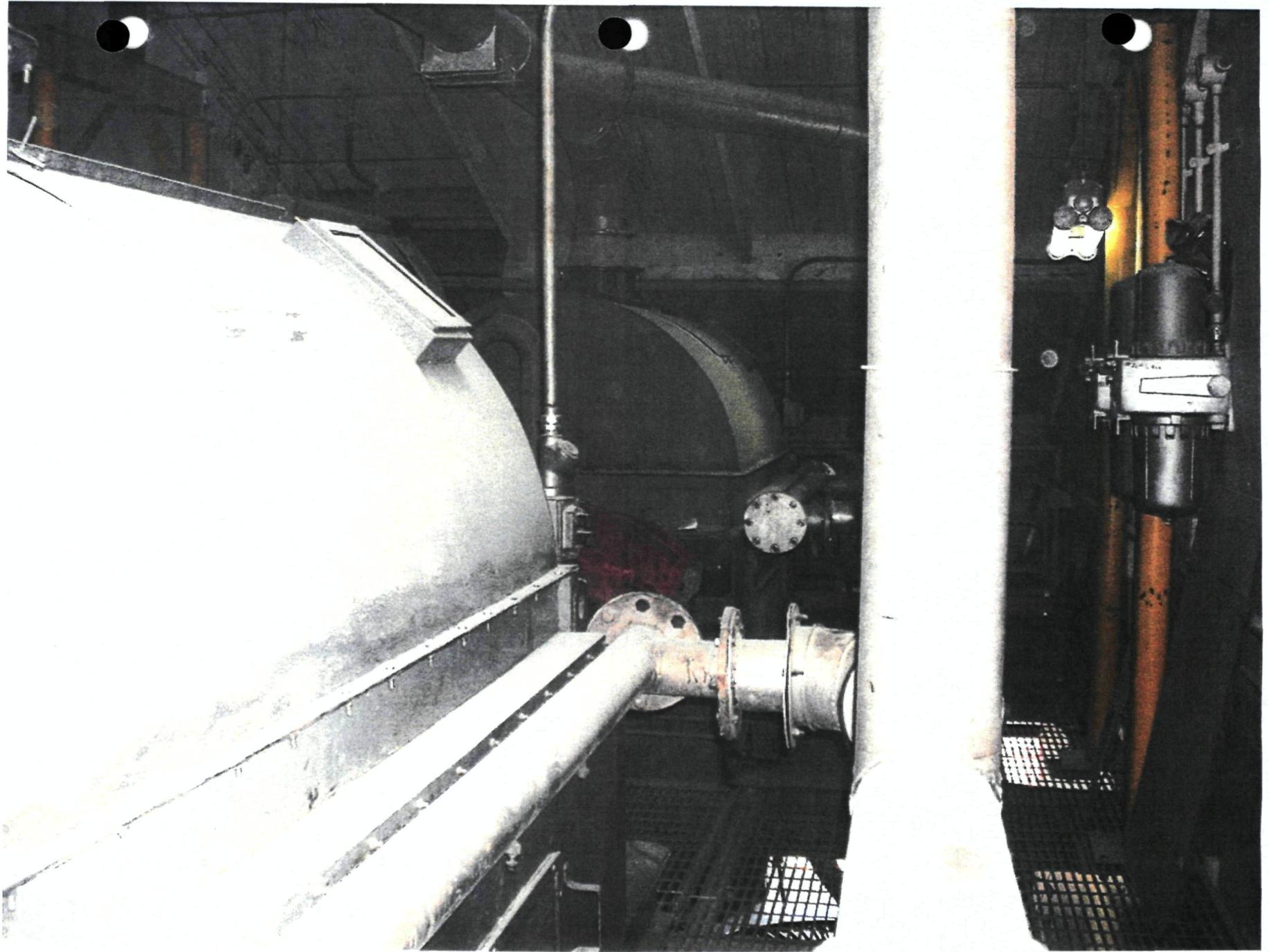
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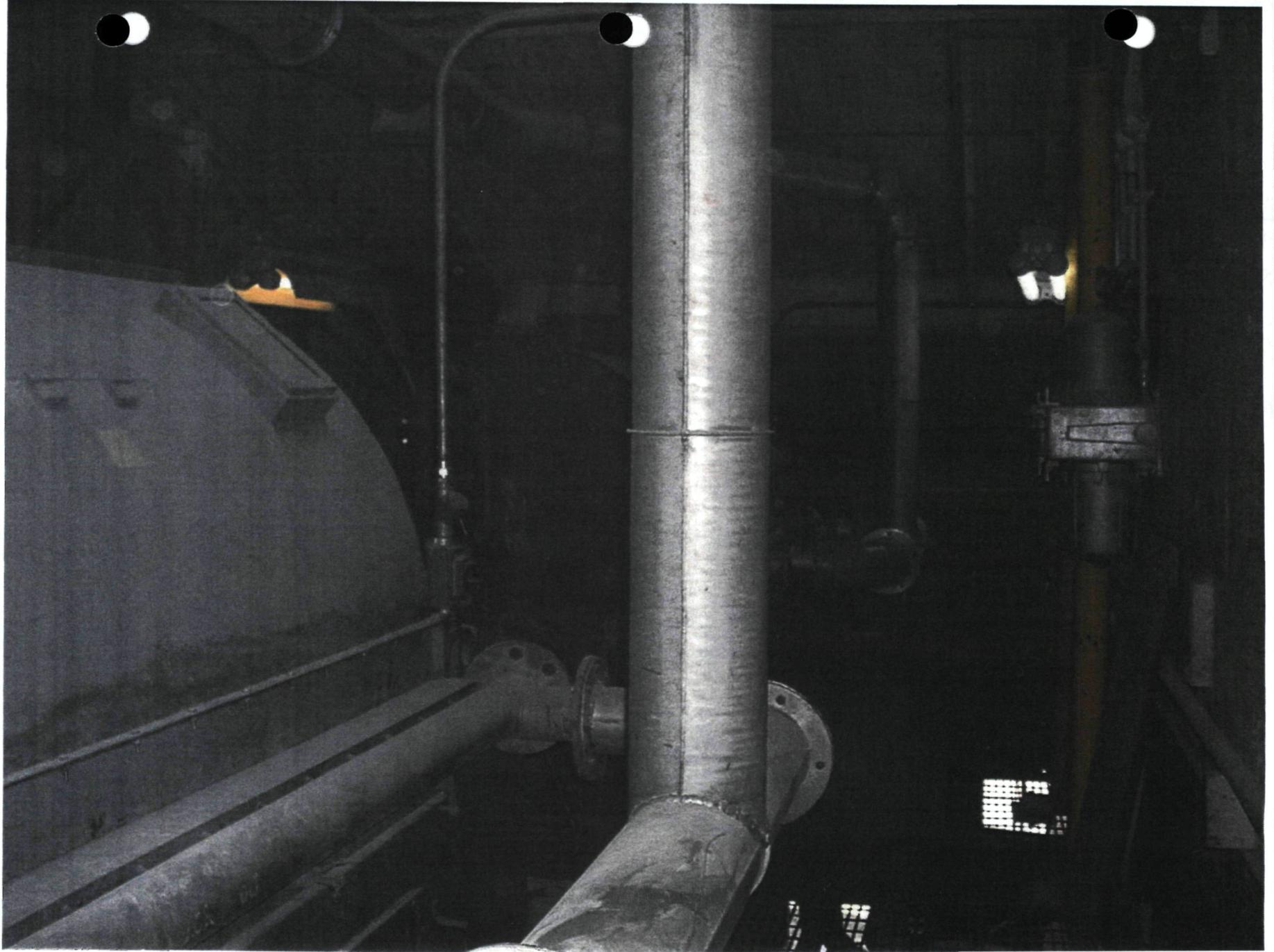
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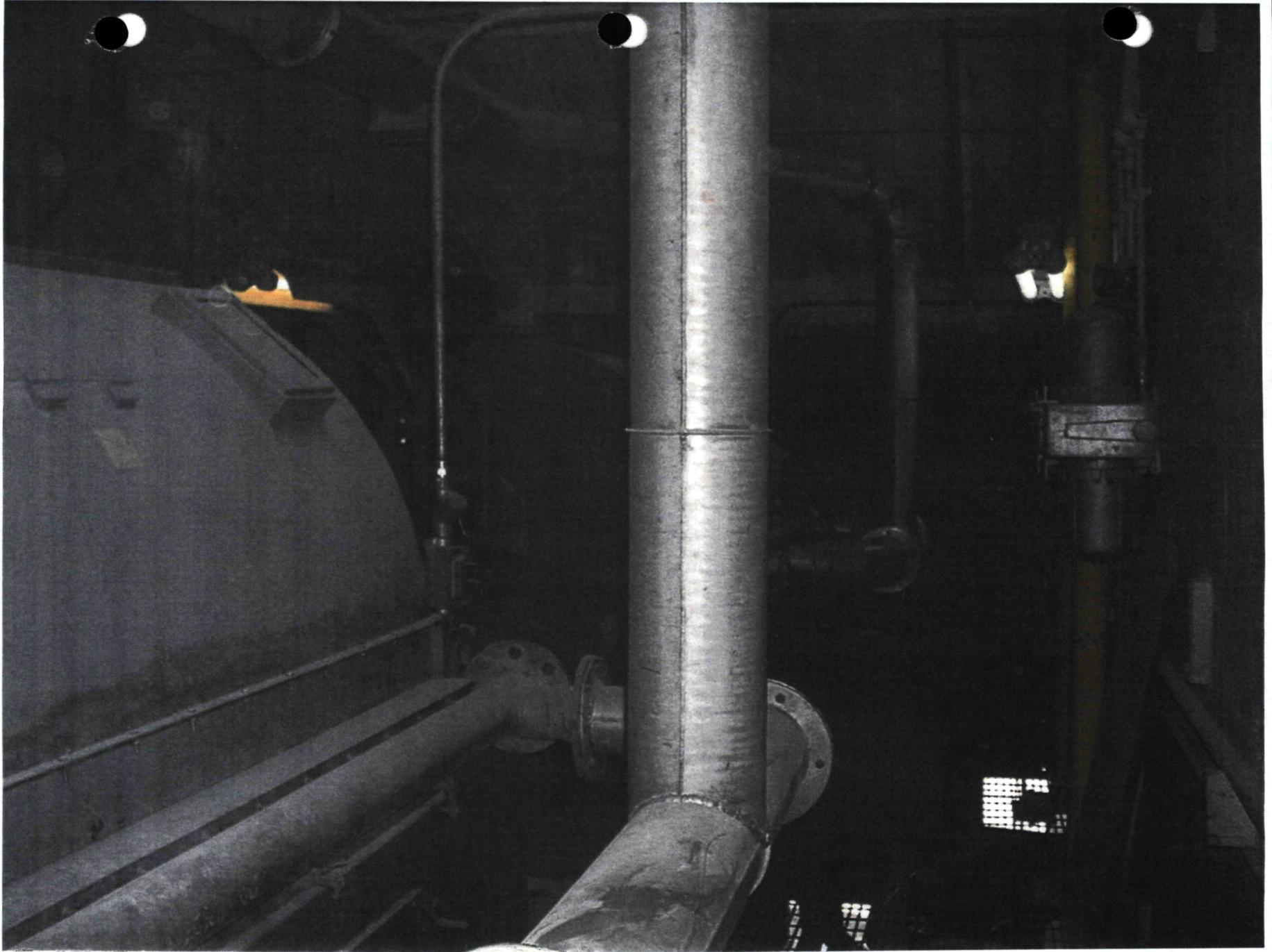
014037



014038



014039



014040



014041





Radford Army Ammunition Plant
P.O. Box 1
Radford, VA 24141-0100

Date: May 16, 2005

Subject: Safety Audit – Explo Systems, Inc.

To: Mr. David Fincher
Mr. David Smith
Mr. Ken Lampkin

From: Paul McMillian
Organization: AAE Safety
Telephone: (540) 639-8671

Cc: Mr. Earl Lemon
Mr. David Worrell
Mr. Donal Hall

A safety audit was conducted at Explo Systems, Inc. on May 3rd and 4th, 2005. The writer would like to thank Mr. Tommy Burge and Mr. Ken Lampkin for their cooperation and assistance during the audit.

The following observations/problems were noted during the audit. Please provide written responses to the items by June 17th, 2005.

1. **Observation**

With the exception of one employee, all other employees working at the flaker and pack-out operations were not wearing protective safety glasses.

Problem

There are serious eye hazards associated with these operations. Molten TNT can be splashed into the eyes. Additionally Chips/Flakes of TNT can be generated while handling the Tritonal chunks.

Recommendation

All employees working at these operations must wear eye protection in accordance with OSHA 1910.133 requirements. ATK recommends a minimum of safety glasses with side shields and a face shield.

Deleted: should



Regulatory Requirements

OSHA 29CFR Part 1910.133(a)(1)

The employer shall ensure that each affected employee uses appropriate eye or face protection when exposed to eye or face hazards from flying particles, molten metal, liquid chemicals, acids or caustic liquids, chemical gases or vapors, or potentially injurious light radiation.

2. Observation

Employees at the flaker and pack-out operations were not wearing protective gloves. An employee at the flaker discharge chute had a thick TNT residue on his hands.

Problem

TNT exposure can result in anemia and other health hazards. Direct exposure to vapors, skin contact, and potential ingestion put personnel at risk.

Recommendation

Require all employees working at these operations to wear impervious gloves.

Regulatory Requirements

OSHA 29CFR Part 1910.138(a) *General requirements.*

Employers shall select and require employees to use appropriate hand protection when employees' hands are exposed to hazards such as those from skin absorption of harmful substances; severe cuts or lacerations; severe abrasions; punctures; chemical burns; thermal burns; and harmful temperature extremes.



3. **Observation**

Employees at Explo do not wear any outer protective garments/coveralls. Employees were observed with heavy TNT residue on personal clothing.

Problem

TNT exposure can result in anemia and other health hazards. Direct exposure to vapors, skin contact, and potential ingestion put personnel at risk.

Recommendation

Ensure employees do not wear contaminated clothing home and that heavily contaminated clothing is properly decontaminated or disposed of. Also, ensure that employees do not contaminate their lunchroom and bathrooms with contaminated clothing. Explo Management should evaluate the use of protective coveralls.

Regulatory Requirements

OSHA 29CFR Part 1910.132(a) *Application.*

Protective equipment, including personal protective equipment for eyes, face, head, and extremities, protective clothing, respiratory devices, and protective shields and barriers, shall be provided, used, and maintained in a sanitary and reliable condition wherever it is necessary by reason of hazards of processes or environment, chemical hazards, radiological hazards, or mechanical irritants encountered in a manner capable of causing injury or impairment in the function of any part of the body through absorption, inhalation or physical contact.



DoD 4145.26M C3.12. **Special Clothing**

C3.12.1. A changing area shall be established for employees who must remove their street clothes to wear special clothing (explosives plant clothing, anti-contamination clothing, impervious clothing, and so forth). To avoid exposing people not involved in A&E operations to unnecessary risks, special clothing worn during A&E operations shall not be worn or taken away from the premises. Special clothing should not be altered. Cotton undergarments, including socks, shall be worn whenever static electricity is a hazard.

C3.12.2. Explosives plant clothing, generally referred to as powder uniforms, shall be fastened with nonmetallic fasteners and easily removable. Pockets should be of the lattice type. Pants and sleeves should be tapered and without cuffs, and pants should extend over the tops of footwear. These garments should be flame resistant or made of flame retardant material. Each plant should have laundering facilities available for removing contaminants from explosives plant clothing. Hazardous waste procedures should be established for the laundry. Regular testing shall verify the effectiveness of the laundering operations.

C3.12.3. When explosives-contaminated clothing is sent to an off-plant laundry



facility, the contractor is responsible for informing the laundry of the hazards associated with the contamination and any special laundering or disposal requirements.

4. **Observation**

Employees at the flaker and pack-out operations were observed wearing wristwatches.

Problem

Personal jewelry and wristwatches can be lost into the product stream and operating equipment with the likely potential for process upsets and serious incidents.

Recommendation

Prohibit employees from wearing wristwatches and jewelry due to the potential for foreign material contamination and employee injury if caught/entangled in operating machinery. Medical alert medallions can be allowed, but they must be worn underneath clothing.

Regulatory Requirements

DoD 4145.26M C3.16. **Prohibited Articles in Hazardous Areas**

Except as authorized, personnel shall not carry matches, cigarette lighters, or other flame-producing devices into explosives areas. Personal articles that increase existing hazards are also prohibited.

Section 5(a)(1) of the Occupational Safety and Health Act (the "General Duty Clause")

Employers are required to furnish a workplace, which is free from recognized hazards, which may cause or are likely to cause death or serious physical harm.



5. Observation

An employee working at the flaker discharge chute was observed wearing a "dust mask". All other employees at the flaker and pack-out operations were not wearing any type of respiratory protection.

Problem

TNT exposure can result in anemia and other health hazards. Direct exposure to vapors, skin contact, and potential ingestion put personnel at risk.

Recommendation

Provide documentation of exposure monitoring which determined that respiratory protection is not required.

Regulatory Requirements

OSHA 29CFR Part 1910.134 Respiratory Protection

In the control of those occupational diseases caused by breathing air contaminated with harmful dusts, fogs, fumes, mists, gases, smokes, sprays, or vapors, the primary objective shall be to prevent atmospheric contamination. This shall be accomplished as far as feasible by accepted engineering control measures (for example, enclosure or confinement of the operation, general and local ventilation, and substitution of less toxic materials). When effective engineering controls are not feasible, or while they are being instituted, appropriate respirators shall be used pursuant to this section

Respirators shall be provided by the employer when such equipment is necessary to protect the health of the employee. The employer shall provide the respirators, which are applicable and suitable for the purpose intended. The employer shall be responsible for the establishment and maintenance of a respiratory protection program



6. **Observation**

Empty drink containers and food wrappers were observed in trash containers in the production areas.

Problem

TNT exposure can result in anemia and other health hazards. Direct exposure to vapors, skin contact, and potential ingestion put personnel at risk.

Recommendation

Prohibit the consumption of all food and drinks within the production areas. A drinking water container, provided for employee use, should be positioned away from operations to eliminate potential contamination.

Regulatory Requirements

OSHA 29CFR Part 1910.141(g)(2)

Eating and drinking areas. No employee shall be allowed to consume food or beverages in a toilet room nor in any area exposed to a toxic material.

7. **Observation**

The receiving/loading dock area was very congested with materials and equipment. Incoming pallets of energetic materials were stored adjacent to waste energetic materials. In the holding area, there were several pallets of waste materials stored behind packed boxes of TNT.

Problem

With the congestion in this area, there is the potential for material confusion and possible employee injury.

Recommendation

Remove waste materials from area and evaluate use of another loading dock/holding area for "outgoing" energetic materials.



Regulatory Requirements

DoD 4145.26M C3.4.1, C3.5.1

Explosive materials exceeding work requirements shall be stored in a separate service magazine area located at the appropriate intraline distance from the operating building or area, based on the quantity of explosives stored in the service magazine.

Structures containing explosives shall be kept clean and orderly.

8. Observation

At the pack-out/weighing operation, employees are verifying the weight of TNT placed into the boxes and moved on a conveyor. Another open box (containing TNT) is positioned on a stand to the employee's right and is used to make additions (or remove material) to the box being weighed on the conveyor. When the employee is at this operation, his egress is obstructed by the conveyor, pallet of TNT boxes, and the box used to make adds from.

Problem

In the event of an incident in this area, the employee does not have a clear, unobstructed egress path.

Recommendation

Re-position the TNT "add" box or the pallet to provide the employee with an unobstructed egress path. Also, evaluate another method to add TNT to the box (on the conveyor) that does not involve the use of the open box of TNT.

Regulatory Requirements

OSHA 29CFR Part 1910.37(a)(3)

Exit routes must be free and unobstructed. No materials or equipment may be placed, either permanently or temporarily, within the exit route.



The exit access must not go through a room that can be locked, such as a bathroom, to reach an exit or exit discharge, nor may it lead into a dead-end corridor. Stairs or a ramp must be provided where the exit route is not substantially level.

DoD 4145.26M C12.3.5

No explosives hazard shall occupy space between an operator and an exit. Exit doors in buildings containing explosives, except storage magazines, should be casement-type and glazed with non-shatterable plastic material. All interior doors should open in the direction of the flow of material through the building and should open onto unobstructed passageways.

9. **Observation**

Housekeeping in general was good with the exception of the area around the flaker discharge chute. When the boxes are filled at this location, TNT flakes are also falling onto equipment surfaces and the surrounding floor area.

Problem

Poor housekeeping in this area increases the exposure risks for personnel and the potential for incidents.

Recommendation

Evaluate the use of a removable fabric chute extension that would extend from the discharge opening to a level below the sides of the boxes eliminating the spilled TNT flakes. The chute would be of a diameter that would still allow visible observation of the TNT flakes.

Regulatory Requirements

OSHA 29CFR Part 1910.141(a)(3)(i)

All places of employment shall be kept clean to the extent that the nature of the work allows.



DoD 4145.26M C3.5

Housekeeping in Hazardous Areas

C3.5.1. Structures containing explosives shall be kept clean and orderly.

C3.5.2. Explosives and explosives dusts shall not accumulate on structural members, radiators, heating coils, steam, gas, air or water supply pipes, or electrical fixtures.

C3.5.3. Spillage of explosives and other hazardous materials shall be prevented by proper design of equipment, training of employees, and other provisions such as catch pans. For example, hoppers should be large enough to comfortably accommodate the size of charges used. A painted stripe on the inside of the hopper may serve as a reminder of the proper filling height. Catch pans or splash pans should be provided beneath draw-off pipes and trinitrotoluene (TNT) flakers, around transfer piping, and beneath powder bags on small arms ammunition charging machines, and so forth. Spillage shall be promptly removed.

C3.5.4. A regular program of cleaning shall be conducted to maintain safe conditions. General cleaning shall not be conducted while hazardous operations are being performed.



10. Observation

At the pack-out operation, employees were observed twisting and bending in awkward positions while placing TNT boxes onto a wooden pallet. The gross weight of the TNT boxes is 59 lbs.

Problem

The awkward movement of the boxes increases the risk of employee musculoskeletal disorders.

Recommendation

Instruct employees in proper lifting techniques and evaluate re-positioning of pallet to eliminate potential ergonomic problems.

Regulatory Requirements

Section 5(a)(1) of the Occupational Safety and Health Act (the "General Duty Clause")

Employers are required to furnish a workplace, which is free from recognized hazards, which may cause or are likely to cause death or serious physical harm.



**EXPLO SYSTEMS, INC.
Safety & Health Policy**

To Safely Manufacture Energetic Products and Provide Services to our Customers by:

- Demonstrating a commitment to assuring that our employees, customers, neighbors, and the public are protected through the implementation of proactive safety and environmental controls.
- Complying with all applicable laws, regulations, and corporate guidelines relating to health, safety, and environmental quality.
- Providing the necessary resources and effective systems and training programs to accomplish specific safety goals and objectives.
- Evaluating the impact on safety, health, and environment when developing new products or processes, and when buying or leasing real property or operations.
- Evaluating facilities and operations at periodic intervals to continuously improve the implementation of this policy.
- Assuring that all employees understand their right to stop or shutdown any process which presents a safety or environmental hazard to themselves, their coworkers, or the facility.

It is the responsibility of every Explo Systems, Inc. employee to conduct oneself safely, to adhere to the letter and spirit of this policy and to identify and help resolve unsafe conditions or environmental hazards.

David P. Fincher
President
Explo Systems, Inc.
Dated: March 12, 2003

David A. Smith
Vice President
Explo Systems, Inc.
Dated: March 12, 2003

03-11-2000

TNT Proposal

EXPLO Visit at LAAAP Facility

Attendees: David Smith (EXPLO), Don Hall and Kimberly Jones (ATK). Others involved throughout the day: Bill Robertson, Carl Cox, Nita Singer

Tour

1. **Bomb Cutter:** This operation is at another facility
2. **Crusher:** (EXPLO to crush material if supplied by GD. If Hawthorne supplies material, then it will already be crushed). A crusher is to be installed. The equipment is rated at 4000#/hr. EXPLO will run ~2 hr/day in 15 min increments. Operated remotely. Operated as a batch process w/ 600 –800# at a time. 6 –8 batches/shift.
3. **Pre-Melt (Explosive Separation):** 4 Pre-Melters. Heated with 15-psi steam. Key parameter: Temperature 180-220 (230) F. Marlin Harris (ATK) helped with installation of weir screen on 1 of the pre-melters. Weir contains 40-micron paper. This will probably be changed 1/day. An additional filter with 5-micron paper is also at base of Pre-Melter. The filter paper in it is to be changed ~ 1/week. Without this double filtration, the contaminants spec requirement would be very difficult to meet. The sample for insolubles is, not tested until packout. Any residual material from this operation is collected and trayed, and sent back to the crusher as bricks.
4. **Melt Kettles Agitation:** 4 Melt Kettles. Heated with 15-psi steam. Key parameter: Temperature 180-220 (230) F., this is to be above the melt point for TNT of 80.2C (Note: 80.1C is considered TNT true melt point; however, it allows for more impurities, than 248D specification. Purest TNT melt point is ~ 80.5C). Data acquisition system? is installed; however, not fully operational to monitor the temperature. Shaft on kettle agitator has grease collector. Installing a vacuum assist transfer system.
5. **Flaker:** Flake thickness controlled by temperature of material flowing through drum (to keep above melt point), the temperature and flowrate of the cooling water, and the RPM of drum at the flaker. Occasionally, the flaking blade is adjusted manually to obtain appropriate flake thickness. PAM cooking spray is used on rotary drum flaker and the “ice cube trays”. Perhaps this is an application for SPC on flake thickness recording the inlet flow temperature, cooling water temperature and RPM setting. Gage for RPM does not correlate to RPM readings. Numbered 1 to 8?
6. **Packaging:** Take samples for flake thickness at packout. Propose compliance to specification then submit reduced sampling based on SPC and process capability. Are they required to do batch or continuous process sampling?
7. **Tray Former:** This will be installed to make boxes for packout. Both tops and bottoms will be made. EXPLO would like to use corrugated fiberboard because it is lighter, cheaper and stronger.

Inspection Points

1. Regular production versus normal sampling as required by specification
2. Are they considered continuous or batch? This is a big issue. EXPLO will staff and price according to the testing requirements. Will do what ATK requires.

ISO Checklist (State what is required. While provide guidelines for meeting these requirements)

1. There are 6 required ISO procedures on the following: Document Control, Record Control, Corrective Action, Preventive Action, Internal Audits, and Non-Conforming Material

Review QPM and what it contains

Quality Management System Documentation Structure

Management Commitment

Customer Focus

Quality Policy

Planning

Responsibility, Authority and Communication

Management Review

Provisions of Resources

Human Resources

Infrastructure

Work Environment

Product Realization

Planning of Product Realization

Customer-Related Processes

Design and Development

Purchasing

Production and Service Provision

Control of Monitoring and Measuring Devices

Measurement, Analysis, Improvement

Monitoring and Measurement: Customer Satisfaction, Internal Audit, Monitoring and Measurement of Processes, Monitoring and Measurement of Product

Control of Nonconforming Product

Analysis of Data

Improvement: Continual Improvement, Corrective Action, Preventive Action

CP² Elements

Customer satisfaction

Costs Related to Quality

Continuous Improvement

Discuss proposal sections

1. Plan to consistent quality
2. Control/Mitigation of Non-Compliant Lots
3. Quality Certification (Applicable Dates & Authorities)
4. Sampling Procedures
5. Inspection & Testing Equipment/Techniques
6. Process Safety Attributes

Pictures

1. Packing of flakes into box with liner (Liner does not fit box)
2. Flaker

Six Sigma Projects

1. Optimization of contaminants removal process
2. Optimization of separation process to remove residual materials
3. Optimization of flaking process to increase throughput and reduce variability in flake thickness
4. Optimization of packaging process
5. Optimization of material handling process

Testing who will perform, by what methods?

1. UTECH will perform testing on the EXPLO facility. EXPLO has a contract with them to provide a chemist and the testing equipment. UTECH will create their own procedures to meet the 248D requirements. UTECH is not ISO certified.

Calibration-who will perform what are procedures? Is it traceable to NIST?

1. Michelli calibrates scales

2. Berg calibrates gages

Other

1. **Action:** EXPLO to provide copy of Nitro-Chem's ISO certification
2. EXPLO's procedure for "Preparing and Releasing SOPs" references Quality Program Requirements from MIL-I-45208 and MIL-Q-9858A. They create "Main" SOPs and when necessary create "Supplemental" SOPs to clarify the subject matter of the "Main" SOP or to reduce excessive length.
3. David Smith concerned with ability to trace back to bomb lot numbers as required by RFP C-6 Para. 2 and C-7 Para. 2. This concern is based on the illegibility of lot numbers and the fact that GD at Camden assigns their own lot number and EXPLO uses this lot number to trace through their process.
4. **Action:** Need to obtain copies of ECPs R1Q2008 and R1Q2036 as cited in RFP C-2. EXPLO needs to review for packaging requirements.
5. EXPLO has copies of DWG 7548645 Rev AF for sheets 1 and 3, while sheet 2 is still Rev AD. Also, DWG ACV00561 Rev. B. **Action:** Dick Rentfrow to confirm Sheet 2 revision.
6. **Action:** EXPLO to create a new/revised/addendum site plan for Crushing operation.
7. Administration building has to be greater than 1250 feet from energetics, may be within limit. Revise safety site plan.
8. **Action:** EXPLO to keep all Federal and State Licenses together in a central file.
9. **Action:** RFP Response Section 4.3 requires 2 independent inspectors at the scraping operation. EXPLO did not agree to this (Per Fincher and Smith). Can't inspect quality in.
10. Scales calibrated by a Michelli, which is off-plant. Berg Inc. calibrates gages. Both come in once per year. Calibration stickers not applied to gages. Only saw a sticker on the scale at packout applied by the state with Michelli name on it. Need to ID gages with a unique tracking number and apply calibration sticker.
11. Recommend shadow boards for tools. Notice several loosely placed at the Pre-Melt operation.
12. Recommend procedure boxes on walls in the operating buildings. Several valves with uncontrolled work instructions were observed.
13. There is a Maintenance Log of equipment to be PM'd and what and when it was performed. Some PM's may be daily, others weekly, some yearly.
14. TNT "whiskers" are sensitive material and horsehair brushes are used for cleanup.
15. A suggested test for tar, wax and other contaminants for EXPLO would be to contaminate some virgin TNT up to the 0.05% maximum and determine its equivalent melt point. The melt point will reveal the impurity level. The melt point requirement would have to be met to assure level of contaminants is acceptable. Alternate test proposed is using an HPLC method.
16. **Action:** NCM area and document to be created by EXPLO. Need to establish a system to control NCM.
17. EXPLO creating 1 SOP with sections applicable to specific operation.
18. **Action:** EXPLO to provide copies of any certifications/credentials of the subcontractors they use to calibrate gages/scales or to test material.

Documents from EXPLO to ATK:

1. Nitro-Chem's Quality Manual which cites ISO 9001:2001 Certificate 151/S/2003
2. Nitro-Chem's MSDS on TNT
3. Nitro-Chem's Certificate of Quality System dated 8/6/2000 (Probably June 8, 2000) from the Bureau of Military Standardization Service. Copy expired in January 2003. EXPLO to obtain a new copy.
4. Dave Fincher and Dave Smith comments were given to Don regarding things in Section 4 of the Proposal response.

Documents from ATK to EXPLO:

1. Don gave Section 4 Draft Proposal Section for Reclaimed TNT

2. Don gave a Compliance Matrix for Command Safety Assessment
3. Kimberly gave the American National Standard ISO 9001:2000 Quality Management Systems- Requirements handbook
4. Kimberly gave ATK's Proposal response pages for: Plan to Consistent Quality, Control/Mitigation of Non-Compliant Lots (SCADA, 6-Sigma/Lean), Quality Certification, Sampling Procedures, Inspection & Testing Equipment/Techniques (Equipment Calibration) for review during the day. Gave an outline of the Plan to Consistent Quality.
5. Don gave NR-SOP-38 Process Change Request Program and Form NS-01 Rev. 8 dated 7/00 "Process Change Request"
6. Kimberly gave draft Product QAP cross-reference table. 180-220 (230) F

Alderman, Mark

From: Hitesman, Mike
Sent: Monday, August 29, 2005 2:11 PM
To: Alderman, Mark
Subject: FW: Approval for Purchase Order

-----Original Message-----

From: Sexton, Thomas
Sent: Thursday, August 25, 2005 5:06 PM
To: Hitesman, Mike
Subject: Approval for Purchase Order

Mike,

Per our earlier discussion, please consider this authorization for you to approve Purchase Order AT1544 in the amount of \$3,184,929. This Purchase Order is with industriepark Spreewerk Lubben in support of the TNT proposal.

Thanks,

Tom

8/30/2005

014059

CONFIDENTIALITY AGREEMENT

THIS CONFIDENTIALITY AGREEMENT (the „Agreement“) is made and entered into as of this 8th day of August, 2005, by and between ATK, ALLIANT AMMUNITION AND POWDER COMPANY LLC, having an office and place of business at Radford Army Ammunition Plant, Route 114, Radford, VA 24141-0100 and INDUSTRIEPARK SPREWERK LÜBBEN GMBH, having an office and place of business at PO Box 1565, D – Lübben Germany (“ISL”) (each a “Party” and collectively the “Parties”).

WITNESSETH:

WHEREAS, the Parties expect to engage in discussions regarding mutually beneficial projects (the “Projects”);

WHEREAS, each Party has developed or may develop information which it considers proprietary;

WHEREAS, ATK and ISL for their mutual benefit may exchange technical or business data or materials of a confidential and proprietary nature including, without limitation, written descriptions, drawings, samples, compositions, test equipment, oral disclosures, and other information, data or materials relating to past, present and future activities, such data and materials being hereinafter referred to as “Confidential Information”; and

WHEREAS, the Parties wish to define their rights with respect to any Confidential Data exchanged and protect the proprietary features confidential therein.

NOW THEREFORE, in consideration of the foregoing, the Parties agree:

1. Restrictions on Use of Confidential Information.

For purposes of this Agreement, the “Disclosing Party” shall mean the Party that discloses its Confidential Information to the other Party to this Agreement. The “Receiving Party” shall mean the Party to this Agreement that receives the Confidential Information from the Disclosing Party. Each Party agrees: (i) to use the Confidential Information belonging to the other Party solely for purposes of the Projects and not to use or to appropriate the Confidential Information for any other purpose or reason; (ii) not to make any copies of the other Party’s Confidential Information without the prior written consent of such Party; and (iii) to hold the Confidential Information belonging to the other Party in strict confidence and not to disclose, permit the disclosure of, release, disseminate, or transfer to any person any Confidential Information for any purpose or reason except as expressly permitted by this Agreement, without the prior written consent of the other Party. Each Party acknowledges that it has received Confidential Information of the other Party agrees to continue to maintain such Confidential Information in confidence pursuant to the obligations of this Agreement.

2. Public Information.

The term “Confidential Information” shall not include (i) information that was, and/or is, in the public domain at the time of its disclosure; (ii) information that becomes part of the public domain after its disclosure through no act or omission on the part of the

Receiving Party; or (iii) information received from a third party who is not under any obligation of secrecy, direct or indirect, to the Disclosing Party.

3. Rights in Data.

The Parties agree that all Confidential Information disclosed are and remain the exclusive property of the Disclosing Party and that such shall not be copied or reproduced without the express written permission of the Disclosing Party, except for such copies as may be reasonably required for internal evaluation purposes by the Receiving Party. All Confidential Information and copies thereof will be returned to the Disclosing Party within thirty (30) days of receipt of a written request for the return of such data. Any disclosure of Confidential Information under this Agreement is made without any right or license to use the Confidential Information (except as is expressly stated in this Agreement) or to utilize or to practice any of the intellectual property of the Disclosing Party.

4. Right to Injunction.

The Parties agree that the violation of the provisions of this Agreement by the Receiving Party or such Party's employees, could cause irreparable injury to the Disclosing Party. Damages being difficult to ascertain, each Party agrees that, without limiting any other rights and remedies it may have, upon breach hereof, each Party shall have the right, in addition to any other remedies available to them at law or in equity, to enjoin the other Party from violating this Agreement or may seek other equitable relief to protect its rights under this Agreement.

5. Term.

Unless extended by written agreement, this Agreement shall expire two (2) years from the date hereof, provided it may be terminated at any time, upon mutual agreement of the Parties. Any expiration or termination shall not affect the rights and obligations of the Parties which accrued prior to expiration or termination.

6. Commitments.

Nothing in this Agreement shall grant to either Party the right to make commitments of any kind for or on behalf of the other Party.

7. Miscellaneous.

7.1 Governing Law.

This Agreement shall be governed by, interpreted and enforced in accordance with the laws of Germany.

7.2 Waiver.

The waiver by either Party of a breach of any provision of this Agreement shall not operate as a waiver of any other breach of any provision of this Agreement by such Party.

7.3 Successors and Assigns.

This Agreement shall inure to the benefit of, and be binding upon, the Parties and their respective successors, heirs, personal representatives and permitted assigns.

7.4 Assignment.

The obligations of ATK and ISL under this Agreement shall not be assigned.

7.5 Severability.

If any term or condition of this Agreement is held to be illegal, invalid, or unenforceable, it shall be deemed modified or limited only to the extent necessary to bring it into compliance with applicable law. This Agreement shall then be construed and enforced so as modified.

7.6 Entire Understanding / Modification.

This Agreement constitutes the entire understanding and agreement between the Parties concerning its subject matter and supercedes any and/or all prior agreements or understandings relating thereto, whether oral or written. This Agreement may not be changed, modified or altered except by an agreement in writing executed by both Parties.

7.7 "Whereas" Clauses.

The recital ("WHEREAS") clauses set forth at the beginning of this Agreement are incorporated in this Agreement as part of this Agreement.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the date written above.

Execution of Purchase Order for Tritonal Removal between said Parties will invalidate this Agreement.

**ATK
ALLIANT AMMUNITION AND
POWDER COMPANY LLC**

**INDUSTRIEPARK
SPREWERK LÜBBEN GMBH**

By: _____
David A. Worrell
TNT Program Manager

By: _____
Dr. Gert von Wickede
Managing Director

By: _____
Matthew L. Rinehardt
Programs Management

By: _____
Hermann G. Tritsch
Marketing Director

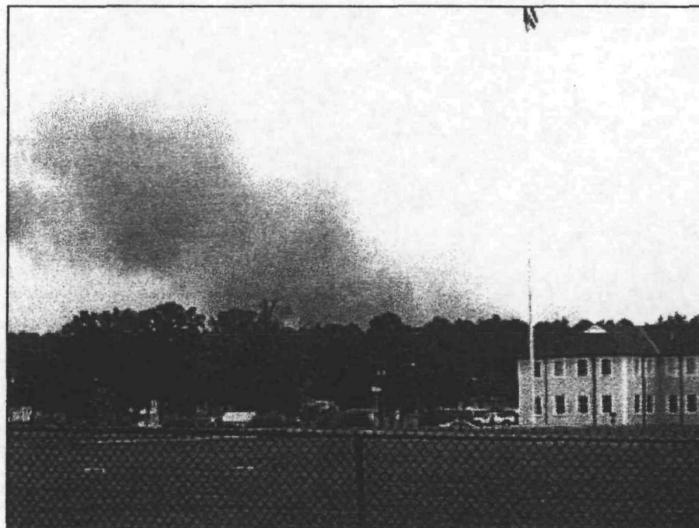
By: _____
Mark Cook
Quality Engineer

Explosions rock Camp Minden



Traffic on I-20 slows to a crawl after Louisiana State Police block the highway near Camp Minden, which was rocked by explosions Thursday morning following a fire at a bomb demilitarization facility.

Photo by: Jana Ryan



Smoke billows from the site of Explo Systems, Inc., an independent bomb demilitarization facility operating on the grounds of Camp Minden, following a fire and multiple explosions Thursday morning.

Photo by: Jana Ryan



Alice Brown, left, and Ruby McLaran, instructors at Union Elementary School in Doyline, check their roll each time a parent picks up their child from a Lakeside High School gymnasium. Students at Doyline's elementary and high school were evacuated shortly after explosions rocked Explo Systems, a bomb demilitarization facility located on the E-line at Camp Minden.

Photo by: Jana Ryan

DOYLINE - At least 10 explosions rocked a bomb recycling plant in northwestern Louisiana on Thursday, forcing the evacuation of at least 600 students from two schools and more than 400 prisoners from a jail, authorities said.

No serious injuries or deaths were reported.

The blast and resulting fire at the Explo Systems Inc. site at Camp Minden also resulted in authorities asking residents of the eastern section of Doyline, which has about 800 people, to voluntarily leave.

All of the employees inside the plant were accounted for following the initial 8:30 a.m. blast, said Lt. Col. Carl Thompson, the camp's assistant commander. "If there are any injuries, they were minor," he said.

Three major highways near Camp Minden - Interstate 20, U.S. 80 and Louisiana 164 - were closed to traffic. Thompson said emergency crews, including firefighters, were being kept a mile away. Access to the site was closed and thick black smoke poured overhead.

Area sheriff's departments aided Webster Parish deputies in evacuating 441 inmates from the Bayou Dorcheat Correctional Center, the jail for Webster Parish, located at Camp Minden about two miles from the Explo Systems plant.

Following the initial blast, more explosions - some intense and some minor - followed about every 10 minutes as the fire was allowed to burn, said Ed Baswell, a spokesman for the Bossier Parish Sheriff's office, which assisted in the jail evacuation.

"It's still a dangerous situation because you still have fire and you still have explosives and the two don't mix very well," Baswell said.

Using vans and school buses, 200 of the inmates were taken to lockups in Bossier Parish, while the rest were sent to a state prison at nearby Homer, Baswell said.

Explo Systems, which opened its site in January, has a military contract to disassemble bombs and recycle bomb components. Thompson said he did not know how many workers were in the plant at the time. He said the company employs about 60 people who work around the clock.

The explosion was the second in recent weeks at Camp Minden, the former Louisiana Army Ammunition Plant that produced large-caliber ammunition for the military until it closed in 1994. Louisiana took the site over from the federal government last year and it is now occupied by several businesses.

The Louisiana National Guard oversees the camp.

On Aug. 14, a fire and explosions rocked the Valentec Systems plant at Camp Minden, destroying about half the facility's buildings. No injuries were reported and the fire was allowed to burn itself out. That company makes battlefield flares for the military.

Harless, Kim

From: Huff, Denise
Sent: Saturday, September 09, 2006 7:28 PM
To: Harless, Kim
Subject: FW: TNT Contract

Kim,

Please forward to Denny the current update. You might also inform him that Rock Island has mentioned they'd be amenable to a "no cost termination". As you understand that alternative isn't the worst but not the best for us. We'll have to closely examine our stance before responding to Rock Island. I'll call when I can early next week.

Denise

From: Meyer, Denny
Sent: Fri 9/8/2006 9:07 AM
To: Huff, Denise
Subject: FW: TNT Contract

Denise,

Steve Kienzle mentioned you were working with the Rock Island folks concerning impact of Explo incident. I was wondering what was happening on the issue, since I will be meeting with Toni McNeal tomorrow. Appreciate any news you can provide.

Thanks,

Denny Meyer
ATK Business Development
Rock Island Arsenal, IL
Office: 309-788-7908
Cell: 309-314-8055

DA- what do you suggest that I provide
to Mr. Meyer?

Kim

9/11/2006

014066

FKF# 7608

11/27/06



Don
Got this from DA. and
anticipate you are the
one with the specific answers
to Explo's questions.

Can you answer these questions?

Ken Vander Schaaf

October 18, 2006

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. D. A. Worrell
Alliant Ammunition and Powder Company
Radford Army Ammunition Plant
Route 114
Radford, VA 24143

Subject: Explo Systems Incident Investigation, SECOND REQUEST

Dear Mr. Worrell:

As I stated in an earlier e-mail to you, attachment 1, it is my responsibility to complete the investigation of the incident that occurred at Explo Systems. I have not as yet received your response, therefore I am requesting formally the following information:

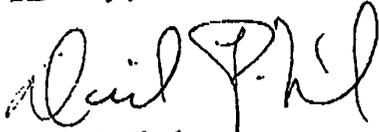
1. Hazards Analysis conducted by ATK on Explo's process.
2. Hazards reviews conducted by ATK at Explo Systems.
3. Safety audits and reviews conducted by ATK at Explo Systems.
4. Dates and places of all safety and hazards audits and reviews performed.
5. The names and a brief resume of qualifications for the individuals who participated.

I would like to complete the record of my investigation as soon as possible and publish it to satisfy all of the agencies who are interested in reviewing the report. It is important that we get this right, and analyze all aspects of the incident to prevent this from happening again here or at other locations that may have similar equipment and systems.

Page Two
Mr. D. A. Worrell
October 18, 2006

I am sure you can appreciate this and will endeavor to assist me in the conduct of this investigation. Please call if you have any questions.

Sincerely yours,



David P. Fincher
President

Attachment

D

Page 1 of 1

David Fincher

From: David Fincher [davidfincher@explosystems.com]
Sent: Friday, October 06, 2006 11:00 AM
To: 'david.worrell@atk.com'
Cc: 'David Smith'
Subject: Explo Systems Incident Investigation

D.A.:

The task of investigating the incident at Explo Systems in the TNT recovery system has fallen to me. While I have been able to reconstruct much of the information I need through interviews, and some records that were not destroyed, most of Explo's records were destroyed, and I need some additional information to aid in my investigation. I would appreciate your help in collecting the following information:

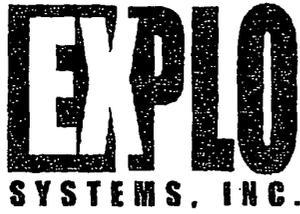
1. Hazards Analysis conducted by ATK on Explo's processes.
2. Hazards reviews conducted by ATK at Explo Systems.
3. Safety audits and reviews conducted by ATK at Explo Systems.
4. Dates and places of all safety and hazards audits and reviews performed.
5. The names and a brief resume of qualifications for the individuals who participated.

I am endeavoring to make this as complete an investigation as possible. Several agencies including the ATF, DCMA, DSA, Louisiana State Police, and others have requested a copy of the report when it is finished. We wish to have it as complete as possible prior to publication.

Please consider this an official request. If you need a more formal request, I will send you a letter next week.

David Fincher
Explo Systems, Inc.
Phone (318) 382-8700
Fax (318) 382-8434
E-Mail: davidfincher@explosystems.com
E-Mail dptfincher@explosystems.com

10/18/2006



A facsimile from

EXPLO SYSTEMS, INC.
[Contact information]

To: Mr. D. A. Worrell
Fax number:

Date: 3/1/2006

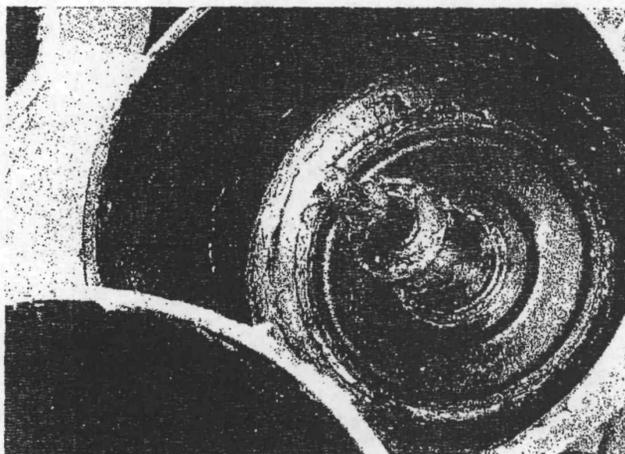
Regarding: Scrap Handling Facility

Comments: The following documents provide additional information and support for scrap determination.

Regards,
Dave

Certificate of Disclosure

February 23, 2006



The attached photo is representative of the XXX Scrap that is generated by Explo Systems. The cut bomb casing contains minimum contamination from Tritonal, but does contain tar from the coating inside the bomb casing. By signing this Certificate of Disclosure, I Jerry Spurlock of Spurlock Iron and Metals attest to the condition of the material and certify that it is within the limits acceptable for use in a foundry operation. I furthermore certify that this material will be introduced into a controlled facility.

Projectile Deformation Site (PDS)

Legend Information

CCTV	Closed Circuit Television
PDB	Projectile Deformation Building
PDS	Projectile Deformation Site
PTZ	Pan, Tilt, Zoom camera
OSD	Off-Site Deformation
TCS	Treaty Camera System
TRO	Treaty Roll-Off
TSB	Treaty Seal Box
TWP	Transportation Way Point

Note 1: Direction: Indicated is the Facility's North and not true North.

Note 2: This drawing is not to scale. Distances are approximates to represent the PDS layout.

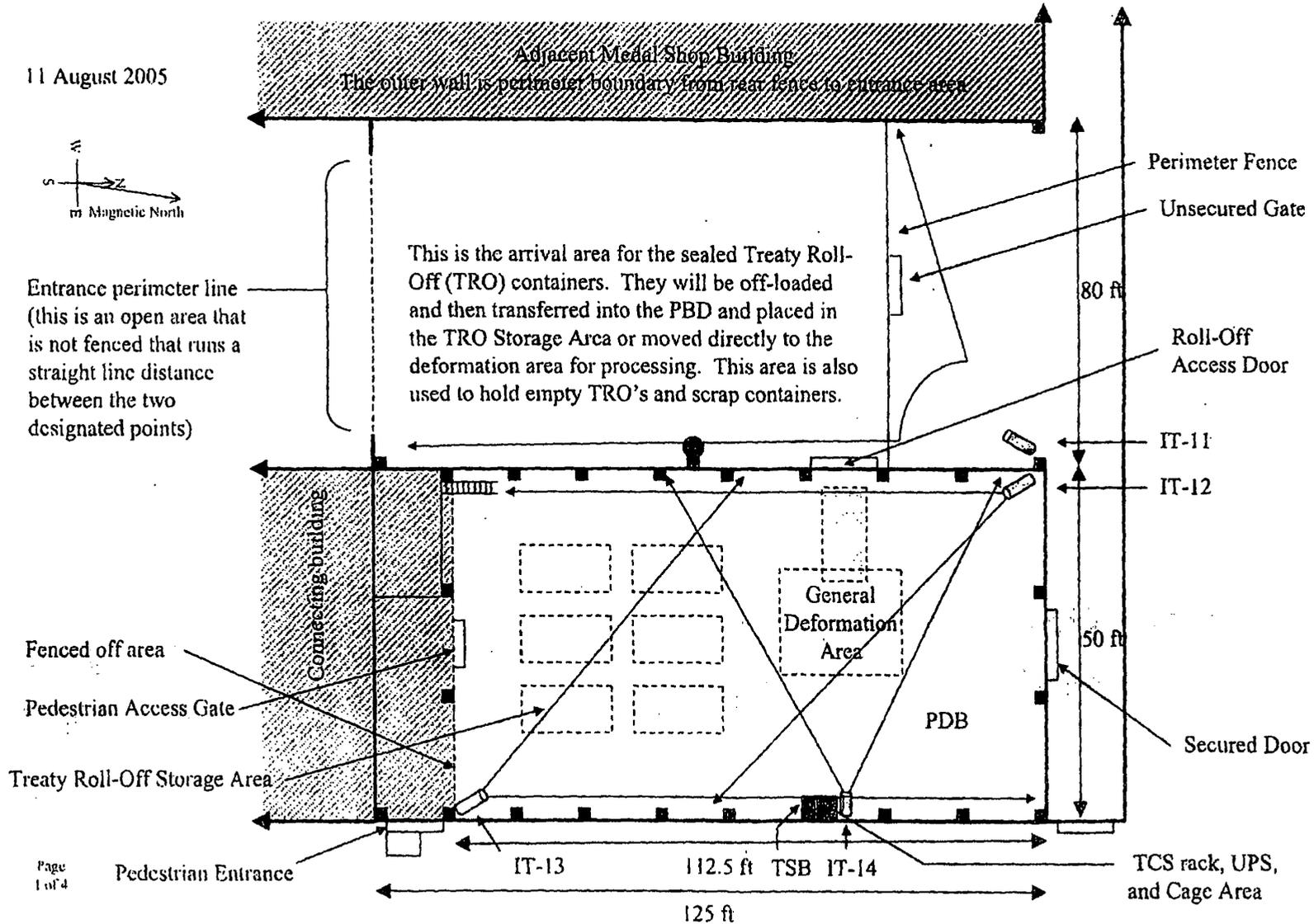
Note 3: Camera viewing arches indicated reflected the desired viewing fields for the Vendor's use.

Note 4: The camera arches indicated are for planning purposes and do not reflect the actual viewing fields.

Note 5: The information contained within these documents are only to be used for planning purposes.

Projectile Deformation Site (PDS)

11 August 2005



Page 1 of 4

Mar 01 06 12:26P

Minden, LA

318-382-8434

P. 4

Feb-06

EXPLO SYSTEMS INC. MONTHLY REPORT

CURRENT INVENTORY

BOMBS

AWAITING PROCESING 3,334

BOMBS CUT MONTH 1,095

BOMBS IN PROGRESS 100 Changes daily

TNT PRODUCTION

AVERAGE MONTHLY YIELD

TRITONAL PROCESSED 305,228 LBS

TNT RECLAIMED 213,840 LBS

YIELD 70.05%

EXPLO SYSTEMS INC. MONTHLY REPORT

Mar-06

CURRENT INVENTORY

BOMBS

AWAITING PROCESING

3,423

BOMBS CUT MONTH

1,168

BOMBS IN PROGRESS

66 varies
daily

TNT PRODUCTION

AVERAGE MONTHLY

YIELD

TRITONAL
PROCESSED

440,705 lbs

TNT RECLAIMED

310,385 LBS

YIELD

70.42%

EXPLO SYSTEMS INC. MONTHLY REPORT

CURRENT INVENTORY

BOMBS

AWAITING PROCESING 2,495

BOMBS CUT MONTH 744

BOMBS IN PROGRESS 158 Changes daily

TNT PRODUCTION

AVERAGE MONTHLY YIELD

TRITONAL PROCESSED 203,450 LBS

TNT RECLAIMED 142,560 LBS

YIELD 70.01%

Worrell, David

From: davidalansmith@bellsouth.net
Sent: Tuesday, January 03, 2006 3:38 PM
To: Worrell, David
Subject: Re: PY-2 PO AT1173 C/O 3

DA: I am in agreement with this. We will bill ATK \$.05 less for the first 2,010,000 lbs.
Or we can bill the higher price and show the credit of .05 which ever you prefer.
Our banking information is as follows:

Explo Systems, Inc.
JP Morgan Chase Bank, N.A. , Haughton, LA
Acc.# 1591965247
ABA # 021000021

Thanks,

Dave Smith

From: "Worrell, David" <David.Worrell@ATK.COM>
Date: 2006/01/03 Tue PM 02:28:15 EST
To: "David Fincher (E-mail)" <dpfincher@bellsouth.net>,
"David Smith (E-mail)" <davidalansmith@bellsouth.net>
CC: "Alderman, Mark" <Mark.Alderman@ATK.COM>,
"Rinehardt, Matthew" <Matthew.Rinehardt@ATK.COM>,
"Lemon, Earl" <Earl.Lemon@ATK.COM>,
"Vander Schaaf, Kenneth" <Ken.VanderSchaaf@ATK.COM>,
"Sheehan, Jed" <Jed.Sheehan@ATK.COM>
Subject: PY-2 PO AT1173 C/O 3

Gentlemen,

We have received your invoice #1581 dated 20 December 2005 for the amount of \$100,500.00. The subject PO that was signed by you did not have the advanced payment as a line item, however, in order to pay the invoice, we will need to liquidate the amount at \$.05/lb over 2,010,000 lbs. Therefore, for the initial 2,010,000 lbs of reclaimed TNT, billing will be at \$1.00/lb. Please provide your concurrence by email.

Thanks,

D. A. Worrell, II
TNT/Tactical Tank/PAP8386 Program Manager
540-639-8221
540-230-0118 CELL
540-639-7608 FAX
David.Worrell@atk.com



Memorandum

Date May 11, 2005
Subject Interim Report, Audit No. EXP-05-01
Supplier Audit of EXPLO Systems, Inc.

From Mark A. Cook
Organization Quality Engineering

MS VA02
Telephone 540 639 7648

To David Fincher
President EXPLO Systems, Inc.

cc: David Smith
Earl Lemon
Anthony Miano
Twila Patton
D.A. Worrell
Matt Rinehardt
Mark Alderman

Scope: This audit of EXPLO Systems, Inc. focused on compliance with the ISO 9001:2000 standard.

Audit Criteria: Applicable clauses of ISO 9001:2000 and applicable quality management system procedures as defined in the QPM (Quality Program Manual), product requirements, and departmental procedures.

Objectives: (1) to determine the conformity or nonconformity of EXPLO Systems, Inc. with ISO 9001:2000 and applicable procedures (2) to determine the effectiveness of the implemented quality system in meeting specified quality objectives and (3) to provide the auditee with an opportunity to improve the quality system.

Management Summary: Overall EXPLO Systems appears to have a quality system that requires immediate and extensive action to make it compliant to the ISO 9001:2000 standard. It is recommended that EXPLO Systems status on ATK's Qualified Suppliers List be lowered to "Probationary" until the deficiencies listed in this report are corrected and measures are put into place to prevent further reoccurrences.

The major non-conformities noted during the audit of EXPLO Systems, Inc. are described below:

Control of Documents – ISO 9001:2000, 4.2.3, Control of documents requires that documents required by the quality management system shall be controlled. Section C further states that the requirement shall be to ensure that changes and the current revision status of documents be identified. (1) There were uncontrolled work instructions posted on the wall near the #4 pre-melter. (2) EXPLO Form 14A Rev 1/14/04 and EXPLO Form 14A Rev 5/06/04 "Inspection of Boxes Prior to Being Sealed and After Being Closed" were being used interchangeably after 5/06/04. (3) Master List of Documents posted on bulletin board in Quality Assurance office was obsolete issue. (4) Uncontrolled work instructions posted at packaging station listing the last European Tritonal lot and the old and current lot for Re-claim Tritonal. (5) Travel form that accompanies Tritonal as it is being processed not a controlled document. The nonconformity report for this deficiency is attached.

Identification and Traceability – ISO 9001:2000, 7.5.3, Identification and traceability requires that product shall be identified by suitable means throughout product realization. Auditor requested incoming inspection and receiving reports for European Tritonal purchased under TNT Material Requisition No. T00130 and processed under Purchase Order AT1173. An accurate record of the quantity of Tritonal purchased could not be produced nor could traceability to bomb lot numbers be produced even though the requirement was clearly stipulated in the material requisition. Further investigation revealed that no Travel Form accompanied the material during processing; which is EXPLO's normal method of identifying in-process material. EXPLO Form #34A Rev 8/19/04 "Reclaim TNT Production Report" was offered as proof of traceability but no reference to lot number or bomb lot numbers are recorded on the subject form. As a last effort to prove traceability production records kept on computer database were compared to logbook kept in the production area. Production records kept on database disagreed with logbook by a total of 19 calendar days as to the start of production of the first European Tritonal lots.

Customer-Related Processes – ISO 9001:2000, 7.2.1, Customer Related Processes requires that determination of customer requirements must include product and or service specifications provided by the customer must be complied to. (1) Drawing number 19-48-4177/1 that was provided to EXPLO states that Hardboard 37" X 45 1/2" X 1/4" thick be nailed to each pallet with 9-5d nails. The required hardboard plate has been omitted from each pallet load supplied by EXPLO to date. (2) Purchase Description 397356 Section 10 states " You shall notify, and obtain written approval from Alliant Techsystems, prior to making changes in the composition, design or manufacture of the product being supplied on the Purchase Description". EXPLO made a change in supplier of fiberboard boxes for the production of Re-claim TNT and did not notify Alliant Techsystems, Inc. prior to making this change. Furthermore; after the change was discovered during the course of the audit the UN Performance Oriented Packaging certification for the new configuration could not be produced after it was requested.

Customer Property – ISO 9001:2000, 7.5.4, Customer Property requires that there must be a good system in place to report damage or loss. During the production of the 385,000 lbs of European Tritonal a shortfall/loss of over 6.00% from normal production was observed. Due to poor record keeping during production no plausible explanation for the loss of approximately 20,000 lbs of material could be offered.

This assessment was based on representative samples and therefore nonconformities may exist which have not been identified. It is recommended that EXPLO Systems, Inc. perform ongoing internal assessments to become compliant with process and quality standards.

DUP-7957
Non-conformity Report

4-36-001
Revision: 4
Revision Date: April 29, 2002
Page 3 of 8

Date 05-11-05	NCR No. EXP-05-01-01	Audit No. EXP-05-01
Doc No. ISO 9001:2000	Document Title: Control of Documents	
Paragraph No. 4.2.3 Control of documents		

NON-CONFORMITY

Major Minor

Requirement: "Documents required by the quality management system shall be controlled. Records are a special type.....c) to ensure that changes and the current revision status of documents are identified."

Practice/Objective Evidence: (1) There were uncontrolled work instructions posted on the wall near the #4 pre-melter. (2) EXPLO Form 14A Rev 1/14/04 and EXPLO Form 14A Rev 5/06/04 "Inspection of Boxes Prior to Being Sealed and After Being Closed" were being used interchangeably after 5/06/04. (3) Master List of Documents posted on bulletin board in Quality Assurance office was obsolete issue. (4) Uncontrolled work instructions posted at packaging station listing the last European Tritonal lot and the old and current lot for Re-claim Tritonal. (5) Travel form that accompanies Tritonal as it is being processed not a controlled document.

Auditor: Mark A. Cook

CORRECTIVE AND PREVENTIVE ACTIONS

Corrective and Preventive Action (C/A P/A) assigned to David Fincher of EXPLO Systems. Please complete C/A and P/A sections below and return to Mark A. Cook of Quality Engineering Radford by 5-25-05

CORRECTIVE ACTION

Root cause of non-conformity: There was no effective system in place to prevent or detect ISO 9001: 2000 Document Control violations.

Action taken to correct noted non-conformity: Documented In House Training by the Quality Assurance Mgr. on the subject of ISO 9001:2000 4.2.3 Control of Documents and 4.2.4 Control of Records. Internal Audits will be performed to measure the effectiveness of this training.

Targeted Completion Date: June 6, 2005

C/A Assignee: Kenneth Lampkin

Date: May17, 2005

PREVENTIVE ACTION

Action taken to prevent recurrence: Internal Audits will be performed by Quality Assurance Mgr.

Targeted Completion Date: June 6, 2005

P/A Assignee: Kenneth Lampkin

Date: May17, 2005

CORRECTIVE/PREVENTIVE ACTION VERIFICATION

DUP-7957
Non-conformity Report

4-36-001
Revision: 4
Revision Date: April 29, 2002
Page 4 of 8

Verification Statement:

Auditor:

Date:

DUP-7957
Non-conformity Report

4-36-001
Revision: 4
Revision Date: April 29, 2002
Page 5 of 8

Date 5-11-05	NCR No. EXP-05-01-02	Audit No. EXP-05-01
Doc No. ISO 9001:2000	Document Title: Identification and traceability	
Paragraph No. 7.5.3 Identification and traceability		

NON-CONFORMITY

Major Minor

Requirement: Identification and traceability requires that product shall be identified by suitable means throughout product realization

Practice/Objective Evidence: Auditor requested incoming inspection and receiving reports for European Tritonal purchased under TNT Material Requisition No. T00130 and processed under Purchase Order AT1173. An accurate record of the quantity of Tritonal purchased could not be produced nor could traceability to bomb lot numbers be produced even though the requirement was clearly stipulated in the material requisition. Further investigation revealed that no Travel Form accompanied the material during processing; which is EXPLO's normal method of identifying in-process material. EXPLO Form #34A Rev 8/19/04 "Reclaim TNT Production Report" was offered as proof of traceability but no reference to lot number or bomb lot numbers are recorded on the subject form. As a last effort to prove traceability production records kept on computer database were compared to logbook kept in the production area. Production records kept on database disagreed with logbook by a total of 19 calendar days as to the start of production of the first European Tritonal lots.

Auditor: Mark A. Cook

CORRECTIVE AND PREVENTIVE ACTIONS

Corrective and Preventive Action (C/A P/A) assigned to David Fincher of EXPLO Systems. Please complete C/A and P/A sections below and return to Mark A. Cook of Quality Engineering Radford by 5-25-05

CORRECTIVE ACTION

Root cause of non-conformity: Previous procedures in place not effective.

Action taken to correct noted non-conformity: A new Explosive Receiving, Transport, and Warehousing Procedure (Document #4 SR May 13,2005) established.

Targeted Completion Date: May13, 2005

C/A Assignee: Kenneth Lampkin

Date: May 11, 2005

PREVENTIVE ACTION

Action taken to prevent recurrence: An Internal Audit system will be implemented to monitor the adherence to these procedures.

Targeted Completion Date: June 6, 2005

P/A Assignee: Kenneth Lampkin

Date: May 11, 2005

CORRECTIVE/PREVENTIVE ACTION VERIFICATION

Verification Statement:

Auditor:

Date:

DUP-7957
Non-conformity Report

4-36-001
Revision: 4
Revision Date: April 29, 2002
Page 6 of 8

Date 5-11-05	NCR No. EXP-05-01-03	Audit No. EXP-05-01
Doc No. ISO 9001:2000	Document Title: Customer Related Processes	
Paragraph No. 7.2.1 Customer Related Processes		
NON-CONFORMITY		
<input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor		
Requirement: "Customer Related Processes requires that determination of customer requirements must include product and or service specifications provided by the customer must be complied to."		
Practice/Objective Evidence: (1) Drawing number 19-48-4177/1 that was provided to EXPLO states that Hardboard 37" X 45 1/2" X 1/4" thick be nailed to each pallet with 9-5d nails. The required hardboard plate has been omitted from each pallet load supplied by EXPLO to date. (2) Purchase Description 397356 Section 10 states " You shall notify, and obtain written approval from Alliant Techsystems, prior to making changes in the composition, design or manufacture of the product being supplied on the Purchase Description". EXPLO made a change in supplier of fiberboard boxes for the production of Re-claim TNT and did not notify Alliant Techsystems, Inc. prior to making this change. Furthermore; after the change was discovered during the course of the audit the UN Performance Oriented Packaging certification for the new configuration could not be produced after it was requested.		
Auditor: Mark A. Cook		

CORRECTIVE AND PREVENTIVE ACTIONS	
Corrective and Preventive Action (C/A P/A) assigned to David Fincher of EXPLO Systems. Please complete C/A and P/A sections below and return to Mark A. Cook of Quality Engineering Radford by 5-25-05	
CORRECTIVE ACTION	
Root cause of non-conformity: Inadequate system in place to perform contract review and to assure conformance to requirements.	
Action taken to correct noted non-conformity: The required hard board will be added to all 35 1/2 " x 45" pallets remaining in Explo's inventory. All previously packaged TNT remaining at Explo's facility will be repalletized as required by drawing 19-48-4177/1.POP certification and a request for a change in box suppliers will be forwarded to ATK. All future supply and supplier changes will be submitted in advance to ATK for approval.	
Targeted Completion Date: June 6, 2005	
C/A Assignee: Kenneth Lamkpkin	Date: May 11, 2005
PREVENTIVE ACTION	
Action taken to prevent recurrence: Explo Systems, Inc. has added a new position to it's staff (Contract Review Mgr. Paul Avery).	
Targeted Completion Date: May 25,2005	
P/A Assignee: Kenneth Lampkin	Date: May 11, 2005

CORRECTIVE/PREVENTIVE ACTION VERIFICATION

DUP-7957
Non-conformity Report

4-36-001
Revision: 4
Revision Date: April 29, 2002
Page 7 of 8

Verification Statement:

Auditor:

Date:

DUP-7957
Non-conformity Report

4-36-001
Revision: 4
Revision Date: April 29, 2002
Page 8 of 8

Date 5-11-05	NCR No. EXP-05-01-04	Audit No. EXP-05-01
Doc No. ISO 9001:2000	Document Title: Customer Property	
Paragraph No. 7.5.4 Customer Property		
NON-CONFORMITY		
<input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor		
Requirement: "Customer Property requires that there must be a good system in place to report damage or loss."		
Practice/Objective Evidence: During the production of the 385,000 lbs of European Tritonal a shortfall/loss of over 6.00% from normal production was observed. Due to poor record keeping during production no plausible explanation for the loss of approximately 20,000 lbs of material could be offered.		
Auditor: Mark A. Cook		

CORRECTIVE AND PREVENTIVE ACTIONS

Corrective and Preventive Action (C/A P/A) assigned to David Fincher of EXPLO Systems. Please complete C/A and P/A sections below and return to Mark A. Cook of Quality Engineering Radford by 5-25-05

CORRECTIVE ACTION

Root cause of non-conformity: Tracking system failed to identify all materials from customers property.

Action taken to correct noted non-conformity Documents have been retrieved that verify the loss of customer property.

Targeted Completion Date: June 6, 2005

C/A Assignee: Kenneth Lampkin

Date: May 11, 2005

PREVENTIVE ACTION

Action taken to prevent recurrence: A new tracking procedure has been implemented (Document #4 SR May 13, 2005). In House Training has been done and documented by the Quality Assurance Mgr.

Targeted Completion Date: May 18, 2005

P/A Assignee: Kenneth Lampkin

Date: May 11, 2005

CORRECTIVE/PREVENTIVE ACTION VERIFICATION

Verification Statement:

Auditor:

Date:

**TNT POST AWARD CONFERENCE
OCTOBER 1, 2003**

Earl Lemon, Director of Energetics for Alliant Ammunition and Powder Company (AAPC), welcomed Alliant, Explo, and all Government attendees to the TNT Post Award Conference at Radford.

Mark McCormick, Vice President, Modernization and Transformation, explained his job duties and kicked off our new contract. He explained this as being very different contract—working with foreign sources and reconstituting old inventory, but we are prepared to meet the challenge.

Charlie Mattingly, Picatinny, stated this contract is very important to them and they look forward to working with everyone on this contract.

Earl stated that we have very strong Corporate support and a very cohesive team with strong management. He presented an overview of the TNT Program. Below are some comments from his presentation:

We can reduce our risk by using the pilot plant to work out the bugs.

We have organized for success.

The Executive Steering Committee (ESC) will meet every six months. Problems will be pushed up to this committee.

The Core Team will meet biweekly.

The NTIB will be the people involved with process definition and construction.

Developmental efforts look at autoclave process instead of saw.

We will support Explo by auditing and assisting where they need help. The mentor/mentee relationship is not a replacement, but a supplement.

The schedule for delivery is out of the proposal. There are no changes/surprises on the schedule.

Under the contract vs. schedule, we have increased the schedule to 50 trucks on 1st OCONUS delivery, 10 trucks on 1st reclaim delivery. Sean O'Reilly asked how much lead time they need. Earl responded with the OCONUS is 45 to 60 days startup within the 2 million pound manufacture and 30 days to get into this country. Start shipments every 30 days thereafter. Sean stated that he does not want to duplicate OCONUS shipments. He stated the most they can ship is 1,000 tons. We are making arrangements to do smaller shipments. Sean stated that they want to stick to the schedules; stick to the reclaim in the proposal. Make sure we give you as good a forecast as we have. We want to make sure that you have no additional cost. Earl responded with basically 60 days. McAlester will handle the unloading. Maria Bukowska stated that they are now running tight.

Susan Smith, Quality Assurance Manager, explained how Six Sigma will be integrated into the TNT effort. Earl stated that the staff will be Master Black Belt. Tim Frazier will be the Area Manager, Mark Cook will be the Quality Engineer, and Pete Wesson will be the Construction Engineer.

The Green Belt requires two weeks training and two weeks working on a project (\$50,000). The Black Belt requires four weeks training and working on projects for six months. Black Belt can be up to 10 times that of Green Belt. A Green Belt is on the team and a Black Belt runs a program. Six Sigma is very disciplined and provides structure.

Twila Patton, Quality Engineering Manager, explained how Radford will monitor deliveries. Utec, an independent laboratory, will be set up to do all lot testing. Earl explained that this will be done concurrent with delivery. We will have a certification when the material arrives here and this will be a verification. This will be an assurance of quality. Our plans are to verify what the Poland samples certified to. When questioned about the lot size, Earl stated that we will work that out with Ron Rossi. Typically, our lot size is one truck.

D. A. Worrell, Deputy PM for Energetics, explained process flow. Toni asked what would trigger going to Hawthorne. D. A. said it would be a parallel path. We want to provide the best quality process for the customer.

Dick Rentfrow stated that we are taking a look at the microwave process.

Dick explained the basic process flow. He indicated that Building 9501 will be reactivated and converted to meet environmental standards and eliminate hazardous waste streams. Sean asked if this is a different approach from the proposal. Dick responded that this is what we proposed.

Regarding the ONT feedstock as the incoming material, as far as quality of this incoming product, what type of testing or sampling or what assurance can you provide that we will get a quality, uniform product. Dick responded that it will go through sample testing and certifications from vendors. Cost will be affected if we don't watch this closely.

Dick further emphasized that we are looking at modifying existing nitrators. We are trying to go with variable speed drives. Sweden will do our engineering on this part. From this process you get pure TNT crystals. Will still get pink water.

Pete Wesson stated that starting in the 80s cost analysis was done and the cost was approved for sulfite washing. Paige Holt indicated that there have been changes in environmental regulations which will require a different process.

Regarding the NTIB facility schedule, Dick said detailed work packages should be ready in a couple weeks. We will share with others. There is an 8-month delivery of crystallization equipment from Chematur.

Thiokol is a major part of this. We want to see data on the isotriol. Gene Johnston stated that Thiokol will start up the pilot plant. We will send operators to Thiokol to train and they will come here. One pound per hour will run in the pilot plant. He stated that M590 is used for batch type.

The first article will be in month 20.

Ron Wuorinen asked if the pilot plant would be the same as process we will use. Dick said not exactly. Gene said the pilot plant is identical with the exception of glass and we have stainless steel.

Earl said first article samples are ready to ship to get the testing started. Ron needs shipping instructions. Dick said we can demonstrate test equipment.

Earl stated we are working with the US Flag Carrier to make sure we can meet this requirement.

Material will be available early.

Sean brought up the IPT function and the fact that he is concerned with the Contractor changes and indicated they want us to stick with the contract. Earl explained that changes will not be an ATK decision, but will be made through the IPT. Changes will be driven from the bottom up. Changes will be made through the Core Team up to ESC. Sean said he is concerned about changes causing a change in price. He told ATK that they have done a good job on how they are going to attack the challenge.

Earl stated that Europe will not be involved with the first article. We got this over a year ago.

Patrick Lootens stated that they are going to respond to the letter [See Denise for this].

Sean stated that we are outside the protest window.

Denise Huff asked if we are going to have a beginning IPT where we detail program activities. Dick said we will have work packages. He also indicated that we can put a lot of information out on the website. Denise said we would have to put a security firewall in place. Gordon Guymon says the Air Force has a lot of concerns about meeting schedules and quality constraints. Any information that can be provided would be helpful. Sean said by next week we need to decide who should be on the team, etc.

Earl welcomed input from the Government side as to what they would like to see on the website. Suggestions are solicited. He envisions this would be a very useful tool.

Toni McNeal said the Navy and Air Force will be discussing the bomb program. Of interest is the TNT contractors.

When about the price per pound, Denise said it is not ATK practice to release the price per pound—just ball park. We can give a range of prices to the Government with caveats and disclaimers.

Ron Wuorinen, JMC Quality Assurance and Engineering, led the discussion on quality of the product. He stated that he and Maria Bukowska enforce requirements of specifications. Everything we talk about is contractually binding. We want a good record of what is going on here. All these things affect the quality and uniformity of the product. He wants to be very thorough. He reviewed the channels of communication which are in his handout. He stated their command has the right to audit the quality system. If everything is unchanged and maintained there should be no problems. Ron took the action to review ISO 9002:2000 with exceptions. The ATK SPC Data Plan has been provided. Need to verify that it is in place and functional. Ron took the action to review contractual requirements against the Radford and Poland SPC General Plans.

Maria stated the first article will be in January and the first batches in February. Dick indicated there will be process drawings in their documentation. The Polish test will be done and ATK will sign off on the data from Poland. Dick said that most of their customers are in Europe. They make about 60 million pounds per year. This facility will make about 2,200 pounds per hour. Ron stated that we can request relief from testing and if any member of the board does not agree, then we go from there. Ron does not see a problem with the SPC Plan either, but he will let Maria review also. On first article and Maria's concern on the regulations and laws, we do not want any deviations. The samples should be representative of what we are producing today. Make sure there are no changes in the process. We want to protect the product and we are most interested in the process. Dick said the details of their process are protected. They won't tell you much. They do a good job of collecting data. Dick has a list of data they trail. Gene asked if a summary of the data will be put on the website.

If the plant would make changes in the process, then they would have to requalify by a first article. Susan stated that in the QA Plan we require our suppliers to notify us if they make a change in the process. Paul Vinh stated that we buy the product to the specifications.

Ron stated that if the first article sample is not packaged and marked correctly, it will not go anywhere. We need to bring forth all questions and concerns on packaging. Samples you are getting are in solid fiberboard boxes in accordance with the drawings. This type packaging is old. Would like to start working toward a better package. Earl stated that we are having trouble getting 50 pounds in the box. Changing packaging from fiberboard box could trigger changes to the NSN. Sean said we may need a VECP to this change. Kim will need to work with McAlester to make sure they can handle. Earl and KimWheat have the action to look at changing packaging requirements for reclaimed TNT through IPT. McAlester needs to be a part of this IPT. Submit through IPT and agree on something and follow with VECP/ECP. This should be finalized by February 2004.

Discussion held on lot numbering for reclaimed TNT. Earl stated that a lot of TNT will be traceable to an individual bomb. Maybe this information could be placed on the Ammo Data Card. Kim and Ron have the action to determine where to record the lot number of TNT derived from bomb. They will determine whether it should go on the box or the Ammo Data Card.

Kim stated that marking for OCONUS will be different from that for Explo. Cannot use the same top which says "USA".

Ron and Marsha Garrison will assign a manufacturer's lot symbol for Poland, Explo, and Radford. Denise said for this location it will be RAD.

Dick indicated that Poland and Radford are continuous processes. Explo's process is unique, but will be considered continuous for sampling.

MIL-DTL-248D, Paragraph 4.3.2.5, Classification of Characteristics – Fiberboard Box – Pallet will be per Drawing ACB00561. Need to make sure we have door clearance at McAlester. This needs to be dealt with the IPT before packout. The 385,000 pounds already packed are per drawing requirement. Ron emphasized that we need to make sure the boxes are not deteriorating. Dick stated the only issue is with the height of the box. Gordon asked us to look at flake thickness before we propose height of box. This will be put on the IPT for decision. Sean stated we need to make sure there is no impact on shipments.

Maria asked, in subplot sampling, what is the size of a transportation unit. Ron said to hold this until tomorrow for resolution. Paul, Rick, Gordon, Maria and Ron will discuss tonight.

Ron asked how TNT out of flaker units is cooled. He was told it is cooled with water from the river. Then the question came up about the water temperature being higher in the summer causing conglomeration. Dick indicated that design of chiller was a problem in the Hercules production of TNT occasionally.

Discussions from MIL-DTL-248D, Paragraph 4.3.2.7, Classification of Characteristics – TNT.

Flake thickness sieve and screen test is waived. MIL-STD-1916 requires random sampling. Ron emphasized this must be with no bias

Rick Zastrow stated there is no problem with solidification point.

What type equipment will be used for ferrous or non-ferrous materials. Want to see procedures. Paul stated that assurance that the screen is inspected has been waived.

Sean recommended that operators not be color blind because color makes a difference.

Process control comment: If we run into a problem we must go upstream in the process to find assignable cause.

UTEK methods handout provided to Ron, Maria, and Rick. TB 7002 is inactive. MIL-STD-1751 is the testing methods we should follow.

Sean, Toni, Ron, and Earl will sign off on the minutes.

Sean presented the strength/weakness review. Refer to the handout for the ratings. Sean commended the ATK Proposal Team for the very good proposal that they submitted. The proposal was compared to the criteria and not the competitor. The selection came down to the price. The ATK Small Business Plan is excellent. The pilot plant process reduced the risk. If there are any areas where there are risks they should be brought out in the IPT. There were some concerns with second source at McAlester. The Past Performance volume was very nicely done. Sean said the CG wants ATK to know that they were weak on release of information. Competitor got ATK information.

Ron said if ATK will go on with Six Sigma, maintain process control and random sampling in accordance with MIL-STD-1916, he does not anticipate any problems with lot rejections.

Patrick handled the contract review. He said the DOA6 rating should be flowed down. Administration of the contract delegation will be sent down to the ACO Staff here next week. Government source inspection to be determined for Explo and OCONUS. Tasks will be determined and delegated to DCMA-Europe /Dallas. Samples from Poland will come in at the same time as the lot. Confirmation testing will be done here. Samples will probably be taken

at McAlester, but these will be unofficial samples. Security class for contract is Category 3. Manual is being updated. Will have to send out for repricing.

There was a discussion between Toni and Paul as to whether a new NSN is needed for Tritonal removed from bombs. Paul does not think we need a new NSN.

Sean emphasized that contractually the Government is only required to buy 4 million pounds, but they can go up to 15 million pounds. When the 4 million pounds is completed, the Government can go to another source.

The Government requests that ATK provide GFM consumption reports even though they are not required by the contract.

JMC is to provide us bomb lot numbers from Tooele.

ATK is to submit a proposed test method per Section C-6(3) of the contract.

Ron is to delegate overseas DCMA Europe/Dallas with sample size authority.

Sean to delegate to Don Evans the approval of duty-free certifications.

Sean cautioned ATK that they are under the microscope and need to be aware of the importance to ATK--they will hold us to the pricing.

Sean told Denise that they need to work out a single rental agreement, but further stated this may be done under the Facility Contract.

The meeting will continue on Thursday morning, October 2, 2003, at 8:00 a.m.

Submitted By: B. Ann Porterfield

Attachments: List of Attendees
Action Items



Alliant Ammunition & Powder Company, LLC
Radford Army Ammunition Plant
P. O. Box 1, State Route 114
Radford, Virginia, USA 24143

December 13, 2005

Mr. David Smith
Explo Systems, Inc.
1702 Fourth Street
Minden, LA 71055

Dear Mr. Smith,

We have reviewed your email to Mr. D. A. Worrell dated December 9, 2005 stating you cannot accept Nitrocellulose (NC), and the equipment you used to process the NC is no longer at your facility. We are surprised at this turn of events since it was part of our Memorandum of Agreement for you to take NC. While it has been several months since ATK shipped NC to Explo, the delay has been due to research regarding the Isotriol from TNT.

ATK is requesting you take shipment of 19 truck loads (652,460 pounds) of NC between now and the end of December 2005. This is within the terms of our agreement. While ATK does not expect Explo to be able to process this volume of NC in this short period, we feel your receipt of the material is not unreasonable.

In order for Explo to honor the terms of the agreement ATK is requesting that Explo retrieve the NC processing equipment so these up coming shipments can be processed after your receipt of the NC.

ATK has all of this NC packed and ready to load for shipment. Please advise your preferred carrier and we will arrange to ship accordingly. ATK looks forward to working with you in the future.

Sincerely,

Mark C. Alderman

Mark C. Alderman
Acquisition Specialist

Cc: M. Hitesman
K. Dolph
J. Sheehan

Explo Systems

Fax

To: Matt Reinhardt	From: David Fincher
Fax: 540 639-7608	Pages: 3
Phone: 318 347-5862	Date: 12/16/2005
Re: NC Letter	CC:

Urgent For Review Please Comment Please Reply Please Recycle

● **Comments:** Matt:

I have found the letter, and am willing to discuss the circumstances of the change. Mr Farley is well aware of this and had lengthy discussions with me on the phone. I remember everything.

Regards,

Dave





November 4, 2003

Mr. Wayne C. Farley
ATK Ammunition and Powder Company
Route 114
Radford, VA 24141

Dear Mr. Farley:

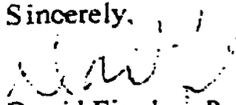
I have reviewed the terms and conditions you presented in your letter dated November 3, 2003. Explo Systems, Inc. accepts the conditions regarding reclaimed TNT as outlined in the proposal. The recycling of materials from Radford needs to be limited to propellant as we have already committed to as much NC as we are able to process. It would create considerable problems for Explo if it continues to receive material that it has no use or outlet for, and we are able to process the propellants.

I do wish to clarify some of the points made in the letter. Explo Systems has never refused to accept a purchase order. All of the draft documents presented to us clearly state, "**Draft Only: THIS IS NOT A PURCHASE ORDER**". We had no idea that you had the impression expressed in your letter. If there was some confusion or misunderstanding, I sincerely apologize. We wish only to move forward with this project and begin work. Explo Systems has made its representatives available at your discretion for any negotiations or discussions that may be required. Following the meeting of October 17, there has been very little contact and no substantive discussions with anyone in authority at your company until receipt of the referenced letter of November 3, 2003.

Explo Systems, Inc. would like to advise you that recent efforts to improve the OCONUS position have resulted in its ability to reduce the per pound price from \$ 1.65 to \$ 1.45. I believe that this is a competitive number based on our knowledge and experience. If you are open to discussions, we would certainly desire to continue to work toward resolution of this issue. I believe that since we already have everything in place to complete this project, it would be in our mutual interest work together to complete this effort.

I trust we can get to work in accomplishing this contract.

Sincerely,



David Fincher, President

ERL



1702 Fourth Street ♦ Minden, LA 71055 ♦ Phone (318) 382-8700 ♦ Fax (318) 382-8434

David Fincher

(615) 412-4006

P.3

MAIN U.S. POSTAL SERVICE MARK
 PRINCETON LA 71867
 217367 55.00
 ROSEMARY 8 31
 11-18-00 13448.15

CUSTOMER RECEIPT

POST VAL IMP 4.42
 TOTAL 4.42
 DASH 5.00
 CHANGE .58

THANK YOU MARK

7002 2000 0000 0000 2635 2297

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Postage Paid Only - No Insurance Coverage Provided)

For delivery information, visit our website at www.usps.com

Postage	\$.37
Certified Fee	2.37
Return Receipt Fee (Endorsement Required)	1.75
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.42

Sent To: **Mr. Wayne Farley - ATK Ammunition & Powder CO.**
 Street, Apt. No. or PO Box No.: **Route 114 PO Box 1**
 City, State, ZIP+4: **Radford, VA 24143-0100**

PS Form 3800, June 2012
 PSN 7530-01-000-9000





January 16, 2006

Alliant Ammunition & Powder Company, L.L.C.
Attn: Mark C. Alderman
Acquisition Specialist
Radford Army Ammunition Plant
P. O. Box 1
State Route 114
Radford, VA 24143

Dear Mr. Alderman:

I am in receipt of your letter dated January 4, 2006.

I am aware of the provisions of Section 4.1 of the Memorandum of Agreement ("MOA") dated November 7, 2003. I am also aware of the fact that David Fincher, the President of Explo, engaged in negotiations with Earl Lemon and Denise Hough of Alliant on November 4, 2003. A clear agreement was reached that the nitro cellulose ("NC") NC was not suitable, rather it was a desensitizer and the product could not be used. It was also acknowledged that it would create problems for both Explo and Alliant if Explo accepted the material and stored it, knowing there was no use for that NC. Despite what the MOA may say, in the agreement between Explo and Alliant Explo did not agree to accept any additional quantity of NC. It was understood by Explo and should have been understood by Alliant at the time it was signed to exclude any requirement which may have existed for Explo to accept NC. At best, it should have set forth an option for Explo to accept the NC if, as and when it could recycle that NC.

Frankly, I am surprised by the statement in your letter that:

"The NC stored at ATK Radford is not considered to be a waste, since the material will be recycled as a substitute for commercial products. Furthermore, wet NC containing not less than 25% water does not exhibit characteristics, which would make it a hazardous waste based on guidance of the Virginia Department of Environmental Quality."

We have consulted the Louisiana Department of Environmental Quality and have been advised that by definition, the NC is a hazardous substance and it would, in fact, be hazardous waste if Explo has no ability to recycle the NC. Please provide me all of the written information you received from the Virginia Department of Environmental Quality, including any opinion rendered by a representative of that department (as well as the name and number of any person(s) with whom you spoke), to assist us in our review of this matter.

In accordance with our agreement, Explo stands ready, willing and able to accept propellant that is clean, properly packaged and classified.

Best regards.

//Signed//

David A. Smith
Vice President

1702 Fourth Street ♦ Minden, LA 71055 ♦ Phone (318) 382-8700 ♦ Fax (318) 382-8434

EXPLO

SYSTEMS, INC.

December 19, 2005

Mr. D.A. Worrell
Alliant Ammunition
Radford Army Ammunition Plant
Route 114, P.O. Box 1
Radford, Virginia 24143-0100

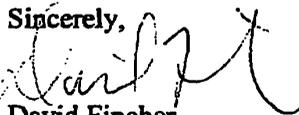
Dear Mr. Worrell:

In response to your email of December 19, 2005, I wish to advise you that Explo Systems does not have a use for any Nitro Cellulose. We are not a waste disposal company, and are not permitted to accept waste for which Explo has no application. In the past, ATK has used its considerable clout to force us to take NC under threat of withholding contracts or payments. I would remind you that this was done in order to make Explo dispose of waste products that ATK has accumulated. I sent a letter to Wayne Farley about this, and I have sent a copy to you.

I had a lengthy conversation with Mr. Farley at the time, and he understood that we could not accept the product. There was an understanding between Mr. Farley and me that no NC would be sent to Explo. In our attempts to use the NC, Explo experienced multiple field failures with the products it made, and substantial financial damage resulted. Because of this, Explo lost its business, returned the equipment to process the NC and exited the market.

Again, Explo is ready, willing and able to accept propellants that it will identify to you as suitable in commercial explosives products, but that does not include NC.

Sincerely,


David Fincher
President



Radford Army Ammunition Plant
P.O. Box 1
Radford, VA 24141-0100

Date: May 16, 2005

Subject: Safety Audit – Explo Systems, Inc.

To: Mr. David Fincher
Mr. David Smith
Mr. Ken Lampkin

From: Paul McMillian
Organization: AAE Safety
Telephone: (540) 639-8671

Cc: Mr. Earl Lemon
Mr. David Worrell
Mr. Donal Hall

A safety audit was conducted at Explo Systems, Inc. on May 3rd and 4th, 2005. The writer would like to thank Mr. Tommy Burge and Mr. Ken Lampkin for their cooperation and assistance during the audit.

The following observations/problems were noted during the audit. Please provide written responses to the items by June 17th, 2005.

1. **Observation**

With the exception of one employee, all other employees working at the flaker and pack-out operations were not wearing protective safety glasses.

Problem

There are serious eye hazards associated with these operations. Molten TNT can be splashed into the eyes. Additionally Chips/Flakes of TNT can be generated while handling the Tritonal chunks.

Recommendation

All employees working at these operations must wear eye protection in accordance with OSHA 1910.133 requirements. ATK recommends a minimum of safety glasses with side shields and a face shield.



Regulatory Requirements

OSHA 29CFR Part 1910.133(a)(1)

The employer shall ensure that each affected employee uses appropriate eye or face protection when exposed to eye or face hazards from flying particles, molten metal, liquid chemicals, acids or caustic liquids, chemical gases or vapors, or potentially injurious light radiation.

2. Observation

Employees at the flaker and pack-out operations were not wearing protective gloves. An employee at the flaker discharge chute had a thick TNT residue on his hands.

Problem

TNT exposure can result in anemia and other health hazards. Direct exposure to vapors, skin contact, and potential ingestion put personnel at risk.

Recommendation

Require all employees working at these operations to wear impervious gloves.

Regulatory Requirements

OSHA 29CFR Part 1910.138(a) *General requirements.*

Employers shall select and require employees to use appropriate hand protection when employees' hands are exposed to hazards such as those from skin absorption of harmful substances; severe cuts or lacerations; severe abrasions; punctures; chemical burns; thermal burns; and harmful temperature extremes.



3. **Observation**

Employees at Explo do not wear any outer protective garments/coveralls. Employees were observed with heavy TNT residue on personal clothing.

Problem

TNT exposure can result in anemia and other health hazards. Direct exposure to vapors, skin contact, and potential ingestion put personnel at risk.

Recommendation

Ensure employees do not wear contaminated clothing home and that heavily contaminated clothing is properly decontaminated or disposed of. Also, ensure that employees do not contaminate their lunchroom and bathrooms with contaminated clothing. Explo Management should evaluate the use of protective coveralls.

Regulatory Requirements

OSHA 29CFR Part 1910.132(a) *Application.*

Protective equipment, including personal protective equipment for eyes, face, head, and extremities, protective clothing, respiratory devices, and protective shields and barriers, shall be provided, used, and maintained in a sanitary and reliable condition wherever it is necessary by reason of hazards of processes or environment, chemical hazards, radiological hazards, or mechanical irritants encountered in a manner capable of causing injury or impairment in the function of any part of the body through absorption, inhalation or physical contact.



DoD 4145.26M C3.12. **Special Clothing**

C3.12.1. A changing area shall be established for employees who must remove their street clothes to wear special clothing (explosives plant clothing, anti-contamination clothing, impervious clothing, and so forth). To avoid exposing people not involved in A&E operations to unnecessary risks, special clothing worn during A&E operations shall not be worn or taken away from the premises. Special clothing should not be altered. Cotton undergarments, including socks, shall be worn whenever static electricity is a hazard.

C3.12.2. Explosives plant clothing, generally referred to as powder uniforms, shall be fastened with nonmetallic fasteners and easily removable. Pockets should be of the lattice type. Pants and sleeves should be tapered and without cuffs, and pants should extend over the tops of footwear. These garments should be flame resistant or made of flame retardant material. Each plant should have laundering facilities available for removing contaminants from explosives plant clothing. Hazardous waste procedures should be established for the laundry. Regular testing shall verify the effectiveness of the laundering operations.

C3.12.3. When explosives-contaminated clothing is sent to an off-plant laundry



facility, the contractor is responsible for informing the laundry of the hazards associated with the contamination and any special laundering or disposal requirements.

4. **Observation**

Employees at the flaker and pack-out operations were observed wearing wristwatches.

Problem

Personal jewelry and wristwatches can be lost into the product stream and operating equipment with the likely potential for process upsets and serious incidents.

Recommendation

Prohibit employees from wearing wristwatches and jewelry due to the potential for foreign material contamination and employee injury if caught/entangled in operating machinery. Medical alert medallions can be allowed, but they must be worn underneath clothing.

Regulatory Requirements

DoD 4145.26M C3.16. **Prohibited Articles in Hazardous Areas**

Except as authorized, personnel shall not carry matches, cigarette lighters, or other flame-producing devices into explosives areas. Personal articles that increase existing hazards are also prohibited.

Section 5(a)(1) of the Occupational Safety and Health Act (the "General Duty Clause")

Employers are required to furnish a workplace, which is free from recognized hazards, which may cause or are likely to cause death or serious physical harm.



5. **Observation**

An employee working at the flaker discharge chute was observed wearing a "dust mask". All other employees at the flaker and pack-out operations were not wearing any type of respiratory protection.

Problem

TNT exposure can result in anemia and other health hazards. Direct exposure to vapors, skin contact, and potential ingestion put personnel at risk.

Recommendation

Provide documentation of exposure monitoring which determined that respiratory protection is not required.

Regulatory Requirements

OSHA 29CFR Part 1910.134 Respiratory Protection

In the control of those occupational diseases caused by breathing air contaminated with harmful dusts, fogs, fumes, mists, gases, smokes, sprays, or vapors, the primary objective shall be to prevent atmospheric contamination. This shall be accomplished as far as feasible by accepted engineering control measures (for example, enclosure or confinement of the operation, general and local ventilation, and substitution of less toxic materials). When effective engineering controls are not feasible, or while they are being instituted, appropriate respirators shall be used pursuant to this section

Respirators shall be provided by the employer when such equipment is necessary to protect the health of the employee. The employer shall provide the respirators, which are applicable and suitable for the purpose intended. The employer shall be responsible for the establishment and maintenance of a respiratory protection program



6. **Observation**

Empty drink containers and food wrappers were observed in trash containers in the production areas.

Problem

TNT exposure can result in anemia and other health hazards. Direct exposure to vapors, skin contact, and potential ingestion put personnel at risk.

Recommendation

Prohibit the consumption of all food and drinks within the production areas. A drinking water container, provided for employee use, should be positioned away from operations to eliminate potential contamination.

Regulatory Requirements

OSHA 29CFR Part 1910.141(g)(2)

Eating and drinking areas. No employee shall be allowed to consume food or beverages in a toilet room nor in any area exposed to a toxic material.

7. **Observation**

The receiving/loading dock area was very congested with materials and equipment. Incoming pallets of energetic materials were stored adjacent to waste energetic materials. In the holding area, there were several pallets of waste materials stored behind packed boxes of TNT.

Problem

With the congestion in this area, there is the potential for material confusion and possible employee injury.

Recommendation

Remove waste materials from area and evaluate use of another loading dock/holding area for "outgoing" energetic materials.



Regulatory Requirements

DoD 4145.26M C3.4.1, C3.5.1

Explosive materials exceeding work requirements shall be stored in a separate service magazine area located at the appropriate intraline distance from the operating building or area, based on the quantity of explosives stored in the service magazine.

Structures containing explosives shall be kept clean and orderly.

8. Observation

At the pack-out/weighing operation, employees are verifying the weight of TNT placed into the boxes and moved on a conveyor. Another open box (containing TNT) is positioned on a stand to the employee's right and is used to make additions (or remove material) to the box being weighed on the conveyor. When the employee is at this operation, his egress is obstructed by the conveyor, pallet of TNT boxes, and the box used to make adds from.

Problem

In the event of an incident in this area, the employee does not have a clear, unobstructed egress path.

Recommendation

Re-position the TNT "add" box or the pallet to provide the employee with an unobstructed egress path. Also, evaluate another method to add TNT to the box (on the conveyor) that does not involve the use of the open box of TNT.

Regulatory Requirements

OSHA 29CFR Part 1910.37(a)(3)

Exit routes must be free and unobstructed. No materials or equipment may be placed, either permanently or temporarily, within the exit route.



The exit access must not go through a room that can be locked, such as a bathroom, to reach an exit or exit discharge, nor may it lead into a dead-end corridor. Stairs or a ramp must be provided where the exit route is not substantially level.

DoD 4145.26M C12.3.5

No explosives hazard shall occupy space between an operator and an exit. Exit doors in buildings containing explosives, except storage magazines, should be casement-type and glazed with non-shatterable plastic material. All interior doors should open in the direction of the flow of material through the building and should open onto unobstructed passageways.

9. **Observation**

Housekeeping in general was good with the exception of the area around the flaker discharge chute. When the boxes are filled at this location, TNT flakes are also falling onto equipment surfaces and the surrounding floor area.

Problem

Poor housekeeping in this area increases the exposure risks for personnel and the potential for incidents.

Recommendation

Evaluate the use of a removable fabric chute extension that would extend from the discharge opening to a level below the sides of the boxes eliminating the spilled TNT flakes. The chute would be of a diameter that would still allow visible observation of the TNT flakes.

Regulatory Requirements

OSHA 29CFR Part 1910.141(a)(3)(i)

All places of employment shall be kept clean to the extent that the nature of the work allows.



DoD 4145.26M C3.5

Housekeeping in Hazardous Areas

C3.5.1. Structures containing explosives shall be kept clean and orderly.

C3.5.2. Explosives and explosives dusts shall not accumulate on structural members, radiators, heating coils, steam, gas, air or water supply pipes, or electrical fixtures.

C3.5.3. Spillage of explosives and other hazardous materials shall be prevented by proper design of equipment, training of employees, and other provisions such as catch pans. For example, hoppers should be large enough to comfortably accommodate the size of charges used. A painted stripe on the inside of the hopper may serve as a reminder of the proper filling height. Catch pans or splash pans should be provided beneath draw-off pipes and trinitrotoluene (TNT) flakers, around transfer piping, and beneath powder bags on small arms ammunition charging machines, and so forth. Spillage shall be promptly removed.

C3.5.4. A regular program of cleaning shall be conducted to maintain safe conditions. General cleaning shall not be conducted while hazardous operations are being performed.



10. Observation

At the pack-out operation, employees were observed twisting and bending in awkward positions while placing TNT boxes onto a wooden pallet. The gross weight of the TNT boxes is 59 lbs.

Problem

The awkward movement of the boxes increases the risk of employee musculoskeletal disorders.

Recommendation

Instruct employees in proper lifting techniques and evaluate re-positioning of pallet to eliminate potential ergonomic problems.

Regulatory Requirements

Section 5(a)(1) of the Occupational Safety and Health Act (the "General Duty Clause")

Employers are required to furnish a workplace, which is free from recognized hazards, which may cause or are likely to cause death or serious physical harm.

This letter is to inform you that.

Dear Mr. Fincher

Please find attached the audit reports detailing the Safety and Quality audits recently conducted at your facility. ATK is concerned with the quantity and magnitude of deficiencies discovered. In conjunction with the noted findings, serious financial conditions concerning the control of Customer Property must be addressed. The major audit findings are outlined below:

Quality

- Control of Documents
- Identification and Traceability
- Customer-Related Processes
- Customer Property

Safety

- Proper protective equipment
- Contamination
- Health Related
- Housekeeping
- Ergonomics

These don't look/read as "findings", rather as areas audited.

EXPLO Systems status on ATK's Qualified Suppliers List will be lowered to "Probationary" until the deficiencies listed in the Quality audit report are corrected and measures are put into place to prevent further reoccurrences. Also, the safety finding should be addressed with the utmost urgency to prevent possible employee injury or loss work time.

we urge EXPLO to

the safety finding.

or "unaccounted for"

ATK has received three conflicting explanations for the missing ~~XXX~~45,571 pounds of tritonal. EXPLO has been unable to provide adequate documentation or consistent technical reasons for the discrepancy. ATK has no recourse except to determine yields consistent with the Cut & Punch material supplied by Day & Zimmerman and apply that factor to the EXPLO supplied tritonal. Using this calculation, there are ~~XXX~~45,571 pounds of Tritonal unaccounted for by EXPLO valued at \$~~XXX~~41,470. ATK expects EXPLO to either provide a refund for the missing material or replace it at no cost. ATK will withhold payment of the short lot of TNT until this issue is resolved.

what does the sub KT say?

Please address the findings outlined in the attached audit reports within 30 days from the date of this letter. ATK will conduct a follow-on audit to verify compliance in order to return EXPLO Systems to "Acceptable Qualified".

ATK is also informing EXPLO that continuance of PY2 reclamation efforts cannot be discussed until these discrepancies are corrected. ATK values its relationship with both customers and vendors. Continuance of this contract without corrective actions does not benefit EXPLO, ATK or the ultimate customer.

*EXPLO
I'd add a period of time of Follow up Audit that binds thing in Smith. condition. Before I'd left "Probation"*

ATK looks forward to your proactive measures to correct these items. ATK also stands ready to provide technical assistance should you request these services. A continued professional relationship providing our customer with quality product from a safe and reliable supplier is our goal. ~~We hope your company goals are the same.~~

Chuckey
Ken
Steve
Mark
Ken

David Smith

~~Ken~~ Mike
Jenise

ATK and Explo Systems

Bomb Demil and Reclaim Subcontract Go Forward Discussions

Meeting Agenda

5 October 2006

I. Welcome and Meeting Logistics

D. A. Worrell, Host

Attendees: ATK Program Management, Contracts, Subcontracts, and Business Development and Explo Systems Principals

Purpose: working meeting to Determine Go Forward Strategy post-incident in the Reclaim Operation at Camp Minden, LA

Time: 1:30 p.m. - 4:30 p.m.

Location: RFAAP in Administration Building 220, Conference Room: 2D

II. Introductions

III. Reach Consensus on the Outcomes of Session

ATK/Explo

➤ Contract Status and Go Forward

D. P. Huff/David Smith

*> demil w/ tritonal
to Explo*

➤ Future Business Strategies

Steve Kienzle/Mike Kessinger

IV. Open issues

- a) Reclaim Subcontract Future, Schedule
- b) Reimbursement to ATK for Destroyed ATK Equipment
- c) Bomb Demil Subcontract Future, Schedule and Performance Guarantee Status

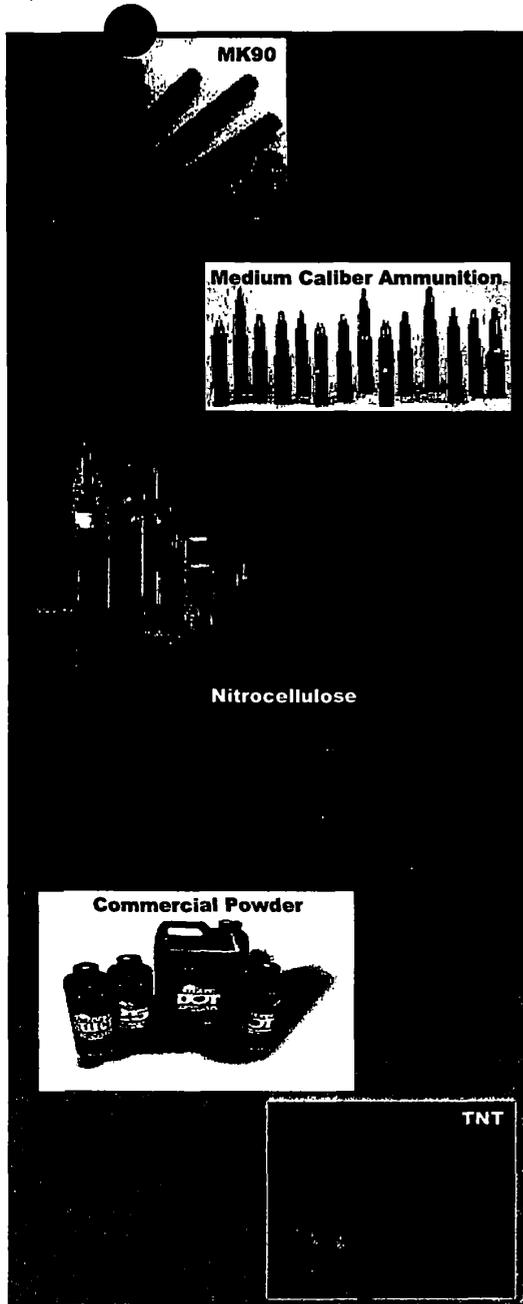
V. New business

- a) Bomb Demil
- b) Isotriol Disposition

VI. Adjournment

Recap Action Items, Target Completion Dates, Responsible Persons D. A. Worrell

- Energetic by-product owned by ATK - isotriol
- Trade demil for explosives (Comp B)
- Isotriol ~ DWT < 0.5% @ Explo
- Test w/ Chang on 27 Oct 2006



ATK Ammunition and Energetics

Title: Reclaim Schedule Improvement Options

Presented to: Mike Hitesman

Presented by: D. A. Worrell, II

Date: February 24, 2005

TARGET SHEET

SITE NAME: EXPLO SYSTEMS INC

CERCLIS I.D.: LAR000072223

TITLE OF DOC.: ALLIANT TECHSYSTEMS INCORPORATED AKA
ATK PARTIAL RESPONSE TO 104(E) REQUEST
FOR INFORMATION

DATE OF DOC.: 09/11/2013

NO. OF PGS. THIS TARGET SHEET REPLACES: 2

SDMS #: 9458773 **KEYWORD:** 93.09

SENSITIVE ?

MISSING PAGES ?

ALTERN. MEDIA ?

CROSS REFERENCE ?

LAB DOCUMENT ?

LAB NAME:

ASC./BOX #:

CASE #:

SDG #:

**THIS TARGET SHEET REPLACES PAGES 344
THROUGH 345 THAT HAVE BEEN REDACTED DUE TO
FOIA EXEMPTION (b) (4) - CONFIDENTIAL BUSINESS
INFORMATION - THE NON-REDACTED DOCUMENT IS
LOCATED IN THE U.S. EPA REGION 6 SUPERFUND**

COMMENTS : RECORDS CENTER.

2/24/05
Mike Hitesman
@ 1:00 pm



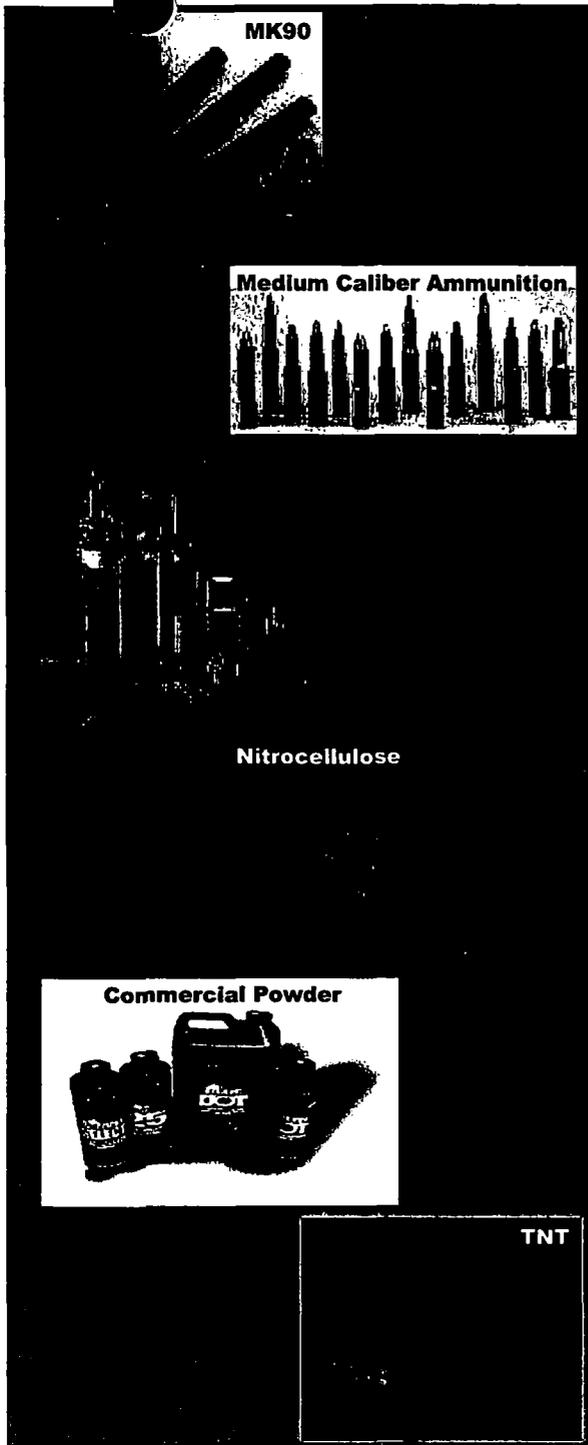
ATK Ammunition and Energetics

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ALTERN. MEDIA ? **CROSS REFERENCE ?**

LAB DOCUMENT ? **LAB NAME:** _____

ASC./BOX #:

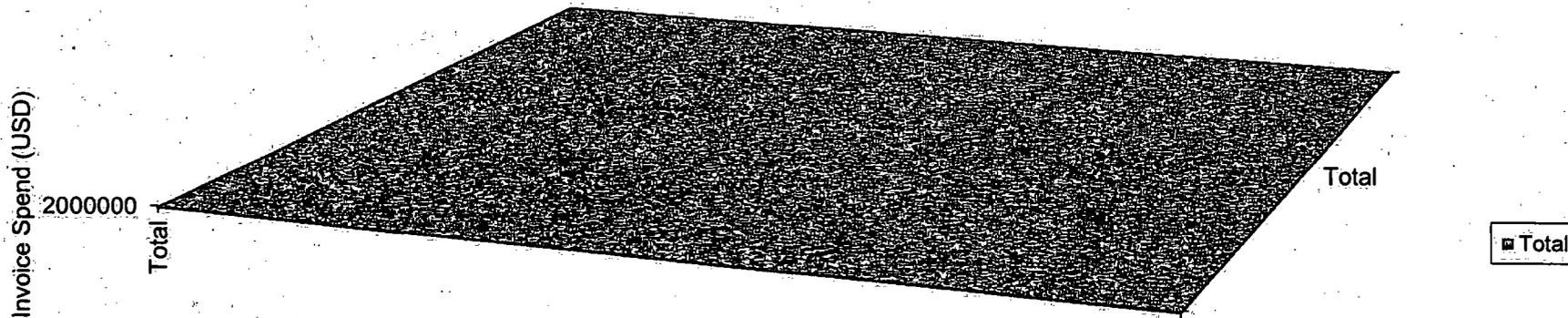
CASE #: _____ **SDG #:** _____

**THIS TARGET SHEET REPLACES PAGES 347
THROUGH 348 THAT HAVE BEEN REDACTED DUE TO
FOIA EXEMPTION (b) (4) - CONFIDENTIAL BUSINESS
INFORMATION - THE NON-REDACTED DOCUMENT IS
LOCATED IN THE U.S. EPA REGION 6 SUPERFUND**

COMMENTS : RECORDS CENTER.

Invoice Spend (USD)

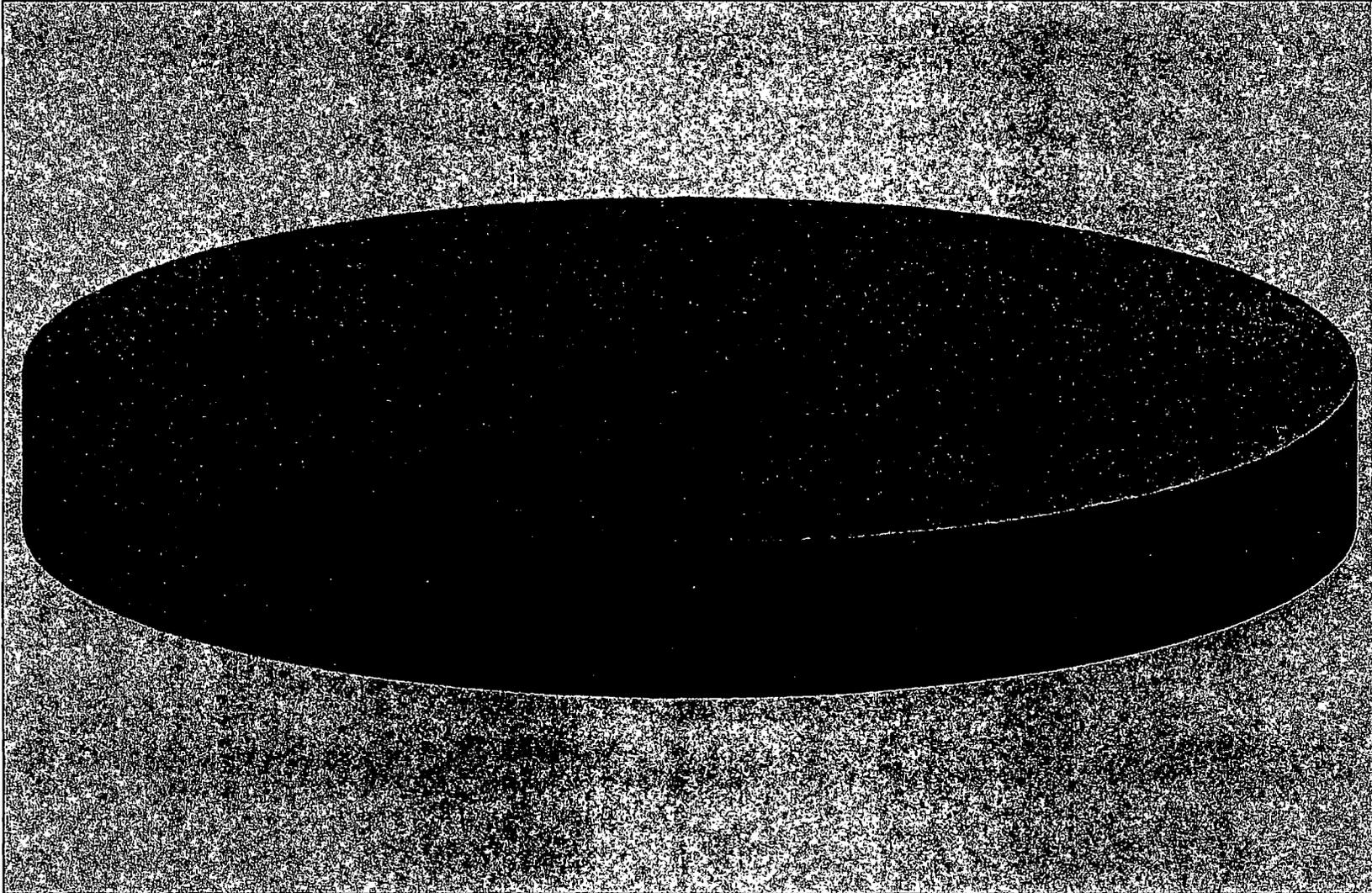
Total



Invoice Spend (USD)	Year						Grand Total
ERP Supplier	2007	2008	2009	2010	2011	2012	Grand Total
EXPLO SYSTEMS	20083.8	43357.25	22701.8	21318	22720.5	21907.05	152088.4
EXPLO SYSTEMS INC	522401.84	1035923.92		91940			1650265.76
EXPLO SYSTEMS INC.	54233.74	64675.82					118909.56
Grand Total	596719.38	1143956.99	22701.8	113258	22720.5	21907.05	1921263.72

Invoice Spend (USD)

Total



■ Total

Invoice Spend (USD)	Total
Total	1921263.72

Sum of sum(Invoice Spend)		Accounting Date - Year						Grand Total
Company Site - Site Name	Part - Part Name	2007	2008	2009	2010	2011	2012	
Anoka	Unclassified		\$21,637.20					\$21,637.20
Anoka Total			\$21,637.20					\$21,637.20
Lake City	(VN-RECYCLE PROPELLANT 0) SCRAP POWDER RECYCLE	\$54,233.74	\$64,675.82					\$118,909.56
Lake City Total		\$54,233.74	\$64,675.82					\$118,909.56
Lewiston	Unclassified	\$20,083.80	\$21,720.05	\$22,701.80	\$21,318.00	\$22,720.50	\$21,907.05	\$130,451.20
Lewiston Total		\$20,083.80	\$21,720.05	\$22,701.80	\$21,318.00	\$22,720.50	\$21,907.05	\$130,451.20
Radford	(AR5117-1 LARRY MAJOR 0) PROPELLANT REUSE				\$91,940.00			\$91,940.00
	(AT1173-6 D.A. WORRELL 0) TNT TYPE III	\$14,160.00						\$14,160.00
	(AT1173-7 D.A. WORRELL 0) TNT TYPE III	\$377,880.00	\$481,189.00					\$859,069.00
	(AT1173-8 D.A. WORRELL 0) ADVANCE PAYMENT	\$100,500.00						\$100,500.00
	(AT1173-9 SCOTT PFEIFFER 0) M117 BOMB PALLETS	\$29,861.84	\$14,931.00					\$44,792.84
	(AT1828 SCOTT PFEIFFER 0) TRITIONAL PER PD 397596		\$107,176.32					\$107,176.32
	(AT1842-1 SCOTT PFEIFFER 0) REUSE ISOTRIOL		\$25,000.00					\$25,000.00
	(AT1853-1 STEVEN KIENZLE 0) TNT PROPOSAL SUPPORT		\$50,000.00					\$50,000.00
	(DR1540-1 0) CONVERT GFM BOMBS		\$131,727.40					\$131,727.40
	(DR1540-2 0) CUT-PUNCH-CONVERT		\$216,900.20					\$216,900.20
	(DR1540-3 0) CUT-PUNCH AND CONVERT		\$9,000.00					\$9,000.00
Radford Total		\$522,401.84	\$1,035,823.92		\$91,940.00			\$1,650,265.76
Grand Total		\$596,719.38	\$1,143,956.99	\$22,701.80	\$113,258.00	\$22,720.50	\$21,907.05	\$1,921,263.72

Accounting Date - Month	Accounting Date	Description	Invoice Number	PO Id	PO Description	sum(Invoice Spend)	Sample
Feb	2/4/2008	EXPLO SYSTEMS, INC	1938	AT1828	Unclassified	17,988.96	add formula here
Oct	10/23/2007	EXPLO SYSTEMS, INC	1886	AT1173	Unclassified	35,640.00	
Feb	2/11/2008	EXPLO SYSTEMS, INC	1943	AT1828	Unclassified	18,997.44	
Mar	3/12/2008	EXPLO SYSTEMS INC.	1973	C13156	Unclassified	31,872.28	
Mar	3/31/2008	EXPLO SYSTEMS, INC	1987	DR1540	Unclassified	9,000.00	
Oct	10/10/2007	EXPLO SYSTEMS, INC	1881	AT1173	Unclassified	21,480.00	
Jun	6/27/2008	Unclassified	1978	F121369	Unclassified	21,637.20	
Apr	4/7/2008	EXPLO SYSTEMS, INC	1992	DR1540	Unclassified	37,721.00	
Oct	10/17/2007	EXPLO SYSTEMS, INC	1883	AT1173	Unclassified	35,640.00	
Apr	4/14/2008	EXPLO SYSTEMS, INC	1997	DR1540	Unclassified	47,044.80	
Jan	1/23/2008	EXPLO SYSTEMS, INC	1930	AT1173	Unclassified	35,640.00	
May	5/7/2012	Unclassified	3127	C221403	Unclassified	11,360.25	
Feb	2/18/2008	EXPLO SYSTEMS, INC	1948	AT1828	Unclassified	24,878.40	
Jan	1/16/2008	EXPLO SYSTEMS, INC	1925	AT1173	Unclassified	14,931.00	
Oct	10/10/2007	EXPLO SYSTEMS, INC	1881	AT1173	Unclassified	14,160.00	
Feb	2/4/2008	EXPLO SYSTEMS, INC	1937	AT1173	Unclassified	35,640.00	
Oct	10/1/2012	Unclassified	3202	C230917	Unclassified	10,546.80	
Mar	3/9/2010	Unclassified	2505	C160419	Unclassified	10,098.00	
Nov	11/19/2007	EXPLO SYSTEMS, INC	1900	AT1173	Unclassified	35,640.00	
Sep	9/23/2008	EXPLO SYSTEMS, INC	2111	AT1853	Unclassified	50,000.00	
Oct	10/31/2007	EXPLO SYSTEMS, INC	1890	AT1173	Unclassified	35,640.00	
Jul	7/9/2007	EXPLO SYSTEMS, INC	1829	AT1173	Unclassified	100,500.00	
Jan	1/16/2008	EXPLO SYSTEMS, INC	1925	AT1173	Unclassified	20,709.00	
Nov	11/27/2007	EXPLO SYSTEMS, INC	1903	AT1173	Unclassified	35,640.00	
Nov	11/22/2011	Unclassified	3016	C209790	Unclassified	10,098.00	
Sep	9/28/2007	EXPLO SYSTEMS, INC	1868	AT1173	Unclassified	35,640.00	
Mar	3/7/2008	EXPLO SYSTEMS, INC	1965	AT1842	Unclassified	25,000.00	
Apr	4/2/2007	Unclassified	1786	C090168	Unclassified	10,659.00	
Aug	8/12/2009	Unclassified	2374	C145297	Unclassified	10,883.40	
Aug	8/27/2008	Unclassified	2057	C122759	Unclassified	9,350.00	
Sep	9/28/2010	Unclassified	2657	C177481	Unclassified	11,220.00	
Feb	2/11/2008	EXPLO SYSTEMS, INC	1942	AT1173	Unclassified	35,640.00	
Apr	4/7/2008	EXPLO SYSTEMS, INC	1992	DR1540	Unclassified	56,368.60	
Nov	11/27/2007	EXPLO SYSTEMS, INC	1904	AT1173	Unclassified	29,861.84	
Jan	1/28/2008	EXPLO SYSTEMS, INC	1932	AT1173	Unclassified	35,640.00	
Mar	3/26/2010	EXPLO SYSTEMS, INC	2529	AR5117	Unclassified	91,940.00	
Apr	4/21/2008	EXPLO SYSTEMS, INC	1999	DR1540	Unclassified	28,314.00	
Apr	4/10/2008	Unclassified	1966	C113031	Unclassified	12,370.05	
Nov	11/21/2007	EXPLO SYSTEMS, INC	1901	AT1173	Unclassified	35,640.00	
Mar	3/12/2008	EXPLO SYSTEMS, INC	1971	AT1173	Unclassified	32,800.00	
Nov	11/25/2008	EXPLO SYSTEMS INC.	2169	C13156	Unclassified	32,803.54	
Feb	2/18/2008	EXPLO SYSTEMS, INC	1947	AT1173	Unclassified	35,640.00	
Nov	11/7/2007	EXPLO SYSTEMS INC.	1894	C13156	Unclassified	31,012.08	
Feb	2/22/2008	EXPLO SYSTEMS, INC	1951	AT1828	Unclassified	23,584.32	
Oct	10/11/2007	Unclassified	1874	C101675	Unclassified	9,424.80	
Jan	1/5/2008	EXPLO SYSTEMS, INC	1920	AT1173	Unclassified	35,640.00	
Mar	3/31/2008	EXPLO SYSTEMS, INC	1987	DR1540	Unclassified	179,179.20	
Dec	12/3/2007	EXPLO SYSTEMS, INC	1905	AT1173	Unclassified	35,640.00	
Jan	1/28/2008	EXPLO SYSTEMS, INC	1933	AT1828	Unclassified	21,727.20	
Nov	11/13/2007	EXPLO SYSTEMS, INC	1898	AT1173	Unclassified	35,640.00	
Oct	10/5/2007	EXPLO SYSTEMS, INC	1879	AT1173	Unclassified	35,640.00	
Jan	1/9/2008	EXPLO SYSTEMS, INC	1921	AT1173	Unclassified	35,640.00	
Jun	6/12/2007	EXPLO SYSTEMS INC.	1819	C13156	Unclassified	23,221.66	
Feb	2/5/2008	EXPLO SYSTEMS, INC	1939	AT1173	Unclassified	35,640.00	
Feb	2/12/2008	EXPLO SYSTEMS, INC	1944	AT1173	Unclassified	35,640.00	
Feb	2/19/2008	EXPLO SYSTEMS, INC	1949	AT1173	Unclassified	35,640.00	
Jan	1/14/2008	EXPLO SYSTEMS, INC	1923	AT1173	Unclassified	35,640.00	
Mar	3/18/2011	Unclassified	2764	C186854	Unclassified	12,622.50	
Jan	1/21/2008	EXPLO SYSTEMS, INC	1927	AT1173	Unclassified	35,640.00	
Feb	2/18/2009	Unclassified	2216	C134506	Unclassified	11,818.40	

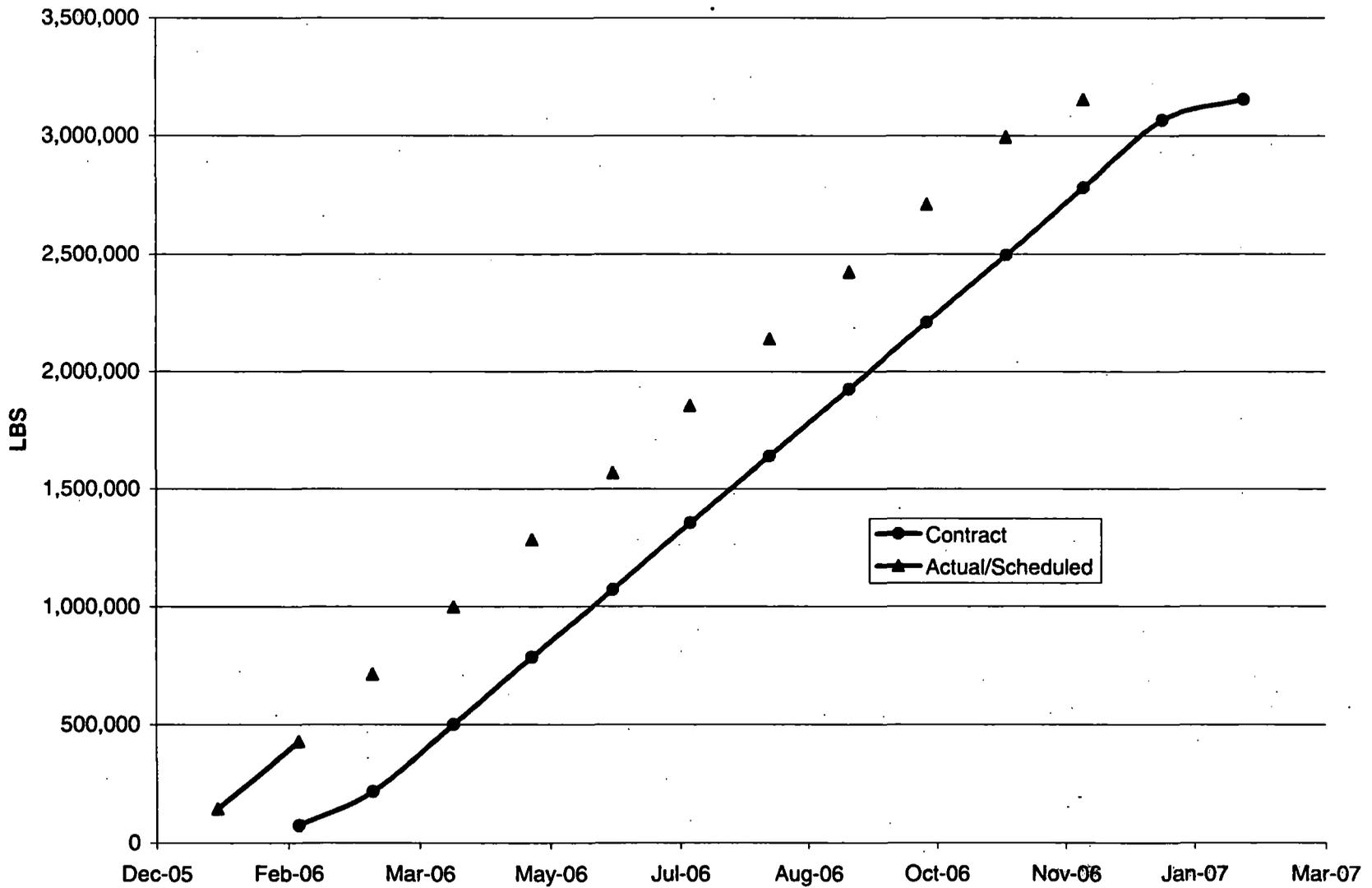
Past Performance Questionnaire
Solicitation # W52P1J-05-R-0177

Contractor/Name and Address (City and State):															
Explo System, Inc. Minden, LA															
Contract/Task Order Number: DAAAD9-03-D-0014															
Contract/Task Order Amount: \$ 1,051,678.4															
Period of Performance: From 2004 April to 2007 February															
Brief Description of Work: Demilitarize GFM M117 Bombs and provide Tritonal to their reclaim process. Tritonal is then refined to MIL-DTL-248D Type III TNT.															
Location of Work: Camp Minden (formerly Louisiana AAP)															
Names and telephone numbers of Contractor personnel responsible for managing the contract:															
1	David Fincher 318-382-8700														
2	David Smith 318-470-1145														
3	Ken Lampkin 318-382-8700														
Ratings Categories: 3-Below Average 5-Average 8-Better than Average 10- Best in Class						1	2	3	4	5	6	7	8	9	10
Customer Satisfaction - Mark the Appropriate Box															
1	Your satisfaction with the Contractor's overall performance.											X			
2	How well did the Contractor meet the objectives of the customer/project.													X	
3	Your satisfaction with the Contractor's ability to intercommunicate with the customer.												X		
4	Your assessment of the ability of the Contractor to resolve problems/complaints.											X			

Past Performance Questionnaire
Solicitation # W52P1J-05-R-0177

5	The Contractor's dialogue with the customer was clear and open, discussing all issues on a timely basis.							X			
Ratings Categories: 3-Below Average 5-Average 8-Better than Average		1	2	3	4	5	6	7	8	9	10
10- Best in Class											
6	Would you recommend the award of similar contracts/projects to this Contractor in the future?								X		
7	Has the contractor been issued any type of performance warning such as a cure notice or a show cause letter, or have they been terminated for default by your organization or another organization that you are aware of?							X			
(Timeliness) - Mark the Appropriate Box											
8	The effectiveness of the metrics and milestones used in monitoring on time performance.									X	
9	Contractor's ability to incorporate lessons learned to avoid reoccurrence of scheduling problems.								X		
10	The effectiveness of Contractor's efforts to accomplish the contract statement of work in a timely manner.									X	
Quality - Mark the Appropriate Box											
11	The effectiveness of the Contractor's Quality Program.							X			
12	Demonstrated understanding and compliance with all requirements applicable to your project.										X

PY2 Reclaim TNT Delivery Schedule



Explo PO Questions

1. What is ATK's penalty from Customer if we fail to deliver 3.1MM pounds by 2/2007?
2. What happens if there is more than 3.1MM pounds (any quantity variance allowed)?
3. Do we have an "Act of God" type clause in the agreement with Customer should Explo fail to perform due to a hurricane etc?
4. Who owns the deflaker, boxer and any other capital equipment purchased by ATK located at Explo? If ATK's are we willing to sell to Explo or do we want them back?
5. Mark did discover that in the current contract there are some areas of potential default by Explo; specifically they have agreed to recycle 1 MM pounds on NC or other propellants if we deliver it to them by 12/2005. Do you know the story on the truck of NC they turned back to ATK in the past? Is that transaction well documented? Mark will be working on putting ATK on record as considering this a default to the contract.

**Milestone Payment Plan for ISL
Facilitization of Explo**

Milestone	Description	Amount, \$ USD	Documentation Required
	<i>comp. dism.</i>		
M1	Initial efforts for lathe, hydraulic press for breaking bombs and hydraulic press for center section	16,800.00	C of C
M2	Preparation for final check of Steamhood system including all additional tools and tools for press out center section without hydraulic press	159,600.00	C of C
M3	Final check and stowing of Steamhood system including all additional tools and tools for press out center section without hydraulic press	20,400.00	C of C
M4	Shipment of Steamhood system including all additional tools and tools for press out center section without hydraulic press	11,600.00	Ocean Bill of Lading
M5	Preparation for final check of lathe, hydraulic press for breaking bombs and hydraulic press for center section	214,500.00	C of C
M6	Installation of Steamhood system including all additional tools	37,200.00	C of C
M7	Test of Steamhood system and preparation for final check of equipment for nick-cutting, breaking and stretching including all additional tools without lathe and hydraulic press and transport material for bomb sections for breaking to melt-out	109,500.00	C of C
M8	Final check and stowing for M5 and M7	80,400.00	C of C
M9	Shipment of M5 and M7	69,000.00	Ocean Bill of Lading
M10	Installation of equipment associated with M4, M5 and M7 at Minden	223,200.00	C of C
M11	Complete testing of installed equipment associated with M4, M5 and M7 at Minden	80,500.00	C of C
TOTAL		1,022,700.00	

Updated

TARGET SHEET

SITE NAME: EXPLO SYSTEMS INC

CERCLIS I.D.: LAR000072223

TITLE OF DOC.: ALLIANT TECHSYSTEMS INCORPORATED AKA
ATK PARTIAL RESPONSE TO 104(E) REQUEST
FOR INFORMATION

DATE OF DOC.: 09/11/2013

NO. OF PGS. THIS TARGET SHEET REPLACES: 10

SDMS #: 9458773 **KEYWORD:** 93.09

SENSITIVE ? **MISSING PAGES ?**

ALTERN. MEDIA ? **CROSS REFERENCE ?**

LAB DOCUMENT ? **LAB NAME:** _____

ASC./BOX #:

CASE #: _____ **SDG #:** _____

**THIS TARGET SHEET REPLACES PAGES 362
THROUGH 371 THAT HAVE BEEN REDACTED DUE TO
FOIA EXEMPTION (b) (4) - CONFIDENTIAL BUSINESS
INFORMATION - THE NON-REDACTED DOCUMENT IS
LOCATED IN THE U.S. EPA REGION 6 SUPERFUND**

COMMENTS : RECORDS CENTER.

Explo PO Clauses

1. Payment will be made for pounds of TNT loaded on trucks made within 5 days after receipt of following documentation:
 - A. For each truck
 - DCMA certification of quantity loaded on truck
 - Production yield for lot on truck. Explanation provided for any yields below 70%.
 - Compliance to Quality requirements as stated in the Purchasing Description
 - B. Each month
 - Monthly Production Excel Yield Chart (electronically submitted to DA by the 15th of the month following production)
 - If yield for month falls below 70%, authorization to continue production required from DA
 - Current inventory information required for: untouched bombs, cut bombs, WIP, finished TNT
 - If yield chart and inventory information is not received, payment will be delayed until provided.
2. The final payment of \$300,000 will be paid in one lump sum contingent on:
 - Loading 3.1MM pounds of TNT by 12/2006 and
 - All above documentation having been received by DA
3. No advance payments to Explo

Worrell, David

From: David Smith [davidsmith@explosystems.com]
Sent: Thursday, September 07, 2006 10:29 AM
To: Worrell, David

DA: Here is what we got.

1. Total delivered 12,750
- 2.) Estimated Destroyed 203 +or- 10
- 3.) Recovered by UXB 52
- 4.) Total in Igloo 3908

Hope that this helps.

David Smith
Explo Systems, Inc.
Phone (318) 382-8700
Fax (318) 382-8434
E-Mail davidsmith@explosystems.com

Worrell, David

From: David Smith [davidsmith@explosystems.com]
Sent: Thursday, September 07, 2006 1:38 PM
To: Worrell, David

DA: Here are the numbers for July

Inv 1702	201
1709	328
1717	175
1721	261

Total 965

David Smith
Explo Systems, Inc.
Phone (318) 382-8700
Fax (318) 382-8434
E-Mail davidsmith@explosystems.com

482

Worrell, David

From: David Smith [davidsmith@explosystems.com]
Sent: Friday, September 08, 2006 3:26 PM
To: Worrell, David
Subject: Inventory

DA: Here is a summary that wiull get close:

AFSC Shipped	12726
- Billed	8386
- Inventory	3908
- to be billed 8/24	232
- destroyed/recovered	200
Balance	-0-

Hope that this helps

David Smith
Explo Systems, Inc.
Phone (318) 382-8700
Fax (318) 382-8434
E-Mail davidsmith@explosystems.com

Worrell, David

From: Worrell, David
Sent: Tuesday, August 16, 2005 2:26 PM
To: Alderman, Mark
Cc: Rinehardt, Matthew; Lemon, Earl
Subject: PO for ISL

Mark,

Please complete the PO for ISL as follows:

Line Item 1: Performance Guarantee Fee \$33,750.00
ISL will guarantee to pay ATK in the amount of \$750,000 if ISL does not complete the efforts outlined in Line Item 2 and Line Item 3.

Line Item 2: Advanced Payment \$1,022,700.00
Payment plan per the attached milestone schedule to facilitate Explo at Minden, LA to perform Line Item 3.



Milestone
ment Plan for IS

Line Item 3: Tritonal Removal per applicable PD 4,501,858 lbs minimum at \$0.4728/lb
\$2,128,479.00
Need a statement that ATK reserves the right to increase the tritonal quantity up to an additional 1.0M lbs at the same rate.
Tritonal removal schedule will be developed prior to start-up and will be coordinated with monthly reclaimed TNT quantities.

Put the flow down requirements from the US Government and all the other magic you do.

Any questions, please call me.

Thanks,

D. A. Worrell, II
TNT/Tactical Tank/PAP8386 Program Manager
540-639-8221
540-230-0118 CELL
540-639-7608 FAX
David.Worrell@atk.com

<u>Delivery</u>	<u># of Tops</u>	<u># of Bottoms</u>	
1	12,585	11,280	
2	12,240	13,908	
3	16,031	12,972	
Total Del To Date	40,856	38,160	2,696
PO Order Qty	61,000	61,000	
Balance due	20,144	22,840	Balance will be manufactured and shipped to Expro by the end of April
Nitro Chem			
LBS in US box	1,023,817		
Boxes Used	18,615		
Tops remaining	22,241		
Bottoms remaining	19,545		
4th delivery-1000 MT		Actually in Nitro	
Boxes Remaining	19,545	6,210	
LBS avail to pack in US	1,074,975	341,550	
MT in US	488	155	
Days of Production (74K/day)	15	5	

Total Delivered to Nitro	
Tops	Bottoms
<u>61,481</u>	<u>62,060</u>
61000	61000
481	1,060

Tim Stiff

Boxes needed	40,085		
Boxes Remaining	19,545	based on bottoms remaining	
Boxes needed for 4th del	20,540		
Third box del		Total	LBS
Tops	20,144	42,385	2,331,175
Bottoms	22,840	42,385	2,331,175
LBS based on order	3,355,000		
Remaining lbs from PO	2,331,183		
Explo from Polish to US			
LBS	1,180,794	Tops	Bottoms
Boxes needed at Expro	21,469	20,625	23,900

- do they need actual boxes or prices for 81mm?

- 1K tops 1K bottoms taken back at Expro
- will check production dates

Received	23,900
Invoiced	23052
848	

Inland Containers
PO AT1247

Invoice Number	No. of Tops	No. of Bottoms	Cost	Total
717093	12585	0	24037.35	12585
721961	0	11280	21319.2	11280
732433	0	13908	26286.12	13908
738988	12240	0	23378.4	12240
753947	0	12972	24517.08	12972
755824	7263	0	13872.33	7263
756543	8768	0	16746.88	8768
780942	12870	0	24581.7	12870
TOTAL	53726	38160	174739.1	91886
792311	0	5040	9525.6	5040
793942	7755	5040	24337.65	12795
GTOTAL	61481	48240	208602.3	109721
PO	61000	61000	232800	122000
DELTA	-481	12760	24197.69	12279

21 May ordered
ready for delivery 30th
2 containers 1st week

2 containers
3rd week
probably won't happen
sent by water

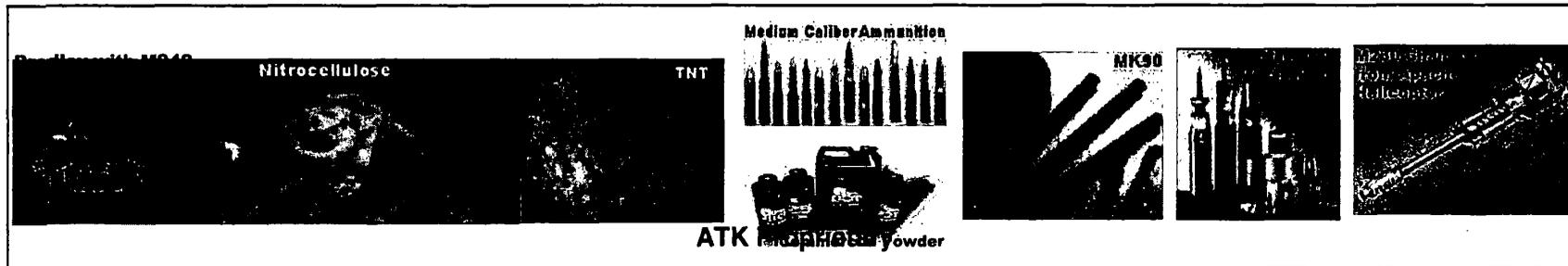
30 Nov 2005



An advanced weapon and space systems company

Delegation to Extend PO to Explo for PY2 Reclaimed TNT to Radford VPs

D.A. Worrell II
December 2005



Executive Summary



An advanced weapon and space systems company

Program Summary

- Exercise Option for PY2 quantity of 3,151,300 lbs of TNT at \$1.05/lb
- Explo requests \$0.05/lb advance payment (\$157,565)
 - ATK will attempt to tie Isotriol disposal to this PO
- PY1 reclaimed deliveries completed using D&Z for tritonal removal and Explo for TNT reclaim.
- PY2 contractual quantities were 4,008,000 lbs.
 - ATK completed proposal of converting 920,700 lbs to OCONUS to fill 7th shipment
- Explo has PO for PY1 with an option for up to 4,008,000 lbs for PY2 at \$1.05 per lb.
- Current PO is \$1.7M and value after award of option is \$3.3M

Win Strategy

- Government contract DAAA09-03-D-0014 currently in place

Scope of Work

- Extend Explo's current PO to 3,151,300 lbs at \$1.05/lb
 - 4,008,000 Original contract amount
 - 920,700 Moved from PY2 to fill OCONUS order
 - 64,000 Residual material from PY1
 - 3.15M Total
- Purchase Description 397356
 - TNT must be packed in US Boxes IAW Dwg. 7548645
 - Packed boxes must be palletized per Dwg. 19-48-4177/1
 - 55 lbs/box
- 385K lbs processed with ISL/Explo in 2004
 - Delivered and processed at MCAAP w/o issues

Financial Performance

- PY1 was performed at \$1.05 per pound with amortization of prepaid funding at \$0.155 per pound.
- PY2 will be performed at \$1.05 per pound with prepaid funding request of \$0.05/lb. ATK will attempt to tie Isotriol disposal evaluation to the advanced payment.
 - Total contract price \$3,308,865
- Current EAC has \$1.05 per pound for TNT reclaim process.
 - Does not require:
 - Capital investment
- Payment terms move from Net 10 to Net 30

EAC July 05



An advanced weapon and space systems company

TNT (\$'s in millions) Contract DAAA09-03-D-0014						
ELEMENT	RESTATED DELEGATED	PREVIOUS EAC Aug-05	ACTUALS Oct-05	ETC	CURRENT EAC Nov-05	+(-) VARIANCE
DIRECT LABOR	\$0.994	\$0.598	\$0.451	0.146	\$0.597	\$0.000
DIRECT EXPENSE	\$1.070	\$0.754	\$0.493	0.227	\$0.720	\$0.034
OCONUS MATERIAL	\$20.450	\$21.479	\$21.479	0.000	\$21.479	\$0.000
RECLAIM MATERIAL	\$13.200	\$11.293	\$4.743	6.584	\$11.327	(\$0.034)
OVERHEADS	\$0.771	\$0.731	\$0.497	0.190	\$0.687	\$0.044
G&A	\$0.306	\$0.253	\$0.163	0.067	\$0.230	\$0.023
RENT	\$1.000	\$0.917	\$0.917	0.000	\$0.917	\$0.000
MGMT RISK	\$2.000	\$0.450	\$0.000	0.353	\$0.353	\$0.097
OFFSET CREDIT	\$0.000	(\$0.442)	(\$0.284)	(0.158)	(\$0.442)	\$0.000
TOTAL COST	\$39.791	\$36.032	\$28.459	\$7.409	\$35.868	\$0.165
TOTAL PROFIT	(0.484)	3.275	2.590	0.850	3.439	\$0.165
Contract Value	\$39.307	\$39.307			\$39.307	\$0.000
Revenue Adjustment	0.000	0.000			0.000	\$0.000
TOTAL VALUE	\$39.307	\$39.307	\$31.048	\$8.259	\$39.307	\$0.000
EBIT RATE PERCENT	-1.2%	8.3%			8.8%	
PROFIT PERCENTAGE (Profit/Cost)	-1.2%	9.1%			9.6%	
RISK % OF TOTAL ETC COST				4.9%		
RISK % OF LABOR ETC COST						
ACTUALS TO DATE					\$28.459	
SALES BOOKED TO DATE					\$31.048	
ACCRUAL RATE (Profit percentage)					9.1%	
MANAGEMENT RISK					\$0.353	

Objective



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Objective

- Exercise Option for PY2 quantity of 3.15M lbs of TNT at \$1.05/lb
 - Terms & Conditions remain the same as current PO AT1173

Customer/History



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- Customer-Army Field and Support Command-Rock Island
- History (Explo)
 - 1.94M lbs of Reclaim TNT delivered to MCAAP during PY1 – no lots failed
 - Complete PY-1 July 2005 (7 months behind schedule)
 - Extremely Cash Poor
 - \$125K advance payment given 7/2003
 - \$800K paid for teaming agreement
 - \$40K paid for water wet NC reprocessing
 - MOA stated Explo would reprocess 1M pounds of water wet NC, but will not accept any NC
 - Stated they could not process the NC efficiently
 - \$142K worth of equipment provided (box former and lab equipment)
 - Claimed to have 1M lbs of TNT ready for delivery late 2003, but only delivered 385K lbs
 - MOA (7/02) stated Explo would provide OCONUS TNT at \$1.15/pound for 3.5M lbs, but changed price to \$1.95/lb 7/03. Explo lowered price to \$1.65/lb and required \$4M working capital. Purchase of OCONUS from Explo was untenable.

Customer/History Continued



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- 9 Quality Audit Findings per ISO 9001:2000 Standards (3 May 2005)
 - 5 findings of uncontrolled documents
 - 1 finding of identification and traceability of product
 - 2 findings of failing customer-related process requirements
 - 1 finding of failing to report damage or loss of customer property
 - Recommended lowering Explo to “probationary” for ATK’s Qualified Supplier list until these issues are resolved
 - ATK Quality Department working with Explo to resolve these issues prior to awarding PY2 PO
- 10 Safety Audit Findings (11 May 2005)
 - Not wearing safety glasses, gloves, protective garments, respiratory protection
 - Wearing jewelry in processing areas
 - Drink and food containers found in production areas
 - Energetic waste and production material stored together
 - Escape routes obstructed by material and equipment
 - Poor housekeeping
 - Improper lifting techniques



An advanced weapon and space systems company

Terms and Conditions Basis

Continuation of current Ts & Cs to PO AT1173

Purchase Description 397356

- TNT must be packed in US Boxes IAW Dwg. 7548645
- Packed boxes must be palletized per Dwg. 19-48-4177/1
- 55 lbs/box

Payment terms are net 30 days

Shipment is F.O.B. origin

Provisions to PO

- Quality requirements for traceability, documentation control, and QA system identified in PD 397356.
- Monthly yield charts
- Retainer fee language added to PO to assure compliance to PO & PD in the amount of \$330,865.50 (10% of contract value)
- ATK will attempt to tie Isotriol disposal evaluation to the advanced payment.

*Sverage
64K into
acceptance PO*

Product Description/Significance



An advanced weapon and space systems company

EXPLO Systems, Inc.

Reclaim TNT

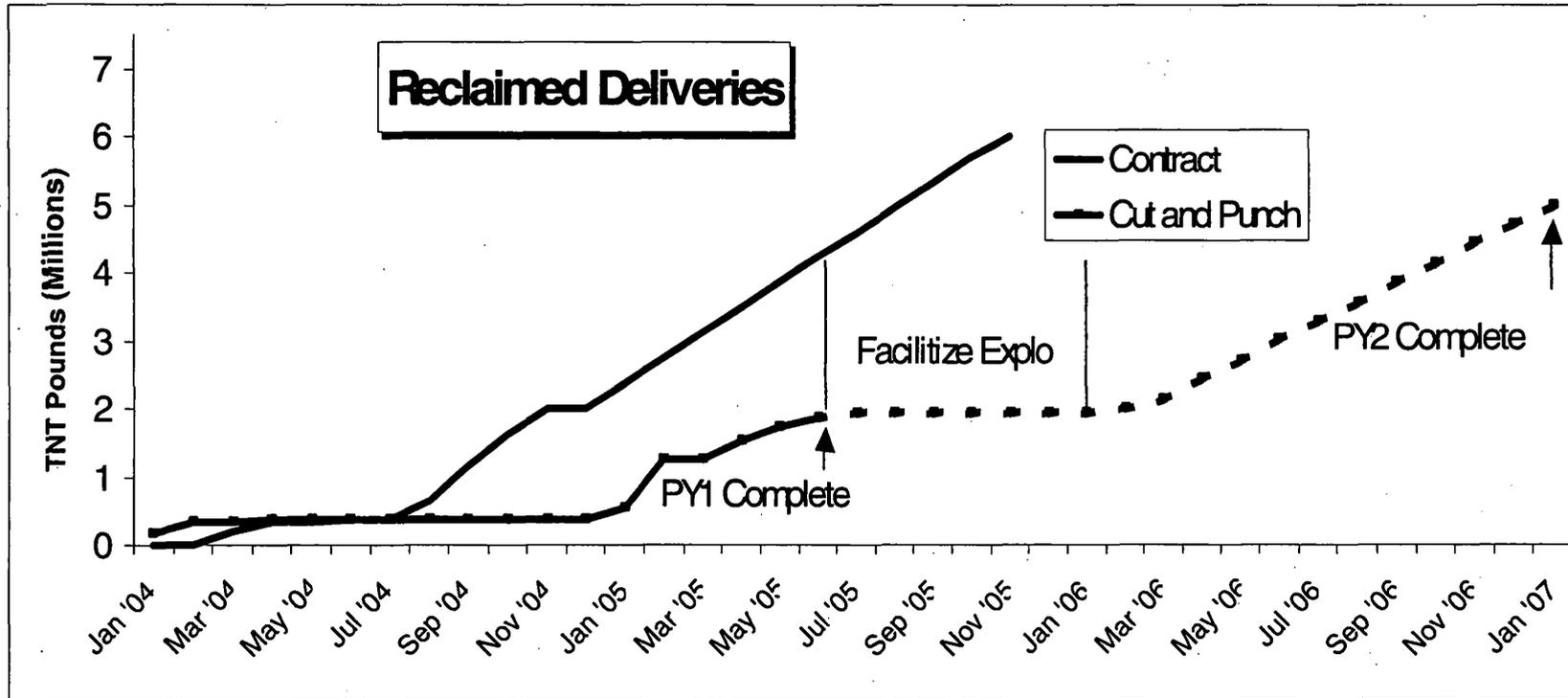
Louisiana AAP

- 1.94M pounds delivered to US government (MCAAP) to date
- Successfully demonstrated reclamation of TNT from cut and punch Tritonal from two separate suppliers (D&Z and ISL)
- MIL-DTL-248D Compliant Type III TNT

Program Schedule



An advanced weapon and space systems company



Opportunities and Risk Assessment

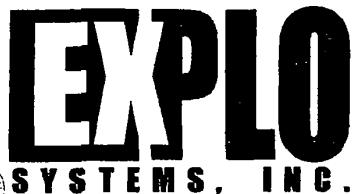


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- Technical Risk-Low
 - 1.94M lbs delivered to date
 - Demonstrated process from two suppliers
 - FAAT for Tritonal supplier waived by AFSC

- Cost Risk-Low
 - PO AT1173 currently in place

- Schedule Risk-Medium
 - Facilitize ISL at Explo by December 2005
 - 12 months from completion of facilitization to completion of PY2
 - Agreement with Explo to ship 285,120 lbs per month
 - Potential to complete PY-2 two months early



Fax Cover Sheet

TO: Matt Rinehardt / ATK

FROM: Nita Singer

FAX: 540-639-7608

DATE: April 25, 2005

TEL: 540-639-8768

PAGE(S): 10

RE:

CC:

Message:

Matt,

Attached are copies of (4) shipments with signed DD250's for:

April 20, 2005 - RAD0041

April 21, 2005 - RAD0042

April 21, 2005 - RAD0043

April 22, 2005 - RAD0044

I am also sending you a copy of the Shipping Log that Carl Cox is logging in.

I will mail you the copies.

Nita Singer *Nita*

Office Manager

Explo

PY02 Reclaimed TNT/BOMB calculation:

Total # Bombs Required:	12,896
Consideration	679
Bombs from D&Z	-344
Net # Bombs Required:	13,231

3,087,300 lbs TNT at 239.4 lbs TNT per bomb = 12,896

Bombs Delivered in 05	-3,602
Requested f/CAAA	-7,168
From BGAD	-2,372

Net # Bombs to be delivered 89

PY02 Reclaimed # Bombs not funded for delivery:

Net # Bombs Required:	13,231
Bombs Delivered in 05	-3,602
Bombs Delivered in 06	-1,260
Bombs being Del f/BGAD	-2,372

Bombs to be del f/CAAA 5,997

Invoice-No. ISL->ATK	Invoice-No. Explo->ISL	CoC-Nr.	Part-No.	billed Tritonal (lbs)	demilled Bombs (pieces)
total of last invoice (..)				3,122,843	8,258
2006033	1605	1		201,252	575
2006043	1607	2		113,526	306
2006044	1610	3		104,414	288
2006045	1617	4		158,226	421
2006068	1626	5		114,499	305
2006071	1629	6		111,073	285
2006075	1632	7		100,346	252
2006088	1636	8		112,375	299
2006095	1641	9		110,745	283
2006111	1643	10		109,421	299
2006116	1653	11		119,712	309
2006126	1657	12		113,042	300
2006143	1660	13		107,836	281
2006156	1664	14		110,227	307
2006165	1668	15		76,218	200
2006166	1672	16		115,102	314
2006190	1676	17		112,237	304
2006193	1684	18		113,935	303
2006196	1689	19		112,412	300
2006202	1693	20		111,792	303
2006213	1697	21		107,846	300
2006238	1702	22		75,498	201
2006245	1709	23		115,972	328
2006248	1717	24		70,483	175
2006250	1721	25		88,984	261
2006267	1726	26		116,044	300
2006268	1733	27		106,496	282
2006276	1737	28		112,630	305
end of list					

date	invoice #	\$ amount	lbs Tritonal	# of bombs	lbs of scrap	actual		w/adv \$'s	PO Value
						@350/bomb	lbs Tritonal/bomb		\$/lb tritonal
9/14/2005	2005321	\$33,750.00		performance guarantee					\$ 1,056,450
9/14/2005	2005320	\$16,800.00	M1	disassembly					\$1,022,700
9/29/2005	2005320	\$159,800.00	M2	prep hoods					\$846,300
10/6/2005	2005320	\$20,400.00	M3	stowing hoods					\$825,900
10/18/2005	2005320	\$11,600.00	M4	shipment of hoods					\$814,300
11/18/2005	2005320	\$214,500.00	M5	prepare lathe					\$599,800
11/14/2005	2005320	\$37,200.00	M8	install hoods					\$562,600
11/24/2005	2005320	\$80,400.00	M8	stowing equipment					\$482,200
11/30/2005	2005320	\$69,000.00	M9	shipment to Explo					\$413,200
12/13/2005	2005320	\$109,500.00	M7	prove steam hood					\$303,700
12/22/2005	2005320	\$80,500.00	M11	completed testing					\$223,200
12/22/2005	2005320	\$223,200.00	M10	completed installation					\$0
						PO Qty	Qty Removed		\$0
						4,501,857			\$ 2,128,479
1/31/2006	2006033	\$95,151.95	201,252	575	350	4,300,605	201,252		\$2,033,327.05
2/14/2006	2006043	\$53,675.09	113,526	306	371	4,187,079	314,778		\$1,979,651.96
2/17/2006	2006044	\$49,234.56	104,134	288	362	4,082,945	418,912		\$1,930,417.40
2/28/2006	2006045	\$74,809.00	158,226	421	376	3,924,719	577,138		\$1,855,608.40
3/13/2006	2006068	\$54,135.13	114,499	305	375	3,810,220	691,637		\$1,801,473.27
3/21/2006	2006071	\$52,515.31	111,073	285	390	3,699,147	802,710		\$1,748,957.96
3/27/2006	2006075	\$47,443.59	100,346	252	398	3,598,801	903,056		\$1,701,514.37
3/31/2006	2006088	\$53,130.90	112,375	299	376	3,486,426	1,015,431		\$1,648,383.47
4/7/2006	2006095	\$52,360.24	110,745	283	391	3,375,681	1,126,176		\$1,596,023.23
4/18/2006	2006111	\$51,734.25	109,421	299	366	3,266,260	1,235,597		\$1,544,288.98
4/24/2006	2006116	\$56,599.83	119,712	309	387	3,146,548	1,355,309		\$1,487,689.15
4/28/2006	2006126	\$53,448.26	113,042	300	377	3,033,506	1,468,351		\$1,434,242.89
5/5/2006	2006143	\$50,984.86	107,836	281	384	2,925,670	1,576,187		\$1,383,258.03
5/12/2006	2006156	\$52,115.33	110,227	307	359	2,815,443	1,686,414		\$1,331,142.70
5/19/2006	2006165	\$36,035.87	76,218	200	381	2,739,225	1,762,632		\$1,295,106.83
5/26/2006	2006166	\$54,420.23	115,102	314	367	2,624,123	1,877,734		\$1,240,686.60
6/2/2006	2006190	\$53,065.65	112,237	304	369	2,511,886	1,989,971		\$1,187,620.95
6/9/2006	2006193	\$53,868.47	113,935	303	376	2,397,951	2,103,906		\$1,133,752.48
6/16/2006	2006196	\$53,148.39	112,412	300	375	2,285,539	2,216,318		\$1,080,604.09
6/23/2006	2006202	\$52,855.26	111,792	303	369	2,173,747	2,328,110		\$1,027,748.83
6/30/2006	2006213	\$50,989.59	107,846	300	359	2,065,901	2,435,956		\$976,759.24
7/7/2006	2006238	\$35,695.45	75,498	201	376	1,990,403	2,511,454		\$941,063.79
7/14/2006	2006245	\$54,831.56	115,972	328	354	1,874,431	2,627,426		\$886,232.23
7/24/2006	2006248	\$33,324.36	70,483	175	403	1,803,948	2,697,909		\$852,907.87
7/31/2006	2006250	\$42,071.64	88,984	261	341	1,714,964	2,786,893		\$810,836.23
8/8/2006	2006267	\$54,865.60	116,044	300	387	1,598,920	2,902,937		\$755,970.63
8/14/2006	2006268	\$50,351.31	108,496	282	378	1,492,424	3,009,433		\$705,619.32
8/18/2006	2006276	\$53,251.46	112,630	305	369	1,378,794	3,122,063		\$652,367.86

374

TOTAL 8,386

**Material Accountability Post Explo Explosion
PY-2**

	Received at Explo	Demilled per ISL Invoices	Remaining Inventory	Destroyed in Explosion *	Difference **
GFM M117 Bombs (ea)	12,726	8,386	3,908	255	177

* - Approximation from Explo.

** - Demilled bombs that have not been invoiced.

	Tritonal Removed per ISL Invoices	Contractual Requirement	Difference
Tritonal Removal (lbs)	3,122,063	4,501,857	1,379,794

	Reclaimed TNT DD250'ed	Contractual Requirement	Difference
Reclaimed TNT (lbs)	2,120,580	3,151,300	1,030,720



Aluminum Alloys ■ Zinc Alloys ■ Metal Trading

QUALIFIED BUYER

Allied Metal Co. has extensive experience in the recycling of 3X M 117 A bomb skins. It is the lead sub-contractor to both General Dynamics Ordnance Systems (HITECH, Camden, Ak.), and PB/Nammo Demil, L.L.C. (MCAAP, McAlester, Ok.) for the recycling of M 117 A bomb skins generated under the OSC 5 year IDIQ Program.

Allied Metal Co. is engaged in the recycling, processing and marketing of scrap metals. As such it complies with paragraph 13 C (2) (a) through 13 C (2) (d) of IOCP 385-1.

A handwritten signature in black ink that reads 'Barry R. Schäffer'.

Barry R. Schäffer
Program Manager
Demil Scrap

February 15, 2005

2059 S. Canal Street Chicago, IL 60616-1578 USA Tel: 312.225.2800 Fax: 312.225.1161
Chicago & Chattanooga www.alliedmetalcompany.com ISO 9002



END USE AND DISPOSITION CERTIFICATE

Invitation Number: 2055-001 Buyer's Name: ALLIED METAL CO.

Item Number(s): _____

Street Address: 2059 SOUTH CANAL STREET
CHICAGO, ILLINOIS 60616

The buyer must complete this form when submitting a bid for any and all items. The certificate will be submitted with, and considered part of, the bid. Bids submitted without a required End Use and Disposition Certificate will be considered non-responsive and rejected. If the buyer is acting solely as an agent, the buyer will identify in this certificate the intended use and disposition intentions of the principle represented by the agent.

1. General information (use separate sheet if necessary).

a. Type of Business:

Scale Proprietorship Partnership Corporation

Other (specify) _____

b. Name and address of corporate headquarters:

ALLIED METAL COMPANY
2059 S CANAL STREET
CHICAGO IL 60616

c. Name and address of corporate officers, directors or partners:

JOEL FINK PRESIDENT & CEO
Same as (b) Above

d. Name and address of Principals (if buyer is acting as an agent):

e. Nature of Buyer's (and Principal's) business:

ALUMINUM SMELTING & REFINING

2. This certifies that item(s) purchased shall be used for the purpose stated by the buyer in an attachment to this certificate. Note: The buyer shall certify that the item(s) purchased will be used to perform comparable functions with exposure to compatible Contaminants and identify the compatible material, or the item(s) is intended for resale or reuse.

3. Certification: The buyer certifies that all the information given in this statement is true and correct. If any change occurs in the information provided in this statement, whether before or after the release of the property, the buyer agrees to provide the contractor a written amendment to this statement. The buyer will not proceed with the intended end use or disposition of the property until written approval is received from the contractor.

Barry R Schaffer
Buyer's Signature (sign in ink)
DATE 2/15/05

Name of Buyer (print or type): BARRY R SCHAFER

Disposition (Check applicable blocks) The Buyer Principal (if Buyer is acting solely as Agent) will;

Not sell or otherwise dispose of the property outside of (Name country of countries): UNITED STATES OF AMERICA

Reexport the property in the form received to (Name of country or countries):

Sell the property to (Name(s) and Address(s)):
ASI KEYSTONE GRANITE CITY, IL

Disposition is unknown: The buyer or principal agrees to obtain the Contractor's written approval for the resale, export, or re-export of any property covered by this certificate prior to its disposition.

4. Acknowledgment. The buyer (and principal if buyer is acting solely as agent) understand that:

a. The property covered by this bid originated in the United States unless otherwise indicated in the invitation for bid.

b. Use, disposition, export, re-export, of this property by the buyer, principal, or any other person is subject to applicable United States Laws and regulations which, among other things, prohibit:

(1) Making false statements and concealing information regarding its use, disposition, export, and re-export and

(2) The use disposition, export, or reexport of the property in any manner not authorized by the provisions of any sales contract resulting from acceptance of the buyer's bid.

c. United States restrictions prohibit unauthorized exports and re-export of United States origin property directly or indirectly to denied or prohibited destinations such as Albania, Angola, Bulgaria, Cambodia, Chile, Cuba, Commonwealth of Independent States, Estonia, Iran, Iraq, Latvia, Libya, Lithuania, North Korea, Outer Mongolia, Romania, South Africa, South Yemen, Syria, Vietnam, the Republic of Yugoslavia (Serbia and Monte Negro), and any other destination designated by the United States Department of State and Department of Commerce.

d. Sanctions may be imposed against any person who violates any law relating to United States export control. Such sanctions will be as specified in United States laws and regulations (including 50 U.S.C. Appx. 2461, et seq; 15 C.F.R., Chap. III, Subchapter B; the Federal Acquisition Regulations; and DOD Instruction 2536.6) and may include the denial of (1) United States export privileges and (2) participation in United States Government Contracts.

e. Comparable sanctions may be imposed for any wrongful or unauthorized act involving property that is not of United States origin.

f. The information provided in this statement is considered a part of the bid and will be a part of any resulting sale contract.

5. Certification: The buyer certifies that all of the information given in this statement is true and correct. If any change occurs in the information provided in this statement, whether before or after the release of the property, the buyer agrees to provide the Contractor a written amendment to this statement. The buyer will not proceed with the intended end use or disposition of the property until written approval is received from the Contractor.

Barry R. Schaffer
 Buyer's Signature (sign in ink)
 Date 2/15/2005

Name of Buyer (print or type) BARRY R. Schaffer

areas (walls, ceilings, floors, barricades, etc.). For example, a bay may have 5X walls (interior covering removed, contaminants may be detected by visual examination but none was found) and 5X ceilings (smooth sealed surface, contaminants may be detected by visual examination but none was found), but only a 3X floor (large cracks may hide contaminants, visual inspection not effective).

13. Acceptable levels of decontamination.

a. Ongoing production. The acceptable decontamination level at the end of a production shift is 1X, defined as routine cleaning. Substantial surface contamination may remain, but it must not endanger knowledgeable personnel or the start of the next shift.

b. Maintenance of articles, pieces of equipment, and buildings.

(1) The minimum acceptable decontamination level for minor equipment adjustment is 1X. You may do minor disassembly to facilitate further decontamination. Local judgement will prevail when defining the term "minor". The immediate area around the disassembly point should be as clean as possible. You may do intraplant movement to facilitate further decontamination, provided you have written concurrence of the installation safety office (or their designee).

(2) The minimum acceptable decontamination level for routine maintenance, careful equipment disassembly (greater degree of disassembly than requiring 1X), etc., is 3X. Intraplant movement requires no separate safety office approval. Do not subject these materials to welding, drilling, sawing, etc., or other processes that may generate enough heat to ignite residual contamination.

(3) The minimum acceptable decontamination level for unrestricted sawing, welding, drilling, etc., is 5X. You may transfer 5X-contaminated articles, pieces of equipment, or buildings to the general public for maintenance.

16 JUL 1997

c. Disposal of articles, pieces of equipment, and buildings.

(1) The general public may buy or receive items classified as 5X or 0. These items are also safe for welding, sawing, or other heat-generating processes.

(2) The general public cannot buy or receive items classified as 3X. Knowledgeable Government installations or qualified buyers may buy and receive them. A qualified buyer is a person or company possessing a BATF explosive manufacturer's license. You may sell 3X-contaminated items to organizations or individuals who are not Government entities and do not possess a BATF license (usually scrap dealers) if:

(a) They have the proper facilities and detailed knowledge to safely store, handle, and disassemble 3X items, and decontaminate them to 5X.

(b) They agree to decontaminate the items to a 5X condition IAW with this guidance.

(c) They agree to provide an end-use certificate. (See appendix D.)

(d) They successfully pass an IOC Safety Division preaward survey (or the equivalent by the responsible entity or agency) verifying satisfaction of paragraph 13c(2)(a) above.

(3) Upon obtaining all permits and approvals, you may dispose of 3X-classified items in qualified landfills.

14. Decontamination plans.

a. Establishing a decontamination plan. The IOC Safety Division highly recommends a decontamination plan to organize large or complex decontamination efforts, establish duties and responsibilities, and provide traceable records. The parties responsible for the decontamination effort; i.e., the plant manager, commander, BATF license holder, etc., should approve the plan. The plan should include the appropriate information and details for the decontamination effort under consideration.

EXPLO SYSTEMS INC. MONTHLY REPORT

CURRENT INVENTORY

BOMBS

AWAITING PROCESING 2,495

BOMBS CUT MONTH 744

BOMBS IN PROGRESS 158 Changes daily

TNT PRODUCTION

AVERAGE MONTHLY YIELD

TRITONAL PROCESSED 203,450 LBS

TNT RECLAIMED 142,560 LBS

YIELD 70.01%

Feb-06

EXPLO SYSTEMS INC. MONTHLY REPORT

CURRENT INVENTORY

BOMBS

AWAITING PROCESING 3,334

BOMBS CUT MONTH 1,095

BOMBS IN PROGRESS 100 Changes daily

TNT PRODUCTION

AVERAGE MONTHLY YIELD

TRITONAL PROCESSED 305,228 LBS

TNT RECLAIMED 213,840 LBS

YIELD 70.05%

EXPLO SYSTEMS INC. MONTHLY REPORT

Mar-06

CURRENT INVENTORY

BOMBS

AWAITING PROCESING

3,423

BOMBS CUT MONTH

1,168

BOMBS IN PROGRESS

66 varies
daily

TNT PRODUCTION

AVERAGE MONTHLY

YIELD

TRITONAL

PROCESSED

440,705 lbs

TNT RECLAIMED

310,385 LBS

YIELD

70.42%

EXPLO SYSTEMS INC. MONTHLY REPORT

Apr-06

CURRENT INVENTORY

BOMBS

AWAITING PROCESING

3,154

BOMBS CUT MONTH

1,247

BOMBS IN PROGRESS

122

varies
daily

TNT PRODUCTION

AVERAGE MONTHLY

YIELD

TRITONAL PROCESSED 450,001 LBS

TNT RECLAIMED

315,150 LBS

YIELD

70.03%

EXPLO SYSTEMS INC. MONTHLY REPORT

May-06

CURRENT INVENTORY

BOMBS

AWAITING PROCESING

1,930

BOMBS CUT MONTH

1,247

BOMBS IN PROGRESS

122 varies
daily

TNT PRODUCTION

AVERAGE MONTHLY

YIELD

TRITONAL PROCESSED 443,655 LBS

TNT RECLAIMED 311,079 lbs

YIELD

70.11%

EXPLO SYSTEMS INC. MONTHLY REPORT

Jun-06

CURRENT INVENTORY

BOMBS

AWAITING PROCESING

3,755

BOMBS CUT MONTH

1,270

BOMBS IN PROGRESS

100

varies
daily

TNT PRODUCTION

AVERAGE MONTHLY

YIELD

TRITONAL PROCESSED

440,659

TNT RECLAIMED

301,960

YIELD

68.45%

Prohibitory-Signs and Mandatory-Signs



Assembly Point



Escape Route



Emergency Phone



Fire Detector



Fire and naked light ... prohibited



Fire Extinguisher



Use head- and ear protection



Warning against hazardous-explosive materials



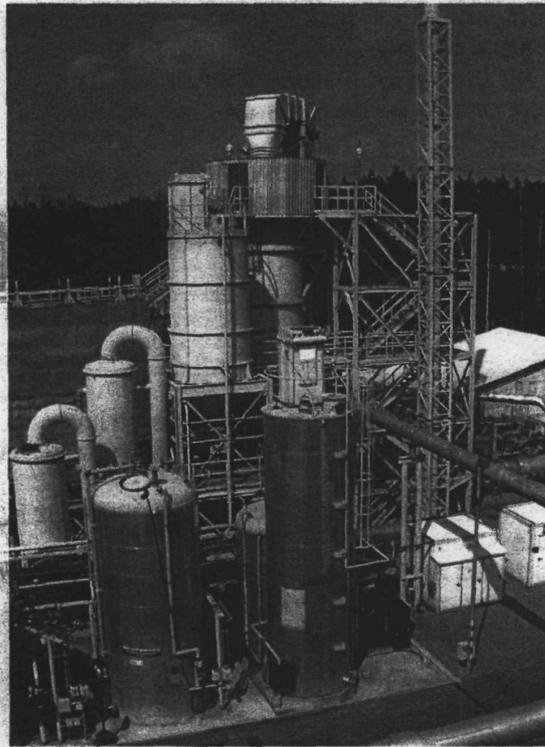
Warning against flammable materials



Warning against hazardous electrical voltage



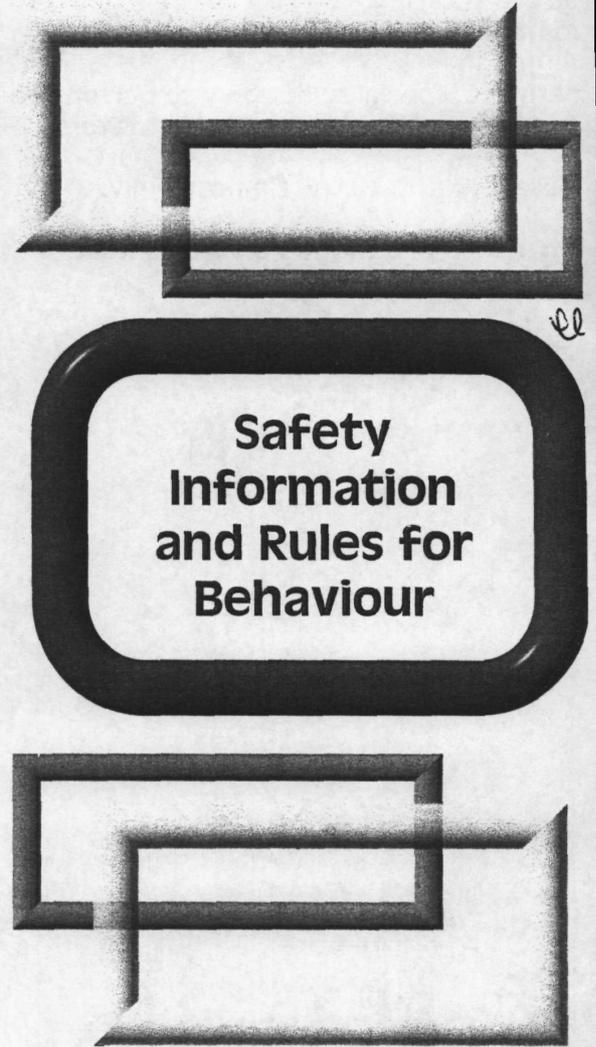
Warning against acid materials



Industriepark Spreewerk Lübben GmbH
Börnichen 99
D - 15907 Lübben
Tel.: +49-(0)3546-28-0
Fax.: +49-(0)3546-28-470



SPREWERK



Industriepark Spreewerk Lübben GmbH
Börnichen 99
D - 15907 Lübben

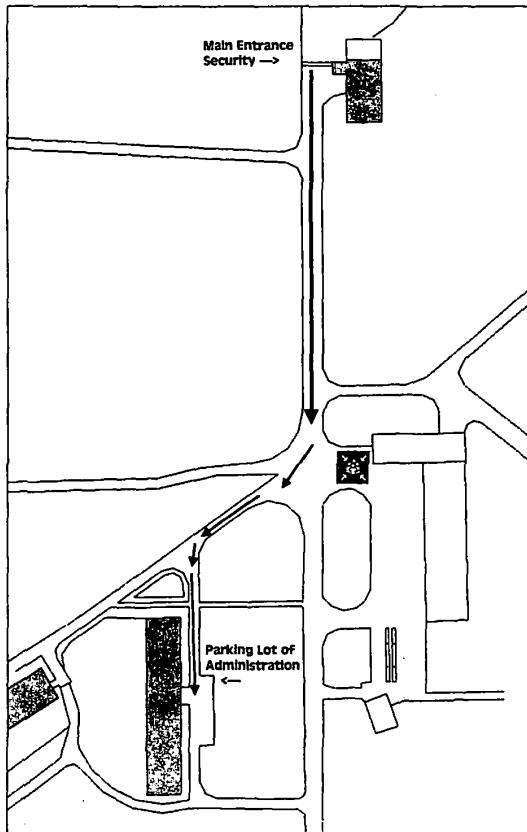
Welcom to our company.

You are entering a facility where explosives are handled and processed.

Therefore, special rules apply to persons on site and must be observed by all visitors.

Please read the instruction carefully.

For further information please contact security or your escort.



Parking for visitors

You will receive a mirror clip for your car, which acts as a parking permit and supplies guidance information.

The Highway Code applies whilst on site. Please observe the maximum speed limit of 15 kmh.

Any vehicle with a yellow flashing light will be loaded with explosive material.

Please move to the right, stop and allow such a vehicle right of way.

Visitors Cards

A Card will be issued to you at Security. Please leave a form of identity with Security for the duration of your visit.

Attach the card to your clothing where it is visible at all times.

Restricted Areas may only be accessed if you are accompanied by your escort.

Bringing Items on Site

Permission must be given by the Management if you wish to bring items such as dangerous/hazardous goods, cameras or recorders on site. If you need to enter with such items please notify the Management on arrival.

Company Smoking Policy

Smoking is only allowed in specially designated areas.

If you wish to smoke, ask your host to escort you to this area.

Accident, Emergency & Fire

In case of an emergency notify:

1. Security-Guard-Station

Phone (03546) 28 - 0 ext. 211

2. Management

Phone (03546) 28 - 0 ext. 200

Information Required:

What has happened

Where has it happened

Who and how many are in danger

How did this occur

Please reply to check-back !

Siren / Emergency Signal

When a Siren / Emergency Signal sound please move to the assembly point.

The assembly point is marked on your site map.

Follow all instructions given by Spreewerk & Security personnel.

General Safety Rules

Pay careful attention to Safety Marking, Prohibited Access Signs and Mandatory

- they are there for your safety.



SPREWERK

**M-117 BOMB DEMILITIARIZATION AND
TRITONAL RECOVERY PROGRAM**

INDUSTRIEPARK SPREWERK LUEBBEN (ISL)

**PREPARED FOR
ALLIANT AMMUNITION AND POWDER COMPANY
Radford Army Ammunition Plant
Radford, Virginia
USA**

The data contained in all pages of this proposal shall not be disclosed outside ATK, the U.S. Government and shall not be duplicated, used, or disclosed in whole, or in part for any purpose other than to evaluate the proposal: provided, that if a contract is awarded to this offeror as a result of or in connection with the submission of this data, ATK, or the U.S. Government shall have the right to duplicate, use, or disclose the data to the extent provided in the contract. This restriction does not limit ATK's, or the U.S. Governments right to use information contained in the data if it is obtainable from another source without restriction

June 17, 2004



SPREWERK

**M-117 BOMB DEMILITIARIZATION AND
TRITONAL RECOVERY PROGRAM
INDUSTRIEPARK SPREWERK LUEBBEN
(ISL)**

SUBCONTRACT PROPOSAL

**PREPARED FOR:
ALLIANT AMMUNITION AND POWDER COMPANY**

The data contained in all pages of this proposal shall not be disclosed outside ATK, or the Government and shall not be duplicated, used, or disclosed in whole or in part for any purpose other than to evaluate the proposal; provided, that if a contract is awarded to this offer or as a result of or in connection with the submission of this data, ATK, ISL, or the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the contract. This restriction does not limit ATK's, ISL's, or the Government's right to use information contained in the data if it is obtainable from another source without restriction.

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1. INTRODUCTION

Industriepark Spreewerk Luebben (ISL) takes pleasure in submitting this bid as a result of an Request for Bid issued by ATK, hereby known at "Customer", for the Demilitarization of M-117 GP bombs and Tritonal Recovery program, dated 9 June, 2004

ISL intends to be fully responsive to the Scope of work to be provided by ATK, however ISL is awaiting a formal Statement of Work as well as a Master Schedule.

2. SCOPE OF WORK

The Draft Statement of Work is included in Attachment A. Attachment A is at end of proposal.

3. OFFER

ISL proposes to perform the work over a twelve (12) month period under a Firm fixed Price contract. The Cost of proposed effort shall be a total of 4,143,302.00 US\$ (fourmillion-onehundredandfourtythreethousand-threehundredandtwo US Dollars). Price is based on the understanding of \$263,00 USD (twohundredandsixtythree US Dollars) per bomb, based on a total agreed to quantity of 15,754 bombs (per reference B). **These prices are without VAT.**

Unless previously withdrawn or modified in writing, this proposal will remain valid for 90 days from the date of submittal. This offer is subject to the negotiation of mutually acceptable terms and conditions. Any new special flow down requirements will be addressed when available.

ISL is awaiting a formal proposal from Explo Systems, LLC. Explo Systems proposal is due date 25 June, 2004. ISL shall keep ATK informed of Explo Systems proposal submittal.

4. CONTRACTUAL INFORMATION

4.1 TERMS AND CONDITIONS

ISL shall accept any mandatory U.S. Government Flow Downs (in FAR 25) that will apply to ISL. Additional Terms and Conditions shall listed in APPENDIX - B

USE OR DISCLOSURE OF DATA IS SUBJECT TO RESTRICTIONS ON THE TITLE PAGE OF THIS DOCUMENT

Unless previously withdrawn or modified in writing, this proposal will remain valid for 90 days from the date of submittal. This offer is subject to negotiation of mutually acceptable terms and conditions. Any new special flow down requirements will be addressed when available.

4.2 REMITTANCE ADDRESS

Industriepark Spreewerk Luebben (ISL)
For payments to ISL by wire - Bank of

Commerzbank Dresden
IBAN: DE31850400000800306300
B/C: COBADEFFXXX

Or:

Commerzbank Dresden
Bank code number: 85040000
Account number: 800306300

USE OR DISCLOSURE OF DATA IS SUBJECT TO RESTRICTIONS ON THE TITLE PAGE OF THIS DOCUMENT



SPREWERK

PROPOSAL APPENDIX A – 1

SCHEDULE: *TBD*

USE OR DISCLOSURE OF DATA IS SUBJECT TO RESTRICTIONS ON THE TITLE PAGE OF THIS DOCUMENT

ATTACHMENT A



**ATK Statement of Work
For
Industriepark Sprewek Luebben (ISL)**

**For the
M117 Bomb Demilitarization /
Tritonal Recovery Program**

DRAFT

June 15, 2004

Prepared by

Industriepark Spreewerk Luebben (ISL)

The information contained in this document is the property of Industriepark Spreewerk Luebben GmbH (ISL) and is submitted in confidence to the contractor. The submission of the information contained herein shall not be deemed to constitute public disclosure or authorization for disclosure to other parties.

***The following is a draft version of the SOW to be reviewed by Customer (ATK).
Current proposal is based on the following SOW.***

1.0 INTRODUCTION

1.1. Scope

This is a Statement of Work (SOW) for the demilitarization of M117 GP Bombs and Tritonal/TNT recovery program as furnished from by U.S. Government. ATK shall contract with Industriepark Spreewerk Luebben GmbH (ISL) to perform said work. In addition to the Program Manager and Program Engineer that Industriepark Spreewerk Luebben GmbH (ISL) will supply, ISL shall subcontract the majority of work in the scope of this contract with Explo Systems, LLC based in Minden, Louisiana. Duration of the contract is estimated at approximately one (1) year, with discussed options of four (4) additional one (1) year contracts (See Attachment A-1 for master schedule –TBD). At the end of performance, ATK shall in good faith negotiate with contractor (ISL) for any additional/future contract extensions. ATK shall offer ISL “first right of refusal” when offering and/or negotiating any and/or all additional contracts to demilitarize said bombs.

Contractor shall provide technical know how in the form of technology and /or information in order to develop machinery to demilitarize GP bombs associated with this contract. Contractor shall also supervise the construction of machinery and technology at subcontractors facility located in Minden, LA. Contractor shall also ensure the proper testing of machinery and/or ensure that everything is proper operational status.

Purpose of contract is for the recovery of 5,750,000 lbs of Tritonal (removed from GP M117 bombs). Based on a prior agreement of 365 lbs per bomb, total number of bombs shall be approximately 15, 754 bombs. Customer (ATK) shall retain the right to offer additional bombs to contractor (ISL) should the need and/or requirement change. However, at no time shall the number of bombs be lower than the agreed to 15, 754.

It is accepted and agreed that the U.S. Government shall be responsible for any and/or all transportation and/or forwarding of any and/or all material (bombs) to the Explo Systems, facility located in Minden, LA. It is hereby stated that ISL shall retain the services of Explo Systems for the performance of this contract. Contractor (ISL) shall hereby provide the proprietary information and technology for the demilitarization of the items (bombs) to Explo Systems. Explo Systems shall hereby use said information and technology to perform any and/or all services under the obligation of this contract. It is hereby understood that and and/or all “propriety data” shall be returned to ISL at the commencement of this U.S. Government contract.

Explo Systems, LLC., hereby known as Subcontractor, shall hereby be responsible for the following:

- Use the technology and information to perform any and/or all work associated in the demilitarization of GP M117 bombs (SOW)
 - Including, but not limited to:
 - Cutting the bombs
 - Breaking bombs
 - Removal of Tritonal
 - Reprocessing of Tritonal
 - Recovering and/or processing any and/or all scrap material associate to, with or from this contract.
 - Explo Systems shall also be responsible for any and/or all import/export permits, licenses and/or paperwork associated with this contract.

1.2. Background

ATK received a contract ("order") to demilitarize GP M117 bombs filled with Tritonal. This contract is part of a program for the recovery of Tritonal and TNT. ATK subsequently retained the services of Industriepark Spreewerk Luebben GmbH (ISL) to perform services that will assist ATK in their efforts to reclaim Tritonal and/or TNT. In addition to the Program Manager and Program Engineer that (ISL), ISL shall subcontract the majority of work in the scope of this contract to Explo Systems, LLC based in Minden, Louisiana. Explo Systems, LLC has a prearranged agreement with ATK to recover the explosive filling of said bombs (Tritonal) for the recovery of TNT.

It is hereby agreed that the basis for this agreement is that all three (3) companies form a team to ensure the recovery of the Tritonal and/or TNT for the purpose of providing Government with an ample supply of TNT. Customer (ATK) shall offer the U.S. Government TNT derived from the recovered Tritonal.

Structure is that ATK shall offer a contract for the period of one (1) year to ISL with the understanding that ATK can and will offer ISL a possible three (3) to four (4) extensions contracts, each for a one (1) year period. Said additional contracts shall only be offered if, and only if there are no defaults, violations and or any other "at fault" situation(s) resulting from the first/original contract.

2.0 APPLICABLE DOCUMENTS

The following documents are applicable to extent specified in this SOW. The most current version of each document, as of the date of this SOW, shall be used.

- ISL shall provide Subcontractor any and/or all specifications, technology and/or other/additional material, for the design and subsequent construction of proprietary machinery for the destruction of said bombs.

- ISL shall also provide any and/or all specifications, including any drawing(s) (in any format) or other material for the safe and secure destruction of said bombs.
- ISL shall provide customer (ATK) either certificate of destruction (COD) or other paperwork stating the destruction of said bombs. Said certificate/paperwork shall indicate the destruction of said bombs.
- ISL shall provide customer monthly progress reports of performance and/or production schedule.
- ISL shall provide customer with monthly invoices for payment(s) for services rendered. Customer shall pay any and/or all invoices net thirty (30).

3.0 TASKS

3.1 Core

Contractor (ISL) shall provide a Program Manager for this effort, as well as an Assistant Program Manager, responsible for all aspects of the program. This individual will be the point of contact for program planning, schedule / cost information and action item status tracking / completion.

Contractor (ISL) shall assign a technically cognizant Project Engineer accountable for the electrical, mechanical, and software integration requirements and validation/compliance with interface controls.

3.2 Engineering Development / System Capabilities

Contractor shall design, develop and test specific development and construction of Proprietary Bomb Demilitarization Line (BDL). Development and construction of said Bomb Demilitarization Line shall include, but are not limited to the following:

3.2.1 Lathing equipment

Contractor shall design and/or develop lathing equipment designed to cut the bomb body and prepare bomb body for breaking. Lathe equipment shall be designed and operated solely to cut the bomb body for the next stage in the demil performance.

3.2.2 Hydraulic Press - A

Contractor shall design, redesign and/or modify and/or develop a hydraulic press for the purpose of physically breaking the bomb body. Said press shall be no less than a three (3) ton hydraulic press and no greater than a six (6) ton hydraulic press. Said hydraulic press shall only be used and/or operated solely to physically break the bomb body in order to expose the explosive filling (Tritonal)

3.2.3 Hydraulic Press - B

Contractor shall design, redesign and/or modify and/or develop a hydraulic press for the purpose of physically pressing the explosive from certain sections of bomb body. Said press shall be a three (3) ton hydraulic press. Press will also be fitted with special equipment in order to ensure proper performance according to Proprietary designs. Said hydraulic press shall only be used and/or operated solely to physically press explosive from bomb body section.

3.2.4 Steam "autoclave"

Contractor shall design, redesign and/or modify and/or develop steaming unit designed to remove the explosive from certain bomb body sections. The proprietary equipment is designed to heat the bomb body section to the point where it becomes hot enough that the explosive shall remove itself from the bomb body section and fall into a pre-designed container for the collection of explosive. Said equipment shall include any and/or all necessary equipment necessary to perform said action in a safe and secure manner.

3.2.5 Tritonal recovery equipment

Subcontractor shall design, develop, reconfigure and incorporate existing material and/or equipment in order to recover Tritonal for the recovery of TNT. Said material and/or equipment shall be considered proprietary in nature and shall not be considered for public knowledge.

***** ALL ISL TECHNOLOGY AND/OR EQUIPMENT SHALL BE RETURNED TO ISL AT THE COMMENCEMENT OF SUBCONTRACT.**

3.3 Engineering / Technical Support Services

3.3.1 Design, redesign develop and/or modify Bomb Demilitarization Line (BDL).

Contractor shall perform any and/or all said work at Contractors facility located in Luebben, Germany. However, Contractor reserves the right to add, change and/or modify any specifications on-site at subcontractor facility located in Minden, LA. Contractor reserves the right to do any additions, changes and/or modifications either before, during and/or after award of contract.

3.3.2 Construction of material and equipment

Contractor shall perform any and/or all construction of said equipment at Subcontractors facility located in Minden, LA. If needed, Contractor reserves the right to either assist and/or retain companies to perform any and/or services associated with the preparation and/or construction of said equipment.

3.3.3 Testing

Contractor shall perform any and/or all tests associated with the construction and/or start up of any and/or all equipment, material and/or services at Subcontractors facility in Minden, LA. Contractor reserves the right to perform any and/or all portions and/or segments of any test associated with the successful completion of Bomb Demilitarization Line (BDL) at any other location (other than Subcontractors facility).

3.3.4 Support

Contractor shall offer and/or provide support, from start to finish, for the Bomb Demilitarization Line (BDL). Such assistance/supports shall be in

form of verbal, fax, e-mail (printed and/or electronic formats) and/or direct physical assistance/support (in person). Said assistance/support shall be available at any time from Contractors facility in Luebben, Germany and/or San Diego, CA.

3.4 Quality Assurance Provisions

3.4.1 Quality System

The Seller's Quality System shall comply with the Quality Clauses specified in the terms and conditions of the contract. The Quality and/or Inspection and manufacturing/construction processes are subject to review, verification and analysis by Contractor representatives. These on site reviews at Explo Systems facility may occur during design, development and/or construction or final assemblies of Bomb Demilitarization Line (BDL).

3.4.2 Corrective Action

In response to Customer-initiated corrective action requests, Contractor shall advise Customer of root cause determination, corrective action taken to prevent recurrence of reported problems and/or discrepancies, and effectivity dates of the planned corrective action(s). Contractor shall maintain a corrective action system that determines the effectiveness of such corrective actions, and shall comply with all "Terms and Conditions" provided in the contract.

3.4.3 ISL's Customer Inspection

Contractor hereby advises Customer that during the performance of this order, the Contractor quality system and manufacturing/construction processes may be subject to review, verification and /or analysis by authorized ATK("Customer") representative(s).

3.4.4 Packaging, Handling and Transportation

The Customer (ATK) shall establish practices for packing, handling and transporting the Item adequate to maintain damage free delivery of bombs.

4.0 DELIVERABLES

The following is the current list of deliverables.

Items	Title	Frequency
1	Status report of current performance	30 th of every month /"end of month"
2	Design and delivery of design(s), technology.	TBD
3	Delivery of equipment	TBD
4	Construction of Bomb Demilitarization Line (BDL)	TBD
5	Testing of BDL	TBD
6	Receipt of bombs for demil	Per Customer (ATK) details

7	Commencement of Production	TBD
8	Final report of production	End of contract

**** The Deliverable schedule will be mutually agreed to by both ATK and ISL.**

4.1 CUSTOMER FURNISHED EQUIPMENT AND INFORMATION

The subcontractor shall define any Customer Furnished Equipment (CFE) and/or Customer Furnished Information (CFI) requirements.



Statement of Work Attachment A-1 Master Schedule:

TBD



APPENDIX - B

ADDITIONAL TERMS AND CONDITIONS

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ISL has integrated exceptions into the following Terms and Conditions

1.3. SECTION 1 – GENERAL PROVISIONS

Section 1 is applicable for ALL contracts

1.1 DEFINITIONS

As used throughout the document, the following terms shall have the meanings set forth below unless otherwise indicated:

- (a) **“ALLIANT” and/or “ATK” and/or “Customer”** means Alliant Ammunition and Powder Company, LLC, acting through its duly authorized Procurement Representative, or Buyer, who is the only person authorized to direct the efforts of the Contractor.
- (b) **“CONTRACTOR” and/or “Industriepark Spreewerk Luebben” “(ISL)”** means the Offeror, Seller, individual, partnership, corporation, or association contracting to furnish the described articles(s).
- (c) **“CONTRACT”** means a mutually binding legal relationship between Alliant and Contractor that obligates Contractor to furnish Articles and Alliant to pay for them. In addition to bilateral instruments, contracts include, but are not limited to, purchase orders, letter contracts, awards and notices of awards, and bilateral contract modifications.
- (d) **“ARTICLES”** refers to the goods, products, supplies, parts, assemblies, technical data, drawings, services, or other items constituting the subject matter of the Contract, which are to be furnished by Contractor to Alliant.
- (e) **“SUBCONTRACT”**, except as otherwise provided in the Contract, means all contracts placed by the Contractor or lower tier Subcontractors for the specific purpose of performing any portion of work under the Contract, and includes, but is not limited to, purchase orders, changes, and modifications thereto.
- (f) **“WRITTEN ORDER”, “NOTIFICATION OF CHANGE”, “SUPPLEMENT”, “ALTERATION”, or “AMENDMENT”** mean a formal written order describing the change to be made, issued, and signed by Alliant.

- (g) "SUPPLIES", "SERVICES" and equivalent phrases, when used in conjunction with provisions containing Federal Acquisition Regulation (FAR) references, shall mean "Articles" as defined above.
- (h) "PROMISE DATE" or "SCHEDULE DELIVERY DATE" means the date of receipt at destination, not ship date, irrespective of FOB point.
- (i) "COMMERCIAL COMPONENT" or "COMMERCIAL ITEM", as used in Government funded contracts, is defined in FAR 2.101 Definitions.

1.2 TERMS AND CONDITIONS

Alliant objects to, and is not bound by, any term or condition which differs from or adds to the Contract. No terms and conditions other than the terms and conditions set forth in the Contract, including terms and conditions in any document attached to or incorporated by reference in the Contract, shall be binding upon Alliant unless accepted by Alliant in writing by authorized individual. Contractor shall be deemed to have assented to all terms and conditions herein if Contractor begins performance or transmits acknowledgement of the Contract by written or electronic means.

1.3 PRECEDENCE

All documents and clauses in the Contract shall be read, to the extent practical, so as to be consistent. In the event of conflict, the order of precedence for the Contract is:

- (a) The typed requirements on the face of the Contract
- (b) Supplemental Procurement Terms and Conditions (if any) incorporated into the Contract
- (c) The General Provisions (Section 1)
- (d) The Special Provisions (Section 2), if applicable
- (e) Provisions for the Control of Government Property at Suppliers (Section 3), if applicable
- (f) The Statement of Work incorporated into the Contract, if any
- (g) Any other documents specifically incorporated herein either by actuality or by reference

1.4 SCHEDULE

- (a) Contractor shall strictly adhere to the Contract's promise date(s), schedule delivery date(s), or completion schedule(s). Contractor shall not deliver Articles more than thirty (30) calendar days prior to these dates unless authorized in writing by Alliant. Articles delivered to Alliant in advance of schedule on the PO and without written authorization may be returned at Contractor's expense and without any obligation to Alliant.
- (b) In the event of any anticipated or actual delay in the performance of the Contract, Contractor shall:
 - (1) Promptly notify Alliant in writing of the reasons for the actual/anticipated delay and the actions being taken to overcome or minimize the delay

(2) Provide Alliant with a written recovery schedule.

(3) If Alliant requests, Contractor shall, at Contractor's expense, ship recovery schedule via air or other expedited routing to avoid the delay or minimize it as much as possible.

(4) Contractor agrees to flow down this provision to its Subcontractors, and notify Alliant when there are anticipated or actual delays at a subcontract level that could affect performance under the Contract.

(5) Notification shall not be construed to relieve Contractor of its obligation to comply with Contract delivery requirements.

(c) Alliant shall be entitled to either an equitable price reduction for late deliveries, or the right to terminate the Contract for default for late deliveries. Failure of the parties to reach agreement on an equitable price reduction shall be a dispute under the "Disputes" clause. Contractor has a duty to continue performance under the Contract pending resolution of the dispute.

1.5 CHANGES

(a) Alliant may at any time, by written order, and without notice to sureties, if any, make changes within the general scope of the contract in any one or more of the following:

(1) Technical requirements and descriptions, statements of work, drawings, designs, or specifications

(2) Method of shipment or packing

(3) Inspection, acceptance, or performance

(4) Reasonable adjustments in quantities, delivery schedules, or both

(5) Amount of Alliant – furnished property

Contractor reserves the right to discuss and/or negotiate any such changes / modifications prior to acceptance.

(b) If such change increases or decreases the cost or time required to perform the Contract, Alliant and Contractor shall negotiate an equitable adjustment in price or schedule, or both, to reflect the increase or decrease. Alliant shall then modify the Contract to reflect such adjustment.

(c) Contractor shall submit any "Proposal For Equitable Adjustment" (hereafter referred to as "Proposal") under the clause within thirty (30) calendar days from the date of receipt of the written change order. Alliant, at its option, may receive and act upon a proposal submitted later than thirty (30) days but before final payment of the Contract.

(d) If Contractor's proposal includes the cost of property made obsolete or excess by the change, Alliant shall have the right to prescribe the manner of the disposition of the property.

(e) Failure of the parties to reach agreement on an equitable adjustment shall be a dispute under clause 1.6 DISPUTES. In any event, Contractor has a duty to proceed with its performance under the contract pending resolution of the dispute, and nothing in the clause shall excuse Contractor from proceeding with the Contract as changed.

1.6 DISPUTES

In the event of any dispute or disagreement arising under or relating to the Contract, the parties agree to make diligent and reasonable attempts to resolve through negotiations all such disputes or disagreements prior to resorting to any remedy available in law or equity. Notwithstanding the dispute or disagreement, and pending final resolution, Contractor agrees to proceed with the performance of the Contract to the extent directed by Alliant.

1.7 RIGHT TO ADEQUATE ASSURANCE OF PERFORMANCE

(a) The Contract imposes an obligation on each party that the other's expectation of receiving due performance will not be impaired. When reasonable grounds for insecurity arise with respect to the performance of either party, the other party may in writing demand adequate assurance of due performance, and until the party receives such assurance, may, if commercially reasonable, suspend any performance for which the party has not already received the agreed return.

(b) After receipt of a justified demand, failure to provide within thirty (30) calendar days such assurance of due performance as is adequate under the circumstances of the particular case is a repudiation of the Contract.

1.8 ON-SITE REPRESENTATION

In the event Alliant assigns on-site representation for the Contract, the Contractor shall provide the use of office space, office supplies, furnishings, telephones, etc., for the contract period of performance or as mutually agreed to by Alliant and Contractor. Alliant's on-site representation shall interface with the Contractor and monitor all aspects of Contractor's progress and performance to ensure compliance with specific technical, quality, and schedule requirements contained within the Contract.

1.9 TECHNICAL ASSISTANCE

Alliant's engineering and technical personnel may, from time to time, render assistance or give technical advice to, or effect an exchange of information with Contractor's personnel in a liaison effort concerning the Articles of the Contract. Such an exchange of information or advice given shall not authorize Contractor to change the Articles or the provisions of the Contract. No change shall be made without the prior written consent of Alliant.

1.10 WAIVERS/APPROVALS

(a) No waiver, alteration, or modification of any of the provisions of the Contract shall be binding on Alliant unless evidenced by a written change or modification to the Contract signed by Alliant authorized individual.

- (b) Alliant's approval of Contractor's design or article shall not relieve Contractor of the warranties or any other requirements of the Contract. Waivers by Alliant of any drawings or specification requirements for one or more Articles shall not constitute a waiver of such requirements for the remaining articles unless so stated in writing by Alliant. The provisions of the clause shall not limit or affect the rights of Alliant under clause 1.20 ACCEPTANCE.

1.11 SUSPENSION OF WORK

- (a) Alliant's Purchasing Representative(s) may, by written order, suspend all or part of the work to be performed under the Contract for a period of up to three (3) months with *VALID* reason to do so. Within such period of any suspension of work, Alliant's Purchasing Representative shall, in writing:
 - (1) Cancel the order suspending work, or
 - (2) Terminate the Contract in accordance with clause 1.12 TERMINATION FOR CONVENIENCE, or clause 1.13 TERMINATION FOR DEFAULT, or
 - (3) Extend the stop work period.
- (b) Upon receipt of such an order, Contractor shall immediately comply with its terms and take all reasonable steps to minimize incurring costs (including stand-by costs) allocable to the work covered by the order during the work stoppage.
- (c) Contractor shall resume work whenever a suspension is canceled or the stop work period or its extensions expires. Alliant shall be responsible for certain costs associated with new start up costs after said delay, suspension and/or termination.
- (d) Alliant and the Contractor shall negotiate an equitable adjustment in Contract price or schedule or both, if:
 - (1) The Contract is not terminated,
 - (2) The suspension results in a change in Contractor's cost of performance or ability to meet the Contract delivery schedule, and
 - (3) Contractor submits a claim for adjustment within thirty (30) calendar days after the suspension is canceled.

1.12 TERMINATION FOR CONVENIENCE

- (a) Alliant may terminate performance of work under the Contract in whole or, from time to time, in part with *VALID* reason(s). Alliant AND Contractor shall mutually agree to *valid* reason(s) for termination of contract. Alliant shall terminate by issuing to Contractor a "Notice of Termination" specifying the extent of termination and the effective date.
- (b) After receipt of a Notice of Termination, and except as directed by Alliant, the Contractor shall immediately proceed with the following obligations:
 - (1) Stop work as specified in the Notice of Termination.

- (2) Place no further subcontracts or orders except as necessary to complete the continued portion of the Contract.
 - (3) Terminate all subcontracts to the extent they relate to the work terminated.
 - (4) Complete performance of the work not terminated.
 - (5) As directed by Alliant, transfer title and deliver to Alliant:
 - (i) The fabricated or unfabricated parts, work in process, completed work, supplies, and other material produced or acquired for the work terminated, and
 - (ii) Should Alliant terminate and/or cancel performance contract(s), Alliant and/or Government shall be responsible for any fees and/or costs associated with the removal and return shipment of any unused and/or unprocessed material to Customer.
 - (6) Comply with the instructions by Alliant in the Notice of Termination and any subsequent written instructions.
- (c) After termination, Contractor shall submit a final termination settlement proposal for equitable adjustment to Alliant in the form and with the certifications prescribed by Alliant. Contractor shall submit the proposal promptly, but no later than ninety (90) calendar days of the Notice of Termination, unless extended in writing by the Alliant Procurement Representative upon written request of the Contractor within the 90-day period. If Alliant determines that the circumstances justify it, a termination settlement proposal may be received and acted on after the 90 days or any extension. If the Contractor fails to submit the proposal within the time allowed, Alliant may determine, on the basis of information available, the amount, if any, due the Contractor because of the termination and shall pay the amount determined. Such determination shall be conclusive.
- (d) Subject to paragraph (c) of the clause, the Contractor and Alliant may agree upon the whole or any part of the amount to be paid or remaining to be paid because of the termination. The amount may include a reasonable allowance for profit on work completed; however, the agreed amount may not exceed the total Contract price as reduced by:
- (1) The amount of payments previously made and
 - (2) The Contract price of work not terminated.
- The Contract may be modified and the Contractor paid the agreed amount subject to (1) and (2) above.
- (e) If the Contractor and Alliant fail to agree on the entire amount to be paid because of the termination of work, Alliant shall pay the Contractor the amounts determined by amount of work/performance completed at time of termination. Failure of the parties to reach agreement shall be a dispute under clause 1.6 DISPUTES. A dispute shall not excuse continued performance on the non-terminated portion of the Contract.
- (f) When applicable, clauses 2.55 FAR 52.249-2 Termination for Convenience of the Government (Fixed-Price) or 2.56 FAR 52.249-6 Termination (Cost-Reimbursement) in Section 2 – SPECIAL PROVISIONS take precedence over the clause

1.13 TERMINATION FOR DEFAULT

- (a) Alliant may, subject to paragraphs (d) and (e) of the clause, by written notice of default to the Contractor, terminate the Contract in whole or in part if the Contractor fails to:
- (1) Deliver the Articles or to perform the services within the time specified in the Contract or any extension,
 - (2) Make progress, so as to endanger performance of the Contract [but see paragraph (b) of the clause], or
 - (3) Perform any of the other provisions of the Contract [but see paragraph (b) of the clause].
- (b) Alliant's rights to terminate the Contract under paragraphs (a) (2) and (a) (3) of the clause may be exercised if the Contractor does not cure such failure within 10 days (or more if authorized in writing by Alliant) after receipt of the notice from Alliant specifying the failure.
- (c) If Alliant terminates the Contract in whole or in part, it may acquire from another source, under the terms and in the manner Alliant considers appropriate, Articles or services similar to those terminated, and the Contractor shall NOT be liable (to Alliant) for any excess costs of those Articles or services. The Contractor shall continue the work not terminated.
- (d) Except for defaults of subcontractors at any tier, the Contractor shall not be liable for any excess costs if the failure to perform the Contract arises from causes beyond the control and without the fault or negligence of the Contractor. Examples of such causes include (1) acts of God or of the public enemy, (2) acts of the Federal Government in either its sovereign or contractual capacity, (3) fires, (4) floods, (5) epidemics, (6) quarantine restrictions, (7) strikes, (8) freight embargoes, and (9) unusually severe weather. In each instance the failure to perform must be beyond the control and without the fault or negligence of the Contractor.
- (e) If the failure to perform is caused by the default of a Subcontractor at any tier, and if the cause of the default is beyond the control of both the Contractor and Subcontractor, and without the fault or negligence of either, the Contractor shall not be liable for any excess costs for failure to perform, unless the subcontracted Articles or services were obtainable from other sources in sufficient time for the Contractor to meet the required delivery schedule.
- (f) If the Contract is terminated for default, Alliant may require the Contractor to transfer title and deliver to Alliant, as directed by Alliant, any (1) completed articles, and (2) partially completed articles that the Contractor has specifically produced or acquired for the terminated portion of the Contract. Upon direction of Alliant, the Contractor shall also protect and preserve property in its possession in which Alliant has an interest.
- (g) Alliant shall pay contract price for completed articles delivered and accepted. Contractor and Alliant shall agree on the amount of payment for articles delivered and accepted and for the protection and preservation of the property. Failure to agree will be a dispute under clause 1.6 DISPUTES. Alliant may withhold from these amounts any sum Alliant determines to be necessary to protect Alliant against loss because of outstanding liens or claims of former lien holders.

(h) If, after termination, it is determined that the Contractor was not in default, or that the default was excusable, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of Alliant.

(i) Contractor agrees that any assistance given them by Alliant on the Contract or any acceptance of delinquent or nonconforming items will be solely for the purpose of mitigating damages. It is not the intention of Alliant to condone any delinquency, waive any defect, or waive any rights Alliant has under the Contract.

(j) The rights and remedies of Alliant in the clause are in addition to any other rights and remedies provided by law or under the contract.

(k) When applicable, clauses 2.56 FAR 52.249-6 Termination (Cost-Reimbursement) and 2.57 FAR 52.249-8 Default (Fixed-Price Supply and Service) in Section 2 – SPECIAL PROVISIONS take precedence over the clause.

1.14 ALLIANT/GOVERNMENT FURNISHED PROPERTY

(a) Alliant shall furnish to Contractor, at the time(s) and location(s) stated in the Contract, any Alliant/Government-furnished property described in the Contract. If that property, suitable for its intended use, is not delivered to the Contractor, Alliant shall equitably adjust the affected provisions of the Contract in accordance with clause 1.5 CHANGES when:

- (1) Contractor submits a timely written request for an equitable adjustment, and
- (2) The facts warrant an equitable adjustment.

(b) Title to Alliant/Government-furnished property shall remain in Alliant/Government. Contractor shall use the Alliant/Government-furnished property only in connection with the Contract. Contractor shall maintain adequate property control records in accordance with sound industrial practice and shall make such records available for Alliant inspections at all reasonable times.

(c) Upon delivery of Alliant/Government-furnished property to Contractor, Contractor assumes the risk and responsibility for its loss or damage, except:

- (1) For reasonable wear and tear;
- (2) To the extent property is consumed in performing the Contract; or
- (3) As otherwise provided for by the provisions of the Contract.

(d) Contractor shall promptly notify the Alliant Procurement Representative if Alliant/Government-furnished property is lost, damaged, or destroyed.

(e) Upon completing the Contract, Contractor shall follow the instructions of Alliant regarding the disposition of Alliant/Government-furnished property not consumed in performing the Contract or previously delivered to Alliant/Government.

(f) Alliant/Government and all its designees shall have access at all reasonable times to the premises in which any Alliant/Government property is located for the purpose of inspecting the Alliant/Government property. Alliant/Government shall inform Contractor (who shall inform Subcontractor) in written form of visit/tour/inspection no less than a forty eight (48) hour notice.

(g) When applicable, Section 3 – PROVISIONS FOR THE CONTROL OF GOVERNMENT PROPERTY AT SUPPLIERS takes precedence over the clause.

(h) Alliant shall be responsible for obtaining and/or securing any and/or all necessary permits, licenses and/or any other documents associated with this contract, INCLUDING any and/or all ITAR permits, licenses and/or any other documents (per verbal agreement from Alliant).

1.15 COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)

Articles delivered under the Contract shall be in compliance with OSHA standards. Contractor agrees, at its expense, to repair, modify, or replace any articles not in compliance with OSHA standards, and to hold harmless and indemnify Alliant and its Customers from any liability and expense (including attorney's fees) by reason of property damage or personal injury (including death) occasioned in whole or part from a violation of OSHA standards.

1.16 ELIMINATION OF OZONE-DEPLETING SUBSTANCES

In accordance with Public Law 102-484, the Contract or related subcontracts shall not contain any specification or requirement that can only be met by, or require the use of, a Class I ozone-depleting substance unless such use is specifically authorized in writing by Alliant.

1.17 PACKING, MARKING, AND SHIPPING

Unless otherwise specified in the Contract:

(a) All articles shall be packed, marked, and shipped in accordance with good commercial practices to ensure protection in shipment and storage. Contractor shall be liable for any expense incurred by Alliant as a result of improper preservation, packaging, packing, marking, or method of shipment and shall reimburse Alliant for any such expenses.

(b) Contractor shall strictly comply with the delivery requirements of the Contract. In the event of Contractor's failure to so comply with the delivery requirements, Alliant may, in addition to all other remedies, require Contractor, at Contractor's expense, to ship articles via air freight or expedited routing to avoid or minimize delay.

(c) Any and/or all shipping logistics shall be the responsibility of Alliant/Government. As such, Alliant/Government shall incur any and/or all costs and/or fees associated with such actions.

1.18 HAZARDOUS MATERIALS PACKING CERTIFICATION OF EQUIVALENCY

Prior to bringing any hazardous material or chemical (as determined by OSHA regulation at 29 CFR Section 1910.1200[d]) onto Alliant's property or work sites, Contractor shall provide to Alliant, under separate cover, a "Material Safety Data Sheet" for each such material or chemical. The form of the Material Safety Data Sheet shall be OSHA Form 20 or equivalent, containing all of the information required by 29 CFR Section 1910.1200 (g).

1.19 INSPECTION

- (a) Contractor shall provide and maintain an inspection system in accordance with sound business practices and as otherwise provided in the Contract. Records of all inspection work by Contractor shall be kept complete and available to Alliant during the performance of the Contract and for four (4) years after final payment, and in such manner as may be specified elsewhere in the Contract.
- (b) At no additional cost to Alliant, articles shall be subject to inspection, surveillance and test at reasonable times and places, including Contractor's and its subcontractors' locations. Alliant and its Customer shall perform inspections, surveillance and tests so as not to unduly delay the work.
- (c) If Alliant or its Customer performs an inspection or test on the premises of Contractor or its subcontractors, Contractor shall furnish, and require its subcontractors to furnish, without additional charge, reasonable data, facilities, access and assistance for the safe and convenient performance of these duties.
- (d) Contractor shall inform Alliant when the work is ready for inspection.
- (e) Alliant shall inform Contractor, in writing, of any inspection/tour/visitto either Contrator's facility in Germany or Subcontractor's facility in Minden, LA with a minimum of forty eight (48) hours notice.

1.20 ACCEPTANCE

- (a) Alliant shall accept articles or give Contractor notice of rejection within a reasonable time, notwithstanding any payment or prior test or inspection. No inspection, test, delay or failure to inspect or test, or failure to discover any defect or other nonconformance shall relieve Contractor of any obligations under the Contract or impair any rights or remedies of Alliant or its customer.
- (b) In case any article or lot of articles is defective in material or workmanship, or otherwise not in strict conformance with the requirements of the Contract, Alliant shall have the right either to reject it, require its correction, or accept it with an equitable adjustment in price or other consideration. Alliant acceptance of a nonconforming article does not release Contractor from its warranty or latent defect obligations. Any article that has been rejected or requires correction shall be replaced or corrected by, and at the expense of the Contractor, including transportation

charges. If, after notice by Alliant, Contractor fails to promptly replace or correct any defective article within the contractual delivery schedule, Alliant may:

- (i) Without further notice terminate the Contract in accordance with clause 1.13 TERMINATION FOR DEFAULT.
- (ii) Require a reduction in price that is equitable under the circumstances.

1.21 WARRANTY

- (a) Contractor warrants that all articles furnished under the Contract shall be free from defects in materials and workmanship. To the extent articles are not manufactured pursuant to detailed designs furnished by Alliant, the articles shall be free from defects in design and fit for their intended purpose. The foregoing warranties are in addition to all other warranties, either express or implied, and shall survive inspection, test, acceptance of, and payment for the articles. The warranty shall run to Alliant and its successors, assigns, and customers. Unless a different period is set forth elsewhere in the Contract, the warranty shall extend for a period of one (1) year after final acceptance by Alliant.
- (b) If the articles delivered under the Contract will be incorporated into an end item to be delivered to Alliant's customer, Contractor's obligation under the clause shall extend to one (1) year after delivery of the end item to Alliant's customer. All warranties shall extend to Alliant and its customers.
- (c) If any article delivered under the Contract does not meet the warranties or requirements specified herein, Alliant may, at its election:
 - (i) Require Contractor to correct, at no cost to Alliant, any defective or nonconforming article by repair or replacement;
 - (ii) Return the defective or nonconforming article to Contractor and recover from Contractor the contract price of the article, any transportation charges shall be the responsibility of Alliant/Government;
 - (iii) Submit a claim to Contractor for damages (including incidental, special consequential damages) caused by the defective or nonconforming article. The foregoing remedies are in addition to all other remedies at law or under the Contract and shall not be deemed to be exclusive.

1.22 INVOICES AND PAYMENT

- (a) Contractor shall normally submit a separate invoice for each delivery/completion of articles. When there are several items to be invoiced during a given month, Contractor shall limit the number of submitted invoices on the Contract to no more than four per month, with multiple items on a given invoice. Each Contractor invoice shall be for delivery/completion of articles on only one contract.
- (b) Contractor shall not submit any invoice for articles prior to the Contract schedule delivery date, or actual delivery date, whichever is later.

- (c) Each Contractor invoice shall contain as a minimum the Contract number, Contract line item for each article, article description (including serial numbers, if required), quantity delivered of each article, invoiced amount for each article, and the total amount of the submitted invoice. Unless otherwise stated in the Contract, invoiced amounts for each article must exactly match what is in the Contract.
- (d) Payment due date, including prompt payment discounts, shall be based on the date articles are received or services completed, or the date a correct invoice is received, whichever is later. Payment shall be deemed made when it is deposited in the mail.
- (e) Alliant shall be entitled at all times to set-off any amounts owed by Contractor to Alliant against any amount payable by Alliant to Contractor.

1.23 EXTRAS

Except as otherwise provided for in the Contract, no payment for extras shall be made unless such extras and the price therefore have been authorized in writing by Alliant. Should any unforeseen issues arise with and/or without notice, Contractor shall inform Alliant, in writing, of said issue and shall negotiate all and/or partial payment(s).

1.24 RECORDS

Unless a different period is set forth elsewhere in the Contract, Contractor shall retain all pertinent books, documents, papers, and records involving transactions related to the Contract for a period of four (4) years after final payment on the Contract. Upon written request by Alliant, Contractor shall make them available for examination by Alliant or any of its authorized representatives.

1.25 RELEASE OF INFORMATION

- (a) No release of information, or confirmation or denial of same, with respect to the Contract or other Alliant projects, obtained in the performance of the Contract, shall be made without the prior coordination and express written approval of Alliant. This includes but is not limited to advertisements, brochures, news releases (including photographs, films, public announcements, or denial or confirmation of the same, or interviews with news media representatives) and the like. The provision shall apply equally to subcontracts and Contractor shall include the substance of the provision in all of its subcontracts. The provision does not apply to information that is reportable to the U.S. Government pursuant to Public Laws or Regulations, unless said information/data is considered "public knowledge".
- (b) Contractor shall not, at any time during or subsequent to performance of the Contract, disclose to others the terms of the Contract or any other information, knowledge, or data, including business, technical, financial, or information that are of a proprietary or trade secret nature, that Contractor may receive from Alliant during the course of the Contract.

1.26 INSURANCE

- (a) If, in the performance of the Contract, Contractor or any of its subcontractors perform any work on premises owned, leased, occupied, or controlled by Alliant, Contractor shall procure and

maintain, and shall require its subcontractors to procure and maintain for the entire period of performance of the Contract, insurance of at least the kinds and minimum amounts set forth on the face of the Contract, or if not so stated, insurance in an amount not less than the price or amount of the Contract. Prior to commencement of any work, Contractor shall furnish to Alliant a "Certificate of Insurance" covering such insurance. Policies evidencing required insurance shall contain an endorsement to the effect that cancellation or any material change in the policies adversely affecting the interests of Alliant or its customers shall not become effective for such period as may be prescribed by the laws of the state in which the Contract calls for performance, and in no event less than thirty (30) days after written notice to Alliant.

- (b) Failure on the part of Contractor to furnish such certifications prior to the commencement of work or to continue to maintain such insurance during the performance of the Contract shall be cause for Contractor to be declared in default under the Contract.

1.27 CONTRACTOR EMPLOYEES

Contractor and Contractor's employees are not employees of Alliant and are not entitled to any Alliant employee benefits or privileges; however, all Contractor employees shall be subject to the applicable rules and regulations governing Alliant employees while on premises owned, leased, occupied or controlled by Alliant. Contractor shall require that each of its employee engaged in work on premises owned, leased, occupied, or under the control of Alliant display such identification as may be approved and directed by Alliant.

1.28 PARTS OBSOLESCENCE

Contractor shall notify Alliant of any pending or contemplated future action to discontinue articles purchased pursuant to the Contract and shall allow Alliant to submit a forecast of expected annual usage prior to Contractor finalizing its decision to discontinue the articles. Contractor shall provide Alliant with a "Last Time Buy Notice" at least twelve months prior to the actual discontinuance. Contractor shall extend opportunities to Alliant to place last time buys of such articles with deliveries not to exceed twelve months after the last time buy date.

1.29 ASSIGNMENT AND SUBCONTRACTING

- (a) Neither the Contract nor the rights, duties, or interests therein may be delegated, assigned, or otherwise transferred in any manner without the prior written consent of Alliant. None of the articles to be delivered under the Contract shall be acquired by Contractor from a subcontractor or third party in completed or substantially completed form without the prior written consent of Alliant. The limitation shall not apply to Contractor's purchase of standard commercial supplies or raw materials.
- (b) Contractor shall issue no subcontract under the Contract that provides for payment on a cost-plus-percentage-of-cost basis.

1.30 BANKRUPTCY

- (a) If Subcontractor enters into bankruptcy (for whatever reason), Contractor and Alliant shall agree to terminate original contract and renegotiate a new contract for outstanding unprocessed and/or non-demilitarized items.

- (b) In the event of the appointment of a trustee, receiver, or liquidator for all or a portion of Contractor's property, or for any act or petition in bankruptcy, whether voluntary or involuntary, as defined in the Bankruptcy Reform Act of 1978, Title 11, United States Code, as amended, Alliant may terminate the right of Contractor to proceed with the further performance of the Contract without further obligation, except that Alliant shall be obliged to pay for any article accepted prior to any of the foregoing occurrences at the prices specified in the Contract.
- (c) During the performance of the Contract, Contractor shall submit financial information at such times and in such content and form as Alliant may reasonably require.

1.31 EXPORT OF TECHNICAL DATA

- (a) Both Alliant and Contractor mutually agree that Alliant shall secure any and/or all permits, licenses and/or additional documents pertaining to International Traffic in Arms Regulation (ITAR) involved within this contract. Alliant shall be responsible for any and/or all requirements of the International Traffic in Arms Regulation, 22 CFR Section 120 et seq.; the Export Administration Act, 28 U.S.C., Section 1778 et seq.; and DOD Directive 5230.25, "Withholding of Unclassified Technical Data From Public Disclosure," 32 CFR Section 250, including the requirement for obtaining an export license, if applicable.
- (b) Contractor shall indemnify and hold Alliant harmless for all claims, demands, damages, costs, fines, penalties, attorney's fees, and all other expenses arising from Contractor's failure to comply with the clause and stated Statutes and Regulations.

1.32 RIGHTS AND REMEDIES

Any failures, delays, or forbearances of either party in insisting upon or enforcing any provisions of the Contract, or in exercising any rights or remedies under the Contract, shall not be construed as a waiver or relinquishment of any such provisions, rights, or remedies; rather, the same shall remain in full force and effect. The rights and remedies set forth in the Contract are cumulative and in addition to any other rights or remedies that the parties may have at law or in equity. If any provision of the contract becomes void or unenforceable by law, the remaining shall be valid and enforceable.

1.33 ADDITIONAL FLOWDOWN CLAUSES

In the event that any clause which is not already incorporated herein is required to be included in the Contract by law, regulation, the Prime Contract, or higher-tier Subcontract, or in the event that Alliant's Prime Contract or higher-tier Subcontract is modified subsequent to the effective date of the Contract so as to modify or add any additional such clause or requirement, Contractor agrees to enter into a modification of the Contract to insert the clause or any such clause or requirements. If any such additional clause or requirement causes an increase or decrease in the cost of, or the time required, for the performance of any part of the work under the Contract, an equitable adjustment shall be made in the Contract price or delivery schedule, or both, pursuant to clause 1.5 CHANGES.

1.34 APPLICABLE LAWS

Irrespective of the place of performance, the Contract shall be governed by and construed according to the laws of the State from which it is issued, except that when Federal common law of Government contracts exist on substantive matters requiring construction under the Contract, such Federal

common law shall apply in lieu of state law. Contractor shall comply with all applicable Federal, State, and Local laws in the performance of the Contract.

1.35 COMMERCIAL ITEMS AND COMMERCIAL COMPONENTS ON GOVERNMENT CONTRACTS

FAR 52.244-6 Subcontracts for Commercial Items and Commercial Components in its entirety is incorporated herein by reference and is applicable only for procurement of commercial items or commercial components on Government funded contracts.

1.36 ENTIRE AGREEMENT

The Contract contains the entire agreement of the parties, and supersedes any and all prior agreements, understandings, and communications between Alliant and Contractor related to the subject matter of the Contract.

1.37 ITAR CLAUSE

Alliant represents and warrants that it shall comply with all U.S. export and import laws and regulations. Further, by acceptance of this Order, Alliant certifies that they are registered in accordance with the U.S. Department of State as required by the International Traffic in Arms Regulations (22 C.F.R. Parts 120-130), if required. Any commodities, technical data and/or services provided by Alliant to the ISL in connection with this Order (hereinafter referred to as "Items Provided by Buyer"), as well as any commodities, technical data and/or services developed or produced therefrom by the Seller (hereinafter referred to as "Items Produced by Seller for Buyer under the terms of this Purchase Order"), are subject to the requirements of the International Traffic in Arms Regulations, 22 C.F.R. Part 120, et seq. ("ITAR"), the Export Administration Regulations, 15 C.F.R. Part 730, et seq. ("EAR"), and/or DOD Directive 5230.25, withholding of Unclassified Technical Data from Public Disclosure ("DOD Directive").

Alliant shall obtain the written consent of ISL prior to exporting, transferring or disclosing any Items Provided by the Buyer or Produced by the Seller outside the United States or to any foreign person, and also shall obtain the written consent of the ISL prior to submitting any application for a license or other authorization under ITAR and/or EAR. Alliant shall indemnify and hold ISL harmless for all claims, demands, damages, costs, fines, penalties, attorneys' fees, and all other expenses arising from the Seller's failure to comply with this clause, the stated statutes and regulations, as they may be amended.



SPREWERK

**M-117 BOMB DEMILITIARIZATION AND
TRITONAL RECOVERY PROGRAM**

INDUSTRIEPARK SPREWERK LUEBBEN (ISL)

**PREPARED FOR
ALLIANT AMMUNITION AND POWDER COMPANY
Radford Army Ammunition Plant
Radford, Virginia
USA**

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April 26, 2005

1

USE OR DISCLOSURE OF DATA IS SUBJECT TO RESTRICTIONS ON THE TITLE PAGE OF THIS DOCUMENT



April 26, 2005

Alliant Ammunition and Powder Company
Radford Army Ammunition Plant
P.O. Box 1, Route 114
Radford, VA 24143-0100
Attention: Mark C. Alderman, Buyer, CBM, A.P.P.

Subject: Proposal for M-117 Bomb Demilitarization and Tritonal Recovery Program

Reference: (a) Request for Bid (RFB) A684 6/9/04
(b) Our discussions during several meetings

Dear Mr. Alderman:

Industriepark Sprewerk Luebben (ISL) takes pleasure in submitting this proposal for Demilitarization of M-117 GP Bombs and Tritonal Removal, and in response to References (a) and (b) above. ISL desires to participate fully in the Demilitarization Program in accordance with the ATK Request for Bid forwarded to ISL on 6/9/04. ISL intends to be fully responsive to all requirements of the Work Scope in the RFB.

ISL proposes to perform the work over a 12-month period under a Firm Fixed Price (FFP) contract. The estimated cost for all tasks identified in this proposal is \$ 4,025,000 including ISL's subcontractor Explo Systems quote. ISL currently has a formal proposal from Explo Systems. As agreed in Christiansburg / VA ATK will do a down payment two weeks after contract is signed in an amount of \$ 1,000,000 (in words: one million US-Dollar).

ISL will accept the mandatory Government flow downs that shall apply to ISL. Based on reference (b) in this case discussions in Christiansburg / VA, ISL looks forward to possibly an additional four one year period contracts.

Unless otherwise modified or withdrawn in writing, this offer will remain valid for 90 days from the date of this letter. This offer is subject to the negotiation of mutually acceptable terms and conditions. Any new special flow down requirements will be addressed when

available. Please provide an official ATK Statement of Work (SOW) and Master Schedule for ISL review.

We look forward to working with ATK on this important U.S. Army contract. If you have any questions, please contact Mr. Gert von Wickede, Managing Director of ISL, at 011 +49 3546 28 200, (fax) 011 +49 3546 28 470, or (e-mail) gwickede@spreewerk.com, and Mr. Rudolf Meinhardt, Managing Director of SAS, at 011 +49 34223 6017 110, (fax) 011 +49 34223 6017 100, or (e-mail) rmeinhardt@sas-ammo.com

Sincerely,
ISL GmbH

Dr. Gert von Wickede
Managing Director



SPREWERK

**M-117 BOMB DEMILITIARIZATION AND
TRITONAL RECOVERY PROGRAM
INDUSTRIEPARK SPREWERK LUEBBEN
(ISL)**

SUBCONTRACT PROPOSAL

**PREPARED FOR:
ALLIANT AMMUNITION AND POWDER COMPANY**

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1. INTRODUCTION

Industriepark Spreewerk Luebben (ISL), hereby known as Contractor, takes pleasure in submitting this bid as a result of an Request for Bid issued by ATK, hereby known at "Customer", for the Demilitarization of M-117 GP bombs and Tritonal Recovery program, dated 9 June, 2004

ISL intends to be fully responsive to the Scope of work to be provided by ATK, however ISL is awaiting a formal Statement of Work as well as a Master Schedule.

2. SCOPE OF WORK

The Draft Statement of Work is included in Attachment A. Attachment A is at end of proposal.

3. OFFER

ISL proposes to perform the work over a twelve (12) month period under a Firm fixed Price contract. The Cost of proposed effort shall be a total of \$ 4,025,000 (in words: fourmilliontwentyfivethousand US-Dollars). Price is based on the understanding of \$0.70 per lb removed explosive of M117 bombs, based on a total agreed quantity of 5,750,000 lb removed explosive. The price is also based on a down payment of \$ 1,000,000 (in words: one million US-Dollars) payable within two weeks after contract is signed from ATK to ISL (\$ 0.174 per lb removed explosive of M117 bombs, based on a total agreed quantity of 5,750,000 lb removed explosive.). This down payment reduce the price from \$ 0.70 per lb removed explosive of M117 bombs to \$ 0.526 per lb removed explosive of M117 bombs, based on a total agreed quantity of 5,750,000 lb removed explosive during the first year work period.

Unless previously withdrawn or modified in writing, this proposal will remain valid for 90 days from the date of submittal. This offer is subject to the negotiation of mutually acceptable terms and conditions. Any new special flow down requirements will be addressed when available.

ISL is using Explo Systems, LLC as a subcontractor. ISL will supply Explo Systems with the technology and the design for the bomb demilitarization and explosive removal line. Said technology is considered proprietary information and is not for public knowledge nor shall be shared with any other party. Explo Systems shall provide sufficient space within Explo System facility/company area for the installation of the said bomb demil line. Explo

System will be responsible for the disassembly and demilitarization of M-117 bombs. Explo Systems will further be responsible for the removal and recovery of Tritonal from said bombs. Recovered Tritonal will then be reprocessed with the intent to recover the TNT for client (this part is not included in this contract). Recovering of removed Tritonal is not part of this offer. Also it is not part of this offer to use the delivered equipment and/or know how by ATK and/or other parties.

4 CONTRACTUAL INFORMATION

4.1 TERMS AND CONDITIONS

ISL shall accept any mandatory U.S. Government Flow Downs that will apply to ISL. Unless previously withdrawn or modified in writing, this proposal will remain valid for 90 days from the date of submittal. This offer is subject to negotiation of mutually acceptable terms and conditions. Any new special flow down requirements will be addressed when available.

4.2 REMITTANCE ADDRESS

Industriepark Spreewerk Luebben (ISL)
Boernichen 99
D-15907 Luebben
Germany

For payments to ISL by wire - Bank of

Commerzbank AG Germany BLZ: 850 400 00 Account-Nº: 800 306 300,
Swift Code: COBADEFFXXX
IBAN: DE 31850400000800306300

PROPOSAL APPENDIX A – 1

SCHEDULE: *TBD*

ATTACHMENT A



**ATK Statement of Work
For
Industriepark Sprewerk Luebben (ISL)**

**For the
M117 Bomb Demilitarization /
Tritonal Recovery Program**

DRAFT

April 26, 2005

Prepared by

Industriepark Sprewerk Luebben (ISL)

The information contained in this document is the property of Industriepark Sprewerk Luebben (ISL) and is submitted in confidence to the contractor. The submission of the information contained herein shall not be deemed to constitute public disclosure or authorization for disclosure to other parties.

***The following is a draft version of the SOW to be reviewed by Customer (ATK).
Current proposal is based on the following SOW.***

1.0 INTRODUCTION

1.1. Scope

This is a Statement of Work (SOW) for the demilitarization of M117 GP Bombs and Tritonal/TNT recovery program as furnished by U.S. Government. ATK shall contract with Industriepark Spreewerk Luebben (ISL) to perform the demilitarization part said work. In addition to the Program Manager and Program Engineer that Industriepark Spreewerk Luebben (ISL) will supply, ISL shall subcontract the majority of the demilitarization work in the scope of this contract with Explo Systems, LLC based in Minden, Louisiana. Duration of the contract is estimated at approximately one (1) year, with discussed options of four (4) additional one (1) year contracts (See Attachment A-1 for master schedule –TBD). At the end of performance, ATK shall in good faith negotiate with contractor (ISL) for any additional/future contract extensions. ATK shall offer ISL “first right of refusal” when offering and/or negotiating any and/or all additional contracts to demilitarize said bombs.

Contractor shall provide technical know how in the form of technology and /or information in order to develop machinery to demilitarize GP bombs associated with this contract. Contractor shall also supervise the construction of machinery and technology at subcontractors facility located in Minden, LA. Contractor shall also ensure the proper testing of machinery and/or ensure that everything is proper operational status.

Purpose of contract is for the recovery of 5,750,000 lbs of Tritonal (removed from GP M117 bombs). Based on a prior agreement during our discussion in Christiansburg/VA of 360 lbs per bomb, total number of bombs shall be approximately 15,973 bombs. This number depends on the quantity of removed Tritonal and is only for information. The Customer (ATK) is responsible that the needed number of bombs will deliver. Customer (ATK) shall retain the right to offer additional bombs to contractor (ISL) should the need and/or requirement change. However, at no time shall the number of removed Tritonal lower than the agreed 5,750,000 lbs.

It is accepted and agreed that the U.S. Government shall be responsible for any and/or all transportation and/or forwarding of any and/or all material (bombs) to the Explo Systems, facility located in Minden, LA. It is hereby stated that ISL shall retain the services of Explo Systems for the performance of this contract. Contractor (ISL) shall hereby provide the proprietary information and technology for the demilitarization of the items (bombs) to Explo Systems. Explo Systems shall hereby use said information and technology to perform any and/or all services under the obligation of this contract. It is hereby understood that and and/or all “propriety data” shall be returned to ISL at the commencement of this U.S. Government contract.

Explo Systems, LLC., hereby known as Subcontractor, shall hereby be responsible for the following:

- Use the technology and information to perform any and/or all work associated in the demilitarization of GP M117 bombs (SOW)
 - Including, but not limited to:
 - Cutting the bombs
 - Breaking bombs
 - Removal of Tritonal
 - Recovering and/or processing any and/or all scrap material associate to, with or from this contract.
 - Reprocessing of Tritonal (not part of this offer)
 - Explo Systems shall also be responsible for any and/or all permits, licenses and/or paperwork associated with this contract.
 - Recovered Tritonal will then be reprocessed with the intent to recover the TNT for client (this part is not included in this offer).

1.2. Background

ATK received a contract ("order") to demilitarize GP M117 bombs filled with Tritonal. This contract is part of a program for the recovery of Tritonal and TNT. ATK subsequently retained the services of Industriepark Spreewerk Luebben (ISL) to perform services that will assist ATK in their efforts to reclaim Tritonal. ISL shall subcontract the majority of work in the scope of this contract to Explo Systems, LLC based in Minden, Louisiana. Explo Systems, LLC has a prearranged agreement with ATK to recover the explosive filling of said bombs (Tritonal) for the recovery of TNT. For purposes of this contract, Explo Systems responsibilities are assumed by ISL.

It is hereby agreed that the basis for this agreement is that all three (3) companies form a team to ensure the recovery of the Tritonal and/or TNT for the purpose of providing Government with an ample supply of TNT. Customer (ATK) shall offer the U.S. Government TNT derived from the recovered Tritonal.

Structure is that ATK shall offer a contract for the period of one (1) year to ISL with the understanding that ATK can and will offer ISL a possible three (3) to four (4) extensions contracts, each for a one (1) year period. Said additional contracts shall only be offered if, and only if there are no defaults, violations and or any other "at fault" situation(s) resulting from the first/original contract. ATK shall offer a separate contract to Explo Systems for the recovery of TNT.

2.0 APPLICABLE DOCUMENTS

The following documents are applicable to extent specified in this SOW. The most current version of each document, as of the date of this SOW, shall be used.

- ISL shall provide Subcontractor any and/or all specifications, technology and/or other/additional material, for the design and subsequent construction of proprietary machinery for the destruction of said bombs.
- ISL shall also provide any and/or all specifications, including any drawing(s) (in any format) or other material for the safe and secure destruction of said bombs.
- ISL shall provide customer (ATK) either certificate of destruction (COD) or other paperwork stating the destruction of said bombs. Said certificate/paperwork shall indicate the destruction of said bombs.
- ISL shall provide customer monthly progress reports of performance and/or production schedule.
- ISL shall provide customer with invoices for payment(s) for services in a two weeks time rendered. Customer shall pay any and/or all invoices net thirty (30) days.

3.0 TASKS

3.1 Core

Contractor (ISL) shall provide a Program Manager for this effort, as well as an Assistant Program Manager, responsible for all aspects of the program. This individual will be the point of contact for program planning, schedule / cost information and action item status tracking / completion.

Contractor (ISL) shall assign a technically cognizant Project Engineer accountable for the electrical, mechanical, and software integration requirements and validation/compliance with interface controls.

3.2 Engineering Development / System Capabilities

Contractor shall design, develop and test specific development and construction of Proprietary Bomb Demilitarization Line (BDL). Development and construction of said Bomb Demilitarization Line shall include, but are not limited to the following:

3.2.1 Lathing equipment

Contractor shall design and/or develop lathing equipment designed to cut the bomb body and prepare bomb body for breaking. Lathe equipment shall be designed and operated solely to cut the bomb body for the next stage in the demil performance.

3.2.2 Hydraulic Press - A

Contractor shall design, redesign and/or modify and/or develop a hydraulic press for the purpose of physically breaking the bomb body. Said press shall be no less than a three (3) ton hydraulic press and no greater than a six (6) ton hydraulic press. Said hydraulic press shall only be used and/or operated solely to physically break the bomb body in order to expose the explosive filling (Tritonal)

3.2.3 Hydraulic Press - B

Contractor shall design, redesign and/or modify and/or develop a hydraulic press for the purpose of physically pressing the explosive from certain sections of bomb body. Said press shall be a three (3) ton hydraulic press. Press will also be fitted with special equipment in order to ensure proper performance according to Proprietary designs. Said hydraulic press shall only be used and/or operated solely to physically press explosive from bomb body section.

3.2.4 Steam "autoclave"

Contractor shall design, redesign and/or modify and/or develop steaming unit designed to remove the explosive from certain bomb body sections. The proprietary equipment is designed to heat the bomb body section to the point where it becomes hot enough that the explosive shall remove itself from the bomb body section and fall into a pre-designed container for the collection of explosive. Said equipment shall include any and/or all necessary equipment necessary to perform said action in a safe and secure manner.

3.3 Engineering / Technical Support Services

3.3.1 Design, redesign develop and/or modify Bomb Demilitarization Line (BDL).

Contractor shall perform any and/or all said work at Contractors facility located in Luebben, Germany. However, Contractor reserves the right to add, change and/or modify any specifications on-site at subcontractor facility located in Minden, LA. Contractor reserves the right to do any additions, changes and/or modifications either before, during and/or after award of contract.

3.3.2 Construction of material and equipment

Contractor shall perform any and/or all construction of said equipment at Subcontractors facility located in Minden, LA. If needed, Contractor reserves the right to either assist and/or retain companies to perform any and/or services associated with the preparation and/or construction of said equipment.

3.3.3 Testing

Contractor shall perform any and/or all tests associated with the construction and/or start up of any and/or all equipment, material and/or services at Subcontractors facility in Minden, LA. Contractor reserves the right to perform any and/or all portions and/or segments of any test associated with the successful completion of Bomb Demilitarization Line (BDL) at any other location (other than Subcontractors facility).

3.3.4 Support

Contractor shall offer and/or provide support, from start to finish, for the Bomb Demilitarization Line (BDL). Such assistance/supports shall be in form of verbal, fax, e-mail (printed and/or electronic formats) and/or direct physical assistance/support (in person). Said assistance/support shall be available at any time from Contractors facility in Luebben, Germany.

3.4 Quality Assurance Provisions

3.4.1 Quality System

The Seller's Quality System shall comply with the Quality Clauses specified in the terms and conditions of the contract. The Quality and/or Inspection and manufacturing/construction processes are subject to review, verification and analysis by Contractor representatives. These on site reviews at Explo Systems facility may occur during design, development and/or construction or final assemblies of Bomb Demilitarization Line (BDL).

3.4.2 Corrective Action

In response to Customer-initiated corrective action requests, Contractor shall advise Customer of root cause determination, corrective action taken to prevent recurrence of reported problems and/or discrepancies, and effectively dates of the planned corrective action(s). Contractor shall maintain a corrective action system that determines the effectiveness of such corrective actions, and shall comply with all "Terms and Conditions" provided in the contract.

3.4.3 ISL's Customer Inspection

Contractor hereby advises Customer that during the performance of this order, the Contractor quality system and manufacturing/construction processes may be subject to review, verification and /or analysis by authorized ATK("Customer") representative(s).

3.4.4 Packaging, Handling and Transportation

The Customer (ATK) shall establish practices for packing, handling and transporting the Item adequate to maintain damage free delivery of bombs.

4.0 DELIVERABLES

The following is the current list of deliverables.

Items	Title	Frequency
1	Status report of current performance	15 th and 30 th of every month /"mid and end of month"
2	Design and delivery of design(s), technology.	TBD
3	Delivery of equipment	TBD
4	Construction of Bomb Demilitarization Line (BDL)	TBD
5	Testing of BDL	TBD
6	Receipt of bombs for demil	Per Customer (ATK) details
7	Commencement of Production	TBD
8	Final report of production	End of contract

**** The Deliverable schedule will be mutually agreed to by both ATK and ISL.**

4.1 CUSTOMER FURNISHED EQUIPMENT AND INFORMATION

The subcontractor shall define any Customer Furnished Equipment (CFE) and/or Customer Furnished Information (CFI) requirements.



SPREWERK

**M-117 BOMB DEMILITARIZATION AND
TRITONAL RECOVERY PROGRAM**

INDUSTRIEPARK SPREWERK LUEBBEN (ISL)

**PREPARED FOR
ALLIANT AMMUNITION AND POWDER COMPANY
Radford Army Ammunition Plant
Radford, Virginia
USA**

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April 26, 2005

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April 26, 2005

Alliant Ammunition and Powder Company
Radford Army Ammunition Plant
P.O. Box 1, Route 114
Radford, VA 24143-0100
Attention: Mark C. Alderman, Buyer, CBM, A.P.P.

Subject: Proposal for M-117 Bomb Demilitarization and Tritonal Recovery Program

Reference: (a) Request for Bid (RFB) A684 6/9/04
(b) Our discussions during several meetings

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We look forward to working with ATK on this important U.S. Army contract. If you have any questions, please contact Mr. Gert von Wickede, Managing Director of ISL, at 011 +49 3546 28 200, (fax) 011 +49 3546 28 470, or (e-mail) gwickede@spreewerk.com, and Mr. Rudolf Meinhardt, Managing Director of SAS, at 011 +49 34223 6017 110, (fax) 011 +49 34223 6017 100, or (e-mail) rmeinhardt@sas-ammo.com

Sincerely,
ISL GmbH

Dr. Gert von Wickede
Managing Director



SPREWERK

**M-117 BOMB DEMILITIARIZATION AND
TRITONAL RECOVERY PROGRAM
INDUSTRIEPARK SPREWERK LUEBBEN
(ISL)**

SUBCONTRACT PROPOSAL

**PREPARED FOR:
ALLIANT AMMUNITION AND POWDER COMPANY**

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ISL intends to be fully responsive to the Scope of work to be provided by ATK, however ISL is awaiting a formal Statement of Work as well as a Master Schedule.

2. SCOPE OF WORK

The Draft Statement of Work is included in Attachment A. Attachment A is at end of proposal.

3. OFFER

ISL proposes to perform the work over a twelve (12) month period under a Firm fixed Price contract. The Cost of proposed effort shall be a total of \$ 4,025,000 (in words: fourmilliontwentyfivethousand US-Dollars). Price is based on the understanding of \$0.70 per lb removed explosive of M117 bombs, based on a total agreed quantity of 5,750,000 lb removed explosive. The price is also based on a down payment of \$ 1,000,000 (in words: one million US-Dollars) payable within two weeks after contract is signed from ATK to ISL (\$ 0.174 per lb removed explosive of M117 bombs, based on a total agreed quantity of 5,750,000 lb removed explosive.). This down payment reduce the price from \$ 0.70 per lb removed explosive of M117 bombs to \$ 0.526 per lb removed explosive of M117 bombs, based on a total agreed quantity of 5,750,000 lb removed explosive during the first year work period.

Unless previously withdrawn or modified in writing, this proposal will remain valid for 90 days from the date of submittal. This offer is subject to the negotiation of mutually acceptable terms and conditions. Any new special flow down requirements will be addressed when available.

ISL is using Explo Systems, LLC as a subcontractor. ISL will supply Explo Systems with the technology and the design for the bomb demilitarization and explosive removal line. Said technology is considered proprietary information and is not for public knowledge nor shall be shared with any other party. Explo Systems shall provide sufficient space within Explo System facility/company area for the installation of the said bomb demil line. Explo

System will be responsible for the disassembly and demilitarization of M-117 bombs. Explo Systems will further be responsible for the removal and recovery of Tritonal from said bombs. Recovered Tritonal will then be reprocessed with the intent to recover the TNT for client (this part is not included in this contract). Recovering of removed Tritonal is not part of this offer. Also it is not part of this offer to use the delivered equipment and/or know how by ATK and/or other parties.

4 CONTRACTUAL INFORMATION

4.1 TERMS AND CONDITIONS

ISL shall accept any mandatory U.S. Government Flow Downs that will apply to ISL. Unless previously withdrawn or modified in writing, this proposal will remain valid for 90 days from the date of submittal. This offer is subject to negotiation of mutually acceptable terms and conditions. Any new special flow down requirements will be addressed when available.

4.2 REMITTANCE ADDRESS

Industriepark Spreewerk Luebben (ISL)
Boernichen 99
D-15907 Luebben
Germany

For payments to ISL by wire - Bank of

Commerzbank AG Germany BLZ: 850 400 00 Account-N°: 800 306 300,
Swift Code: COBADEFFXXX
IBAN: DE 31850400000800306300

PROPOSAL APPENDIX A – 1

SCHEDULE: *TBD*

ATTACHMENT A



SPREWERK

**ATK Statement of Work
For
Industriepark Spreewerk Luebben (ISL)**

**For the
M117 Bomb Demilitarization /
Tritonal Recovery Program**

DRAFT

April 26, 2005

Prepared by

Industriepark Spreewerk Luebben (ISL)

The information contained in this document is the property of Industriepark Spreewerk Luebben (ISL) and is submitted in confidence to the contractor. The submission of the information contained herein shall not be deemed to constitute public disclosure or authorization for disclosure to other parties.

***The following is a draft version of the SOW to be reviewed by Customer (ATK).
Current proposal is based on the following SOW.***

1.0 INTRODUCTION

1.1. Scope

This is a Statement of Work (SOW) for the demilitarization of M117 GP Bombs and Tritonal/TNT recovery program as furnished by U.S. Government. ATK shall contract with Industriepark Spreewerk Luebben (ISL) to perform the demilitarization part said work. In addition to the Program Manager and Program Engineer that Industriepark Spreewerk Luebben (ISL) will supply, ISL shall subcontract the majority of the demilitarization work in the scope of this contract with Explo Systems, LLC based in Minden, Louisiana. Duration of the contract is estimated at approximately one (1) year, with discussed options of four (4) additional one (1) year contracts (See Attachment A-1 for master schedule -TBD). At the end of performance, ATK shall in good faith negotiate with contractor (ISL) for any additional/future contract extensions. ATK shall offer ISL "first right of refusal" when offering and/or negotiating any and/or all additional contracts to demilitarize said bombs.

Contractor shall provide technical know how in the form of technology and /or information in order to develop machinery to demilitarize GP bombs associated with this contract. Contractor shall also supervise the construction of machinery and technology at subcontractors facility located in Minden, LA. Contractor shall also ensure the proper testing of machinery and/or ensure that everything is proper operational status.

Purpose of contract is for the recovery of 5,750,000 lbs of Tritonal (removed from GP M117 bombs). Based on a prior agreement during our discussion in Christiansburg/VA of 360 lbs per bomb, total number of bombs shall be approximately 15,973 bombs. This number depends on the quantity of removed Tritonal and is only for information. The Customer (ATK) is responsible that the needed number of bombs will deliver. Customer (ATK) shall retain the right to offer additional bombs to contractor (ISL) should the need and/or requirement change. However, at no time shall the number of removed Tritonal lower than the agreed 5,750,000 lbs.

It is accepted and agreed that the U.S. Government shall be responsible for any and/or all transportation and/or forwarding of any and/or all material (bombs) to the Explo Systems, facility located in Minden, LA. It is hereby stated that ISL shall retain the services of Explo Systems for the performance of this contract. Contractor (ISL) shall hereby provide the proprietary information and technology for the demilitarization of the items (bombs) to Explo Systems. Explo Systems shall hereby use said information and technology to perform any and/or all services under the obligation of this contract. It is hereby understood that and and/or all "propriety data" shall be returned to ISL at the commencement of this U.S. Government contract.

Explo Systems, LLC., hereby known as Subcontractor, shall hereby be responsible for the following:

- Use the technology and information to perform any and/or all work associated in the demilitarization of GP M117 bombs (SOW)
 - Including, but not limited to:
 - Cutting the bombs
 - Breaking bombs
 - Removal of Tritonal
 - Recovering and/or processing any and/or all scrap material associate to, with or from this contract.
 - Reprocessing of Tritonal (not part of this offer)
 - Explo Systems shall also be responsible for any and/or all permits, licenses and/or paperwork associated with this contract.
 - Recovered Tritonal will then be reprocessed with the intent to recover the TNT for client (this part is not included in this offer).

1.2. Background

ATK received a contract ("order") to demilitarize GP M117 bombs filled with Tritonal. This contract is part of a program for the recovery of Tritonal and TNT. ATK subsequently retained the services of Industriepark Spreewerk Luebben (ISL) to perform services that will assist ATK in their efforts to reclaim Tritonal. ISL shall subcontract the majority of work in the scope of this contract to Explo Systems, LLC based in Minden, Louisiana. Explo Systems, LLC has a prearranged agreement with ATK to recover the explosive filling of said bombs (Tritonal) for the recovery of TNT. For purposes of this contract, Explo Systems responsibilities are assumed by ISL.

It is hereby agreed that the basis for this agreement is that all three (3) companies form a team to ensure the recovery of the Tritonal and/or TNT for the purpose of providing Government with an ample supply of TNT. Customer (ATK) shall offer the U.S. Government TNT derived from the recovered Tritonal.

Structure is that ATK shall offer a contract for the period of one (1) year to ISL with the understanding that ATK can and will offer ISL a possible three (3) to four (4) extensions contracts, each for a one (1) year period. Said additional contracts shall only be offered if, and only if there are no defaults, violations and or any other "at fault" situation(s) resulting from the first/original contract. ATK shall offer a separate contract to Explo Systems for the recovery of TNT.

2.0 APPLICABLE DOCUMENTS

The following documents are applicable to extent specified in this SOW. The most current version of each document, as of the date of this SOW, shall be used.

- ISL shall provide Subcontractor any and/or all specifications, technology and/or other/additional material, for the design and subsequent construction of proprietary machinery for the destruction of said bombs.
- ISL shall also provide any and/or all specifications, including any drawing(s) (in any format) or other material for the safe and secure destruction of said bombs.
- ISL shall provide customer (ATK) either certificate of destruction (COD) or other paperwork stating the destruction of said bombs. Said certificate/paperwork shall indicate the destruction of said bombs.
- ISL shall provide customer monthly progress reports of performance and/or production schedule.
- ISL shall provide customer with invoices for payment(s) for services in a two weeks time rendered. Customer shall pay any and/or all invoices net thirty (30) days.

3.0 TASKS

3.1 Core

Contractor (ISL) shall provide a Program Manager for this effort, as well as an Assistant Program Manager, responsible for all aspects of the program. This individual will be the point of contact for program planning, schedule / cost information and action item status tracking / completion.

Contractor (ISL) shall assign a technically cognizant Project Engineer accountable for the electrical, mechanical, and software integration requirements and validation/compliance with interface controls.

3.2 Engineering Development / System Capabilities

Contractor shall design, develop and test specific development and construction of Proprietary Bomb Demilitarization Line (BDL). Development and construction of said Bomb Demilitarization Line shall include, but are not limited to the following:

3.2.1 Lathing equipment

Contractor shall design and/or develop lathing equipment designed to cut the bomb body and prepare bomb body for breaking. Lathe equipment shall be designed and operated solely to cut the bomb body for the next stage in the demil performance.

3.2.2 Hydraulic Press - A

Contractor shall design, redesign and/or modify and/or develop a hydraulic press for the purpose of physically breaking the bomb body. Said press shall be no less than a three (3) ton hydraulic press and no greater than a six (6) ton hydraulic press. Said hydraulic press shall only be used and/or operated solely to physically break the bomb body in order to expose the explosive filling (Tritonal)

3.2.3 Hydraulic Press - B

Contractor shall design, redesign and/or modify and/or develop a hydraulic press for the purpose of physically pressing the explosive from certain sections of bomb body. Said press shall be a three (3) ton hydraulic press. Press will also be fitted with special equipment in order to ensure proper performance according to Proprietary designs. Said hydraulic press shall only be used and/or operated solely to physically press explosive from bomb body section.

3.2.4 Steam "autoclave"

Contractor shall design, redesign and/or modify and/or develop steaming unit designed to remove the explosive from certain bomb body sections. The proprietary equipment is designed to heat the bomb body section to the point where it becomes hot enough that the explosive shall remove itself from the bomb body section and fall into a pre-designed container for the collection of explosive. Said equipment shall include any and/or all necessary equipment necessary to perform said action in a safe and secure manner.

3.3 Engineering / Technical Support Services

3.3.1 Design, redesign develop and/or modify Bomb Demilitarization Line (BDL).

Contractor shall perform any and/or all said work at Contractors facility located in Luebben, Germany. However, Contractor reserves the right to add, change and/or modify any specifications on-site at subcontractor facility located in Minden, LA. Contractor reserves the right to do any additions, changes and/or modifications either before, during and/or after award of contract.

3.3.2 Construction of material and equipment

Contractor shall perform any and/or all construction of said equipment at Subcontractors facility located in Minden, LA. If needed, Contractor reserves the right to either assist and/or retain companies to perform any and/or services associated with the preparation and/or construction of said equipment.

3.3.3 Testing

Contractor shall perform any and/or all tests associated with the construction and/or start up of any and/or all equipment, material and/or services at Subcontractors facility in Minden, LA. Contractor reserves the right to perform any and/or all portions and/or segments of any test associated with the successful completion of Bomb Demilitarization Line (BDL) at any other location (other than Subcontractors facility).

3.3.4 Support

Contractor shall offer and/or provide support, from start to finish, for the Bomb Demilitarization Line (BDL). Such assistance/supports shall be in form of verbal, fax, e-mail (printed and/or electronic formats) and/or direct physical assistance/support (in person). Said assistance/support shall be available at any time from Contractors facility in Luebben, Germany.

3.4 Quality Assurance Provisions

3.4.1 Quality System

The Seller's Quality System shall comply with the Quality Clauses specified in the terms and conditions of the contract. The Quality and/or Inspection and manufacturing/construction processes are subject to review, verification and analysis by Contractor representatives. These on site reviews at Explo Systems facility may occur during design, development and/or construction or final assemblies of Bomb Demilitarization Line (BDL).

3.4.2 Corrective Action

In response to Customer-initiated corrective action requests, Contractor shall advise Customer of root cause determination, corrective action taken to prevent recurrence of reported problems and/or discrepancies, and effectively dates of the planned corrective action(s). Contractor shall maintain a corrective action system that determines the effectiveness of such corrective actions, and shall comply with all "Terms and Conditions" provided in the contract.

3.4.3 ISL's Customer Inspection

Contractor hereby advises Customer that during the performance of this order, the Contractor quality system and manufacturing/construction processes may be subject to review, verification and /or analysis by authorized ATK("Customer") representative(s).

3.4.4 Packaging, Handling and Transportation

The Customer (ATK) shall establish practices for packing, handling and transporting the Item adequate to maintain damage free delivery of bombs.

4.0 DELIVERABLES

The following is the current list of deliverables.

Items	Title	Frequency
1	Status report of current performance	15 th and 30 th of every month /"mid and end of month"
2	Design and delivery of design(s), technology.	TBD
3	Delivery of equipment	TBD
4	Construction of Bomb Demilitarization Line (BDL)	TBD
5	Testing of BDL	TBD
6	Receipt of bombs for demil	Per Customer (ATK) details
7	Commencement of Production	TBD
8	Final report of production	End of contract

**** The Deliverable schedule will be mutually agreed to by both ATK and ISL.**

4.1 CUSTOMER FURNISHED EQUIPMENT AND INFORMATION

The subcontractor shall define any Customer Furnished Equipment (CFE) and/or Customer Furnished Information (CFI) requirements.



SPREWERK

**M-117 BOMB DEMILITARIZATION AND
TRITONAL RECOVERY PROGRAM**

INDUSTRIEPARK SPREWERK LUEBBEN (ISL)

**PREPARED FOR
ALLIANT AMMUNITION AND POWDER COMPANY
Radford Army Ammunition Plant
Radford, Virginia
USA**

The data contained in all pages of this proposal shall not be disclosed outside ATK, the U.S. Government and shall not be duplicated, used, or disclosed in whole, or in part for any purpose other than to evaluate the proposal: provided, that if a contract is awarded to this offeror as a result of or in connection with the submission of this data, ATK, or the U.S. Government shall have the right to duplicate, use, or disclose the data to the extent provided in the contract. This restriction does not limit ATK's, or the U.S. Governments right to use information contained in the data if it is obtainable from another source without restriction

June 26, 2005

1

USE OR DISCLOSURE OF DATA IS SUBJECT TO RESTRICTIONS ON THE TITLE PAGE OF THIS DOCUMENT



June 26, 2005

Alliant Ammunition and Powder Company
Radford Army Ammunition Plant
P.O. Box 1, Route 114
Radford, VA 24143-0100
Attention: Mark C. Alderman, Buyer, CBM, A.P.P.

Subject: Proposal for M-117 Bomb Demilitarization and Tritonal Recovery Program

Reference: (a) Request for Bid (RFB) A684 6/9/04
(b) Our discussions during several meetings

Dear Mr. Alderman:

Industriepark Sprewerk Luebben (ISL) takes pleasure in submitting this proposal for Demilitarization of M-117 GP Bombs and Tritonal Removal, and in response to References (a) and (b) above. ISL desires to participate fully in the Demilitarization Program in accordance with the ATK Request for Bid forwarded to ISL on 6/9/04. ISL intends to be fully responsive to all requirements in the Work Scope in the RFB.

ISL proposes to perform the work over a 12-month period under a Firm Fixed Price (FFP) contract. The estimated cost for all tasks identified in this proposal is Two million, nine hundred forty-four thousand and sixty dollars (\$2,944,060) including ISL's subcontractor Explo Systems quote. ISL currently has a formal proposal from Explo Systems. As agreed in Christiansburg / VA, ATK will execute a down payment two weeks after contract is signed in an amount of \$ 1,000,000 (one million US-Dollars).

ISL will accept the mandatory Government flow downs that applies specifically to ISL. Based on reference (b) in the discussion in Christiansburg / VA, ISL looks forward to possibly an additional four one-year period contracts.

Unless otherwise modified or withdrawn in writing, this offer will remain valid for thirty (30) days from the date of this letter. This offer is subject to the negotiation of mutually

acceptable terms and conditions. Any new or additional special flow down requirements will be addressed when available. Please provide an official ATK Statement of Work (SOW) and Master Schedule for ISL review.

We look forward to working with ATK on this important U.S. Army contract. If you have any questions, please contact Mr. Gert von Wickede, Managing Director of ISL, at 011 +49 3546 28 200, (fax) 011 +49 3546 28 470, or (e-mail) gwickede@spreewerk.com.

Sincerely,
ISL GmbH

Dr. Gert von Wickede
Managing Director



M-117 BOMB DEMILITIARIZATION AND TRITONAL RECOVERY PROGRAM INDUSTRIEPARK SPREEWERK LUEBBEN (ISL)

SUBCONTRACT PROPOSAL

**PREPARED FOR:
ALLIANT AMMUNITION AND POWDER COMPANY**

The data contained in all pages of this proposal shall not be disclosed outside ATK, or the Government and shall not be duplicated, used, or disclosed in whole or in part for any purpose other than to evaluate the proposal; provided, that if a contract is awarded to this offeror as a result of or in connection with the submission of this data, ATK, ISL, or the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the contract. This restriction does not limit ATK's, ISL's, or the Government's right to use information contained in the data if it is obtainable from another source without restriction.

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1. INTRODUCTION

Industriepark Spreewerk Luebben (ISL), hereby known as Contractor, takes pleasure in submitting this bid as a result of an Request for Bid issued by ATK, hereby known at "Customer", for the Demilitarization of M-117 GP bombs and Tritonal Recovery program, dated 9 June, 2004

ISL intends to be fully responsive to the Scope of work to be provided by ATK, however ISL is awaiting a formal Statement of Work as well as a Master Schedule.

2. SCOPE OF WORK

The Draft Statement of Work is included in Attachment A. Attachment A is at end of proposal.

3. OFFER

ISL proposes to perform the work over a twelve (12) month period under a Firm fixed Price contract. The Cost of proposed effort shall be a total of \$2,944,060 ((two million nine hundred forty-four thousand sixty dollars) US-Dollars). Price is based on the understanding of \$0.70 per lb removed explosive of M117 bombs, based on a total agreed quantity of 4,205,800 lbs removed explosive. The price is also based on a down payment of \$1,000,000 (one million US-Dollars) payable within two weeks after contract is signed from ATK to ISL (\$0.238 per lb removed explosive of M117 bombs, based on a total agreed quantity of 4,205,800 lbs removed explosive.). This down payment shall reduce the amount to pay for each pound from \$0.70 per lb removed explosive of M117 bombs to \$0.462 per lb removed explosive of M117 bombs, based on a total agreed quantity of 4,205,800 lbs removed explosive during the first year work period.

Unless previously withdrawn or modified in writing, this proposal will remain valid for thirty (30) days from the date of submittal. This offer is subject to the negotiation of mutually acceptable terms and conditions. Any new special flow down requirements will be addressed when available.

ISL is using Explo Systems, LLC as a subcontractor. ISL will supply Explo Systems with the technology and the design for the bomb demilitarization and explosive removal line. Said technology is considered proprietary information and is not for public knowledge nor shall be shared with any other party. Explo Systems shall provide sufficient space within Explo System facility/company area for the installation of the said bomb demil line. Explo System will be responsible for the disassembly and demilitarization of M-117 bombs. Explo Systems will further be responsible for the removal and recovery of Tritonal from said bombs. Recovered Tritonal will then be reprocessed with the intent to recover the TNT for client (this part is not included in this contract). Recovering of removed Tritonal is not part of

this offer. Also it is not part of this offer to use the delivered equipment and/or know how by ATK and/or other parties.

4 CONTRACTUAL INFORMATION

4.1 TERMS AND CONDITIONS

ISL shall accept any mandatory U.S. Government Flow Downs that will apply to ISL. Unless previously withdrawn or modified in writing, this proposal will remain valid for thirty (30) days from the date of submittal. This offer is subject to negotiation of mutually acceptable terms and conditions. Any new special flow down requirements will be addressed when available.

4.2 REMITTANCE ADDRESS

Industriepark Spreewerk Luebben (ISL)
Boernichen 99
D-15907 Luebben
Germany

For payments to ISL by wire - Bank of

Commerzbank AG Germany BLZ: 850 400 00 Account-N°: 800 306 300,
Swift Code: COBADEFFXXX
IBAN: DE 31850400000800306300

PROPOSAL APPENDIX A – 1

SCHEDULE: *TBD*

USE OR DISCLOSURE OF DATA IS SUBJECT TO RESTRICTIONS ON THE TITLE PAGE OF THIS DOCUMENT

USE OR DISCLOSURE OF DATA IS SUBJECT TO RESTRICTIONS ON THE TITLE PAGE OF THIS DOCUMENT



SPREWERK

**ATK Statement of Work
For
Industriepark Spreewerk Luebben (ISL)**

For the
**M117 Bomb Demilitarization /
Tritonal Recovery Program**

DRAFT

June 26, 2005

Prepared by

Industriepark Spreewerk Luebben (ISL)

The information contained in this document is the property of Industriepark Spreewerk Luebben (ISL) and is submitted in confidence to the contractor. The submission of the information contained herein shall not be deemed to constitute public disclosure or authorization for disclosure to other parties.

***The following is a draft version of the SOW to be reviewed by Customer (ATK).
Current proposal is based on the following SOW.***

1.0 INTRODUCTION

1.1. Scope

This is a Statement of Work (SOW) for the demilitarization of M117 GP Bombs and Tritonal/TNT recovery program as furnished by U.S. Government. ATK shall contract with Industriepark Spreewerk Luebben (ISL) to perform the demilitarization performance stated within this contract. In addition to the Program Manager and Program Engineer that Industriepark Spreewerk Luebben (ISL) will supply, ISL shall subcontract the majority of the demilitarization work in the scope of this contract with Explo Systems, LLC based in Minden, Louisiana. Duration of the contract is estimated at approximately one (1) year, with discussed options of four (4) additional one (1) year contracts (See Attachment A-1 for master schedule –TBD). At the end of performance, ATK shall in good faith negotiate with contractor (ISL) for any additional/future contract extensions. ATK shall offer ISL “first right of refusal” when offering and/or negotiating any and/or all additional contracts to demilitarize said bombs.

Contractor shall provide technical know how in the form of technology and /or information in order to develop machinery to demilitarize GP bombs associated with this contract. Contractor shall also supervise the construction of machinery and technology at subcontractors facility located in Minden, LA. Contractor shall also ensure the proper testing of machinery and/or ensure that everything is proper operational status.

The purpose of this contract is for the recovery of four million, two hundred and five thousand, eight hundred (4,205,800) lbs of Tritonal (removed from GP M117 bombs). Based on a prior agreement during our discussion in Christiansburg/VA of 360 lbs per bomb, total number of bombs shall be approximately eleven thousand, six hundred eighty three (11,683) bombs. This number depends on the quantity of removed Tritonal and is only for information. The Customer (ATK) is responsible to ensure the total numbers of agreed to bombs shall be delivered. Customer (ATK) shall retain the right to offer additional bombs to contractor (ISL) should the need and/or requirement change. However, at no time shall the required number of pounds of removed Tritonal (stated in this contract) be lower than the agreed 4,205,800 lbs.

It is accepted and agreed that the U.S. Government shall be responsible for any and/or all transportation and/or forwarding of any and/or all material (bombs) to the Explo Systems, facility located in Minden, LA. It is hereby stated that ISL shall retain the services of Explo Systems for the performance of this contract. Contractor (ISL) shall hereby provide the proprietary information and technology for the demilitarization of the items (bombs) to Explo Systems. Explo Systems shall hereby use said information and technology to perform any and/or all services under the obligation of this contract. It is hereby understood that and and/or all “propriety data” shall be returned to ISL at the commencement of this U.S. Government contract.

Explo Systems, LLC., hereby known as Subcontractor, shall hereby be responsible for the following:

- Use the technology and information to perform any and/or all work associated in the demilitarization of GP M117 bombs (SOW)
 - Including, but not limited to:
 - Cutting the bombs
 - Breaking bombs
 - Removal of Tritonal
 - Recovering and/or processing any and/or all scrap material associate to, with or from this contract.
 - Reprocessing of Tritonal (not part of this offer)
 - Explo Systems shall also be responsible for any and/or all permits, licenses and/or paperwork associated with this contract.
 - Recovered Tritonal will then be reprocessed with the intent to recover the TNT for client (this part is not included in this offer).

1.2. Background

ATK received a contract ("order") to demilitarize GP M117 bombs filled with Tritonal. This contract is part of a program for the recovery of Tritonal and TNT. ATK subsequently retained the services of Industriepark Spreewerk Luebben (ISL) to perform services that will assist ATK in their efforts to reclaim Tritonal. ISL shall subcontract the majority of work in the scope of this contract to Explo Systems, LLC based in Minden, Louisiana. Explo Systems, LLC has a prearranged agreement with ATK to recover the explosive filling of said bombs (Tritonal) for the recovery of TNT. For purposes of this contract, Explo Systems responsibilities are assumed by ISL.

It is hereby agreed that the basis for this agreement is that all three (3) companies form a team to ensure the recovery of the Tritonal and/or TNT for the purpose of providing Government with an ample supply of TNT. Customer (ATK) shall offer the U.S. Government TNT derived from the recovered Tritonal.

Structure is that ATK shall offer a contract for the period of one (1) year to ISL with the understanding that ATK can and will offer ISL a possible three (3) to four (4) extensions contracts, each for a one (1) year period. Said additional contracts shall only be offered if, and only if there are no defaults, violations and or any other "at fault" situation(s) resulting from the first/original contract. ATK shall offer a separate contract to Explo Systems for the recovery of TNT.

2.0 APPLICABLE DOCUMENTS

The following documents are applicable to extent specified in this SOW. The most current version of each document, as of the date of this SOW, shall be used.

- ISL shall provide Subcontractor any and/or all specifications, technology and/or other/additional material, for the design and subsequent construction of proprietary machinery for the destruction of said bombs.
- ISL shall also provide any and/or all specifications, including any drawing(s) (in any format) or other material for the safe and secure destruction of said bombs.
- ISL shall provide customer (ATK) either certificate of destruction (COD) or other paperwork stating the destruction of said bombs. Said certificate/paperwork shall indicate the destruction of said bombs.
- ISL shall provide customer monthly progress reports of performance and/or production schedule.
- ISL shall provide customer with invoices for payment(s) for services in a two weeks time rendered. Customer shall pay any and/or all invoices net thirty (30) days.

3.0 TASKS

3.1 Core

Contractor (ISL) shall provide a Program Manager for this effort, as well as an Assistant Program Manager, responsible for all aspects of the program. This individual will be the point of contact for program planning, schedule / cost information and action item status tracking / completion.

Contractor (ISL) shall assign a technically cognizant Project Engineer accountable for the electrical, mechanical, and software integration requirements and validation/compliance with interface controls.

3.2 Engineering Development / System Capabilities

Contractor shall design, develop and test specific development and construction of Proprietary Bomb Demilitarization Line (BDL). Development and construction of said Bomb Demilitarization Line shall include, but are not limited to the following:

3.2.1 Lathing equipment

Contractor shall design and/or develop lathing equipment designed to cut the bomb body and prepare bomb body for breaking. Lathe equipment shall be designed and operated solely to cut the bomb body for the next stage in the demil performance.

3.2.2 Hydraulic Press - A

Contractor shall design, redesign and/or modify and/or develop a hydraulic press for the purpose of physically breaking the bomb body. Said press shall be no less than a two hundred fifty (250) ton hydraulic press and no greater than a six hundred (600) ton hydraulic press. Said hydraulic press shall only be used and/or operated solely to physically break the bomb body in order to expose the explosive filling (Tritonal)

3.2.3 Hydraulic Press - B

Contractor shall design, redesign and/or modify and/or develop a hydraulic press for the purpose of physically pressing the explosive from certain sections of bomb body. Said press shall be a two hundred fifty (250) ton hydraulic press. Press will also be fitted with special equipment in order to ensure proper performance according to Proprietary designs. Said hydraulic press shall only be used and/or operated solely to physically press explosive from bomb body section.

3.2.4 Steam "autoclave"

Contractor shall design, redesign and/or modify and/or develop steaming unit designed to remove the explosive from certain bomb body sections. The proprietary equipment is designed to heat the bomb body section to the point where it becomes hot enough that the explosive shall remove itself from the bomb body section and fall into a pre-designed container for the collection of explosive. Said equipment shall include any and/or all necessary equipment necessary to perform said action in a safe and secure manner.

3.3 Engineering / Technical Support Services

3.3.1 Design, redesign develop and/or modify Bomb Demilitarization Line (BDL).

Contractor shall perform any and/or all said work at Contractors facility located in Luebben, Germany. However, Contractor reserves the right to add, change and/or modify any specifications on-site at subcontractor facility located in Minden, LA. Contractor reserves the right to do any additions, changes and/or modifications either before, during, and/or after award of contract.

3.3.2 Construction of material and equipment

Contractor shall perform any and/or all construction of said equipment at Subcontractors facility located in Minden, LA. If needed, Contractor reserves the right to either assist and/or retain companies to perform any and/or services associated with the preparation and/or construction of said equipment.

3.3.3 Testing

Contractor shall perform any and/or all tests associated with the construction and/or start up of any and/or all equipment, material and/or services at Subcontractors facility in Minden, LA. Contractor reserves the right to perform any and/or all portions and/or segments of any test associated with the successful completion of Bomb Demilitarization Line (BDL) at any other location (other than Subcontractors facility).

3.3.4 Support

Contractor shall offer and/or provide support, from start to finish, for the Bomb Demilitarization Line (BDL). Such assistance/supports shall be in form of verbal, fax, e-mail (printed and/or electronic formats) and/or direct physical assistance/support (in person). Said assistance/support shall be available at any time from Contractors facility in Luebben, Germany.

3.4 Quality Assurance Provisions

3.4.1 Quality System

The Seller's Quality System shall comply with the Quality Clauses specified in the terms and conditions of the contract. The Quality and/or Inspection and manufacturing/construction processes are subject to review, verification and analysis by Contractor representatives. These on site reviews at Explo Systems facility may occur during design, development and/or construction or final assemblies of Bomb Demilitarization Line (BDL).

3.4.2 Corrective Action

In response to Customer-initiated corrective action requests, Contractor shall advise Customer of root cause determination, corrective action taken to prevent recurrence of reported problems and/or discrepancies, and effectively dates of the planned corrective action(s). Contractor shall maintain a corrective action system that determines the effectiveness of such corrective actions, and shall comply with all "Terms and Conditions" provided in the contract.

3.4.3 ISL's Customer Inspection

Contractor hereby advises Customer that during the performance of this order, the Contractor quality system and manufacturing/construction processes may be subject to review, verification and /or analysis by authorized ATK("Customer") representative(s) with a minimum of one week notice of visit via email or verbal notification.

3.4.4 Packaging, Handling and Transportation

The Customer (ATK) shall establish practices for packing, handling and transporting the Item adequate to maintain damage free delivery of bombs.

4.0 DELIVERABLES

The following is the current list of deliverables.

Items	Title	Frequency
1	Status report of current performance	15 th and 30 th of every month /"mid and end of month"
2	Design and delivery of design(s), technology.	TBD
3	Delivery of equipment	TBD
4	Construction of Bomb Demilitarization Line (BDL)	TBD
5	Testing of BDL	TBD
6	Receipt of bombs for demil	Per Customer (ATK) details
7	Commencement of Production	TBD
8	Final report of production	End of contract

**** The Deliverable schedule will be mutually agreed to by both ATK and ISL.**

4.1 CUSTOMER FURNISHED EQUIPMENT AND INFORMATION

The subcontractor shall define any Customer Furnished Equipment (CFE) and/or Customer Furnished Information (CFI) requirements.



Spezialtechnik Dresden GmbH
Postfach 800101, 01101 Dresden

Advance Payment Guarantee

We have been informed that our 100% subsidiary, Industriepark Spreewerk LÜbben GmbH, hereinafter called the SELLER, has received from you – Alliant Ammunition and Powder Company, the BUYER an order Number AT1544 concerning the

Delaboration of bombs and Tritonal recovering

The total value of this contract shall be \$3,184,929 U.S. Dollars (three million one hundred eighty four thousand nine hundred twenty nine).

In accordance with the payment conditions agreed upon, an advance payment amounting to \$1,000,000 (one million dollars USD) will be made by you (Buyer) to SELLER. In return, Spezialtechnik Dresden GmbH shall issue BUYER an Advance Payment Corporate Guarantee for the amount of \$750,000 (seven hundred fifty thousand dollars USD) in your favour. Payment(s) of \$1,000,000 advanced payment shall hereby be distributed in accordance to previously agreed schedule. Said payment schedule shall be detailed in Purchase Order issued from BUYER to SELLER.

In consideration of the aforesaid, we, Spezialtechnik Dresden GmbH hereby irrevocably undertake to repay to you any amount up to the maximum of \$750,000 U.S. Dollars should SELLER fail to render service(s) stated in Purchase Order. The liability shall be reduced based on the following schedule:

Delivery of 1,000,000 lbs of Tritonal, Reduction of \$150,000, Liability \$600,000
Delivery of 2,000,000 lbs of Tritonal, Reduction of \$300,000, Liability \$450,000
Delivery of 3,000,000 lbs of Tritonal, Reduction of \$450,000, Liability \$300,000
Delivery of 4,000,000 lbs of Tritonal, Total Release of Liability

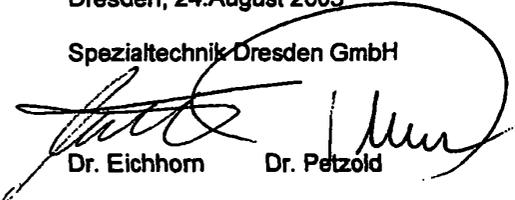
The maximum shall not exceed \$750,000 U.S. Dollars.

Repayment would occur upon receipt of your demand in writing wherein you declare simultaneously that the SELLER failed to render the above services.

Our liability under this guaranty shall expire upon fulfilling the services obligation mentioned above. If SELLER fails to complete services in full, on February 1, 2007, BUYER shall submit claim for repayment in full to Spezialtechnik Dresden GmbH for the amount of \$750,000.00USD. Spezialtechnik Dresden GmbH hereby guarantees payment to BUYER via electronic bank transfer. BUYER shall hereby provide transfer details within claim. Both BUYER and SELLER shall hereby agree that this *Advance payment Corporate Guarantee* shall expire and/or become null and void immediately upon the delivery of 4,000,000 lbs of Tritonal.

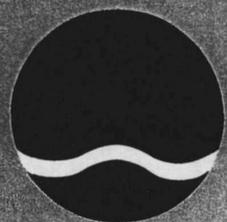
Dresden, 24. August 2005

Spezialtechnik Dresden GmbH


Dr. Eichhorn Dr. Petzold

Spezialtechnik Dresden GmbH
Sitz: Zum Windkanal 21, 01109 Dresden · Postadresse: Postfach 800101, 01101 Dresden
Telefon: +49 (0) 351 888-5000 · Fax: +49 (0) 351 888-5443
E-Mail: info@spezialtechnik.de · Internet: www.spezialtechnik.de
Aufsichtsrat: Neal Blue, Vorsitzender: Dr. Hanns Arnt Vogels, Stellvertretender Vorsitzender
Geschäftsführer: Karsten Blue, Linden Blue, Dr. Rainer Eichhorn, Dr. Wolfgang Petzold
Handelsregister: Amtsgericht Dresden, HRB 6721 · Ust-Id-Nr.: DE152437431
Bankverbindung: Dresdner Bank AG, BLZ 85080000, Konto: 410419500
Commerzbank AG, BLZ 85040000, Konto: 800039000

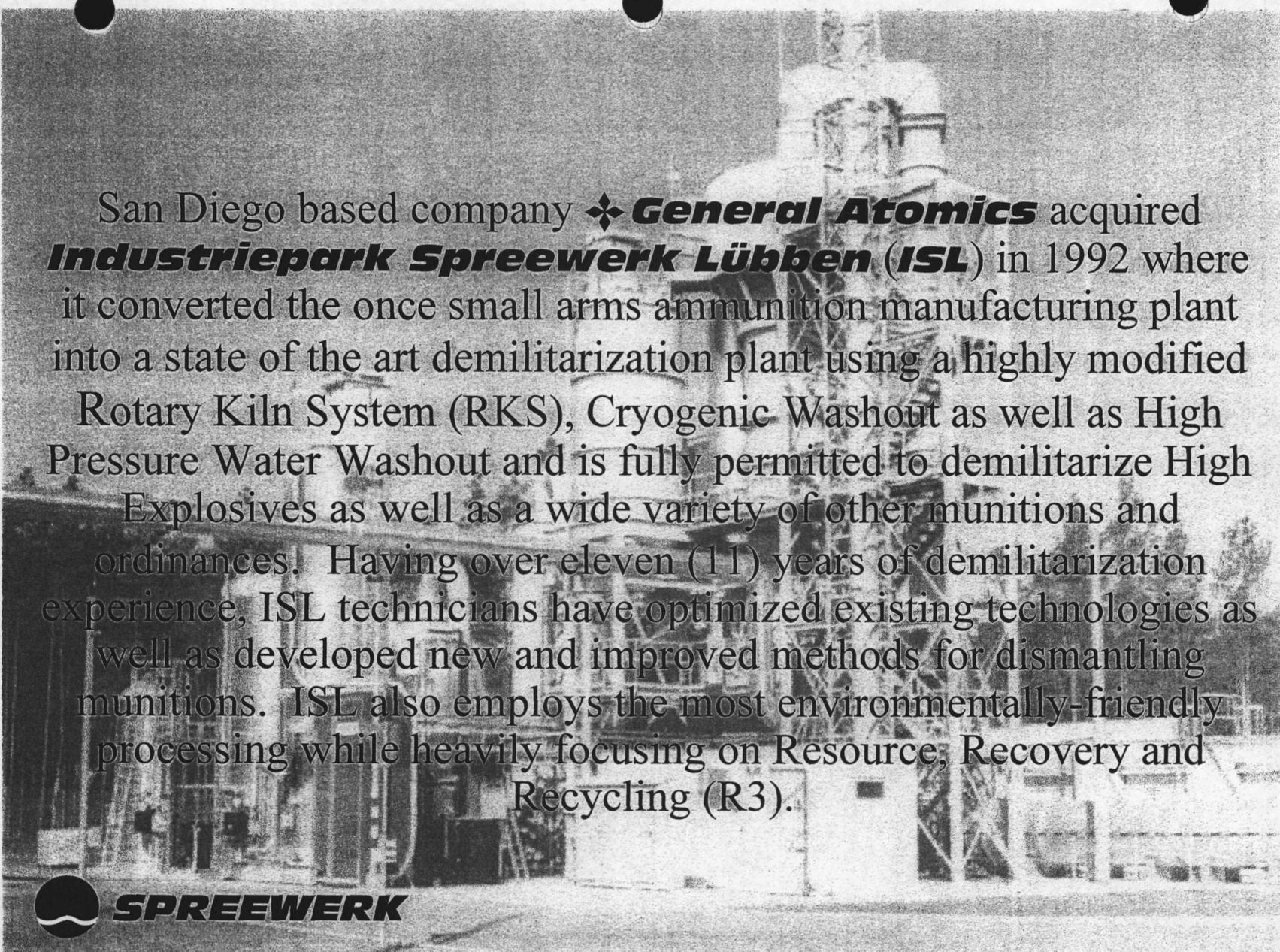
 Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden



SPREEWERK

PART OF THE GENERAL ATOMICS GROUP

**Complete Ammunition disposal
&
Demilitarization services**



San Diego based company ❖ **General Atomics** acquired **Industriepark Spreewerk Lübben (ISL)** in 1992 where it converted the once small arms ammunition manufacturing plant into a state of the art demilitarization plant using a highly modified Rotary Kiln System (RKS), Cryogenic Washout as well as High Pressure Water Washout and is fully permitted to demilitarize High Explosives as well as a wide variety of other munitions and ordinances. Having over eleven (11) years of demilitarization experience, ISL technicians have optimized existing technologies as well as developed new and improved methods for dismantling munitions. ISL also employs the most environmentally-friendly processing while heavily focusing on Resource, Recovery and Recycling (R3).



ISL also has a German Railway connection with it's own on-site railhead



ISL is situated within an area of 180 Hectares (450 acres). It is a fully self contained facility with it's own constant power supply, fresh water wells, natural gas line and sewage system. It has four (4) steel/concrete framed operational buildings and seven (7) munitions storage magazines capable of storing up to 250 tons of munitions (Net Explosive Weight) as well as several off site facilities capable of storing an additional 800++ tons (N.E.W.).

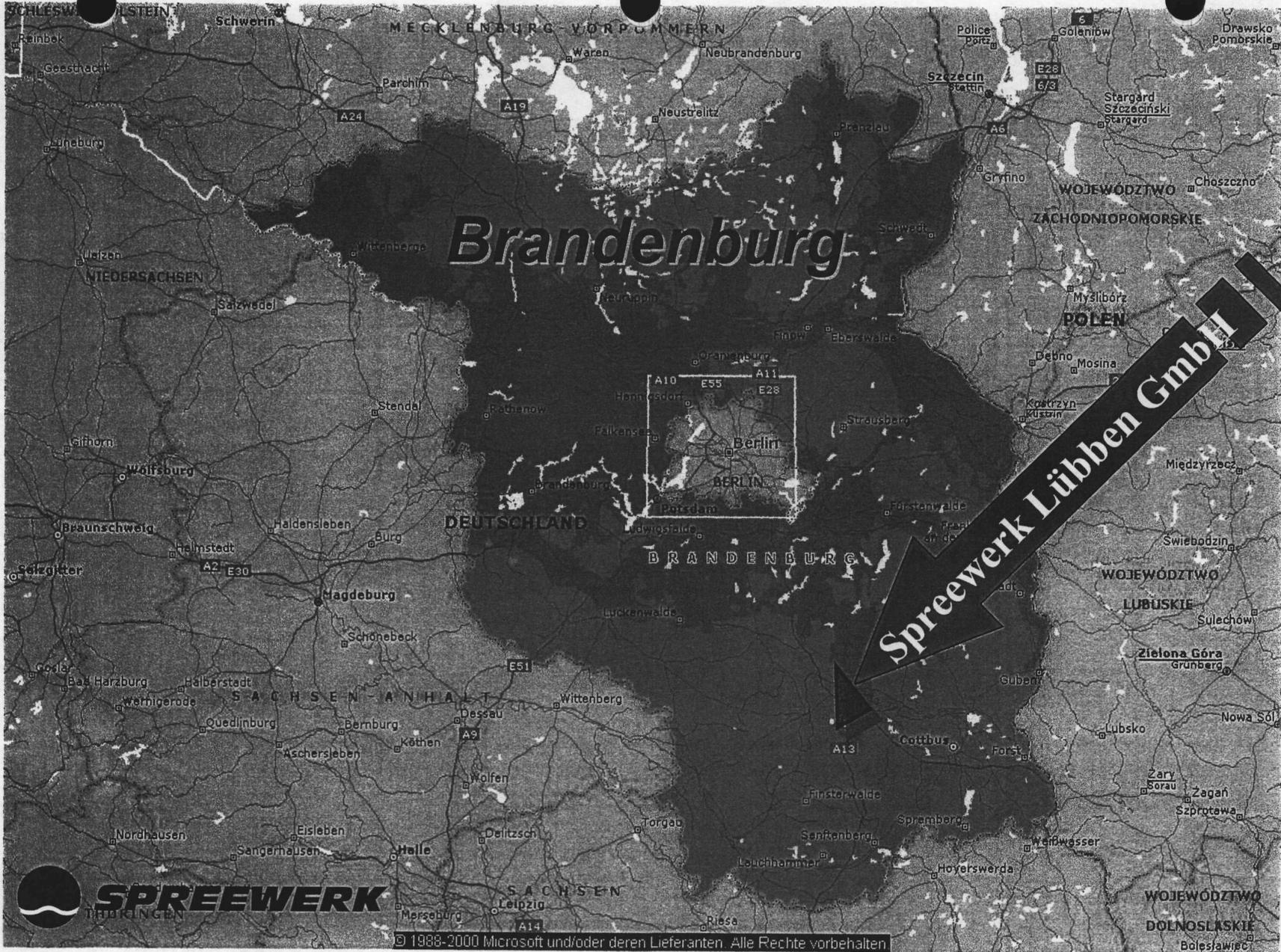


Harbor Wismar 350 Km
Harbor Rostock 300 Km

Lübben, County
Brandenburg



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Security



Security measures are extremely important at ISL. Every munitions storage structure is located within a restricted area, enclosed by a high security fence and secured by armed and licensed guards. The munitions storage magazines are also integrated into the facility-wide state-of-the-art security system including an electronic detection system connected to the guardhouse. Every munitions storage magazine is also mechanically and electronically secured.

Production centers are enclosed by an additional fence with entrances protected by appropriate mechanical and/or electronic security mechanism as well. 24-hour security is also assured through constant night patrols, accompanied by trained guard dogs.



Safety

ISL complies with all German and NATO Safety Regulations, including AQAP 110 and 130, and has been ISO 9001-certified since June 1997. There is a full-time German Government Quality Assurance Inspector to monitor ISL's compliance with prescribed directives and to assure proper certification of work completed. The Safety Analysis has been approved by the Brandenburg "Authorities for Catastrophe Protection." Additionally, ISL is now ISO 14001 certified.

ISL's safety practice standards, transportation procedures, demilitarization equipment and facilities, storage facilities, fire protection systems and personnel training all meet or exceed the requirements of DOD 4145.26M. The ISL facilities in Lübben, Germany have undergone numerous pre-award safety surveys by U.S. Defense Department personnel including safety personnel from the Defense Contract Management Command (DCMC). The last survey was completed in November of 2001 by DCMC Southern Europe and resulted in top ratings in all areas.



Demilitarization Process

Munitions are typically dismantled using reverse-assembly methods, while utilizing the most current technologies such as explosive wash-out using high-pressure water-injection, Cryogenic wash-out, Melt-out and Cryogenic fracture.

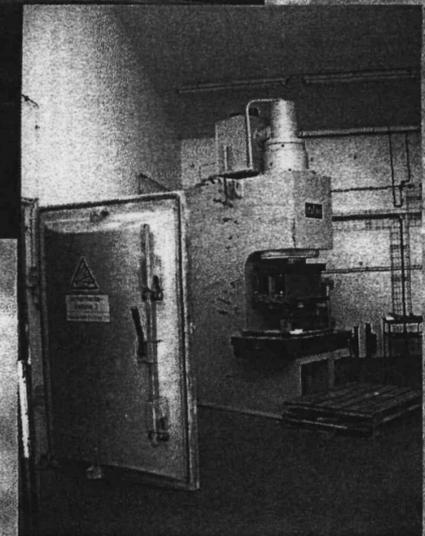
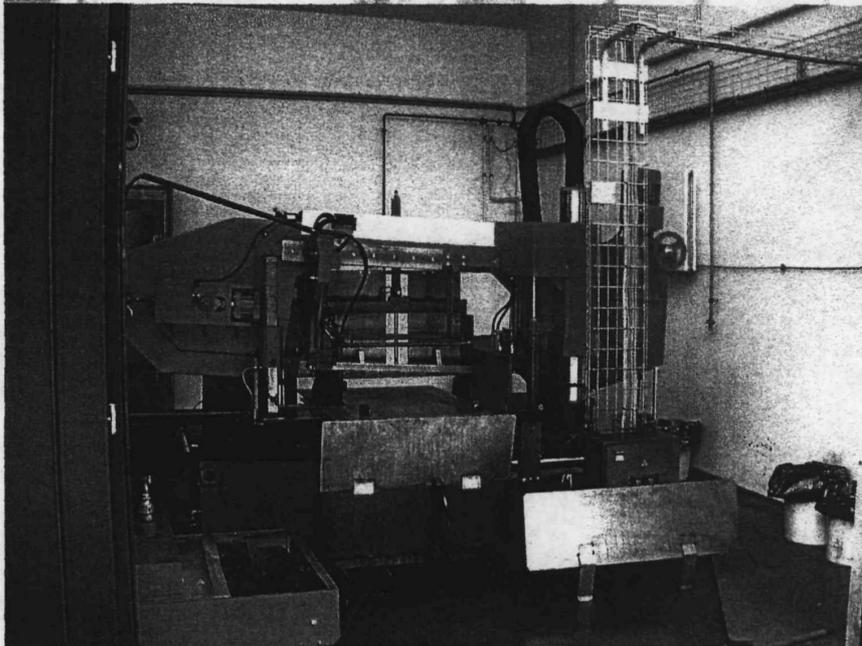
At the heart of ISL's demilitarization processing plant is a comprehensive state-of-the-art incineration plant comprised of a slurry feed system, a modified rotary kiln system (RKS), two circulating bed combustors (CBC), a very modern pollution abatement system as well as an ancillary support system.



Actual Processing Centers:

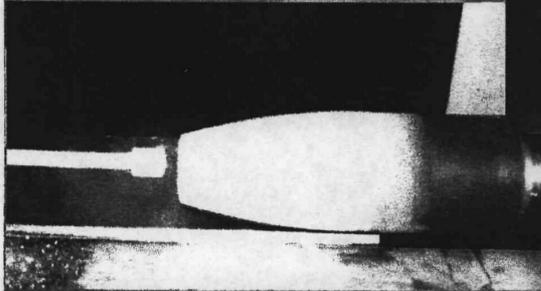
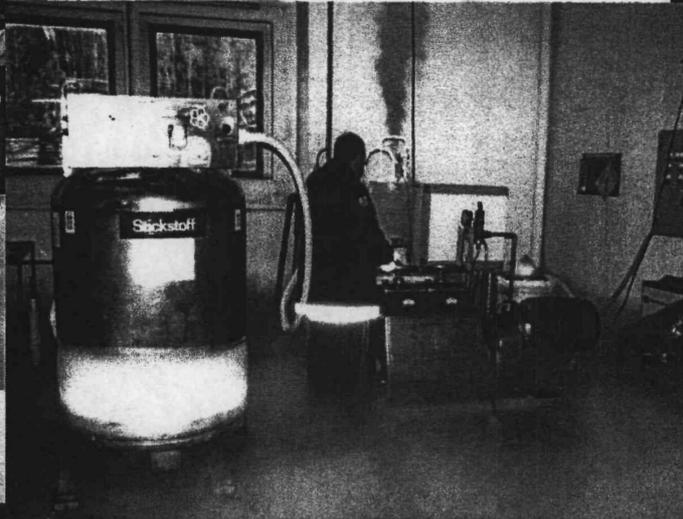
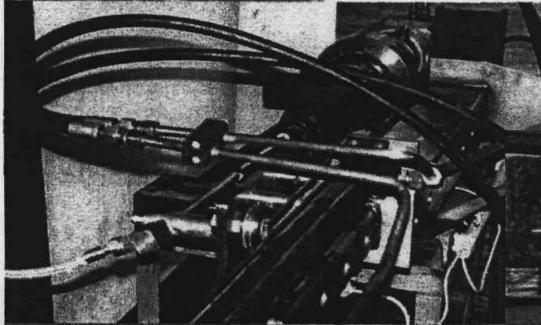
Nine processing centers, including eight safety cabins.

These processing centers are suitable for different uses, they can be established by the big end blowing walls with the most different pieces of equipment and machines by the order.



Cryo-Washout Facility

**Cryo-washout of a
105 mm HE shell**

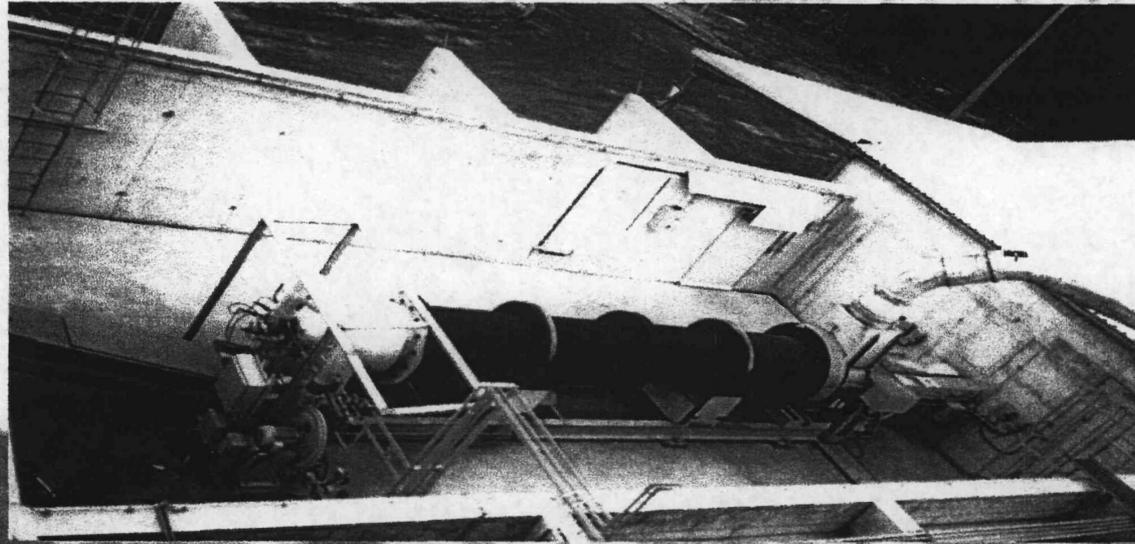


**After Cryo-washout, the shell
was virtually "explosive"**



 **SPREWERK**

Rotary Kiln System (RKS)



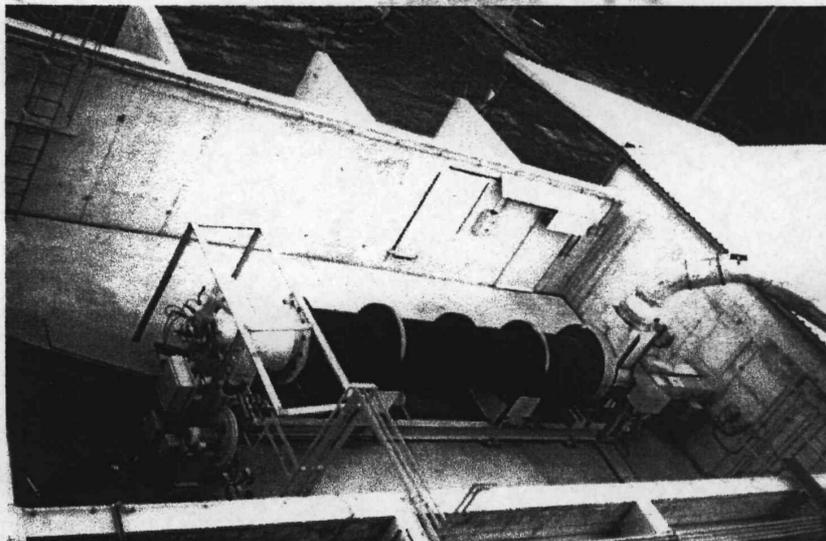
The Rotary Kiln System (RKS) actually consists of a modified APE-1236 rotating kiln and an afterburner. The system produces a heat energy of approximately 1.3 MW. The rotary kiln's construction and maximum temperature in the afterburner enable incineration of explosive, explosive-laden and other solid materials. All aspects of the incineration occur in an environmentally-friendly manner.



Rotary Kiln System (RKS)

RKS THROUGHPUT

Operation of the incineration facility based on a Mon-Sun; three - eight hour operating shifts

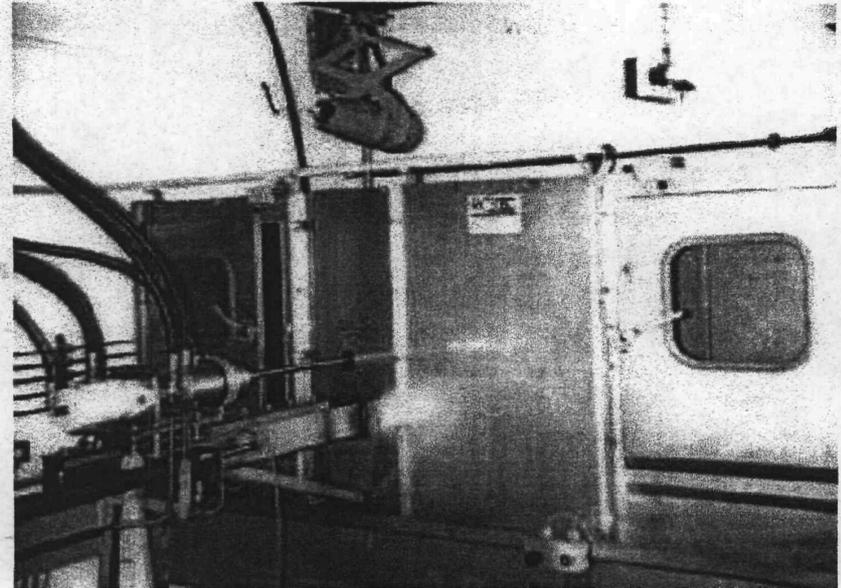
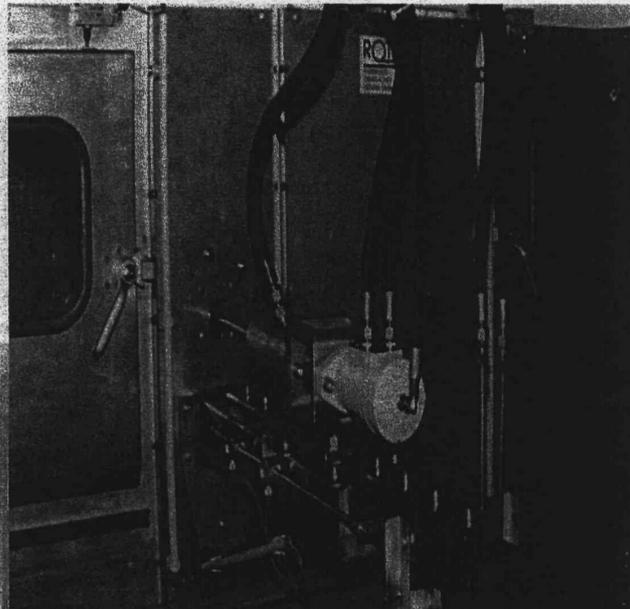


<u>Feed type</u>	<u>Throughput (kg/hr)</u>
• Propellant	
- Monobase	110
- Duobase	90
• Explosive	
- TNT	160
• Fuzes	72
• Pyrotechnics	50
• Black Powder	82

*35k/day
90 bombs/day*



High pressure water washout



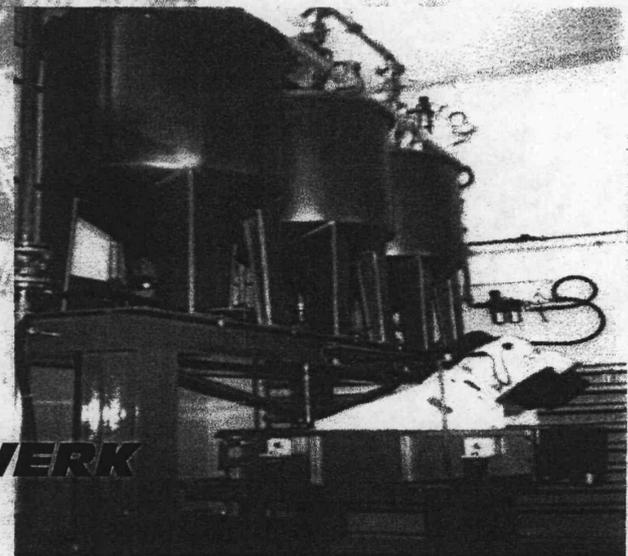
Explosive is thoroughly removed from shells
and thereby rendered explosive-free.

Explosive Reclamation Assembly collects
explosive for recycling.

Water is recycled within System.



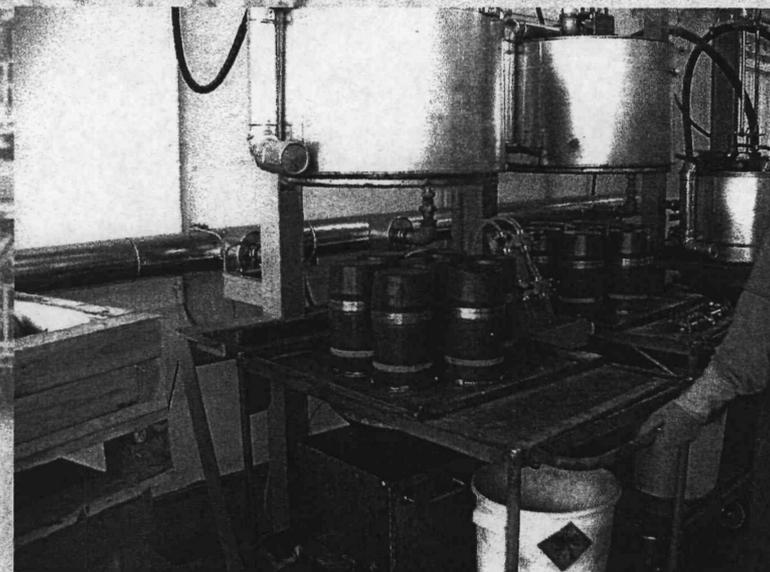
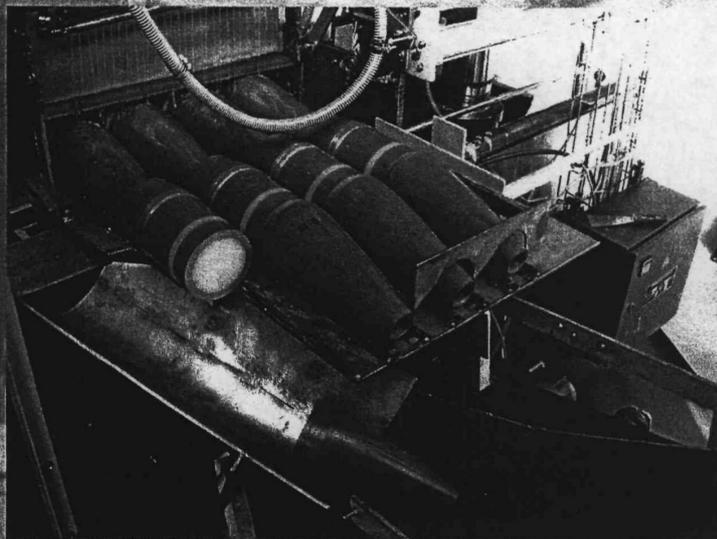
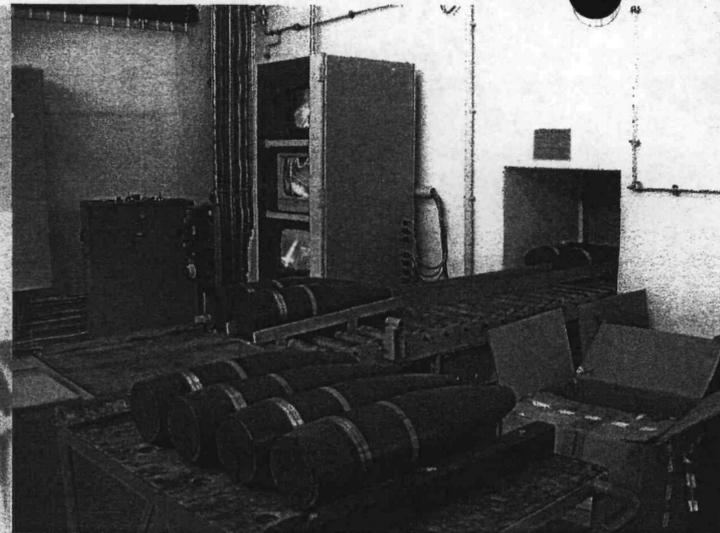
SPREWERK



155mm Artillery rounds

- cutting
- breaking
- melt out

The amount of explosives per building is limited from 30 to 100 kg, on the other hand one building is permitted up to 2.000 kg net explosives.



 **SPREWERK**

Artillery Shell Demilitarization:

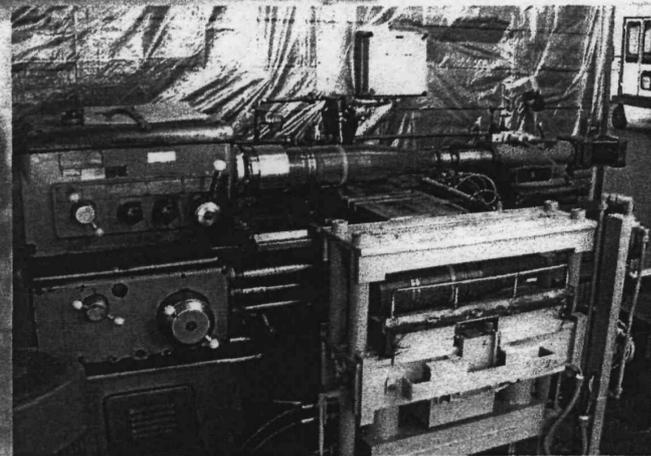
Spreewerk Lübben is a leading specialist in Artillery Shell demilitarization. In continuing its efforts to maximize R3, Spreewerk Lübben is able to recycle an extremely high percentage of reclaimed explosives.



105 mm shell fuzes
prior to incineration in
ISL's rotary kiln



105 mm shell fuzes
post incineration



↑ 155mm shell during disassembly ↑

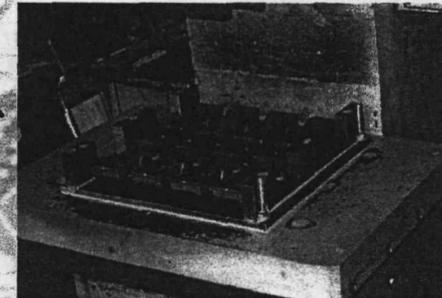


Land Mine Demilitarization:

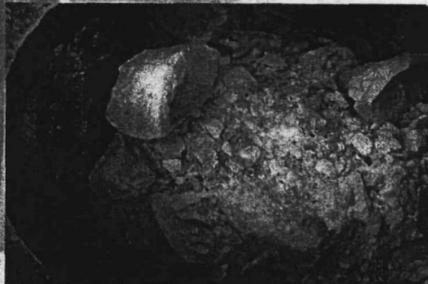
Spreewerk Lübben is a leading specialist in Anti-Personnel and Anti-Tank Land Mine demilitarization. In fact Spreewerk Lübben has demilitarized well over 1,000,000 AT & AP land mines.



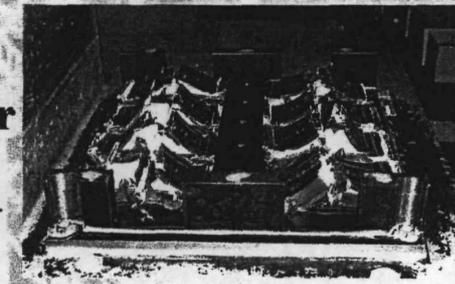
AT mine prior
to demil



AP mine prior
to demil

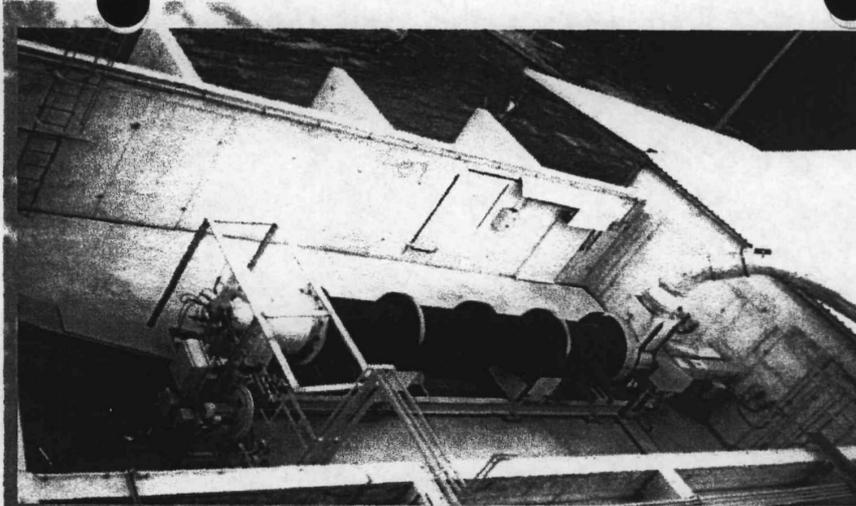


Recovered explosive



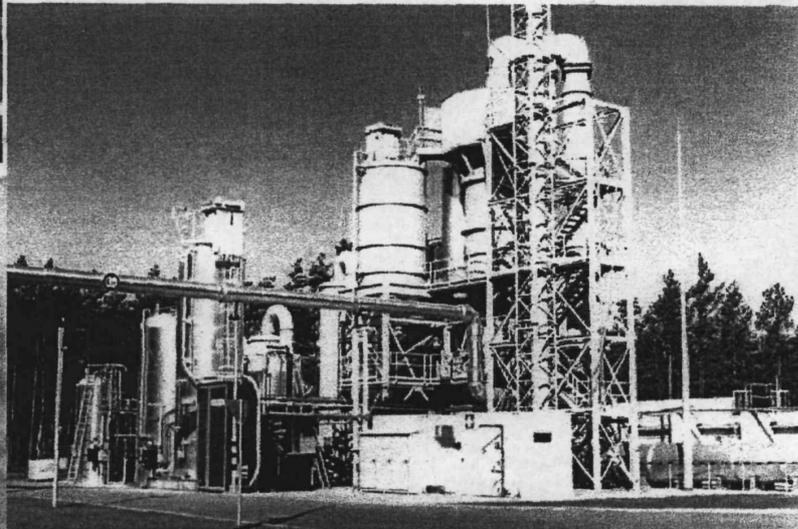
AP mine after
to demil



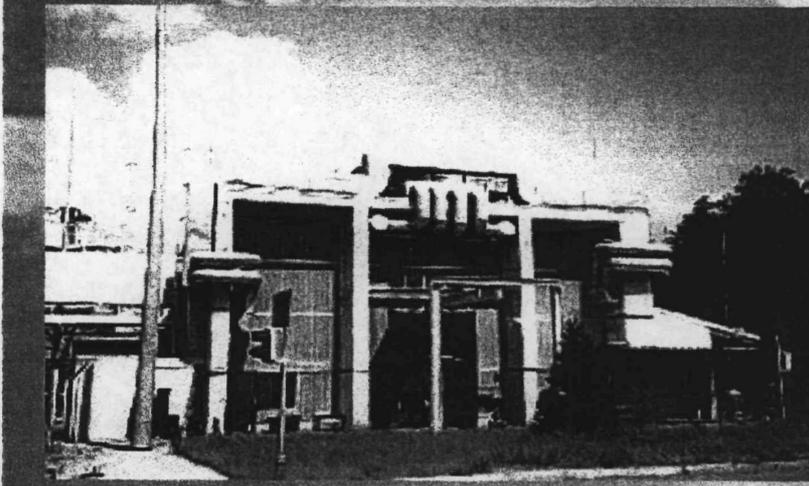


←
**Lübben's Rotary Kiln System (RKS)
Is a (modified) APE-1236**
←

→
**Lübben's Pollution Abatement System
(PAS) ensures strictest emission values
are maintained** →

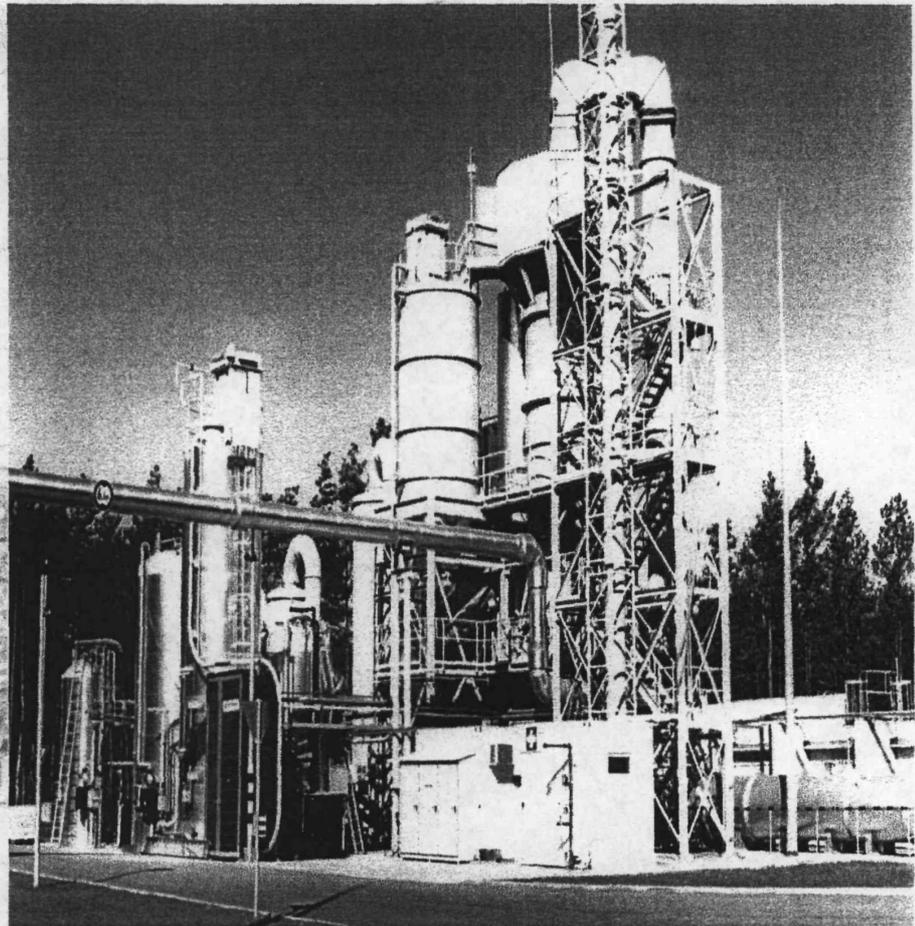


←
**Slurry Feed Building –
also used for remote accessing work**
←

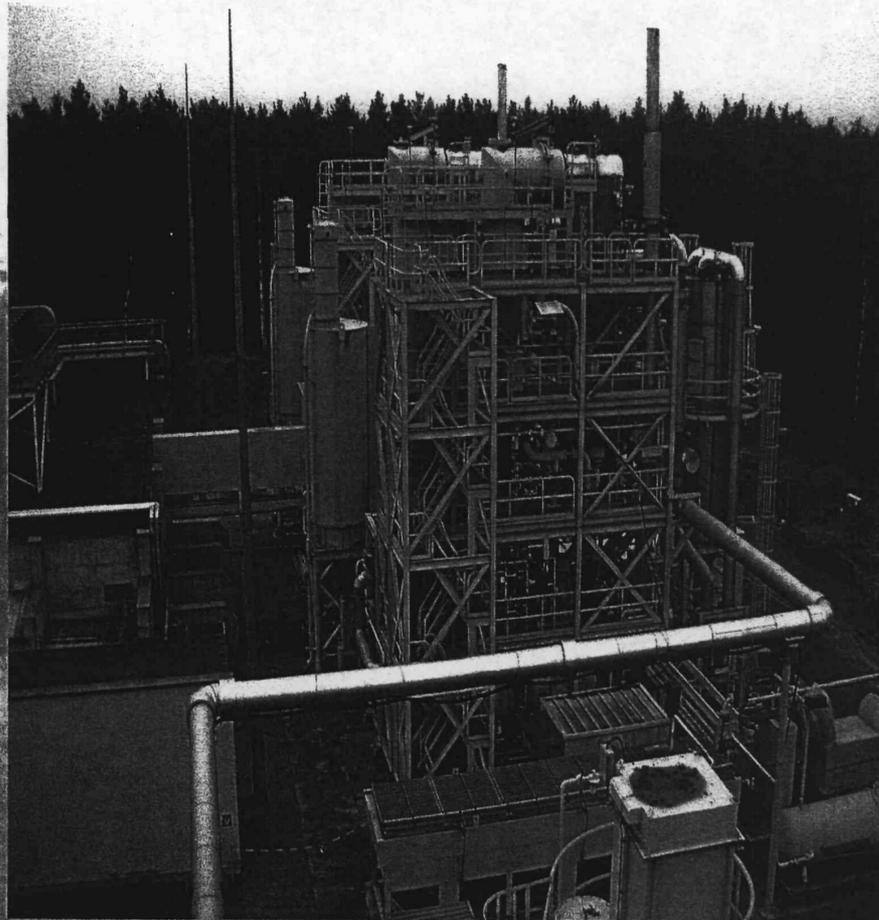


The Pollution Abatement System (PAS)

The Pollution Abatement System (PAS) was constructed in order to ensure environmental-friendliness of the thermal destruction facility. This is where the effluent gases from the kiln (RKS) and CBCs undergo a multi-step “cleansing” process. A major advantage of the PAS is the minimal amount of waste water. The PAS produces only solid waste such as calcium, salts and gypsum. Finally, prior to the cleansed gases being released to the atmosphere, they circulate through a thorough, governmental screening ensuring constant environmental-friendliness.



Circulating Bed Combustors (CBC's)



Put more simply, after exhausting every recycling possibility, all non-recoverable components of the munitions are incinerated. The gases resulting from this process are re-incinerated and then “scrubbed” to eliminate the creation of any possible toxic gases prior to the release into the atmosphere.



Spreewerk Lübben GmbH

Environmental History

- ➔ **Voluntarily stopped open burning in February 1995 and began using a modern incineration plant designed in accordance with the German Federal Emission Protection Act**
- ➔ **No environmental violations cited by German or US authorities**
- ➔ **Recycling ammunition since 1992**
- ➔ **Operate 100% wastewater free demilitarization**
- ➔ **Maximum R3 incorporated into every Demil operation**

Spreewerk Lübben has the ability and technical expertise to demilitarize a wide variety of items, however our expertise lies in demilitarizing the following:

- ➔ Small Arms Munitions**
- ➔ White Phosphorus Munitions**
- ➔ Anti-Personnel / Anti-Tank Mines (AP/AT Mines)**
- ➔ Cluster Bomb Units (CBU's)**
- ➔ Improved Conventional Munitions (ICM's)**



Sample list of items processed at ISL

Small Arms Munitions:

from 5.45 mm (Full Metal Jackets, tracers, short range & blanks), 7.62 NATO or .308 FMJ, 14.5mm (Armor piercing & incendiary) to 20mm and 35mm Air defense artillery munitions

Billions of rounds demilitarized



Anti Personnel/Anti Tank

Land Mines:

AP: 200, M18A1, K143, K145 & K151

AT: PT-Mi-PAT M21, M74, M75, K170, K181, K184, K250

Over 1,000,000 mines demilitarized



list of items processed at ISL continued

Hand Grenades:

Various types

Over 40,000 demilitarized

High Explosive & Napalm Bombs:

Various types & amounts

White Phosphorus Munitions:

Hand Grenades (Mk 80), Mortar shells
& Artillery shells (81mm & 105mm)

Over 48,000 Incendiary items
(over 300 tons)



list of items processed at ISL continued

Improved Conventional Munitions (ICM) projectiles:

HE M404 & M77

Over 10,000 demilitarized
(over 412,000 sub munitions
demilitarized)

Cluster Bomb Units (CBU):

58A/B, 58B, 58B/B, 71/B, 71A/B, 52B/B
& 58A/B

Over 4,000 demilitarized

Rockets/Missiles:

S5 Air - Air Missiles

510 Wire Guided Anti-Tank rockets

Over 300,000 demilitarized

Over 120,000

(Soviet - very similar to the TOW rocket)

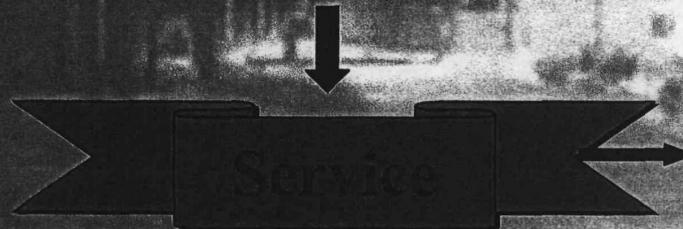


Client satisfaction is the primary goal at ISL!

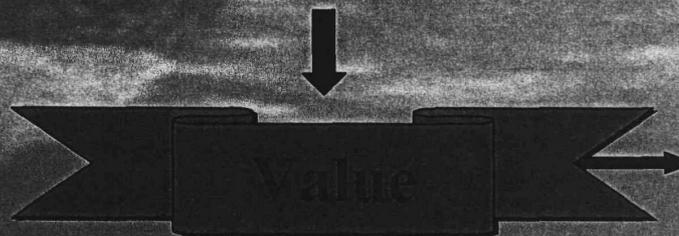
This is established 3 ways:



We are extremely thorough and detailed from start to finish on every project. We meticulously follow through on every detail ensuring problem free results



We firmly believe that communication, ability to listen to your needs and most importantly, the ability to finish each project on schedule is of the utmost importance.



ISL is fiercely competitive when it comes to pricing. You will find that ISL is consistently a greater value due to the fact that our prices are lower than industry standards.



**Make Spreewerk Lübben GmbH your
first choice when considering your next
Demil project!**

**ISL is a full service demilitarization facility.
Whether working as the prime contractor or the sub-
contractor, we are dedicated to our clients
satisfaction. We have the knowledge and experience
to successfully complete any type of demilitarization
project you present!**



References

German MOD (Ministry of Defense) / **“BWB”** (the BWB is the German Defense Procurement office)

Estonia MOD

ROC ~ Taiwan MOD

Royal Dutch Army

Royal Danish Army

Swiss Army

U.S. Army, OSC

Nordic Ammunition Company - NAMMO BUCK GmbH - Pinnow

United Nations Peacekeepers – Croatia

WWD (World Wide Demil)

Latvia MOD

NATO/NAMSA

Sweden MOD

South Africa, Armscor

U.S. Army, Europe

U.S. Air Force, Pac

Dyna-Nobel AG - Switzerland



USA Contact:

Mr. Michael G. Garner

**Vice President of Marketing and Business Development
– USA / Asia**



AMMO RECYCLING

A DIVISION OF GENERAL ATOMICS

Direct: (858) 455-4497 / Fax: (858) 455-4111

E-mail: garner@gat.com

Mail:

**P.O. Box 85608
San Diego, CA 92186-5608**

FED EX:

**3550 General Atomics Court
San Diego, CA 92121-1122
Bld. 37-239A**



SPREWERK

European Contact:

Mr. Hermann G. Tritsch

Marketing Director / Deputy Managing Director

Spreewerk Lübben GmbH

Direct: + 49-3546 28-206 / Fax: + 49-3546 28-470

E-mail: tritsch@spreewerk.de

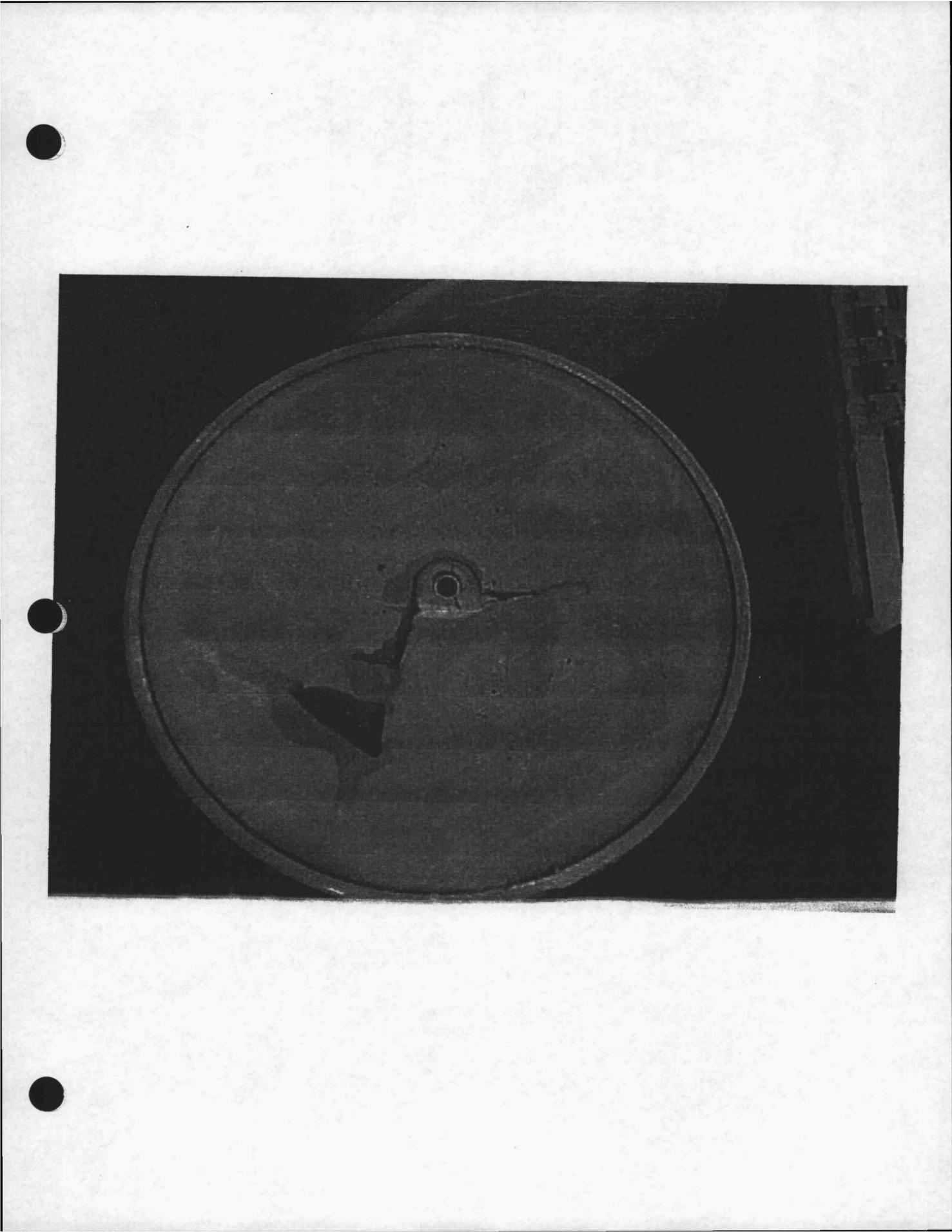
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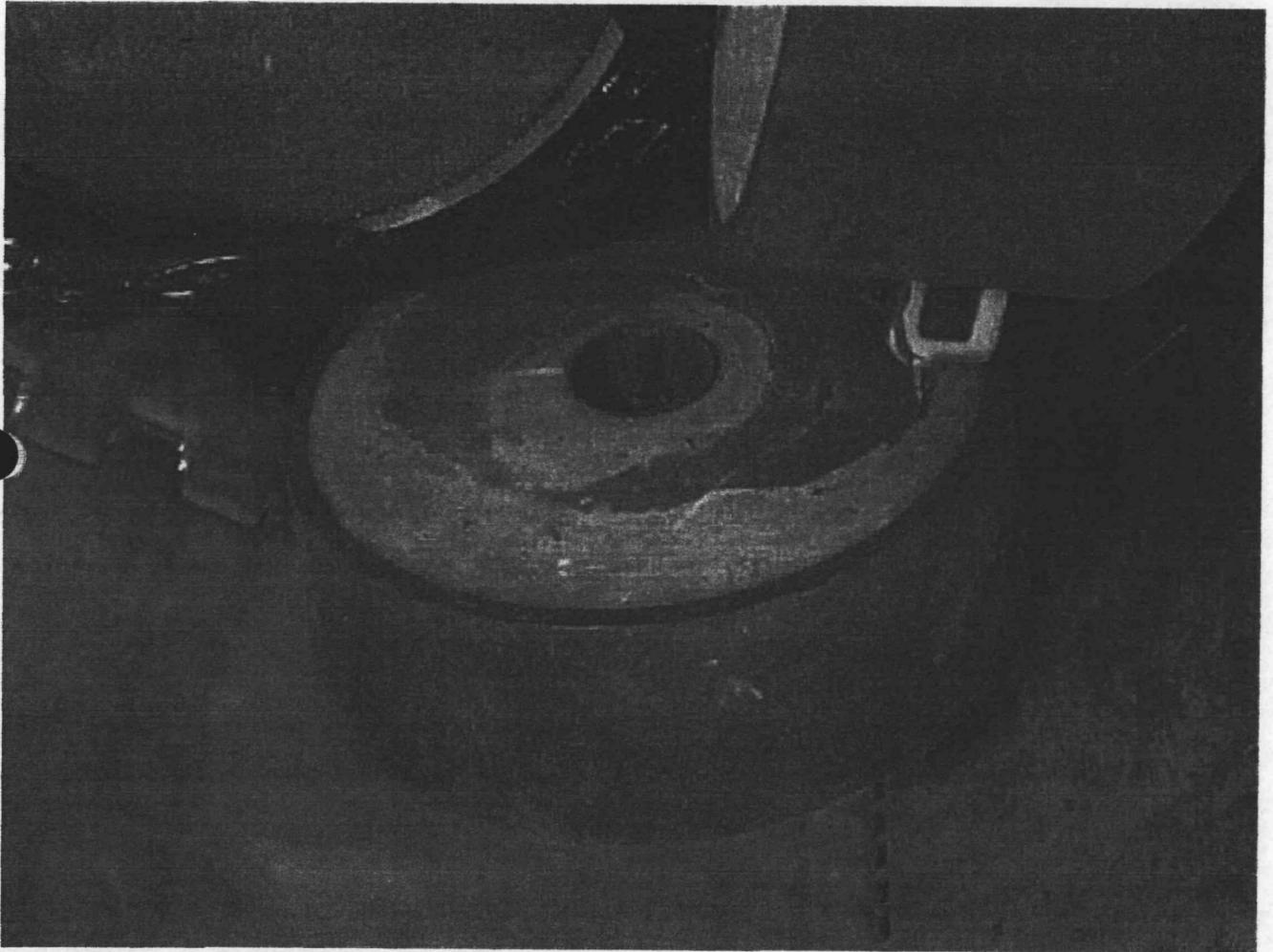
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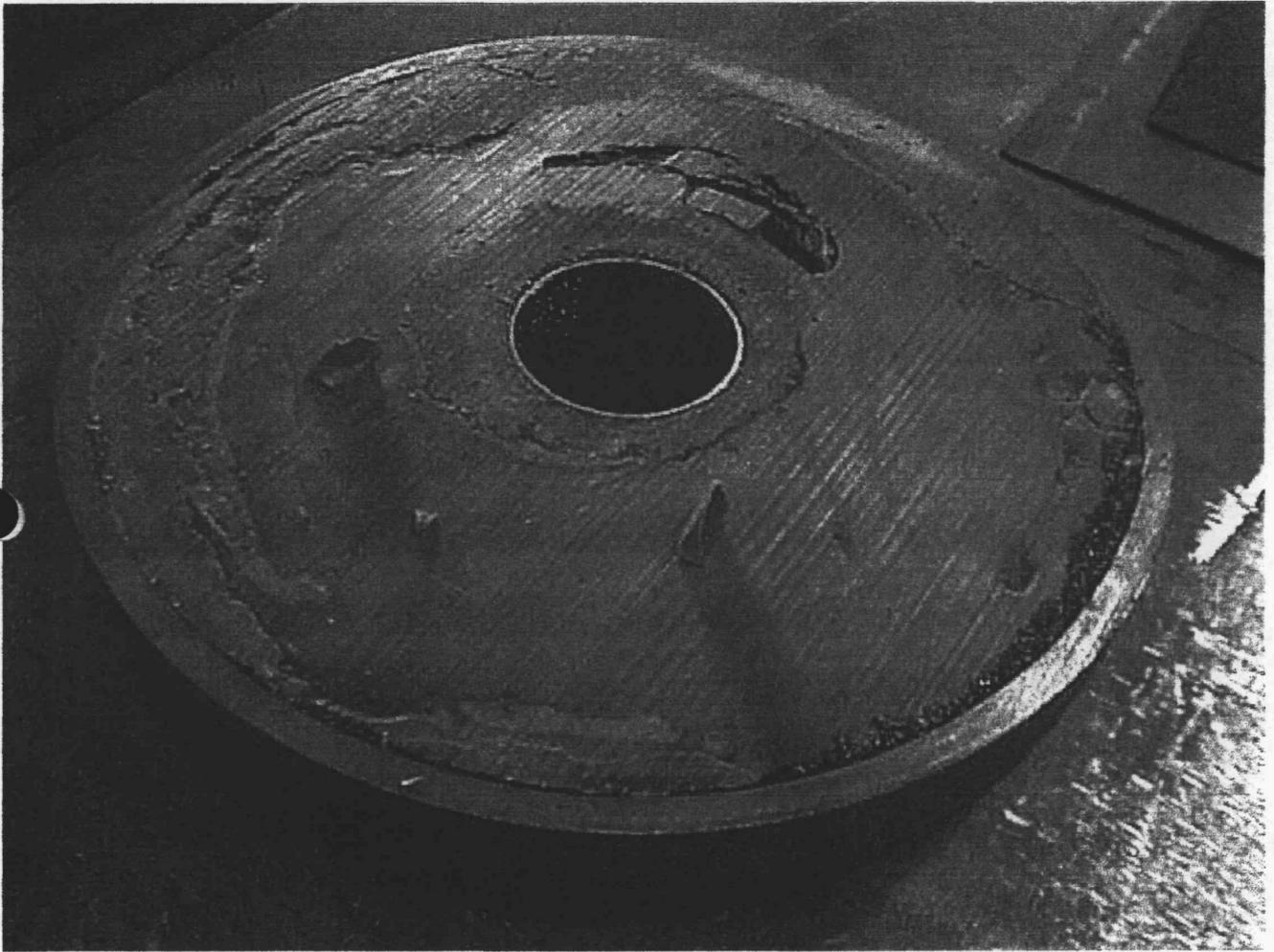
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D-15907 Lübben,
Germany

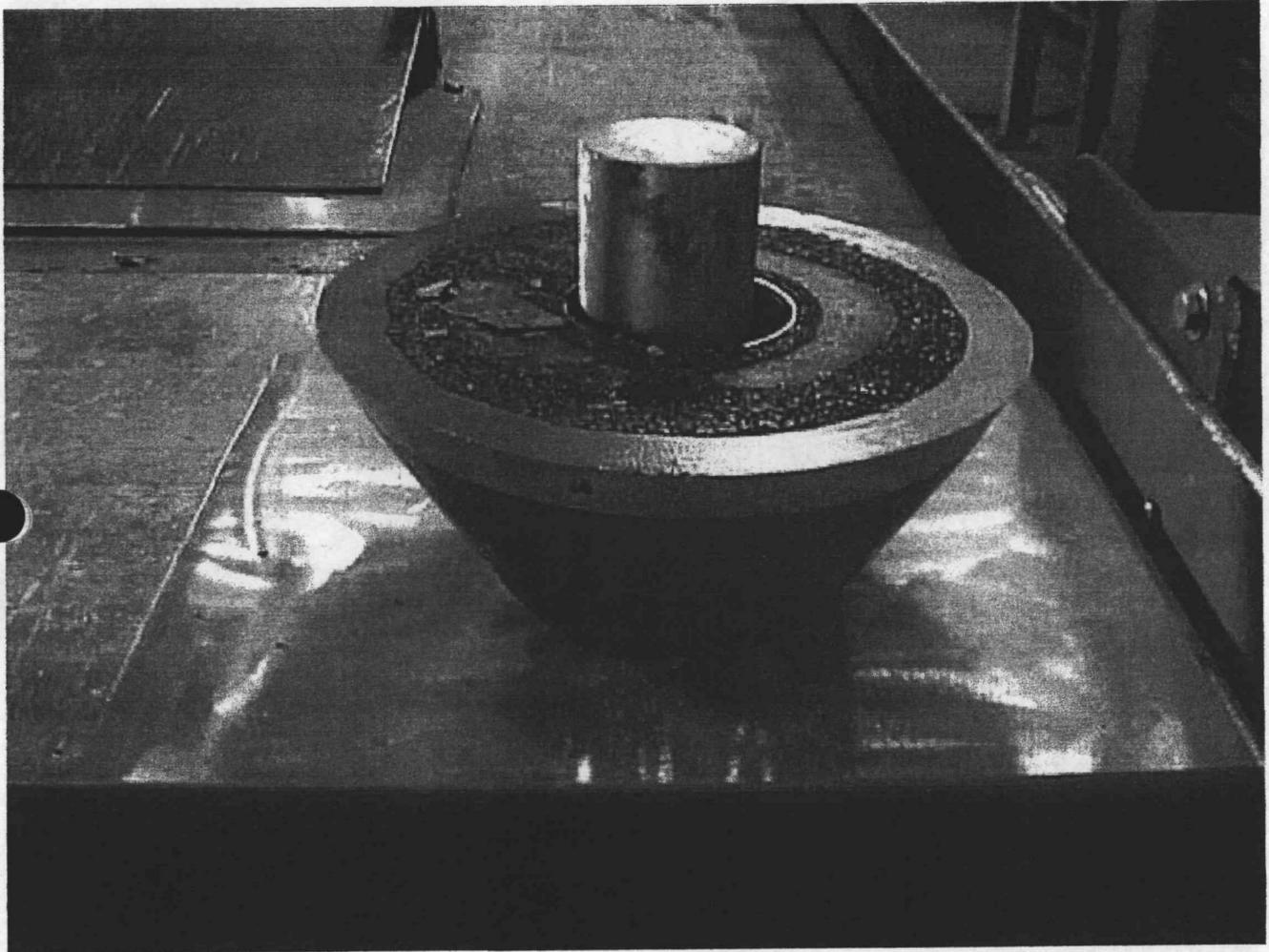


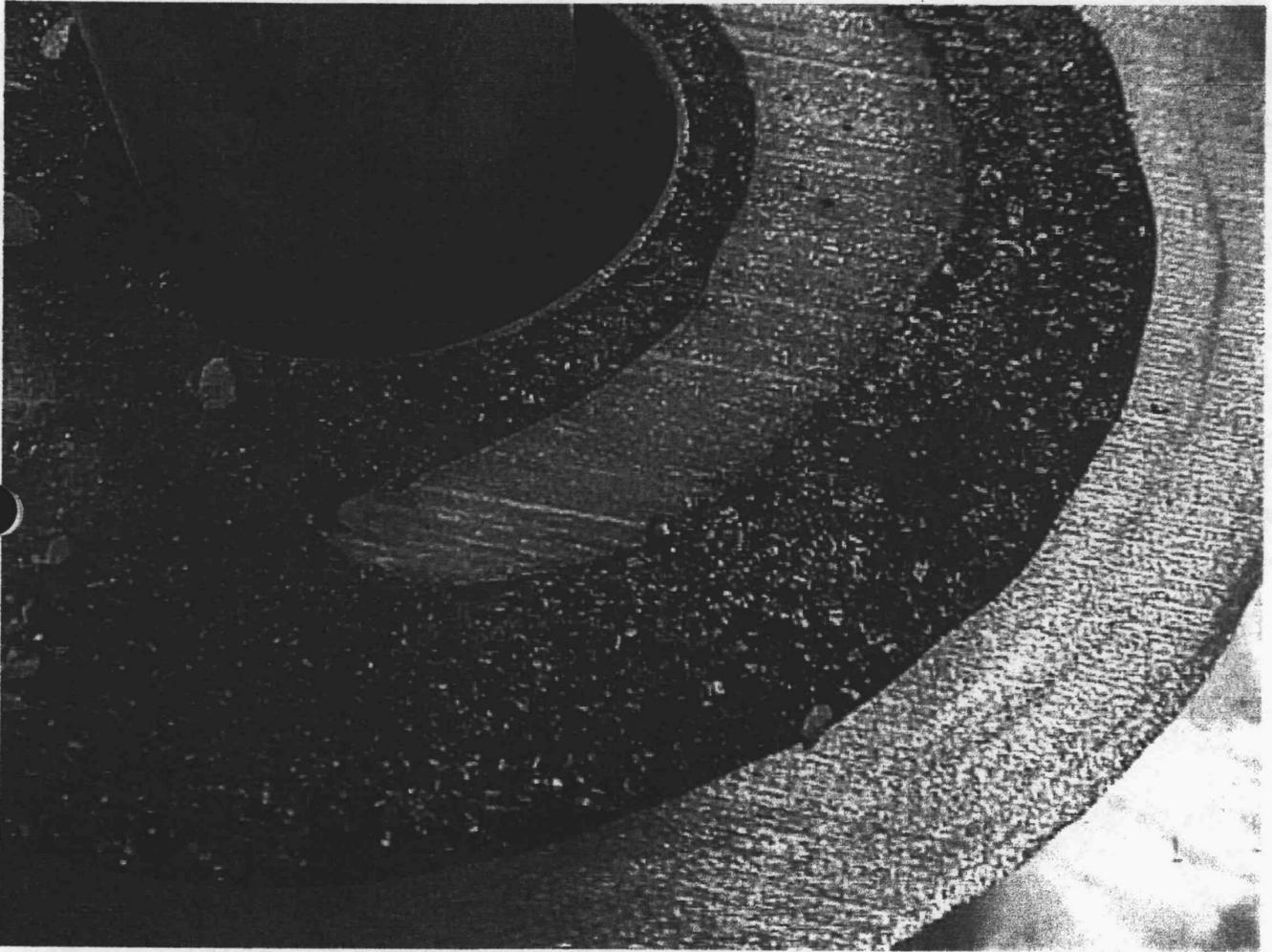














CERTIFICATE OF COMPLIANCE

PAGE 1		No. of pages 1			
1. Purchaser Alliant Ammunition & Powder Company Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05		3. Government Contract No. DAAA0903D0014	
		4. Mailed to (Delegator) Mr. Mark Alderman			
5. From (Supplier) Spreewerk Lübben GmbH Börnichen 99 D- 15907 Lübben Germany		6. b. Shipment number on order <input checked="" type="checkbox"/> Partial <input type="checkbox"/> Final			
		7. Certified that apart from the deviations/waivers noted in Box 14 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.			
10/5/05 Date		Signature (Supplier)		 Dr. von Wickede Name (print)	
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Package No.	12. Undelivered balance	13. Quantity received
M 3	Complete final check and stowing of Steam hood system including all additional tools and tools for press out center section without hydraulic press.	1 set	N/A	N/A	N/A
14. REMARKS / OBSERVATIONS <div style="text-align: right; margin-top: 20px;"> <i>Invoice # 2005 320 M3 dated 5 Oct 05.</i> </div>					

CERTIFICATE OF COMPLIANCE

PAGE 1			No. of pages 1			
1. Purchaser Alliant Ammunition & Powder Company Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05				
		3. Government Contract No. DAAA0903D0014				
4. Mailed to (Delegator) Mr. Mark Alderman		6. a. Shipped to (Consignee) TEDI Technik Service GmbH Rhenstr. 66 D- 12681 Berlin Germany				
5. From (Supplier) Spreewerk Lübben GmbH Börnichen 99 D- 15907 Lübben Germany		6. b. Shipment number on order <input checked="" type="checkbox"/> Partial <input type="checkbox"/> Final				
7. Certified that apart from the deviations/waivers noted in Box 14 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.						
9/13/05 Date		 Signature (Supplier)			Dr. von Wickede Name (print)	
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Package No.	12. Undelivered balance	13. Quantity received	
M 1	Complete disassembly of lathe, hydraulic press for breaking bombs and hydraulic press for center section	1 set	N/A	N/A	N/A	
14. REMARKS / OBSERVATIONS						

CERTIFICATE OF COMPLIANCE

PAGE 1	No. of pages 1
1. Purchaser Alliant Ammunition & Powder Company Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA0903D0014
4. Mailed to (Delegator) Mr. Mark Alderman	6. a. Shipped to (Consignee) In House
5. From (Supplier) Spreewerk Lübben GmbH Börnichen 99 D- 15907 Lübben Germany	6. b. Shipment number on order <input checked="" type="checkbox"/> Partial <input type="checkbox"/> Final

7. Certified that apart from the deviations/waivers noted in Box 14 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

9/21/05
Date

Signature (Supplier)


 Dr. von Wickede
 Name (print)

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Package No.	12. Undelivered balance	13. Quantity received
M 2	Complete preparation for final check of Steam hood system including all additional tools and tools for press out center section without hydraulic press.	1 set	N/A	N/A	N/A

14. REMARKS / OBSERVATIONS

Invoice 2005320 MZ
29 Sept 05



Spezialtechnik Dresden GmbH
Postfach 800101, 01101 Dresden

draft

Advance Payment Guaranty

We have been informed that our 100% subsidiary, Industriepark Spreewerk Lübben GmbH, hereinafter called the SELLER, has received from you – the Alliant Ammunition and Powder Comp.–the BUYER- an order / your order No ¹ of concerning the

Delaboration of bombs and Tritonal recovering

in the total value of US\$.

In accordance with the payment conditions agreed upon, an advance payment amounting 1,000,000.00 US\$ will be made by you to the SELLER against Advance Payment Guaranty in the same sum in your favour.

In consideration of the aforesaid, we, Spezialtechnik Dresden GmbH, hereby irrevocably undertake to repay to you any amount up to the maximum of

1,000,000.00 US\$
(say: one million US-Dollars)

upon receipt of your demand in writing wherein you declare simultaneously that the SELLER failed to render the above services. This guaranty will be reduced by the value of the services rendered by the SELLER and proved by submitting us copies of the relative invoice(s).

Our liability under this guaranty will expire upon fulfilling the services obligation mentioned above, however, on, at the latest, by which date any claim under it must have been received by us,

This guaranty has to be returned to us as soon as it is no longer required, or its validity has expired – whichever is earlier.

Spezialtechnik Dresden GmbH

¹ Delete the inapplicable alternative



SPEZIALTECHNIK

Spezialtechnik Dresden GmbH
Postfach 800101, 01101 Dresden

Dr. Eichhorn Dr. Petzold

Spezialtechnik Dresden GmbH
Sitz: Zum Windkanal 21, 01109 Dresden · Postadresse: Postfach 800101, 01101 Dresden
Telefon: +49 (0) 351 886-5000 · Fax: +49 (0) 351 886-5443
E-Mail: info@spezialtechnik.de · Internet: www.spezialtechnik.de
Aufsichtsrat: Neal Blue, Vorsitzender; Dr. Hanns Arnt Vogels, Stellvertretender Vorsitzender
Geschäftsführer: Karsten Blue, Linden Blue, Dr. Rainer Eichhorn, Dr. Wolfgang Petzold



draft

Spezialtechnik Dresden GmbH
Postfach 800101, 01101 Dresden

Advance payment and performance guaranty

We have been informed that our 100% subsidiary, Industriepark Spreewerk Lübben GmbH, hereinafter called the SELLER, has received from you – the Alliant Ammunition and Powder Comp. – an order / your order No¹ of concerning the

Delaboration of bombs and Tritonal recovering

in the value of US\$.

1. In accordance with the payment conditions agreed upon, the SELLER will receive from you an advance payment of 1,000,000.00 US\$ against presentation of a corporate refund guaranty.

The advance payment amount shall be paid gradually according to the schedule attached wherein the main steps of the order's implementation are stipulated. The gradual installments fall due for payment two weeks after each SELLER's release order. ?

In consideration of the aforesaid, we, Spezialtechnik Dresden GmbH, hereby irrevocably undertake to pay you any amount up to the maximum of

1,000,00.00 US\$
(said: one million US-Dollars)

upon receipt of your written demand stating that the SELLER has failed to comply with his obligations.

An implementation of our guaranty is, however, depending on the SELLER's receipt of the advance payment amount without reserve. The amount of this guaranty will automatically increase according to the SELLER's receipt in compliance with above-mentioned gradual installments.

2. In addition to that, according to the terms of the order, a performance guaranty is required. In this regard, the performance guaranty's amount beyond is geared to the amount of the competitor's ("MacAllister") bid lying 660,119 US\$ beyond the SELLER's bid.

¹ Delete the inapplicable alternative



Spezialtechnik Dresden GmbH
Postfach 800101, 01101 Dresden

On the instructions received from the SELLER, we, Spezialtechnik Dresden GmbH, hereby irrevocably undertake to pay you a maximum amount of

660,119.00 US\$

(said: six hundred sixty thousand one hundred and nineteen US-Dollars)

upon receipt of your written demand stating that the SELLER has failed to comply with his obligations.

3. The amount of this advance payment and performance guaranty will automatically be reduced in line with the quantity of Tritonal recovered. The gradual reduction is undertaken at the rate of 0,395 US\$ per pound of Tritonal recovered.

This guaranty expires upon return of this instrument to us, and on at the latest, if and so far as we have not received a claim hereunder in writing on or before the date. This document is to be returned to us when the guaranty is no longer required or its validity has expired – whichever is earlier.

Spezialtechnik Dresden GmbH

Dr. Eichhorn

Dr. Petzold

Spezialtechnik Dresden GmbH
Sitz: Zum Windkanal 21, 01109 Dresden · Postadresse: Postfach 800101, 01101 Dresden
Telefon: +49 (0) 351 888-5000 · Fax: +49 (0) 351 888-5443
E-Mail: info@spezialtechnik.de · Internet: www.spezialtechnik.de
Aufsichtsrat: Neal Blue, Vorsitzender, Dr. Hanns Arnt Vogels, Stellvertretender Vorsitzender
Geschäftsführer: Karsten Blue, Linden Blue, Dr. Rainer Eichhorn, Dr. Wolfgang Petzold
Handelsregister: Amtsgericht Dresden, HRB 6721 · Ust-Id-Nr.: DE152437431

▲ Ein Unternehmen



ReATK.xls

Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

INVOICE : 2005321

September 14, 2005

**Customer-No.
16114 0**

**Contract No:
DAAA0903D0014
PO: AT1544**

**our Sign
Härtl**

Kto: 400020 KSt.Nr. 811 KTr.Nr. 7300

**VAT- Ident.No.: DE 1388 58 395
Taxpayer Identificati 202/118/02996**

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
1	Tritonal per PD 397596 Performance Guarantee Fee	33.750,00	33.750,00
Total all Items		0% VAT	Total Amount
USD		USD	USD
33.750,00		0,00	33.750,00

Payable within 30 days upon receipt of the invoice

Commerzbank AG

**bank account 800 306 300
bank code 850 400 00
swift-code CABAEFF
IBAN: DE 3185040000800306300**

Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt HRB 0151 · Ust-Id.-Nr.: DE138858395

 Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001



ReATK-M1.xls

Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

INVOICE : 2005320 M1

September 14, 2005

**Customer-No.
16114 0**

**Contract No:
DAAA0903D0014
PO: AT1544**

**our Sign
Härtl**

**Kto: KSt.Nr. KTr.Nr.
400020 811 7300**

**VAT-Ident.No.: DE 1388 58 395
Taxpayer Identificati 202/118/02988**

Quantity	Description	Unit Price (USD)	Sum per Item (USD)
4.501.858 (lbs.)	Recovered Tritonal-Advance Payment according the constituted Milestone Payment Plan: M1 Complete disassembly of lathe , hydraulic press for breaking bombs and hydraulic press for center section	1.022.700,00	16.800,00
Total all Items		0% VAT	Total Amount
USD 16.800,00		USD 0,00.	USD 16.800,00

Payable within 30 days upon receipt of the invoice

Commerzbank AG

bank account (b) (6)
bank code 850 400 00
swift-code CABAEFF
IBAN: DE 31850400000800306300

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Uden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt HRR 0151 · Ust-Id-Nr.: DE 138 858 395

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001



ReATK-M1.xls

Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Request for Advance Payment

INVOICE : 2005320 M4

October 18, 2005

**Customer-No.
16114 0**

**Contract No:
DAAA0903D0014
PO: AT1544**

**our Sign
Härtl**

**KSt.Nr. 811
KTr.Nr. 7300**

**VAT-Ident.No.: DE 1388 58 395
Taxpayer Identificati 202/118/02996**

Quantity	Description	Unit Price (USD)	Sum per Item (USD)
4.501.858 (lbs.)	Recovered Tritonal-Advance Payment according the constituted Milestone Payment Plan: M4 Complete shipment of Steamhood system including all additional tools and toos for press out center section without hydraulic press	1.022.700,00	11.600,00
Total all Items		0% VAT	Total Amount
USD		USD	USD
11.600,00		0,00	11.600,00

Payable within 30 days upon receipt of the invoice

Commerzbank AG.

**bank account (b) (6)
bank code 850 400 00
swift-code CABAEFF
IBAN: DE 3185040000800306300**

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt HRB 0151 · Ust-Id.-Nr.: DE 138 858 395

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001

ACL ATLANTIC CONTAINER LINE AB (publ)

DATAFREIGHT RECEIPT Non-Negotiable

SHIPPER/EXPORTER (COMPLETE NAME AND ADDRESS) REF #: INDUSTRIEPARK SPREEWERK LUEBBEN GMBH BOERNICHEN 99		DATAFREIGHT RECEIPT No. : ACLU 5M29S2388642	
15907 LUEBBEN		BOOKING NO.: S238864200	
CONSIGNEE (COMPLETE NAME AND ADDRESS) REF #: EXPLO SYSTEMS LLC 1702 FOURTH STREET		FORWARDER REF #: FORWARDER FMC No.: MANNERS SPEDITIONS GMBH BARCASTRASSE 8	
MINDEN LA 71055		22087 HAMBURG	
NOTIFY (COMPLETE NAME AND ADDRESS)		ALSO NOTIFY -	
PRE-CARRIAGE BY *		PLACE OF RECEIPT *	
CARRIER (VESSEL / VOYAGE) P&O NEDLLOYD MARSEILLE 5M29		PORT OF LOADING Hamburg	
PORT OF DISCHARGE Houston		PLACE OF DELIVERY * MINDEN LA US	
		LOADING PIER / TERMINAL HAMBURG, C.T.A.	
		TYPE OF MOVE House House	
		ROUTING & INSTRUCTIONS -	

Marks & Nos. Container/Seal No.	Particulars Declared by Shipper Quantity and Description of Goods	Gross Weight in Kilos	Measurement in Cubic Meters
	1 X 20 Dry Cargo		
CLOU2519399 SN#S123435	17 PACKAGES HEAT EXCHANGER EQUIPMENT HS-CODE:84195090	4.500 KGS	20,000 CM
No Marks			
	1 X 20 Dry Cargo		
GCNU1035200 SN#S123426	10 PACKAGES HEAT EXCHANGER EQUIPMENT HS-CODE:84195090	4.500 KGS	20,000 CM
No Marks			
TOTALS	27 PIECE(S)	9.000 KGS	40,000 CM
Quote/Service Contract No : Q2-128102-00/1			
CONTINUED ON NEXT PAGE			

Shipper Declared Value \$ _____ Subject to Extra Freight as Per Tariff and Clause 6 of the ACL B/L		Freight Payable At/By Hamburg	LADEN ON BOARD DATE 15-10-2005	No. of Original Bill of Lading : 0
Freight Charges	Basis	Prepaid	Collect	CurrCode
RECEIVED by ACL for shipment, between the above mentioned ports, pre- and on-carriage where stated above to be arranged by ACL, subject to all the terms and conditions of the ACL bill of lading, which are incorporated herein by reference.				

ACL ATLANTIC CONTAINER LINE AB (publ)

DATAFREIGHT RECEIPT Non-Negotiable

SHIPPER/EXPORTER (COMPLETE NAME AND ADDRESS) REF # INDUSTRIEPARK SPREWERK LUEBBEN GMBH BOERNICHEN 99		DATAFREIGHT RECEIPT No. : ACLU 5M29S2388642	
15907 LUEBBEN		BOOKING NO.: S238864200	
CONSIGNEE (COMPLETE NAME AND ADDRESS) REF #: EXPLO SYSTEMS LLC 1702 FOURTH STREET		FORWARDER REF #: FORWARDER FMC No.: MANNERS SPEDITIONS GMBH BARCASTRASSE 8	
MINDEN LA 71055		22087 HAMBURG	
NOTIFY (COMPLETE NAME AND ADDRESS)		ALSO NOTIFY -	
PRE-CARRIAGE BY *		PLACE OF RECEIPT *	
CARRIER (VESSEL / VOYAGE) P&O NEDLLOYD MARSEILLE 5M29		PORT OF LOADING Hamburg	
PORT OF DISCHARGE Houston		LOADING PIER / TERMINAL HAMBURG, C.T.A.	
PLACE OF DELIVERY * MINDEN LA US		TYPE OF MOVE House House	
ROUTING & INSTRUCTIONS -			

Marks & Nos. Container/Seal No.	Particulars Declared by Shipper Quantity and Description of Goods	Gross Weight in Kilos	Measurement in Cubic Meters
---------------------------------	---	-----------------------	-----------------------------

SHIPPED ON BOARD SHIPPERS LOAD STOW AND COUNT FCL/FCL FREIGHT PREPAID EXPRESS B/L			
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Shipper Declared Value \$ _____ Subject to Extra Freight as Per Tariff and Clause 6 of the ACL B/L	Freight Payable At/By Hamburg	LADEN ON BOARD DATE 15-10-2005	No. of Original Bill of Lading : 0
---	----------------------------------	-----------------------------------	------------------------------------

Freight Charges	Basis	Prepaid	Collect	CurrCode

RECEIVED by ACL for shipment, between the above mentioned ports, pre- and on-carriage where stated above to be arranged by ACL, subject to all the terms and conditions of the ACL bill of lading, which are incorporated herein by reference.



ReATK-M6.xls

Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Request for Advance Payment

INVOICE : 2005320 M6

November 14, 2005

**Customer-No.
16114 0**

**Contract No:
DAAA0903D0014
PO: AT1544**

**our Sign
Härtl**

KSLNr. 811 KTr.Nr. 7300

**VAT- Ident.No.: DE 1388 68 395
Taxpayer Identificati 202/118/02996**

Quantity	Description	Unit Price (USD)	Sum per Item (USD)
4.501.858 (lbs.)	Recovered Tritonal-Advance Payment according the constituted Milestone Payment Plan: M6 Complete installation of Steamhood system including all additional tools at Minden	1.022.700,00	37.200,00
Total all Items		0% VAT	Total Amount
USD		USD	USD
37.200,00		0,00	37.200,00

Payable within 30 days upon receipt of the invoice

Commerzbank AG

bank account (b) (6)
bank code 850 400 00
sw/ft-code CABAEFF
IBAN: DE 3185040000800306300

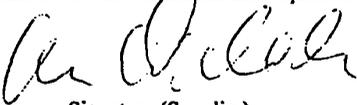
Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

✦ Ein Unternehmen der Spezialtechnik-Gruppe Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach ErBv
Fachbetrieb nach WHG



CERTIFICATE OF COMPLIANCE

PAGE 1			No. of pages 1		
1. Purchaser Alliant Ammunition & Powder Company Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05			
		3. Government Contract No. DAAA0903D0014			
4. Mailed to (Delegator) Mr. Mark Alderman		6. a. Shipped to (Consignee) Explo Systems Inc.			
5. From (Supplier) Spreewerk Lübben GmbH Börnichen 99 D- 15907 Lübben Germany		6. b. Shipment number on order <input checked="" type="checkbox"/> Partial <input type="checkbox"/> Final			
7. Certified that apart from the deviations/waivers noted in Box 14 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
11/14/05 Date		 Signature (Supplier)		Dr. von Wickede Name (print)	
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Package No.	12. Undelivered balance	13. Quantity received
M 6	Complete installation of Steam hood system including all additional tools at Minden.	1 set	N/A	N/A	N/A
14. REMARKS / OBSERVATIONS					



ReATK-M1.xls

Industriepark Spreewerk LÜbben GmbH
Postfach 15 65, 15905 LÜbben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Request for Advance Payment

INVOICE : 2005320 M5

November 18, 2005

**Customer-No.
16114 0**

**Contract No:
DAAA0903D0014
PO: AT1544**

**our Sign
Härtl**

**KSt.Nr. 811
KTr.Nr. 7300**

**VAT-Ident.No.: DE 1388 58 395
Taxpayer Identificat: 202/118/02998**

Quantity	Description	Unit Price (USD)	Sum per Item (USD)
4.501.858 (lbs.)	Recovered Tritonal-Advance Payment according the constituted Milestone Payment Plan: M5 Complete preparation for final check of lathe, hydraulic press for breaking bombs and hydraulic press for center section	1.022.700,00	214.500,00
Total all Items		0% VAT	Total Amount
USD 214.500,00		USD 0,00	USD 214.500,00

Commerzbank AG

**bank account (b) (6)
bank code 850 400 00
swift-code CABADFFF
IBAN: DE 31850400000800308300**

Payable within 30 days upon receipt of the invoice

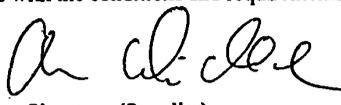
Industriepark Spreewerk LÜbben GmbH
Sitz: Bömichen 99, 15907 LÜbben · Postadresse: Postfach 15 65, 15905 LÜbben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, RI 7 180 800 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFBV
Euthetic nach VDA



CERTIFICATE OF COMPLIANCE

PAGE 1			No. of pages 1		
1. Purchaser Alliant Ammunition & Powder Company Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05			
4. Mailed to (Delegator) Mr. Mark Alderman		3. Government Contract No. DAAA0903D0014			
5. From (Supplier) Sprewerk Löbben GmbH Börnichen 99 D- 15907 Löbben Germany		6. a. Shipped to (Consignee) In house			
6. b. Shipment number on order <input checked="" type="checkbox"/> Partial <input type="checkbox"/> Final		7. Certified that apart from the deviations/waivers noted in Box 14 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.			
11/18/05 Date		 Signature (Supplier)		Dr. von Wickede Name (print)	
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Package No.	12. Undelivered balance	13. Quantity received
M 5	Complete preparation for final check of lathe, hydraulic press for breaking bombs and hydraulic press for center section.	1 set	N/A	N/A	N/A
14. REMARKS / OBSERVATIONS					



ReATK-M8.xls

File

Industriepark Spreewerk LÜbben GmbH
Postfach 15 65, D-15905 LÜbben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Request for Advance Payment

INVOICE : 2005320 M8

November 24, 2005

Customer-No.
16114 0

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811
KTr.Nr. 7300

VAT-Ident.No.: DE 1388 58 395
Taxpayer Ident.No.: 202/118/02898

Quantity	Description	Unit Price (USD)	Sum per Item (USD)
4.501.858 (lbs.)	Recovered Tritonal-Advance Payment according the constituted Milestone Payment Plan: M8 Complete final check and stowing for equipment associated with milestones M5 and M7	1.022.700,00	80.400,00
Total all Items		0% VAT	Total Amount
USD		USD	USD
80.400,00		0,00	80.400,00

Payable within 30 days upon receipt of the invoice

Commerzbank AG
bank account (b) (6)
bank code 850 400 00
swift-code CABAEFF
IBAN: DE 31850400000300306300

Industriepark Spreewerk LÜbben GmbH
Sitz: Börmichen 99, D-15907 LÜbben · Postadresse: Postfach 15 65, D-15905 LÜbben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-4 70
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Rudolf Melnhardt, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138858395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 180 200 200 00

Ein Unternehmen der Spezialtechnik-Gruppe Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EfbV



CERTIFICATE OF COMPLIANCE

PAGE 1		No. of pages 1	
1. Purchaser Alliant Ammunition & Powder Company Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05	
		3. Government Contract No. DAAA0903D0014	
4. Mailed to (Delegator) Mr. Mark Alderman		6. a. Shipped to (Consignee) In House	
5. From (Supplier) Spreewerk LÖbben GmbH Börnichen 99 D- 15907 LÖbben Germany		6. b. Shipment number on order <input checked="" type="checkbox"/> Partial <input type="checkbox"/> Final	

7. Certified that apart from the deviations/waivers noted in Box 14 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

11/24/05
Date

Dr. von Wickede
Signature (Supplier)

Dr. von Wickede
Name (print)

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Package No.	12. Undelivered balance	13. Quantity received
M 8.	Complete final check and stowing for equipment associated with milestones M5 and M7.	1 set	N/A	N/A	N/A

14. REMARKS / OBSERVATIONS



ReATK-M9.xls

Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Request for Advance Payment

INVOICE : 2005320 M9

November 30, 2005

Customer-No.
18114 0

Contract No:
DAAA0803D0014
PO: AT1544

our Sign
Härtl

KSL.Nr. 811 KTr.Nr. 7300

VAT-Ident.No.: DE 1388 58 395
Taxpayer Identificat 202/116/02996

Quantity	Description	Unit Price (USD)	Sum per Item (USD)
4.501.858 (lbs.)	Recovered Tritonal-Advance Payment according the constituted Milstone Payment Plan: M9 Complete shipment of equipment associated with milstones M5 and M7	1.022.700,00	69.000,00
Total all Items		0% VAT	Total Amount
USD 69.000,00	<i>SP. 544, 04 €</i>	USD 0,00	USD 69.000,00

Payable within 30 days upon receipt of the invoice

18114, 1786

Commerzbank AG

bank account **(b) (6)**
bank code 850 400 00
swift-code CABAEFF
IBAN: DE 3185040000800306300

Industriepark Spreewerk Lützen GmbH
Sitz: Börmichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Cert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

✦ Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EfoV
Fachbetrieb nach WHG



ReATK-M7.xls



Industriepark Sprewerk LÜbben GmbH
Postfach 15 65, 15905 LÜbben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Request for Advance Payment

INVOICE : 2005320 M7

December 13, 2005

Customer-No.
16114 0

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811
KTr.Nr. 7300

VAT- Ident.No.: DE 1388 58 395
Taxpayer Identificati 202/118/02896

Quantity	Description	Unit Price (USD)	Sum per Item (USD)
4.501.858 (lbs.)	Recovered Tritonal-Advance Payment according the constituted Milestone Payment Plan: M7 (1) Complete prove-out test of Steamhood system, (2) complete preparation for final check of equipment for nick-cutting, breaking and stretching including all additional tools without lathe and (3) complete preparation from final check of hydraulic press and transport material for bomb sections for breaking to melt-out	1.022.700,00	109.500,00
Total all Items		0% VAT	Total Amount
USD 109.500,00		USD 0,00	USD 109.500,00

Payable within 30 days upon receipt of the invoice

Commerzbank AG

bank account (b) (6)
bank code 850 400 00
swift-code CABAEFF
IBAN: DE 3185040000800306300

Industriepark Sprewerk LÜbben GmbH
Sitz: Börmichen 99, 15907 LÜbben · Postadresse: Postfach 15 65, 15905 LÜbben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@sprewerk.de · Internet: www.sprewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EfnV
Fertigbetrieb nach WLR

CERTIFICATE OF COMPLIANCE

PAGE 1	No. of pages 1
1. Purchaser Alliant Ammunition & Powder Company Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA0903D0014
4. Mailed to (Delegator) Mr. Mark Alderman	6. a. Shipped to (Consignee) Explo System Inc.
5. From (Supplier) Spreewerk LÜbben GmbH Börnichen 99 D- 15807 LÜbben Germany	6. b. Shipment number on order
	<input checked="" type="checkbox"/> Partial <input type="checkbox"/> Final

7. Certified that apart from the deviations/waivers noted in Box 14 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

12/13/05
Date


Signature (Supplier)

Dr. von Wickede
Name (print)

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Package No.	12. Undelivered balance	13. Quantity received
M7	(1) Complete prove-out test of Steamhood system. (2) Complete preparation for final check of equipment for nick- cutting, breaking and stretching including all additional tools without lathe and (3) complete preparation from final check of hydraulic press and transport material for bomb sections for breaking to melt-out	1 set	N/A	N/A	N/A

14. REMARKS / OBSERVATIONS



ReATK-M11.xls

Industriepark Spreewerk LÜbben GmbH
Postfach 15 65, 15905 LÜbben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Request for Advance Payment

INVOICE : 2005320 M11

December 22, 2005

Customer-Nö.
16114 0

Contract No:
DAAA0803D0014
PO: AT1544

our Sign
Harti

KSLNr. 811 KTr.Nr. 7300

VAT-IdentNo. DE 1388 59 395
Taxpayer Identification code 202/118/02898

Quantity	Description	Unit Price (USD)	Sum per Item (USD)
4.501.858 (lbs.)	Recovered Tritonal-Advance Payment according the constituted Milestone Payment Plan: M11 Complete testing of installed equipment associated with M4, M5 and M7 at Minden	1.022.700,00	80.500,00
Total all Items			Total Amount
USD		USD	USD:
80.500,00		0,00	80.500,00

Payable within 30 days upon receipt of the invoice

Commerzbank AG
bank account **(b) (6)**
bank code 850 400 00
swift-code CABAEFF
IBAN: DE 31850400000800306300

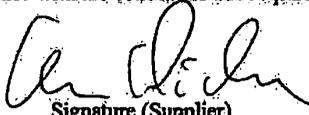
Industriepark Spreewerk LÜbben GmbH
Sitz: Börnichen 99, 15907 LÜbben · Postadresse: Postfach 15 65, 15905 LÜbben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

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Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFoV
Fachbetrieb nach WHG



CERTIFICATE OF COMPLIANCE

PAGE 1			No. of pages 1		
1. Purchaser Alliant Ammunition & Powder Company Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05			
4. Mailed to (Delegator) Mr. Mark Alderman		3. Government Contract No. DAAA0903D0014			
5. From (Supplier) Spreewerk Lubben GmbH Bömichen 99 D- 15907 Lubben Germany		6. a. Shipped to (Consignee) Explo System Inc.			
6. b. Shipment number on order <input type="checkbox"/> Partial <input checked="" type="checkbox"/> Final		7. Certified that apart from the deviations/waivers noted in Box 14 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.			
12/21/05 Date		 Signature (Supplier)		Dr. von Wickede Name (print)	
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Package No.	12. Undelivered balance	13. Quantity received
M11	Complete testing installed of equipment associated with M4, M5 and M7 at Minden.	1 set	N/A	N/A	N/A
14. REMARKS / OBSERVATIONS					



ReATK-M10.xls

Handwritten mark

Industriepark Spreewerk LÜbben GmbH
Postfach 15 65, 15905 LÜbben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Request for Advance Payment

INVOICE : 2005320 M10

December 22, 2005

**Customer-No.
16114 0**

**Contract No:
DAAA0903D0014
PO: AT1544**

**our Sign
Härtl**

**KSt.Nr.
011 KTr.Nr.
7300**

**VAT-Ident.No.: DE-1388 68 395
Taxpayer Identification
code 20211802996**

Quantity	Description	Unit Price (USD)	Sum per Item (USD)
4.501.858 (lbs.)	Recovered Tritonal-Advance Payment according the constituted Milstone Payment Plan: M10 Complete installation of equipment associated with M4, M5 and M7 at Minden	1.022.700,00	223.200,00
Total all Items		0% VAT	Total Amount
USD 223.200,00		USD 0,00	USD 223.200,00

Payable within 30 days upon receipt of the invoice

Commerzbank AG

**bank account (b) (6)
bank code 850 400 00
swift-code CABADEFF
IBAN: DE 3185040000800306300**

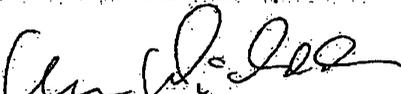
Industriepark Spreewerk LÜbben GmbH
Sitz: Börnichen 99, 15907 LÜbben · Postadresse: Postfach 15 65, 15905 LÜbben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 595
Bankverbindung: Commerzbank AG, BIC: BFSW3333, Konto: 800 306 300

Ein Unternehmen
der Spezia!technik-Gruppe
Dresden

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Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach FFIV



CERTIFICATE OF COMPLIANCE

PAGE 1			No. of pages 1		
1. Purchaser Alliant Ammunition & Powder Company Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100			2. Order reference and date AT1544 8/24/05		
4. Mailed to (Delegator) Mr. Mark Alderman			3. Government Contract No. DAAA0903D0014		
5. From (Supplier) Spreewerk Lübben GmbH Börnichen 99 D- 15907 Lübben Germany			6. a. Shipped to (Consignee) Exlo System Inc.		
			6. b. Shipment number on order <input checked="" type="checkbox"/> Partial <input type="checkbox"/> Final		
7. Certified that apart from the deviations/waivers noted in Box 14 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
12/20/05 Date:		 Signature (Supplier)		Dr. von Wickede Name (print)	
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Package No.	12. Undelivered balance	13. Quantity received
M10	Complete installation of equipment associated with M4, M5 and M7 at Minden.	1 set	N/A	N/A	N/A
14. REMARKS / OBSERVATIONS					



VOID

Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

Cancel

Invoice-No: 2006013

Date: January 17, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)									
26.494	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the demilitarization certification and the production report)	\$0,7000	\$18.545,80									
	<table border="0"> <tr> <td></td> <td>(Date)</td> <td>(quantity)</td> </tr> <tr> <td>Demilitarization Certification</td> <td>13. Jan 06</td> <td>26.494,0</td> </tr> <tr> <td>Demil Report #1</td> <td></td> <td></td> </tr> </table>		(Date)	(quantity)	Demilitarization Certification	13. Jan 06	26.494,0	Demil Report #1				
	(Date)	(quantity)										
Demilitarization Certification	13. Jan 06	26.494,0										
Demil Report #1												
26.494	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$6.018,72									

Total all Items	VAT	Total Amount
\$12.527,08	0%	\$12.527,08

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lützen GmbH
Sitz: Bömichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-370
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Pezzold, Dr. Zely von Witzke
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 8151, Ust-Id-Nr.: DE 2355299
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 900
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 300 000

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden
Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFVB
Fachbetrieb nach WHG

RE_ATK-M117.xls-Lief_ATK

I hereby certify that the subject of this invoice has been properly effected. This invoice is approved for payment.

BY



Bomb Line Production Report

Date: January 12, 2006

This report reflects the complete demil process for M117 Bombs as of Thursday, Jan. 12, 2006. A total of 74 Bombs have been processed. A total of 26,494 lbs of Tritonal have been processed from these bombs. The bomb numbers are:

857-858; 835-836; 893-894; 661-662; 895-896; 823-824; 859-860; 783-784; 871-872; 807-808; 861-862; 811-812; 873-874; 803-804; 863-864; 781-782; 853-854; 879-880; 669-670; 887-888; 867-868; 877-878; 883-884; 885-886; 891-892; 875-876; 869-870; 881-882; 795-796; 829-830; 831-832; 865-866; 833-834; 839-840; 819-820; 837-838; 779-880

Demil Report #1

**Explo Systems Representative
Kenneth Lampkin
Quality Assurance Mgr.
January 13, 2006**



DEMILITARIZATION OF M117 BOMB CERTIFICATION

Explo Systems, Inc.
1702 Fourth Street
Minden, Louisiana 71055

I certify Explo Systems, Inc, has successfully completed the following effort.

Description:-Demilitarization of all material from government furnished M117 bombs in the amount of 74 bombs resulting in 25,160 lbs of scrap metal and 26,494 lbs of Tritonal. Title/Ownership of 25,160 lbs of scrap metal shall transfer to Explo Systems. The 26,494 lbs of Tritonal shall be further processed into TNT and residual aluminum.

A handwritten signature in black ink, appearing to read "K. J. Temple", written over a horizontal line.

Explo Systems, Inc. Representative

13 Jun 06

Date

Concurrence is given for successfully completing the above effort.

A handwritten signature in black ink, appearing to read "D. R. Smith", written over a horizontal line.

DCMA Representative

13 Jun 06

Date

Demil #1



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

74

Invoice-No: 2006013

Date: January 17, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02896

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
26.494	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the demilitarization certification and the production report)	\$0,7000	\$18.545,80
	Demilitarization Certification (Date) (quantity) 13. Jan 06 26.494,0		
	Demil Report #1		
26.494	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$6.018,72

Total all Items	VAT	Total Amount
\$12.527,08	0%	\$12.527,08

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lützen GmbH
Sitz: Börmichen 99, 15907 Lützen - Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 - Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de - Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 - Ust-Id-Nr.: DE 158 955 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 000
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 555 00

Ein Unternehmen der Spezialtechnik-Gruppe Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFbV
Fachbetrieb nach VHG

RE_ATK-M117.xls-Lief_ATK



Bomb Line Production Report

Date: January 12, 2006

This report reflects the complete demil process for M117 Bombs as of Thursday, Jan. 12, 2006. A total of 74 Bombs have been processed. A total of 26,494 lbs of Tritonal have been processed from these bombs. The bomb numbers are:

857-858; 835-836; 893-894; 661-662; 895-896; 823-824; 859-860; 783-784; 871-872; 807-808; 861-862; 811-812; 873-874; 803-804; 863-864; 781-782; 853-854; 879-880; 669-670; 887-888; 867-868; 877-878; 883-884; 885-886; 891-892; 875-876; 869-870; 881-882; 795-796; 829-830; 831-832; 865-866; 833-834; 839-840; 819-820; 837-838; 779-880

Demil Report #1

**Explo Systems Representative
Kenneth Lampkin
Quality Assurance Mgr.
January 13, 2006**



DEMILITARIZATION OF M117 BOMB CERTIFICATION

Explo Systems, Inc.
1702 Fourth Street
Minden, Louisiana 71055

I certify Explo Systems, Inc, has successfully completed the following effort.

Description:-Demilitarization of all material from government furnished M117 bombs in the amount of 74 bombs resulting in 25,160 lbs of scrap metal and 26,494 lbs of Tritonal. Title/Ownership of 25,160 lbs of scrap metal shall transfer to Explo Systems. The 26,494 lbs of Tritonal shall be further processed into TNT and residual aluminum.

A handwritten signature in black ink, appearing to read "K. J. J...".

Explo Systems, Inc. Representative

13 Jun 06

Date

Concurrence is given for successfully completing the above effort.

A handwritten signature in black ink, appearing to read "D. R. S...".

DCMA Representative

13 Jun 06

Date

Demil #1



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

572

Invoice-No: 2006033

Date: January 31, 2006

Customer-No:
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign:
Härtl

KSt.Nr. 811
KTr.Nr. 7300
Kto: 400020

VAT-Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
201.252	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 1 Jan. 31, 2006 201.252,0	\$0,7000	\$140.876,40
201.252	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$45.718,99

Total all Items	VAT	Total Amount
\$95.157,41	0%	\$95.157,41

Payable within 30 days upon receipt of the invoice : 79.621,99 €

Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blum, Dr. Wolfgang Petzold, Dr. Gert von Wickepe
Handelsregister: Kreisgericht Cottbus-Stadt, HRB D151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Kto: 600 306 300
Dresdner Bank AG, BLZ 180 200 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach Ekv
Fachbetrieb nach WHG



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

306

Invoice-No: 2006043

Date: February 14, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härl

KSt.Nr. 811
KTr.Nr. 7300
Kto: 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
113.526	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 2 Febr. 10, 2006 113.526,0	\$0,7000	\$79.468,20
113.526	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.790,03

Total all Items	VAT	Total Amount
\$53.678,17	0%	\$53.678,17

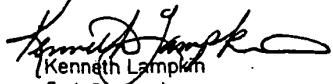
Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 405 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

✦ Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach Efbv
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1	No. of pages 4				
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05				
	3. Government Contract No. DAAA09-03-D-0014				
4. Mailed to (Delegatee) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-				
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 113,526 lbs Final 4,501,858 lbs				
<p>7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.</p> <p>Date 10 Feb 2006</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  DAVID SMITH Managing Director </div> <div style="text-align: center;">  Kenneth Lamplin Explo Systems Inc. Quality Assurance Manager </div> </div>					
8. Contract Item No.	9. Stock Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 305 Bomb M117A3	<u>113,526 lbs</u>		4,187,080 lbs	201,252 lbs
	Bomb N°				
	COP-109-2	600 lbs	176/222	2	
	COP-109-8	10,438 lbs	17/18/21/22/31/37/ 38/39/40/55/56/69/ 70/75/76/83/84/87/ 88/91/92/93/94/97/ 68/101/102/105/ 106/117/118/152	32	
	COP-112-1	318 bs	24	1	
	COP-112-3	3,851 lbs	659b/660b/665b/6 86b/14/27/23/29/ 30/33/34/41/42/53/ 54/ 57/58/59/60/165/ 166/167/168/202/ 213/214/223/224/	28 (63)	

COP-112-4	3,658 lbs	441b/442b/447b/448b/449b/451b/452b/417/418/514/526	11
COP-114-1	1,948 lbs	982b/984b/20/66/67/86	6
COP-114-2	1,174 lbs	150/263/284/325	4
COP-114-3	11,313 lbs	15/16/35/36/45/46/47/48/65/68/71/72/89/90/95/96/99/100/103/104/111/112/119/120/125/126/130/135/136/147/148/229/230/439b/477/478	36
COP-114-5	4,228 lbs	937b/938b/947b/973b/974b/977b/978b/171/172/193/194/241/242	13
COP-115-1	1,624 lbs	925b/113/114/327/328	5
COP-115-7	324 lbs	324	1
CCP-116-1	900 lbs	123/124/365	3
CCP-116-2	1,734 lbs	49/131/132/145/146	5
COP-116-3	10,394 lbs	141/142/157/158/159/160/173/174/179/180/183/184/209/210/211/212/254/255/256/284/323/324/343/344/367/369/375/376/381/382/384/390/458	33
COP-118-2	5,790 lbs	971b/972b/979b/980b/26/77/78/79/80/139/140/161/162/231/232/308/517/518	18
CCP-119-10	628 lbs	207/208	2
COP-119-2	6,119 lbs	924b/419/108/132/107/108/127/128/133/134/143/144/469/470/474/757/758	19
COP-119-3	3,203 lbs	11/12/109/110/191/203/204/347/348/463	10
COP-119-4	10,245 lbs	661b/662b/925b/	3

169

			936b/639b/940b/ 941b/942b/163/ 164/195/196/197/ 198/218/233/234/ 243/244/249/250/ 257/259/262/271/ 272/475/476/521/ 522	27	
	CCP-119-6	641 lbs	169/170	2	
	CCP-119-7	5,444 lbs	443b/444b/445b/ 446b/929b/930b/ 181/182/199/200/ 205/206/215/216/ 219/220/422.	17	
	CCP-121-1	904 lbs	933b/413/414	3	
	CCP-121-3	8,072 lbs	921b/43/44/73/74 115/116/121/122/ 154/155/156/225/ 226/275/276/338/ 380/393/394/405/ 406/416/418/437	25	
	Mixed from above Lot #	14,976 lbs	Mixed from Steam Hoods	(24)	

Continue list on separate pages if necessary.

14. Delegator's Reference	Date: <i>9 Feb 00</i>
15. Government Quality Assurance Service (Delegatee)	16. Date: <i>9 Feb</i> Signature: <i>[Signature]</i> Name (print):
17. REMARKS / OBSERVATIONS <i>verified contents.</i> <hr/> <i>[Signature]</i>	



Industriepark Spreewerk LÜbben GmbH
Postfach 15 65, 15905 LÜbben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

288

Invoice-No: 2006044

Date: February 17, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
104.134	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 3 Febr. 16, 2006 104.134,0	\$0,7000	\$72.893,80
104.134	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$23.656,42

Total all Items	VAT	Total Amount
\$49.237,38	0%	\$0,00
		\$49.237,38

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk LÜbben GmbH
Sitz: Bömichen 99, 15907 LÜbben · Postadresse: Postfach 15 65, 15905 LÜbben
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E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE138858395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner-Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

✦ Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN-EN ISO 9001
Zertifiziert nach DIN-EN ISO 14001
Zertifiziert nach EfbV
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

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	3. Government Contract No. DAAA09-03-D-0014				
4. Mailed to (Delegate) Industriepark Spreewerk Löbben GmbH Börnichen 99 15907 Löbben -Germany-	6. a. Shipped to (Consignee) Exlo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-				
5. From (Supplier) Exlo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 104,134 lbs Final 4,501,858 lbs				
7. Certified that apart from the deviations waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
Date 17 Feb 2006 <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  DAVID FINCHER Managing Director </div> <div style="text-align: center;">  Kenneth Lampkin Exlo Systems Inc. Quality Assurance Manager </div> </div>					
8. Contract Item No.	9. Stock Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 290 Bomb M117A3	<u>104,134 lbs</u>		4,082,946 lbs	314,778 lbs
	Bomb N°				
	COP-107-7	575 LBS	889B/890B		
	COP-108-2	322 LBS	175		
	COP-108-5	1262 LBS	791B/792B/847B/848B		
	COP-108-6	2021 LBS	775B/776B/843B/844B/809B/910B		
	COP-108-7	641 LBS	779B/780B		
	COP-108-8	663 LBS	715B/716B		

COP-111-3	820 LBS	901B/902B
COP-112-1	9881 LBS	757B/758B/763B/ 784B/812B/813B/ 823B/824B/834B/ 837B/838B/871B/ 872B/881B/882B/ 887B/888B/843B/ 944B/949B/950B/ 969B/970B/985B/ 986B/995B/996B/ 996B/1000B/ 1007B/1008B/ 1028B
COP-112-2	283 LBS	23
COP-112-3	311 LBS	166
COP-112-4	910 LBS	455B/456B/450B
COP-114-1	2246 LBS	771B/772B/895B/ 896B/981B/982B/ 85
COP-114-3	4085 LBS	440B/718B/720B/ 863B/864B/815B/ 916B/778/445/448/ 518/520
COP-114-5	3204 LBS	809B/810B/815B 816B/948B/1018B /1020B/1023B/ 1024B/186
COP-115-1	3580 LBS	749B/750B/755B/ 756B/761B/762B/ 793B/784B/891B/ 892B/926B
COP-116-3	3175 LBS	813B/814B/873B/ 874B/903B/904B/ 911B/912B/345 348
COP-116-2	11,481 LBS	728B/730B/789B/ 800B/817B/818B/ 818B/820B/830B/ 853B/854B/857B/ 858B/859B/860B/ 881B/882B/885B/ 886B/887B/888B/ 891B/892B/897B/ 898B/1001B/ 1002B/1003B/ 1004B/1008B/ 1010B/1013B/ 1014B/1017B/ 1018B/524

COP-118-4	11,930	713B/714B/727B/ 728B/789B/770B/ 773B/774B/777B/ 778B/781B/782B/ 785B/787B/788B/ 797B/798B/831B/ 832B/859B/860B/ 865B/866B/867B/ 868B/875B/876B 877B/878B/885B/ 886B/897B/898B/ 893B/894B/1029B/ 1030B
COP-119-1	662 LBS	805B/806B
COP-118-2	8908 LBS	767B/768B/783B/ 785B/796B/801B/ 802B/807B/808B/ 841B/842B/849B/ 850B/851B/852B/ 857B/858B/889B/ 890B/913B/914B/ 823B/851B/852B/ 25/467/473/569/ 570/585
COP-119-3	594 LBS	827B/828B
COP-119-4	7386 LBS	711B/712B/731B/ 732B/743B/744B/ 753B/754B/803B/ 845B/846B/863B/ 884B/1005B/ 1006B/1011B/ 1012B/1015B/ 1016B/1021B/ 1022B/1031B/ 1032B
COP-118-5	5899 LBS	855B/856B/879B/ 880B/893B/894B/ 896B/800B/908B/ 917B/918B/921B/ 922B/927B/928B/ 1027B/1028B/153
COP-118-7	1827 LBS	759B/760B/427/ 428/434
COP-121-1	6395 LBS	723B/724B/825B/ 826B/861B/862B/ 869B/870B/905B/ 906B/919B/920B/ 934B/945B/946B/ 955B/956B/987B/ 988B/885

	COP-121-3	3483 LBS	789B/790B/821B/ 822B/839B/840B/ 853B/854B/883B/ 884B/892B		
	Mixed from above Lot #	11,680 LBS	Mixed from Steam Hoods		

Continue list on separate pages if necessary

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegator) <i>ORR</i> <i>P&M</i>	16. Date: <i>10/2/06</i> Signature: <i>[Signature]</i> Name (print):
17. REMARKS / OBSERVATIONS <i>Verify quantities</i> <i>[Signature]</i>	



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

424

Invoice-No: 2006045

Date: February 28, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.:

DE 1388 58 395

Taxpayer identification code

202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
158.226	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 4 Febr. 28, 2006 158.226,0	\$0,7000	\$110.758,20
158.226	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$35.944,65

Total all Items	VAT	Total Amount
\$74.813,55	0%	\$74.813,55

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 39, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 55 46 29-0 · Fax: +49 (0) 55 46 29-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Ulfert Bus, Dr. Wolfgang Petzold, Dr. Gert von Wicke
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138858395
Bankverbindung: Commerzbank AG, BLZ 250 400 00, Konto: 200 306 500
Dresdner Bank AG, BLZ 250 200 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
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COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 5			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05			
		3. Government Contract No. DAAA09-03-D-0014			
4. Mailed to (Delegator) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 158,226 Final 4,501,858 lbs			
7. Certified that apart from the deviations waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
Date 28 Feb 2006		 DAVID FINCHER Managing Director			
		 Kenneth Lampkin Explo Systems Inc. Quality Assurance Manager			
8. Contract Item No.	9. Stock Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 125 Bomb M117A3	<u>158,226 lbs</u>		3,924,720 lbs	418,912 lbs
	Bomb N°				
	COP-109-1	642 LBS	381B/382B	2	
	COP-109-2	786 LBS	221/647B/648B	3	
	COP-109-5	2,290 LBS	544B/549B/550B/ 571B/572B/581B/ 582B	7	
	COP-109-6	1,911 LBS	471B/472B/569B/ 570B/579B/580B	6	
	COP-109-7	1,887 LBS	217B/218B/751B/ 752B/875B/978B	6	
				24	

COP-109-8	14,720 LBS	315B/316B/343B/ 344B/347B/348B/ 349B/350B/363B/ 364B/467B/469B/ 470B/473B/474B/ 481B/482B/483B/ 484B/488B/490B/ 495B/496B/489B/ 501B/502B/503B/ 504B/507B/508B/ 511B/512B/525B/ 526B/565B/566B/ 651B/652B/653B/ 654B/675B/676B/ 680B/32/151	45
COP-112-1	1,966 LBS	425B/426B/717B/ 718B/833B/1025B	6
COP-112-3	8,103 LBS	351B/352B/357B/ 358B/359B/360B/ 361B/362B/367B/ 487B/488B/509B/ 510B/555B/556B/ 557B/558B/643B/ 644B/681B/692B/ 683B/684B/687B/ 688B/13	26
COP-112-4	10,320 LBS	399B/400B/403B/ 404B/405B/406B 409B/411B/412B/ 415B/416B/431B/ 432B/437B/438B/ 457B/458B/477B/ 478B/479B/480B/ 519B/520B/523B/ 524B/548B/559B/ 560B/597B/598B/ 601B/602B	32
COP-114-1	838 LBS	981B/19	2
COP-114-2	953 LBS	149/285	2
COP-114-3	5,632 LBS	321B/322B/373B/ 374B/388B/390B/ 435B/436B/459B/ 460B/483B/484B/ 709B/710B/129/ 240/579/580	18
COP-114-5	1,653 LBS	603B/604B/677B/ 678B/187	5
			136

COP-115-1	11,448 LBS	209B/300B/417B/ 418B/419B/420B/ 423B/424B/465B/ 466B/475B/476B/ 513B/514B/599B/ 600B/605B/606B/ 607B/608B/609B/ 610B/611B/612B/ 615B/616B/621B/ 623B/624B/627B/ 628B/645B/646B/ 739B/740B/	35
COP-115-2	638 LBS	515B/516B	2
COP-115-7	331 LBS	333	1
COP-116-2	323 LBS	50	1
COP-116-3	9,115 LBS	326B/365B/366B/ 369B/370B/377B/ 378B/493B/494B/ 497B/498B/641B/ 642B/649B/650B/ 665B/666B/733B/ 734B/737B/738B/ 741B/742B/457/ 528/591/609/810/ 621/622	30
COP-116-2	2,560 LBS	241B/242B/835B/ 836B/705/706/719/ 720	8
COP-118-4	4,338 LBS	688B/690B/691B/ 692B/693B/694B/ 695B/696B/697B/ 698B/699B/700B/ 705B/706B	14
COP-119-2	2,827 LBS	505B/506B/583B/ 584B/655B/656B/ 3/731/732/759	10
COP-119-3	605 LBS	323B/324B	2
COP-119-4	4,420 LBS	355B/356B/375B/ 367B/568B/701B/ 702B/725B/726B/ 766B/217/236/268/ 717	14

117

	COP-119-5	3,682 LBS	585B/586B/593B/ 594B/703B/704B/ 721B/722B/745B/ 746B/747B/748B/ 807B	13	
	COP-119-6	2,012 LBS	531B/532B/541B/ 542B/703/704	6	
	COP-119-7	10,763 LBS	345B/346B/353B/ 354B/376B/380B/ 383B/385B/388B/ 391B/392B/393B/ 394B/397B/398B/ 401B/402B/407B/ 408B/413B/414B/ 453B/454B/461B/ 462B/485B/486B/ 491B/492B/539B/ 540B/545B/546B/	33	
	COP-121-1	17,813 LBS	303B/304B/305B/ 306B/307B/308B/ 311B/312B/313B/ 314B/317B/318B/ 427B/428B/429B/ 430B/433B/434B/ 517B/518B/521B/ 522B/529B/530B/ 533B/534B/536B/ 575B/576B/577B/ 578B/591B/592B/ 595B/598B/633B/ 629B/630B/634B/ 635B/636B/639B/ 640B/669B/670B/ 707B/708B/735B/ 736B/335/336/509/ 633/634/ 527B/528B	56	
	COP-121-3	12,766 LBS	371B/372B/421B/ 422B/551B/552B/ 553B/554B/561B/ 562B/563B/564B/ 573B/574B/587B/ 588B/589B/590B/ 613B/614B/617B/ 618B/619B/620B/ 626B/632B/637B/ 638B/657B/658B/ 663B/664B/667B/ 668B/671B/672B/ 673B/674B/768	39	
	Mixed from above Lot #	23,084 LBS	Mixed from Steam Hoods	147	

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegator) D. PRATT DCMA-QAR	16. Date: 27 Feb 06 Signature: <i>D. Pratt</i> Name (print): D. PRATT
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

305

Invoice-No: 2006068

Date: March 13, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
114.499	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 5 March 10, 2006 114.499,0	\$0,7000	\$80.149,30
114.499	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$26.011,07

Total all Items	VAT	Total Amount
\$54.138,23	0%	\$54.138,23

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 29-0 · Fax: +49 (0) 35 46 29-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blum, Dr. Wolfgang Petzold, Dr. Carl von Wicke
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 958 395
Bankverbindung: Commerzbank AG, BIC: 25040033, Konto: 300 806 800
Dresdner Bank AG, BIC: 25040033, Konto: 06 200 555 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach Efbv
Pilotbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

PAGE: 1		No. of pages: 5			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date: AT1544 8/24/05 3. Government Contract No. DAAA09-03-D-0014			
4. Mailed to (Delegatee) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order: 1 Partial 1 114,499 LBS Final 4,501,858 lbs			
7. Certified that apart from the deviations/waives noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order. Date: 20 MAR 2006 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  DAVID FINCHER Managing Director </div> <div style="text-align: center;">  Kenneth Larpkin Explo Systems Inc. Quality Assurance Manager </div> </div>					
8. Contract Item No.	9. Stock Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 305 Bomb M117A3 Bomb N°	<u>114,499 lbs</u>		3,810,221 lbs	577,138 lbs
	COP-105-9	665 LBS	285B/286B	2	
	COP-109-5	4,238 LBS	181B/182B/180B/ 191B/192B/215B/ 216B/237B/238B/ 146B/293B/294B/ 543B	13	
	COP-109-7	710 LBS	195B/196B	2	
				17	

COP-109-8	8,458 LBS	91B/92B/129B/ 130B/137B/138B/ 143B/144B/159B/ 160B/201B/202B/ 227B/228B/263B/ 264B/333B/334B/ 335B/336B/337B/ 338B/341B/342B/ 468B/679B	26
COP-112-1	2,570 LBS	49B/50B/93B/94B/ 99B/100B/209B/ 210B/	8
COP-112-2	681 LBS	79B/80B	2
COP-112-3	3,908 LBS	78B/147B/148B/ 258B/261B/262B/ 267B/268B/319B/ 339B/340B/368B/	12
COP-112-4	1,679 LBS	197B/198B/203B/ 204B/547B	5
COP-114-3	6,533 LBS	185B/186B/187B/ 188B/189B/190B/ 193B/194B/207B/ 208B/211B/212B/ 221B/222B/327B/ 328B/329B/330B/ 331B/332B/	20
COP-114-5	1,873 LBS	73B/74B/89B/90B/ 253B/254B/	6
COP-115-1	8,726 LBS	57B/58B/149B/ 150B/153B/154B/ 163B/164B/173B/ 174B/223B/224B/ 249B/250B/251B/ 252B/273B/274B/ 275B/276B/279B/ 280B/283B/284B/ 289B/290B/622B	27
			106

COP-116-1	1,931 LBS	107B/108B/109B/ 110B/205B/206B/	6
COP-116-3	30,656 LBS	2B/3B/4B/5B/6B/ 7B/8B/9B/10B/ 11B/12B/13B/14B/ 15B/16B/17B/18B/ 25B/27B/29B/30B/ 33B/34B/39B/40B/ 41B/42B/43B/44B/ 47B/48B/55B/56B/ 59B/60B/61B/62B/ 63B/64B/65B/66B/ 71B/72B/75B/76B/ 81B/82B/84B/85B/ 86B/87B/88B/95B/ 96B/101B/102B/ 130B/104B/105B/ 106B/111B/112B/ 113B/115B/116B/ 117B/118B/119B/ 120B/121B/122B/ 123B/124B/125B/ 126B/127B/128B/ 131B/132B/145B/ 146B/161B/162B/ 163B/168B/171B/ 172B/175B/176B/ 225B/226B/247B/ 248B/277B/278B/ 325B/	96
COP-119-3	1,311 LBS	239B/240B/269B/ 270B	4
COP-119-4	1,279 LBS	22B/97B/98B/ 376B	4
COP-119-5	639 LBS	271B/272B	2
COP-119-6	578 LBS	151B/152B	2
COP-119-7	3,042 LBS	67B/68B/199B/ 200B/384B/386B/ 387B/395B/396B	9
COP-121-1	5,194 LBS	23B/24B/133B/ 134B/165B/166B/ 169B/170B/177B/ 178B/231B/232B/ 233B/234B/243B/ 244B/259B/260B/ 265B/266B/281B/ 282B/295B/296B/ 301B/302B/537B/ 538B/535B	29 152

	COP-121-3	9,211 LBS	135B/136B/139B/ 140B/141B/142B/ 156B/157B/158B/ 183B/184B/213B/ 214B/219B/220B/ 229B/230B/235B/ 236B/287B/288B/ 281B/292B/297B/ 298B/309B/310B/6 31B	28	
	COP-121-8	627 LBS	69B/70B	2	
	Mixed from above Lot #	15,992 LBS	Mixed from Steam Hoods	(30)	

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: 10 MAR 06 Signature: <i>[Handwritten Signature]</i> Name (print):
17. REMARKS / OBSERVATIONS <i>Work Product of GHA only.</i>	



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

252

Invoice-No: 2006075

Date: March 27, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.:

DE 1388 58 395

Taxpayer identification code

202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
100.346	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 7 March 24, 2006 100.346,0	\$0,7000	\$70.242,20
100.346	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$22.795,89

Total all Items	VAT	Total Amount
\$47.446,31	0%	\$0,00
		\$47.446,31

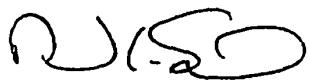
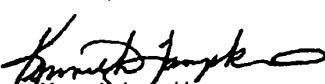
Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 600 00, Konto: 06 200 533 00

✦ Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFbV
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 4			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date: AT1544 8/24/05			
		3. Government Contract No. DAAA09-03-D-0014			
4. Mailed to (Delegate) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 100,346 LBS Final 4,501,858 lbs			
<p>7. Certified that apart from the deviations waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.</p> <p>24 MAR 2006 Date</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  DAVID SMITH Managing Director </div> <div style="text-align: center;">  Kenneth Lampkin Explo Systems Inc. Quality Assurance Manager </div> </div>					
8. Contract Item No.	9. Stock Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered - balance	13. Quantity received
002	Tritonal recovered from 252 Bomb M117A3 Bomb N°	<u>100,346 lbs</u>		3,598,802 lbs	802,710 lbs
	COP-109-2	632 LBS	837D/838D	2	
	COP-109-5	1,317 LBS	773D/774D/885D/866D	4	
	COP-109-6	305 LBS	778D	1	
	COP-109-7	633 LBS	789D/790D	2	
				(9)	

COP-109-8	8,607 LBS	500B/553D/554D/ 585D/586D/631D/ 632D/639D/640D/ 651D/652D/663D/ 705D/706D/707D/ 708D/741D/742D/ 743D/748D/750D/ 755D/758D/800D/ 810D/869D/875D/ 876D/804D	29
COP-112-3	3,941 LBS	605D/606D/619D/ 620D/723D/724D/ 793D/794D/811D/ 835D/836D/844D	12
COP-112-4	301 LBS	410B	1
COP-114-1	5,474 LBS	681D/662D/671D/ 673D/674D/675D/ 676D/677D/678D/ 679D/680D/703D/ 704D/715D/717D/ 718D/732D	17
COP-114-2	1,298 LBS	665D/666D/731D/ 732D	4
COP-114-3	652 LBS	701D/702D	2
COP-114-5	2,555 LBS	523D/533D/534D/ 566D/657D/658D/ 659D/660D	8
COP-115-1	5,684 LBS	655D/656D/689D/ 690D/695D/696D/ 698D/699D/700D/ 733D/734D/745D/ 746D/759D/760D/ 808D/661D	17
COP-116-3	12,334 LBS	477D/478D/530D/ 539D/540D/577D/ 578D/579D/580D/ 581D/582D/585D/ 598D/603D/604D/ 611D/612D/615D/ 616D/625D/626D/ 627D/628D/633D/ 634D/635D/636D/ 645D/646D/647D	30 120

	COP-116-3 (CONT)		648D/737D/738D 783D/784D/785D 787D/788D	8	
	COP-118-2	3,897 LBS	543D/544D/548D/ 550D/551D/552D/ 555D/556D/558D/ 560D/561D/562D	12	
	COP-119-2	4,188 LBS	575D/576D/613D/ 614D/641D/642D/ 643D/644D/653D/ 654D/753D/754D/ 765D	13	
	COP-119-3	1,773 LBS	713D/714D/791D/ 792D	4	
	COP-119-4	7,188 LBS	510D/583D/584D/ 589D/570D/571D/ 572D/573D/574D/ 587D/588D/589D/ 590D/601D/602D/ 621D/622D/648D/ 650D/787D/853D/ 854D	22	
	COP-119-7	3,148 LBS	525D/526D/535D/ 536D/541D/542D/ 587D/588D/617D/ 618D	10	
	COP-121-1	9,571 LBS	403D/404D/507D/ 508D/518D/528D/ 531D/537D/538D/ 545D/546D/547D/ 548D/557D/558D/ 583D/584D/591D/ 592D/593D/594D/ 607D/608D/628D/ 630D/637D/638D/ 747D/748D	29	
	COP-121-3	8,246 LBS	587D/598D/599D/ 600D/609D/610D/ 663D/684D/725D/ 727D/728D/735D/ 736D/738D/740D/ 757D/758D/783D/ 784D/795D/796D/ 797D/798D/851D/ 852D	25	
	Mixed from above Lot #	17,615 LBS	LEFTOVER FROM STEAM OUT HOODS	(123)	

14. Delegate's Reference		Date:
15. Government Quality Assurance Service (Delegate)	16.	
<i>DONALD PRATT</i>	<i>23 MAR 06</i>	
	Date:	
	Signature:	<i>D. Pratt</i>
	Name (print):	<i>D. PRATT</i>
17. REMARKS / OBSERVATIONS		
<u><i>Grant of only</i></u>		



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

309

Invoice-No: 2006116

Date: April 24, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.:

DE 1388 58 395

Taxpayer identification code

202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
119.712	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 11 April 21, 2006 119.712,0	\$0,7000	\$83.798,40
119.712	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$27.195,32

Total all Items	VAT	Total Amount
\$56.603,08	0%	\$56.603,08

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht-Cottbus-Stadt, HRB 0151 · Ust-Id.-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach Efbv
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 4			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05			
		3. Government Contract No. DAAA09-03-D-0014			
4. Mailed to (Delegatee) Industriepark Spreewerk LÜbben GmbH Börnichen 99 15907 LÜbben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 119,712 LBS Final 4,501,858 lbs			
7. Certified that apart from the deviations waivers noted in Bnx 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
Date 21 APR 2006		 DAVID SMITH Managing Director			
		 Kenneth Lampkin Explo Systems Inc. Quality Assurance Manager			
8. Contract Item No.	9. Stock Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 309 Bomb M117A3 Bomb N°	<u>119,712 lbs</u>		3,146,549 LBS	1,235,597 lbs
	COP-109-5	3,164 LBS	423E/424E/541E/ 542E/627E/628E/ 696E/785E/786E/ 843E	10	
	COP-109-6	1,734 LBS	465E/466E/469E/ 470E/485	5	
	COP-109-7	1,315 LBS	535E/536E/537E/ 545E	4	
	COP-109-8	4,156 LBS	197E/198E/209E/ 210E/347E/357E/ 358E/359E/360E/ 517E/518E/771E	12	
					

COP-112-3	8,572 LBS	345E/353E/354E/ 361E/362E/363E/ 364E/365E/366E/ 367E/368E/368E/ 370E/371E/372E/ 375E/376E/385E/ 386E/390E/397E/ 401E/402E/408E/ 410E/413E/414E/ 448E/746E	18	
COP-112-4	5,840 LBS	543E/544E/547E/ 548E/551E/552E/ 553E/554E/561E/ 562E/568E/570E/ 571E/572E/577E/ 581E/582E/583E	18	
COP-114-1	2,100 LBS	521E/522E/564E/ 801E/802E/805E/ 806E	7	
COP-114-2	1,080 LBS	800E/813E/814E/	3	
COP-114-3	1,859 LBS	429E/430E/519E/ 520E/533E/811E	6	
COP-115-1	15,757 LBS	203E/204E/207E/ 208E/249E/250E/ 255E/393E/411E/ 412E/435E/436E/ 441E/442E/448E/ 450E/451E/452E/ 455E/456E/457E/ 458E/459E/460E/ 463E/464E/467E/ 468E/471E/472E/ 473E/474E/635E/ 636E/640E/643E/ 644E/657E/658E/ 659E/660E/661E/ 662E/683E/688E/ 767E/818E/920E	48	
COP-115-2	698 LBS	407E/408E	2	
COP-116-2	365 LBS	626E	1	
COP-116-3	1,660 LBS	525E/526E/527E/ 528E/652E	5	
COP-118-2	2,581 LBS	258E/259E/321E/ 323E/324E/326E/ 427E/428E	8	
COP-118-3	904 LBS	377E	1	(128)

COP-119-2	15,448 LBS	201E/202E/242E/ 245E/248E/251E/ 252E/258E/260E/ 261E/262E/263E/ 264E/265E/266E/ 273E/274E/275E/ 276E/277E/278E/ 305E/306E/319E/ 320E/328E/330E/ 331E/332E/333E/ 341E/342E/351E/ 352E/505E/598E/ 600E/633E/654E/ 641E/653E/654E/ 808E/810E/817E/ 818E/823E/824E/	48
COP-119-3	3,680 LBS	348E/355E/356E/ 381E/392E/395E/ 398E/400E/403E/ 404E/405E/	11
COP-119-4	3,321 LBS	487E/488E/499E/ 500E/511E/512E/ 531E/532E/655E/ 656E	10
COP-119-5	622 LBS	475E/478E	2
COP-119-6	556 LBS	437E/438E	2
COP-119-7	1,964 LBS	717E/720E/891E/ 892E/895E/886E	6
COP-121-1	518 LBS	267E/268E	2
COP-121-3	22,230 LBS	205E/206E/416E/ 417E/418E/419E/ 420E/421E/422E/ 425E/426E/433E/ 434E/439E/440E/ 446E/461E/482E/ 477E/478E/479E/ 480E/481E/482E/ 483E/484E/489E/ 490E/491E/492E 493E/494E/496E/ 507E/508E/513E/ 514E/529E/530E/ 628E/630E/637E/ 638E/645E/646E/ 647E/648E/650E/ 686E/691E/692E/ 757E/758E/768E/ 770E/779E/787E/ 798E/844E/897E 898E/903E/904E/ 907E/908E/915E/ 916E	57
COP-121-4	650 LBS	431E/432E	2
Mixed from above Lot #	18,342 LBS	MIXED FROM STEAM HOODS	150

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegator)	16. Date: 20 April 2006 Signature: <i>D Pratt</i> Name (print): D PRATT
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

300

Invoice-No: 2006126

Date: April 28, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.:

DE 1388 58 395

Taxpayer identification code

202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
113.042	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY)	\$0,7000	\$79.129,40
	CoC # 12		
	(Date) (quantity) April 28, 2006 113.042,0		
113.042	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.680,08

Total all Items	VAT	Total Amount
\$53.449,32	0%	\$53.449,32

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lützen GmbH
Sitz: Börsichen 39, 15307 Lützen - Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 - Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de - Internet: www.spreewerk.de
Geschäftsführer: Linden Blau, Dr. Wolfgang Petzold, Dr. Gert von Wicke
Handelsregister: Kreisgericht Cottbus-Stadt, HRE 0151 - Ust-Id-Nr.: DE 132 855 896
Bankverbindung: Commerzbank AG, BLZ 250 400 00, Konto: 800 506 500
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 353 00

Ein Unternehmen
der Sozialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach BfV
Fachbetrieb nach WfG

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1	No. of pages 4
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05 3. Government Contract No. DAAA09-03-D-0014
4. Mailed to (Delegate) Industriepark Spreewerk LÜbben GmbH Börnichen 99 15907 LÜbben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 113,042 LBS Final 4,501,858 lbs

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 28 APR 2006

David Fincher
 DAVID FINCHER
 Managing Director

Kenneth Lampkin
 Kenneth Lampkin
 Explo Systems Inc.
 Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 300 Bomb M117A3	113,042 LBS		3,033,507LBS	1,355,309 lbs
	Bomb N°				
	COP-109-1	320 LBS	04E	1	
	COP-109-2	590 LBS	5E/6E	2	
	COP-109-6	1,379 LBS	315E/316E/539E/540E	4	
	COP-109-8	5,512 LBS	165E/166E/167E/168E/193E/194E/195E/196E/231E/232E/237E/238E/239E/240E/348E/379E/380E	17	
				(24)	

COP-112-3	5,611 LBS	63E/84E/223E/ 224E/227E/228E/ 307E/308E/346E/ 373E/374E/381E/ 382E/383E/384E/ 389E/398E	17
COP-114-2	323 LBS	890E	1
COP-114-3	4,228 LBS	283E/284E/287E/ 288E/301E/302E/ 303E/304E/337E/ 338E/443E/444E/ 912E	13
COP-114-5	2,248 LBS	96E/139E/140E/ 161E/162E/179E/ 180E	7
COP-115-1	11,468 LBS	53E/67E/88E/ 121E/122E/126E/ 128E/145E/144E/ 211E/212E/213E/ 214E/243E/244E/ 256E/281E/282E/ 295E/296E/317E/ 318E/387E/388E/ 394E/863E/864E/ 865E/866E/867E/ 868E/869E/870E/ 871E/872E	35
COP-116-3	9,189 LBS	14E/35E/36E/ 37E/38E/41E/ 42E/61E/82E/ 77E/78E/88E/ 103E/104E/110E/ 135E/138E/146E/ 148E/155E/156E/ 168E/170E/173E/ 174E/188E/181E/ 192E/651E	29
COP-118-2	7,335 LBS	8E/10E/15E/ 33E/34E/40E/ 44E/47E/48E/ 131E/132E/175E/ 176E/253E/254E/ 257E/268E/270E/ 300E/322E/325E/ 327E/328E	23
COP-118-3	341 LBS	378E	1
COP-118-5	824 LBS	1E/2E/11E	3

129

COP-119-2	23,685 LBS	48E/50E/51E/ 56E/63E/64E/ 70E/80E/81E/ 92E/97E/102E/ 108E/110E/113E/ 114E/116E/128E/ 133E/134E/137E/ 138E/147E/148E/ 151E/152E/158E/ 160E/164E/163E 188E/200E/215E/ 216E/217E/218E/ 219E/220E/221E/ 222E/225E/226E/ 233E/234E/241E/ 246E/247E/271E/ 272E/276E/280E/ 283E/284E/285E/ 288E/287E/288E/ 288E/290E/281E/ 292E/309E/310E/ 311E/312E/313E/ 314E/334E/335E/ 336E/338E/340E/ 642E	73
COP-119-3	4,817 LBS	3233/3257/3E 4E/58E/68E/ 70E/88E/235E/ 236E/343E/344E/ 350E/398E/406E	15
COP-119-4	4,857 LBS	3523/3524/3535/ 3536/3611/25E/ 28E/28E/32E/ 171E/172E/185E/ 186E/615E/616E	15
COP-119-5	1,282 LBS	17E/18E/71E/ 72E	4
COP-119-6	2,011 LBS	7E/8E/49E/ 150E/153E/154E	6
COP-119-7	5,553 LBS	68E/60E/65E/ 68E/73E/74E/ 81E/82E/105E/ 177E/178E/181E/ 182E/187E/188E/ 883E/894E	17
COP-121-1	2,861 LBS	85E/88E/107E/ 128E/130E/157E/ 158E/163E/164E	9
COP-121-3	1,882 LBS	415E/631E/632E/ 679E/680E/804E	6
COP-121-4	822 LBS	229E/230E	2
Mixed from above Lot #	15,703 LBS	MIXED FROM STEAM HOODS	147

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: 27 APR 06 Signature: <i>[Handwritten Signature]</i> Name (print):
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

278

Invoice-No: 2006143

Date: May 05, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
107.836	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 13 May 05, 2006 107.836,0	\$0,7000	\$75.485,20
107.836	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$24.497,41

Total all Items	VAT	Total Amount
\$50.987,79	0%	\$50.987,79

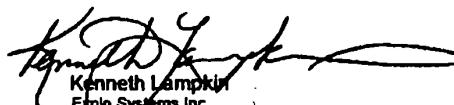
Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

✦ Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EfbV
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 4			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05			
		3. Government Contract No. DAAA09-03-D-0014			
4. Mailed to (Delegator) Industriepark Spreewerk LÜbben GmbH Bömmichen 99 15907 LÜbben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial) 107,836 LBS Final 4,501,858 lbs			
7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
5 MAY2006 Date					
DAVID FINCHER Managing Director		 Kenneth Lampkin Explo Systems Inc. Quality Assurance Manager			
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 278 Bomb M117A3 Bomb N°	107,836 LBS		2,925,671 LBS	1,468,351 lbs
	COP-109-1	346 LBS	83E	1	
	COP-109-8	3,941 LBS	3414/3415/3350/ 3351/3356/3357/ 3360/3361/3369/ 3370/3418/3418	12	
	COP-112-3	608 LBS	3366/3367	2	
	COP-114-5	323 LBS	85E	1	
	COP-115-1	889 LBS	54E/141E/142E	3	
				19	

	COP-118-3	6,883 LBS	13E/87E/99E/ 100E/180E/3324/ 3325/3326/3327/ 3340/3341/3342/ 3343/3344/3345/ 3354/3355/3358/ 3359/3364/3365/	21		
	COP-118-2	2,262 LBS	16E/18E/20E/ 38E/43E/46E/ 48E	7		
	COP-118-5	321 LBS	12E	1		
	COP-118-2	3,846 LBS	52E/55E/75E/ 76E/98E/101E/ 111E/112E/115E/ 123E/124E/127E/	12		
	COP-118-3	11,512 LBS	57E/90E/3230/ 3232/3235/3240/ 3241/3242/3243/ 3244/3245/3246/ 3247/3248/3249/ 3250/3251/3253/ 3261/3263/3264/ 3265/3274/3281/ 3318/3317/3318/ 3319/3348/3347/ 3348/3349/3352/ 3353/3382/3383/	12 24		
	COP-118-4	49,218 LBS	21E/22E/23E/ 24E/26E/27E/ 30E/31E/3371/ 3420/3421/3423/ 3424/3425/3428/ 3427/3428/3430/ 3432/3433/3434/ 3439/3440/3441/ 3442/3444/3445/ 3446/3447/3448/ 3452/3453/3454/ 3455/3456/3457/ 3458/3459/3460/ 3461/3462/3463/ 3464/3465/3466/ 3470/3472/3473/ 3475/3477/3478/ 3481/3482/3483/ 3484/3487/3488/ 3489/3480/3483/ 3494/3495/3496/ 3497/3498/3499/ 3500/3501/3502/ 3503/3505/3506/ 3507/3508/3509/ 3510/3511/3514/ 3515/3516/3517/ 3518/3519/3528/ 3521/3525/3526/ 3527/3528/3529/ 3530/3531/3532/ 3533/3534/3537/ 3538/3544/3545/ 3546/3547/3548/	102	(179)	

	COP-119-4 (CONT)		3549/3550/3551/ 3552/3557/3558/ 3559/3560/3561/ 3562/3563/3567/ 3568/3573/3575/ 3578/3577/3578/ 3579/3581/3582/ 3583/3584/3587/ 3588/3589/3590/ 3591/3593/3594/ 3597/3598/3601/ 3602/3603/3607/ 3608/3614/3615/ 3616/3617/3618/ 3619/3620/3624/ 3625/3626/3627/ 3628		
	COP-119-7	957 LBS	106E/117E/118E/	3	
	COP-121-1	303 LBS	108E	1	
	COP-500-5	8,872 LBS	3374/3380/3381/ 3382/3383/3385/ 3386/3387/3388/ 3389/3390/3391/ 3392/3393/3396/ 3397/3399/3402/ 3403/3406/3407/ 3408/3409/3410/ 3411/3412/3413	27	
	Mixed from above Lot #	17,856 LBS	MIXED FROM STEAM HOODS	(80)	

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: 5/14/2006 Signature: [Handwritten Signature] Name (print): D PRATT
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

284

Invoice-No: 2006071

Date: March 17, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
111.073	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 6 March 16, 2006 114.499,0	\$0,7000	\$77.751,10
111.073	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.232,77

Total all Items	VAT	Total Amount
\$52.518,33	0%	\$52.518,33

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lützen GmbH
Sitz: Börmichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BIC: COMDE333, IBAN: DE 25 12 05 10 10 10 10 10

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

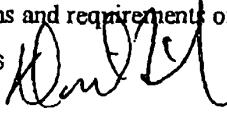
Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1	No. of pages 5
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA09-03-D-0014
4. Mailed to (Delegator) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 111,073 LBS Final 4,501,858 lbs

7. Certified that apart from the deviations waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 17 MAR 2006



DAVID FINCHER
Managing Director



Kenneth Lampkin
Explo Systems Inc.
Quality Assurance Manager

8. Contract Item No.	9. Stock Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 286 Bomb M117A3	<u>111,073 lbs</u>		3,699,148 lbs	691,637 lbs
	Bomb N°				
	COP-109-2	3,275 LBS	11C/12C/13C/14C 15C/16C/17C/18C 119C/120C	10	
	COP-109-4	1,303 LBS	89C/90C/91C/92C	4	
	COP-109-5	3,957 LBS	179B/245B/1C/2C/ 41C/42C/75C/76C/ 80C/81C/82C	11	
				(25)	

COP-109-6	1,652 LBS	769D/770D/771D/ 772D/777D.	5
COP-109-7	1,275 LBS	709D/710D/909D/ 910D	X
COP-109-8	6,331 LBS	9C/10C/49C/50C/ 127C/128C/744D/ 870D/873D/874D/ 877D/878D/897D/ 898D/899D/900D/ 903D/911D/912D/	19
COP-112-3	7,568 LBS	77B/156B/53C/ 54C/87C/88C/ 117C/118C/123C/ 124C/125C/126C/ 719D/720D/812D/ 815D/816D/833D/ 834D/843D/861D/ 862D/905D/906D	24
COP-114-1	9,023 LBS	109C/110C/669D/ 870D/872D/716D/ 817D/818D/867D/ 871D/872D/879D/ 880D/887D/888D/ 889D/890D/891D/ 892D/893D/894D/ 895D/896D/901D/ 902D/931D/932D/	27
COP-114-2	892 LBS	711D/712D	2
COP-114-3	3,031 LBS	101C/102C/111C/ 112C/667D/868D/ 863D/864D/807D/ 908D	10
COP-114-7	617 LBS	923D/924D	2
COP-115-1	8,250 LBS	33C/34C/77C/78C/ 83C/84C/87C/88C/ 97C/98C/99C/ 100C/115C/116C/ 129C/130C/131C/ 132C/133C/134C/ 805D/806D/807D/ 813D/814D/882D	26 (119)

COP-116-1	613 LBS	35B/36B	2
COP-116-3	4,193 LBS	1B/26B/28B/31B/ 32B/45B/48B/83B/ 114B/786D/883D/ 884D/885D	13
COP-118-1	1,521 LBS	839D/840D/856D/ 857D/858D	5
COP-119-2	2,050 LBS	27C/28C/63C/64C/ 849D/850D	6
COP-119-3	3,104 LBS	51B/52B/7C/8C/ 135C/136C/721D/ 722D/819D/820D	10
COP-119-4	5,277 LBS	21B/37B/38B/23C/ 24C/25C/26C/51C/ 52C/61C/62C/65C/ 66C/768D/845D/ 846D	16
COP-119-6	6,545 LBS	3C/4C/5C/6C/21C/ 22C/47C/48C/55C/ 56C/57C/58C/59C/ 60C/85C/86C/93C/ 94C/95C/98C	20
COP-119-7	7,593 LBS	37C/38C/39C/40C/ 43C/44C/45C/46C/ 913D/914D/915D/ 918D/919D/918D/ 919D/920D/921D 922D/925D/926D/ 927D/928D/929D/ 930D	24
COP-121-1	1,304 LBS	19B/20B/751D/ 752D	2

100

	COP-121-3	12,990 LBS	53B/54B/17C/18C/ 19C/20C/29C/30C/ 31C/32C/35C/36C/ 69C/70C/73C/74C/ 103C/104C/105C/ 106C/107C/108C/ 113C/114C/121C/ 122C/684D/682D/ 683D/684D/685D/ 686D/687D/688D/ 761D/762D/831D/ 832D/847D/848D	40	
	Mixed from above Lot #	18,909	LEFTOVER FROM STEAM OUT HOODS	40	

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee) <i>Donald Pratt</i>	16. Date: <i>16 MAR 06</i> Signature: <i>D Pratt</i> Name (print): <i>D. PRATT</i>
17. REMARKS / OBSERVATIONS <i>Verify quantity only</i>	

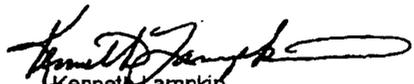
COMPANY CERTIFICATE OF CONFORMITY

PAGE	1	No. of pages	5
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date		AT1544 8/24/05
	3. Government Contract No.		DAAA09-03-D-0014
4. Mailed to (Delegatee) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-		
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order		1
		Partial	111,073 LBS Final 4,501,858 lbs

7. Certified that apart from the deviations waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 17 MAR 2006


DAVID FINCHER
Managing Director


Kenneth Lampkin
Explo Systems Inc.
Quality Assurance Manager

8. Contract Item No.	9. Stock Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 285 Bomb M117A3 Bomb N°	<u>111,073 lbs</u>		3,699,148 lbs	691,637 lbs
	COP-109-2	3,275 LBS	11C/12C/13C/14C 15C/16C/17C/22C 118C/120C		
	COP-109-4	1,303 LBS	89C/90C/91C/92C		
	COP-109-5	3,957 LBS	179B/245B/1C/2C/ 41C/42C/75C/76C/ 80C/81C/82C		

	COP-109-6	1,652 LBS	769D/770D/771D/ 772D/777D		
	COP-109-7	1,275 LBS	709D/710D/909D/ 910D		
	COP-109-8	6,331 LBS	9C/10C/49C/50C/ 127C/128C/744D/ 870D/873D/874D/ 877D/878D/897D/ 898D/899D/900D/ 903D/911D/912D/		
	COP-112-3	7,568 LBS	77B/156B/53C/ 54C/87C/68C/ 117C/118C/123C/ 124C/125C/126C/ 719D/720D/812D/ 815D/816D/833D/ 834D/843D/861D/ 862D/905D/906D		
	COP-114-1	9,023 LBS	109C/110C/669D/ 670D/672D/716D/ 817D/818D/867D/ 871D/872D/879D/ 880D/887D/888D 889D/890D/891D/ 892D/893D/894D/ 895D/896D/901D/ 902D/931D/932D/		
	COP-114-2	692 LBS	711D/712D		
	COP-114-3	3,031 LBS	101C/102C/111C/ 112C/667D/868D/ 863D/864D/907D/ 908D		
	COP-114-7	617 LBS	923D/924D		
	COP-115-1	8,250 LBS	33C/34C/77C/78C/ 83C/84C/87C/88C/ 97C/98C/99C/ 100C/115C/116C 129C/130C/131C/ 132C/133C/134C/ 805D/806D/807D/ 813D/814D/882D		

	COP-116-1	613 LBS	35B/36B		
	COP-116-3	4,193 LBS	1B/26B/28B/31E/ 32B/45B/48B/83B/ 114B/786D/883D/ 884D/885D		
	COP-118-1	1,521 LBS	839D/840D/856D/ 857D/858D		
	COP-119-2	2,050 LBS	27C/28C/63C/64C/ 849D/850D		
	COP-119-3	3,104 LBS	51B/52B/7C/8C/ 135C/136C/721D/ 722D/819D/820D		
	COP-119-4	5,277 LBS	21B/37B/38B/23C/ 24C/25C/26C/51C/ 52C/61C/62C/65C/ 66C/768D/845D/ 846D		
	COP-119-6	6,545 LBS	3C/4C/5C/6C/21C/ 22C/47C/48C/55C/ 56C/57C/58C/59C/ 60C/85C/86C/83C/ 84C/95C/98C		
	COP-119-7	7,593 LBS	37C/38C/39C/40C/ 43C/44C/45C/46C/ 913D/914D/915D/ 916D/917D/918D/ 919D/920D/921D 922D/925D/926D/ 927D/928D/929D/ 930D		
	COP-121-1	1,304 LBS	19B/20B/751D/ 752D		

	COP-121-3	12,990 LBS	53B/54B/17C/18C/ 19C/20C/29C/30C/ 31C/32C/35C/36C/ 99C/70C/73C/74C/ 103C/104C/105C/ 106C/107C/108C/ 113C/114C/121C/ 122C/681D/682D/ 683D/684D/685D/ 686D/687D/688D/ 761D/762D/831D/ 832D/847D/848D		
	Mixed from above Lot #	18,909	LEFTOVER FROM STEAM OUT HOODS		

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee) <i>Donald Pratt</i>	16. Date: <i>16 MAR 06</i> Signature: <i>D Pratt</i> Name (print): <i>D. PRATT</i>
17. REMARKS / OBSERVATIONS <i>Verify quantity only</i>	



SPREWERK

Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER
COMPANY
RADFORD ARMY AMMUNITION PLANT
P.O.BOX 1**

RADFORD, VA 24143
United States of America

March 21st, 2006

Gentlemen,

on March 17th, 2006 we sent you our invoice No. 2006071 (invoice date March 17th, 2006).

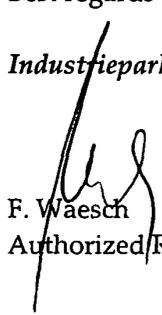
Unfortunately there is a mistake. In the line for CoC # 6 the wrong quantity has been specified. The correct quantity for counting is 111,073 lbs.

Please be so kind to substitute the enclosed invoice for the original one and to delete the old version.

If you have any further questions please do not hesitate to contact us.

Best regards

Industriepark Spreewerk Lübben GmbH


F. Waesch
Authorized Representative

Enclosure

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395



Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No: 2006071

Date: March 21, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.:
Taxpayer identification code

DE 1388 58 395
202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
111.073	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 6 March 16, 2006 111.073,0	\$0,7000	\$77.751,10
111.073	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.232,77

Total all Items	VAT	Total Amount
\$52.518,33	0%	\$52.518,33

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
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Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001

**SPREWERK**Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1****RADFORD, VA 24143****Invoice-No: 2006071****Date: March 21, 2006****Customer-No.**
D161140**Contract No:**
DAAA0903D0014
PO: AT1544**our Sign**
Härtl**KSt.Nr.**
811**KTr.Nr.**
7300**Kto:**
400020**VAT- Ident.No.:**

DE 1388 58 395

Taxpayer identification code

202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
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111.073	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.232,77

Total all Items	VAT	Total Amount
\$52.518,33	0%	\$52.518,33

Payable within 30 days upon receipt of the invoiceIndustriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
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E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden-Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BIC: 250103, Konto: 800 200 200Ein Unternehmen
der Spezialtechnik-Gruppe
DresdenZertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No: 2006071

Date: March 21, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

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DE 1388 58 395

202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
111.073	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 6 March 16, 2006 111.073,0	\$0,7000	\$77.751,10
111.073	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.232,77

Total all Items	VAT	Total Amount
\$52.518,33	0%	\$0,00
		\$52.518,33

Payable within 30 days upon receipt of the invoice

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Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BIC: 250201, IBAN: DE 25 00 00 00 00 00 00 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

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Zertifiziert nach DIN EN ISO 14001



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

Invoice-No: 2006075

Date: March 27, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.:
Taxpayer identification code

DE 1388 58 395
202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
100.346	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 7 March 24, 2006 100.346,0	\$0,7000	\$70.242,20
100.346	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$22.795,89

Total all Items	VAT	Total Amount
\$47.446,31	0%	\$47.446,31

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
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Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395

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Dresden

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Zertifiziert nach DIN EN ISO 14001



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

Invoice-No: **2006088**

300

Date: March 31, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO **AT1544**

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
112.375	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 8 March 31, 2006 112.375,0	\$0,7000	\$78.662,50
112.375	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.528,55

Total all Items	VAT	Total Amount
\$53.133,95	0%	\$53.133,95

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138858395



Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No: 2006088

Date: March 31, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.:
Taxpayer identification code

DE 1388 58 395
202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
112.375	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 8 March 31, 2006 112.375,0	\$0,7000	\$78.662,50
112.375	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.528,55

Total all Items	VAT		Total Amount
\$53.133,95	0%	\$0,00	\$53.133,95

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
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Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00 · Kto-Nr.: 800 306 300

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

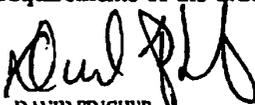
Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1	No. of pages 5
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA09-03-D-0014
4. Mailed to (Delegate) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 112,375 LBS Final 4,501,858 lbs

7. Certified that apart from the deviations waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 31 MAR 2006


DAVID FINCHER
Managing Director


Kenneth Lampkin
Explo Systems Inc.
Quality Assurance Manager

8. Contract Item No.	9. Stock Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 300 Bomb M117A3	<u>112,375 lbs</u>		3,486,427 lbs	903,056 lbs
	Bomb N°				
	COP-109-5	596 LBS	189D/200D	2	
	COP-109-8	2,183 LBS	189D/190D/201D 202D/405D/406D/ 664D	7	
	COP-112-3	336 LBS	320B	1	
				(10)	

COP-114-1	1,236 LBS	821D/822D/823D 824D	4
COP-114-2	1,276 LBS	393D/394D/397D 398D	4
COP-114-3	1,250 LBS	825D/826D/827D/ 828D	4
COP-114-5	1,839 LBS	505D/506D/511D/ 512D/524D/565D	6
COP-115-1	2,828 LBS	187D/188D/249D/ 779D/780D/801D/ 802D/803D/804D	9
COP-116-1	1,293 LBS	353D/354D/359D/ 360D	4
COP-116-3	16,889 LBS	181D/182D/407D/ 408D/409D/410D 411D/412D/413D/ 414D/415D/416D/ 417D/418D/421D/ 422D/428D/430D/ 431D/432D/433D/ 434D/435D/436D/ 439D/440D/441D/ 442D/442D/444D/ 445D/446D/447D/ 448D/451D/452D/ 453D/454D/455D/ 456D/457D/458D/ 461D/462D/468D/ 470D/473D/474D/ 482D/529D/781D/ 782D	52
COP-116-1	995 LBS	345D/346D/355D	3
COP-116-2	6,174 LBS	289D/290D/305D/ 306D/307D/308D/ 313D/314D/315D/ 316D/321D/322D/ 331D/335D/336D/ 425D/426D/833D/ 934D	19 105

COP-119-2	3,221 LBS	395D/398D/399D/ 400D/518D/520D/ 623D/624D/775D/ 776D	10
COP-119-3	678 LBS	347D/348D	2
COP-119-4	1,808 LBS	766B/193D/194D/ 509D/799D/800D	6
COP-119-5	1,272 LBS	283D/284D/381D/ 362D	4
COP-119-6	1,328 LBS	281D/282D/269D/ 270D	4
COP-119-7	2,949 LBS	197D/297D/268D/ 297D/298D/423D/ 424D/427D/428D	9
COP-121-1	40,080 LBS	273D/274D/276D/ 280D/281D/282D/ 291D/292D/295D/ 296D/301D/302D/ 304D/311D/312D/ 317D/318D/319D/ 320D/323D/324D/ 325D/326D/329D/ 330D/334D/337D/ 338D/339D/343D/ 344D/349D/350D/ 351D/352D/355D/ 356D/357D/358D/ 363D/364D/365D/ 366D/367D/368D/ 369D/370D/371D/ 372D/373D/374D/ 375D/376D/377D/ 378D/379D/380D/ 381D/382D/383D/ 384D/385D/386D/ 387D/388D/389D/ 390D/391D/392D/ 401D/402D/419D/ 420D/437D/438D/ 449D/450D/459D/ 460D/464D/465D/ 466D/467D/468D/ 471D/472D/475D/ 476D/479D/480D/ 483D/484D/485D/ 486D/487D/488D/ 489D/490D/491D/ 492D/493D/494D/ 495D/496D/497D/ 498D/499D/500D/ 502D/503D/504D/ 513D/514D/515D/ 516D/517D/521D/ 522D/527D/532D/ 835D/836D	122

157

	COP-121-3	9,186 LBS	177D/178D/183D/ 184D/181D/182D/ 195D/196D/247D/ 248D/251D/252D/ 253D/254D/255D/ 256D/257D/258D/ 259D/260D/263D/ 265D/266D/692D/ 829D/830D/841D/ 842D	28	
	Mixed from above Lot #	14,850 LBS	MIXED FROM STEAM HOODS	28	

1. Delegator's Reference		Date:
15. Government Quality Assurance Service (Delegates)	16.	
<i>D Pratt</i> DCMA GAR	Date: <i>30 MAR 00</i>	
	Signature: <i>D Pratt</i>	
	Name (print): <i>D. PRATT</i>	
17. REMARKS / OBSERVATIONS		
<u><i>GTG only</i></u> <i>DP</i>		



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

283

Invoice-No:

2006095

Date: April 07, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
110.745	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 9 April 07,2006 110.745,0	\$0,7000	\$77.521,50
110.745	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.158,26

Total all Items	VAT	Total Amount
\$52.363,24	0%	\$52.363,24

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
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E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138858395

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001

**SPREWERK**Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1****RADFORD, VA 24143****Invoice-No: 2006095****Date: April 07, 2006****Customer-No.**
D161140**Contract No:**
DAAA0903D0014
PO: AT1544**our Sign**
Härtl**KSt.Nr.**
811**KTr.Nr.**
7300**Kto:**
400020**VAT- Ident.No.:**

Taxpayer identification code

DE 1388 58 395

202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
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110.745	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.158,26

Total all Items	VAT	Total Amount
\$52.363,24	0%	\$52.363,24

Payable within 30 days upon receipt of the invoiceIndustriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
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E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395Ein Unternehmen
der Spezialtechnik-Gruppe
DresdenZertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 4	
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date: AT1544 8/24/05	
		3. Government Contract No. DAAA09-03-D-0014	
4. Mailed to (Delegator) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-	
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 110,745 LBS Final 4,501,858 lbs	

7. Certified that apart from the deviations waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 7 APR 2006

 DAVID SMITH
 Managing Director


 Kenneth Lampkin
 Explo Systems Inc.
 Quality Assurance Manager

8. Contract Item No.	9. Stock Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 283 Bomb M117A3	<u>110,745 lbs</u>		3,375,682 lbs	1,015,431 lbs
	Bomb N°				
	COP-109-2	1,276 LBS	157D/158D/879E/880E	4	
	COP-109-5	1,329 LBS	889E/890E/929E/930E	4	
	COP-109-6	657 LBS	95D/96D	2	
	COP-109-8	4,921 LBS	143D/144D/145D/146D/155D/156D/163D/164D/207D/208D/881E/862E/867E/887E/888E	15 (25)	

COP-112-1	652 LBS	47D/48D	2
COP-112-3	8,433 LBS	167D/168D/173D/ 174D/175D/176D/ 203D/204D/225D/ 226D/235D/236D/ 243D/244D/245D 246D/871E/873E/ 874E/881E/883E/ 884E/927E/928E/ 941E/942E	26
COP-114-2	1,315 LBS	67D/68D/459D/ 160D	4
COP-114-3	3,921 LBS	49D/50D/69D/ 70D/149D/150D/ 229D/230D/233D/ 234D/241D/242D	12
COP-115-1	6,235 LBS	137D/138D/139D/ 140D/151D/152D/ 179D/180D/185D/ 186D/205D/206D/ 211D/212D/213D/ 214D/250D/825E 926E	19
COP-116-1	657 LBS	875E/876E	2
COP-116-3	21,483 LBS	1D/2D/3D/ 4D/5D/6D/ 7D/8D/13D/ 14D/17D/18D/ 21D/22D/29D/ 33D/34D/37D/ 38D/39D/40D/ 41D/42D/45D/ 46D/51D/52D/ 55D/56D/73D/ 74D/75D/78D/ 79D/80D/83D/ 84D/87D/88D/ 89D/90D/97D/ 98D/99D/100D/ 101D/102D/105D/ 106D/107D/108D/ 109D/110D/112D/ 115D/116D/117D/ 118D/125D/126D/ 127D/128D/131D/ 132D/147D/148D/ 481D	67 132

	COP-118-2	2,287 LBS	61D/62D/277D/ 278D/332D/341D/ 342D	7	
	COP-119-2	4,497 LBS	15D/16D/81D/ 82D/85D/86D/ 119D/120D/121D/ 122D/153D/154D/ 171D/172D	14	
	COP-119-3	2,475 LBS	35D/36D/103D/ 104D/209D/210D/ 217D/218D	8	
	COP-119-4	8,330 LBS	11D/12D/19D/ 20D/23D/24D/ 27D/28D/53D/ 54D/113D/114D/ 123D/124D/129D/ 130D/133D/134D/ 135D/138D/161D/ 162D/169D/170D/ 223D/224D	26	
	COP-119-5				
	COP-119-6	641 LBS	215D/216D	2	
	COP-119-7	5,479 LBS	239D/240D/271D/ 272D/299D/300D/ 885E/886E/931E/ 932E/934E/935E 938E/937E/938E/ 939E/940E	17	
	COP-121-1	9,876 LBS	9D/10D/57D/ 58D/59D/60D/ 63D/64D/71D/ 72D/91D/92D/ 93D/94D/275D/ 278D/285D/286D/ 287D/288D/293D/ 294D/303D/309D/ 310D/327D/328D/ 333D/340D/463D/ 501D	31	
	COP-121-3	8,845 LBS	31D/32D/65D/ 66D/141D/142D/ 165D/166D/219D/ 220D/221D/222D/ 227D/228D/231D/ 232D/237D/238D/ 264D/921E/922E	21	
	Mixed from above Lot #	19,436 LBS	MIXED FROM STEAM HOODS	126	

14. Delegator's Reference

Date:

15. Government Quality Assurance Services (Delegates)

16.

Date: 6/27/06

Signature: D. Pratt

Name (print): D. PRATT

17. REMARKS / OBSERVATIONS

OK only.



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

300

Invoice-No:

2006111

Date: April 18, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: **AT1544**

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
109.421	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 10 April 14, 2006 109.421,0	\$0,7000	\$76.594,70
109.421	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$24.857,48

Total all Items	VAT	Total Amount
\$51.737,22	0%	\$51.737,22

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138858395

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No: 2006111

Date: April 18, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

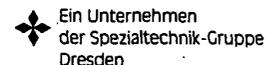
VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
109.421	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 10 April 14, 2006 109.421,0	\$0,7000	\$76.594,70
109.421	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$24.857,48

Total all Items	VAT	Total Amount
\$51.737,22	0%	\$51.737,22

Payable within 30 days upon receipt of the invoice

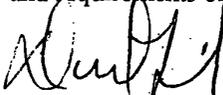
Industriepark Spreewerk Lützen GmbH
Sitz: Börmichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
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Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138858395



Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1	No. of pages 4				
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05				
	3. Government Contract No. DAAA09-03-D-0014				
4. Mailed to (Delegator) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-				
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 109,421 LBS Final 4,501,858 lbs				
<p>7. Certified that apart from the deviations waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.</p> <p>Date: 14 APR 2006</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  DAVID FINCHER Managing Director </div> <div style="text-align: center;">  Kenneth Lampkin Explo Systems Inc. Quality Assurance Manager </div> </div>					
8. Contract Item No.	9. Stock Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 300 Bomb M117A3	<u>109,421 lbs</u>		3,266,261LBS	1,126176 lbs
	Bomb N°				
	COP-109-2	624 LBS	865E/866E	2	
	COP-109-4	2,586 LBS	2288/2289/2378/ 2379/2475/2474 2480/2481	8	
	COP-109-5	3,852 LBS	695E/703E/704E/ 783E/784E/805E/ 806E/813E/814E/ 853E/854E/944E	12	
	COP-109-6	321 LBS	486E	1	
	COP-109-7	665 LBS	538E/546E	2	

COP-109-8	3,890 LBS	593E/594E/707E/ 708E/772E/781E/ 782E/811E/812E/ 817E/818E/868E	12
COP-112-3	6,994 LBS	447E/729E/730E/ 745E/747E/748E/ 751E/752E/765E/ 766E/775E/776E/ 851E/852E/855E/ 856E/863E/864E/ 872E/877E/878E/ 882E	22
COP-112-4	8,396 LBS	503E/504E/549E/ 550E/555E/556E/ 557E/558E/559E/ 560E/567E/568E/ 573E/574E/575E/ 576E/578E/579E/ 580E/584E/587E/ 588E/603E/604E/ 605E/606E	26
COP-114-1	3,504 LBS	563E/565E/566E/ 591E/592E/597E/ 598E/601E/602E/ 611E/612E	11
COP-114-3	8,064 LBS	2582/2583/2622/ 2623/2852/2853/ 2978/2979/3010/ 3011/3014/3015/ 3028/3029/3030/ 3031/3032/3033/ 3034/3035/534E/ 749E/750E/809E/ 810E	25
COP-115-1	14,340 LBS	639E/675E/676E/ 684E/690E/693E/ 694E/697E/698E/ 699E/700E/759E/ 760E/768E/773E/ 774E/777E/778E/ 787E/788E/789E/ 790E/791E/792E/ 799E/800E/815E/ 816E/823E/824E/ 827E/828E/829E/ 830E/831E/832E/ 833E/834E/835E/ 836E/837E/838E/ 847E/848E	44
COP-116-1			141
COP-116-2	333 LBS	625E	1

	COP-116-3	6,195 LBS	25D/26D/30D/ 76D/77D/111D/ 523E/524E/585E/ 586E/589E/590E/ 609E/610E/619E/ 620E/621E/622E/ 623E/624E	20	
	COP-118-1	1,340 LBS	733E/734E/743E/ 744E	4	
	COP-119-2	1,552 LBS	506E/509E/510E/ 613E/614E	5	
	COP-119-3	3,235 LBS	595E/596E/741E/ 742E/857E/858E/ 859E/860E/869E/ 870E	10	
	COP-119-4	653 LBS	617E/618E	2	
	COP-119-6	623 LBS	501E/502E	2	
	COP-118-7	7,757 LBS	198D/705E/706E/ 709E/710E/711E/ 712E/713E/714E/ 715E/716E/718E/ 719E/721E/722E/ 725E/726E/735E/ 736E/739E/740E/ 761E/762E/933E	24	
	COP-121-3	20,427 LBS	43D/44D/445E/ 453E/454E/495E/ 497E/498E/515E/ 516E/607E/608E/ 649E/673E/674E/ 677E/678E/681E/ 682E/685E/687E/ 688E/701E/702E/ 723E/724E/727E/ 728E/731E/732E/ 737E/738E/753E/ 754E/755E/756E/ 763E/764E/780E/ 793E/794E/795E/ 796E/801E/802E/ 803E/807E/808E/ 819E/820E/821E/ 822E/825E/826E/ 839E/840E/841E/ 842E/843E/845E/ 846E/849E/850E	63	
	COP-500-5	1,313 LBS	2894/2895/2920/ 2921	4	(134)
	Mixed from above Lot #	12,757 LBS	MIXED FROM STEAM HOODS		

14. Delegator's Reference

Date:

15. Government Quality Assurance Service (Delegatee)

16.

D P. dt

Date: *4/13/2006*

Signature: *D P. dt*

Name (print):

17. REMARKS / OBSERVATIONS

Gtg only



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

307

Invoice-No: 2006156

Date: May 12, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.:
Taxpayer identification code

DE 1388 58 395
202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
110.227	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 14 May 12, 2006 110.227,0	\$0,7000	\$77.158,90
110.227	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.040,58

Total all Items	VAT		Total Amount
\$52.118,32	0%	\$0,00	\$52.118,32

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No: 2006156

Date: May 12, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
110.227	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 14 May 12, 2006 110.227,0	\$0,7000	\$77.158,90
110.227	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.040,58

Total all Items	VAT	Total Amount
\$52.118,32	0%	\$52.118,32

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lützen GmbH
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Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395



Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

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Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach FFHV

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1	No. of pages 4
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA09-03-D-0014
4. Mailed to (Delegate) Industriepark Spreewerk Lübben GmbH Bömichen 99 15907 Lübben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 110,227 LBS Final 4,501,858 lbs

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 12 MAY2006

David Fincher
 DAVID FINCHER
 Managing Director

Kenneth Lampkin
 Kenneth Lampkin
 Explo Systems Inc.
 Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 310 Bomb M117A3 Bomb N° COP-109-8	110,227 LBS		2,815,444 LBS	1,576,187 lbs
		6,018 LBS	2630/2631/2652/ 2653/2659/2662/ 2683/2684/2685/ 2666/2667/2868/ 2669/2672/2673/ 3414/3415/3416/ 3417	19	(19)

	COP-114-3	39,364 LBS	2511/2512/2513/ 2514/2515/2516/ 2518/2519/2520/ 2521/2522/2523/ 2524/2525/2527/ 2528/2529/2531/ 2532/2533/2536/ 2537/2558/2559/ 2560/2581/2582/ 2563/2564/2565/ 2566/2567/2568/ 2569/2571/2572/ 2575/2577/2578/ 2579/2581/2584/ 2585/2588/2591/ 2594/2595/2598/ 2599/2600/2601/ 2620/2621/2626/ 2634/2635/2636/ 2642/2644/2645/ 2648/2678/2679/ 2680/2681/2682/ 2683/2684/2685/ 2688/2687/2688/ 2689/2690/2691/ 2692/2693/2694/ 2695/2696/2697/ 2698/2699/2700/ 2701/2702/2704/ 2705/2706/2707/ 2708/2709/2710/ 2711/2712/2713/ 2714/2715/2716/ 2717/2718/2719/ 2720/2721/2722/ 2723/2724/2725/ 2726/2727/2728/ 2729/2731/2732/ 2733/3156/3157/ 3168/3168/3169/ 3177	121	
	COP-116-3	6,184 LBS	3135/3150/3151/ 3228/3227/3228/ 3328/3330/3331/ 3332/3333/3334/ 3335/3336/3337/ 3338/3339	17	
	COP-118-4	2,712 LBS	2500/2501/2543/ 2544/2545/2547/ 2548/2549/2551	9	
	COP-119-3	21,244 LBS	3228/3229/3231/ 3234/3236/3237/ 3238/3239/3262/ 3254/3255/3256/ 3258/3259/3260/ 3262/3266/3267/ 3268/3269/3270/ 3300/3271/3272/ 3273/3275/3276/ 3277/3278/3279/ 3280/3282/3283/ 3284/3285/3286/ 3287/3288/3289/ 3290/3281/3292/ 3293/3294/3295/ 3296/3297/3298/ 3299/3301/3302/	51	198

	COP-109-3 (CONT)		3303/3304/3305/ 3306/3307/3308/ 3309/3310/3311/ 3312/3313/3320/ 3321/3322/3323/ 3368	16	
	COP-109-4	19,332 LBS	3422/3429/3435/ 3436/3437/3438/ 3443/3449/3450/ 3451/3467/3468/ 3469/3471/3474/ 3485/3486/3491/ 3492/3504/3512/ 3513/3522/3539/ 3540/3541/3542/ 3543/3553/3554/ 3555/3556/3564/ 3565/3566/3568/ 3571/3572/3574/ 3580/3585/3592/ 3595/3596/3599/ 3600/3604/3605/ 3606/3609/3610/ 3612/3613/3621/ 3622/3623/3629/ 3830/3831/3832	60	
	COP-500-5	4,445 LBS	3372/3373/3375/ 3376/3377/3378/ 3384/3384/3395/ 3398/3400/3401/ 3404/3405	14	(90)
	Mixed from above Lot #	11,940 LBS	MIXED FROM STEAM HOODS		

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: 11 MAY 06 Signature: <i>D. Pratt</i> Name (print):
17. REMARKS / OBSERVATIONS <i><u>GTS - only - AD</u></i>	



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

200

Invoice-No: 2006165

Date: May 19, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
76.218	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 15 May 19, 2006 76.218,0	\$0,7000	\$53.352,60
76.218	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$17.314,66

Total all Items	VAT	Total Amount
\$36.037,94	0%	\$36.037,94

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395

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Zertifiziert nach DIN EN ISO 14001



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

Invoice-No: 2006165

Date: May 19, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811
KTr.Nr. 7300
Kto: 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
76.218	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 15 May 19, 2006 76.218,0	\$0,7000	\$53.352,60
76.218	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$17.314,66

Total all Items	VAT	Total Amount
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Industriepark Spreewerk Lübben GmbH
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E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelskreditster: Kreisgericht Cottbus-Stadt HRB 0151 · Ust-Id.-Nr.: DE 438 959 206

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

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Zertifiziert nach DIN EN ISO 14001

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1	No. of pages 3
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA09-03-D-0014
4. Mailed to (Delegator) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 1 76,218 LBS Final 4,501,858 lbs

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

19 MAY2006
Date

DAVID SMITH
Managing Director


 Kenneth Lampkin
 Explo Systems Inc.
 Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 200 Bomb M117A3	76,218 lbs		2,739,226 LBS	1,686,414 lbs
	Bomb N°				
	COP-109-4	8,373 LBS	2312/2313/2330/ 2331/2336/2337/ 2460/2461/2482/ 2483/2464/2465/ 2466/2467/2468/ 2469/2470/2471/ 2472/2473/2476/ 2477/2478/2479/ 2482/2483	26	
	COP-109-8	3,659 LBS	2632/2633/2654/ 2655/2656/2657/ 2658/2680/2661/ 2670/2671	11 37	

	COP-114-3	27,487 LBS	2508/2509/2510/ 2617/2626/2530/ 2534/2535/2538/ 2539/2540/2541/ 2556/2557/2570/ 2573/2574/2576/ 2580/2586/2587/ 2589/2590/2592/ 2593/2596/2597/ 2602/2603/2604/ 2605/2606/2607/ 2608/2609/2610/ 2611/2612/2613/ 2614/2615/2616/ 2617/2618/2619/ 2624/2625/2627/ 2628/2629/2640/ 2641/2643/2646/ 2647/2648/2650/ 2651/2674/2675/ 2676/2677/2703/ 2730/3152/3153/ 3154/3155/3156/ 3160/3161/3162/ 3163/3164/3165/ 3166/3167/3170/ 3171/3172/3173/ 3174/3175/3178/ 3178/3179	86	
	COP-116-3	4,641 LBS	3132/3133/3134/ 3138/3139/3140/ 3141/3142/3143/ 3144/3145/3146/ 3147/3148/3149	15	
	COP-118-4	17,634 LBS	2412/2413/2422/ 2423/2430/2431/ 2434/2435/2438/ 2439/2440/2441/ 2444/2445/2446/ 2447/2448/2449/ 2450/2451/2452/ 2453/2454/2455 2458/2459/2464/ 2485/2486/2487/ 2488/2489/2490/ 2491/2492/2493/ 2494/2495/2496/ 2497/2498/2499/ 2502/2503/2504/ 2505/2506/2507/ 2542/2546/2558/ 2552/2553/2554/ 2555	55	
	COP-119-4	2,073 LBS	3476/3479/3480/ 3520/3570/3586	6	
	COP-500-6	280 LBS	3379	1	(163)
	Mixed from above Lot #	12,171 LBS	MIXED FROM STEAM HOODS		

14. Delegator's Reference

Date:

15. Government Quality Assurance Service (Delegator)

16.

Date:

18 MAR 06

Signature:

D. Pratt

Name (print):

D. PRATT

17. REMARKS / OBSERVATIONS

Grts only.



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

314
Invoice-No:

2006166

Date: May 26, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO **AT1544**

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.:
Taxpayer identification code

DE 1388 58 395
202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
115.102	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 16 May 26, 2006 115.102,0	\$0,7000	\$80.571,40
115.102	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$26.148,05

Total all Items	VAT	Total Amount
\$54.423,35	0%	\$54.423,35

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395

 Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN FN ISO 14001

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: 11 SEP 07 Signature: <i>D. Pratt</i> Name (print): D. PRATT
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Ø

Invoice-No: 2007263

Date: September 19, 2007

Customer-No:
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
54.551	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 44 Sept.17,2007 54.551,0 *	\$0,7000	\$38.185,70
54.551	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$12.392,51

RECEIVED
SEP 26 2007

Total all Items	VAT	Total Amount
-\$25.793,19	0%	\$0,00
		-\$25.793,19

Payable within 30 days upon receipt of the invoice \$25,791.71

\$ 25,791.71

Industriepark Spreewerk Lübben GmbH
Sitz: Görnichen 99, 15907 Lübben Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 Fax: +49 (0) 35 46 29-270
E-Mail: info@spreewerk.de Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 Ust-Id-Nr.: DE 138858395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 500
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 335 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFbV
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

EX-15

PAGE 1	No. of pages 3
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA09-03-D-0014
4. Mailed to (Delegator) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 54,551 LBS Final 4,501,858 lbs

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 17 Sep 2007


DAVID FINCHER
Managing Director


Kenneth Lampkin
Explo Systems Inc.
Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 151 Bomb M117A3	<u>54,551 lbs</u>	151	164,018 lbs	4,283,289 lbs
	Bomb N°				
	COP-108-1	<u>302 lbs</u>	8512	i	
	COP-109-4	<u>1,492 lbs</u>	8439,8440,8457 8458	4	
	COP-112-3	<u>1,264 lbs</u>	8425,8426,8459 8460	4	
	COP-114-2	<u>4,149 lbs</u>	7177,7178,7181 7182,7187,7188 7205,7206,7209 7210,7217,7218	12	
	COP-119-2	<u>18,039 lbs</u>	5663,5664,5689 5690,5693,5694 5699,5700,5705 5706,5709,5710	12	

	COP-119-2 (CONT)		5712,5714,5715 5716,5717,5718 5721,5722,7115 7116,7151,7152 7155,7156,7163 7164,7167,7168 7173,7174,7185 7186,7189,7190 7191,7192,7193 7194,7195,7196 7197,7198,7199 7200,7201,7202 7203,7204,7207 7208,7213,7214 7219,7220	44	
	COP-119-3	<u>2,036 LBS</u>	8441,8442,8443 8444,8483,8484	6	
	COP-119-5	<u>648 LBS</u>	8481,8482	2	
	COP-119-6	<u>700 LBS</u>	8481,8482	2	
	COP-121-2	<u>8,190 LBS</u>	5657,5658,5681 5662,5671,5672 5681,5682,5683 5684,7153,7154 7157,7158,7161 7162,7175,7176 7179,7180,7183 7184,7319,7320	24	
	COP-121-3	<u>13,922 LBS</u>	5685,5686,5687 5688,5691,5692 5695,5696,5697 5698,5701,5702 5703,5704,5707 5708,5711,5712 5723,5724,5799 5800,5807,5808 7159,7160,7165 7166,7169,7170 7171,7172,8437 8438,8455,8456 8463,8464,8473 8474	40	
	MIXED FROM PRESS 182	<u>2,818 LBS</u>			

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: 17 Sep 2017 Signature: <i>[Handwritten Signature]</i> Name (print):
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No:

2007269

Date: September 28, 2007

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)						
102.592	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY)	\$0,7000	\$71.814,40						
	<table border="0"> <tr> <td></td> <td>(Date)</td> <td>(quantity)</td> </tr> <tr> <td>CoC # 45</td> <td>Sept.27.2007</td> <td>102.592,0</td> </tr> </table>		(Date)	(quantity)	CoC # 45	Sept.27.2007	102.592,0		
	(Date)	(quantity)							
CoC # 45	Sept.27.2007	102.592,0							
102.592	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$23.306,12						

Total all Items	VAT	Total Amount
\$48.508,28	0%	\$0,00
		-\$48.508,28

Payable within 30 days upon receipt of the invoice **48.505,50**

48.505,50

RECEIVED OCT 10 2007

Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 26-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 305 500
Dresdner Bank AG, BLZ 150 800 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFbv
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

EX-16

PAGE 1		No. of page 4			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05			
		3. Government Contract No. DAAA09-03-D-0014			
4. Mailed to (Delegatee) Industriepark Spreewerk LÜbben GmbH Börnichen 99 15907 LÜbben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 102,592 LBS Final 4,501,858 lbs			
7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
Date 27 Sep 2007		 Kenneth Lamplin Explo Systems Inc. Quality Assurance Manager			
DAVID SMITH Managing Director					
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 285 Bomb M117A3 Bomb N° COP-114-2 COP-118-5 COP-119-2	102,592 lbs 3,512 LBS 5,588 LBS 43,597 LBS	 7039,7040,7041 7042,7045,7046 7091,7092,7211 7212 6863,6864,6865 6866,6867,6868 6861,6892,6895 6896,6905,6906 6929,6930,7031 7032 5718,5719,5725 5726,5731,5732 5733,5734,5735 5736,5745,5746 5749,5750,5753 5754,5771,5772	61,426 lbs  10 16 18	4,337,840 lbs

	COP-119-2 (CONT)		5775,5776,5777 5778,5785,5786 5789,5790,5791 5792,5793,5794 5795,5796,6811 6812,6813,6814 6815,6816,6817 6818,6819,6820 6821,6822,6823 6824,6825,6826 6827,6828,6829 6830,6831,6832 6833,6834,6835 6836,6847,6848 6849,6850,6853 6854,6857,6858 6859,6860,6867 6868,6869,6870 6879,6880,6913 6914,6917,6918 6933,6934,6939 6940,7033,7034 7037,7038,7047 7048,7049,7050 7053,7054,7057 7058,7059,7080 7061,7062,7063 7064,7065,7066 7067,7068,7071 7072,7075,7076 7081,7082,7083 7084,7085,7086 7090,7107,7108 7129,7130,7137 7138,7141,7142 7145,7146		
	COP-119-3	<u>703 LBS</u>	5755,5756	2	
	COP-119-5	<u>1,332 LBS</u>	6943,6944,6947 6948	4	
	COP-121-2	<u>27,055 LBS</u>	5665,5666,5669 5670,5673,5674 5675,5676,5677 5678,5679,5680 6837,6838,6839 6840,6841,6842 6843,6844,6845 6846,6851,6852 6855,6856,6861 6862,6871,6872 6873,6874,6875 6876,6881,6882 6883,6884,6885 6886,6889,6890 6893,6894,6897 6898,6899,6900 6901,6902,6903 6904,6907,6908 6909,6910,6915	57	

	COP-121-2 (CONT)		6916,6919,6920 6923,6924,6925 6926,6927,6928 6931,6932,6935 6936,7043,7044 7143,7144,7147 7148,7149,7150	21	
	COP-121-3	<u>17,421 LBS</u>	5727,5728,5729 5730,5737,5738 5739,5740,5741 5742,5743,5744 5747,5748,5751 5752,5757,5758 5759,5760,5761 5762,5763,5764 5765,5768,5757 5769,5769,5770 5773,5774,5779 5780,5781,5782 5783,5784,5787 5788,5797,5798 5805,5806,5811 5812,5813,5814 7139,7140	50	
	MIXED FROM PRESS 1&2	<u>3,404 LBS</u>			

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegates)	16. Date: 27 Sep 2007 Signature: <i>D. Pratt</i> Name (print):
17. REMARKS / OBSERVATIONS	

Harless, Kim

From: Rowland, Kim
Sent: Friday, October 12, 2007 3:06 PM
To: Pfeiffer, Scott; Harless, Kim
Subject: Spreewerk AT1544 2007269.PDF
Attachments: Spreewerk AT1544 2007269.PDF

REQUEST FOR APPROVAL OF INVOICE

Please review the attached invoice and reply back to this e-mail stating whether or not you approve the charges as soon as possible.

Thanks
Kim Rowland
639-8231



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

300

Invoice-No:

2006267

Date: August 08,2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
116.044	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 26 August 04, 2006 116.044,0	\$0,7000	\$81.230,80
116.044	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$26.362,05

Total all Items	VAT	Total Amount
\$54.868,75	0%	\$54.868,75

Payable within 30 days upon receipt of the invoice

RECEIVED AUG 15 2006

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138858395

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN FN ISO 14001



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No: 2006267

Date: August 08,2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

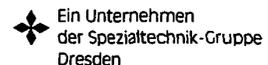
VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
116.044	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 26 August 04, 2006 116.044,0	\$0,7000	\$81.230,80
116.044	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$26.362,05

Total all Items	VAT	Total Amount
\$54.868,75	0%	\$54.868,75

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
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E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138858395



Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 4			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05 3. Government Contract No. DAAA09-03-D-0014			
4. Mailed to (Delegator) Industriepark Spreewerk LÜbben GmbH Börnichen 99 15907 LÜbben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 116,044 LBS Final 4,501,858 lbs			
7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order. Date 4 AUG 2006 <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  DAVID FINCHER Managing Director </div> <div style="text-align: center;">  Kenneth Lampkin Explo Systems Inc. Quality Assurance Manager </div> </div>					
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 300 Bomb M117A3 Bomb N° COP-109-4 COP-114-2	116,044 LBS 640 LBS 20,719 LBS	8589/8701 7880/7891/7892/ 7963/7964/7965/ 7966/7975/7981/ 7982/7987/7988/ 8049/8050/8055/ 8056/8059/8060/ 8063/8064/8065/ 8066/8069/8070/ 8071/8072/8076/ 8084/8157/8158/ 8173/8174/8231/ 8232/8235/8236/ 8237/8238/8239/ 8240/8241/8242/ 8243/8244/8245/ 8246/8247/8248/ 8249/8250/8251/ 8252/8253/8254/ 8261/8262/8265/ 8266/8317/8318/ 8360/8361/8363/ 8365/8366	1,598,921 LBS 2 65 67	2,788,893 lbs

	COP-118-5	16,453 LBS	7821/7822/7831/ 7832/7859/7860/ 7869/7870/7873/ 7874/7819/7820/ 7925/7826/7831/ 7932/7935/7936/ 7957/7858/7867/ 7968/7869/7970/ 8051/8052/8053/ 8054/8148/8151/ 8152/8229/8230/ 8233/8234/8255/ 8256/8257/8258/ 8259/8268/8281/ 8280/8264/8267/ 8282/8301/8302/ 8311/8312/8367/ 8368	52	
	COP-119-2	33,423 LBS	7805/7806/7807/ 7808/7809/7810/ 7811/7812/7813/ 7814/7817/7820/ 7827/7828/7834/ 7858/7862/7897/ 7898/7899/7900/ 7901/7902/7903/ 7904/7905/7906/ 7907/7908/7909/ 7910/7911/7913/ 7916/7923/7924/ 7945/7945/7959/ 7960/7972/7973/ 7974/7979/7989/ 8043/8044/8045/ 8046/8047/8048/ 8061/8062/8068/ 8086/8087/8088/ 8089/8090/8107/ 8108/8112/8185/ 8166/8204/8209/ 8210/8277/8278/ 8279/8280/8283/ 8284/8285/8286/ 8287/8288/8289/ 8290/8292/8293/ 8294/8295/8296/ 8297/8298/8299/ 8300/8303/8304/ 8305/8306/8307/ 8308/8309/8310/ 8313/8314/8315/ 8316/8319/8320/ 8321/8322/8323/ 8324	106	
	COP-121-2	17,272 LBS	7815/7816/7836/ 7836/7841/7842/ 7845/7848/7847/ 7848/7849/7893/ 7894/7895/7896/ 7928/7930/7933/ 7934/7947/7948/ 7951/7952/7953/ 7954/7977/7978/ 7983/7984/7991/ 7992/7999/8000/ 8001/8002/8008/ 8011/8012/8096/ 8133/8143/8176/ 8182/8187/8188/ 8190/8197/8201/ 8202/8205/8206/ 8215/8217/8218/ 8220	55 213	

	COP-121-3	6,289 LBS	7823/7824/7825/ 7826/7829/7830/ 8093/8099/8100/ 8103/8104/8105/ 8108/8154/8165/ 8166/8211/8212/ 8371/8372	20	
	Mixed from above Lot #	21,248 LBS	MIXED FROM STEAM HOODS	(20)	

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: 7 Aug 2006 Signature: D. Pentt Name (print):
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk LÜbben GmbH
Postfach 15 65, 15905 LÜbben

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

Invoice-No: 2007157

Date: May 31, 2007

Customer-No.
D161140

Contract No.:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
41.411	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY)	\$0,7000	\$28.987,70
	CoC # 30 (Date) May 30, 2007 (quantity) 41.411,0	.4728	
41.411	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$9.407,46

Total all Items	VAT	Total Amount
\$19.580,24	0%	\$19.580,24

Payable within 30 days upon receipt of the invoice

19579.12

19579.12

Industriepark Spreewerk LÜbben GmbH
Sitz: Bönnichen 99, 15907 LÜbben · Postadresse: Postfach 15 65, 15905 LÜbben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001

2

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 3	
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05	
		3. Government Contract No. DAAA09-03-D-0014	
4. Mailed to (Delegatee) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-	
5. From (Supplier) Explo Systems, LLC. 1600 Java Rd. Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 41,411 Final 4,501,858 lbs	

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 30 MAY 2007


DAVID FINCHER
Managing Director


Kenneth Lampkin
Explo Systems Inc.
Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 120 Bomb M117A3 Bomb N°	<u>41,411 lbs</u>		1,249,400 lbs	3,211,047 lbs
	COP-109-4	680 LBS	1880,1881	2	
	COP-119-2	2,793 LBS	5563,5564,5567 5568,5569,5570 5573,5574	8	
	COP-119-5	3,442 LBS	5541,5542,5547 5548,5551,5552 5553,5554,5559 5560	10	

	COP-121-2	6,390 LBS	5493,5494,5495 5496,5498,5500 5501,5502,5505 5506,5509,5510 5511,5512,5523 5524,5537,5538 5539	19	
	COP-121-3	26,901 LBS	5328,5329,5330 5337,5338,5339 5340,5343,5344 5345,5346,5445 5446,5447,5448 5449,5450,5451 5452,5453,5454 5455,5456,5457 5458,5459,5460 5461,5462,5463 5464,5465,5466 5467,5468,5469 5470,5471,5472 5473,5474,5475 5476,5477,5478 5479,5480,5481 5482,5483,5484 5485,5486,5487 5488,5489,5490 5491,5492,5497 5498,5503,5504 5507,5508,5515 5516,5517,5518 5519,5520,5521 5522,5525,5526 5543,5544,5549 5550,5555,5556	81	
	MIXED FROM PRESS 1 AND 2	1,225 LBS			

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: 30 MAR 2007 Signature: <i>D. Pratt</i> Name (print): D. PRATT SENECA
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P.O. BOX 1

USA – RADFORD, VA 24143
United States of America

June 12th, 2007

Invoice No. 2007157 and 2007178

Dear Mr. Wedwick,

enclosed we are sending you our invoices No. 2007157 and 2007178 for the demilitarization of the bombs M117 as well as the corresponding Certificates of Destruction from the company Explo Systems, LLC, Minden for your information.

If you have any further questions please do not hesitate to contact us.

Best regards

Industriepark Spreewerk Lübben GmbH


R. Härtl
Import / Export

Enclosures

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blum, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · USt-Id-Nr.: DE159858395

 Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

ISS-57110

Invoice-No: 2007178

Date: June 11, 2007

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02998

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
57.111	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 31 June 08, 2007 57.111,0	\$0,7000 ↑ Δ .4728	\$39.977,70
57.111	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272 ↓	-\$12.974,07

Total all Items	VAT	Total Amount
\$27.003,63	0%	\$27.003,63

Payable within 30 days upon receipt of the invoice

\$27,001.61 *\$ 27002.08*
24.08

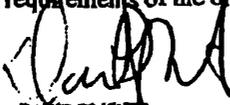
\$ 27,002.08 *\$ 27,001.61*
24.08

Industriepark Spreewerk Lützen GmbH
Sitz: Börmichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blau, Dr. Wolfgang Petzold, Dr. Gert von Wickede

Ein Unternehmen
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Dresden

Zertifiziert nach DIN EN ISO 9001

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 3			
1. Purchaser Alfiant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05			
		3. Government Contract No. DAAA09-03-D-0014			
4. Mailed to (Delegatee) Industriepark Spreewerk LÜbben GmbH Börnichen 89 15907 LÜbben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 57,111 Final 4,501,858 lbs			
7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
Date 8 JUN 2007		 DAVID FINCHER Managing Director	 Kenneth Lampkin Explo Systems Inc. Quality Assurance Manager		
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 155 Bomb M117A3 Bomb N° COP-109-8	<u>57,111 lbs</u> 23,373 LBS	1455,1458,1481 1482,1497,1498 1515,1516,1543 1544,1551,1573 1574,1575,1576 1577,1578,1579 1581,1582,1583, 1584,1585,1588 1589,1590,1591 1592,1593,1594 1595,1596,1597 1598,1599,1600 1601,1602,1603 1604,1605,1608 1609,1610,1611 1615,1616,1617 1619,1620,1621	1,192,289 lbs <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 10px auto;">155</div> 51	3,252,458 lbs

	COP-109-8 (CONT)		1622,1623,1624 1628,1627,1628 1629,1630,1635 1639,1640,1641 1642	13	
	COP-119-2	10,634 LBS	5833,5575,5576 5577,5578,5579 5580,5581,5582 5583,5584,5587 5588,5834,5837 5838,5841,5843 5844,5845,5848 5848,5849,5851 5852,5853,5854 5855,5856,5859	30	
	COP-119-3	670 LBS	1383,1387	2	
	COP-119-5	11,177 LBS	6645,5546,5557 5558,5584,5587 5588,5603,5604 5608,5610,5613 5614,5615,5616 5617,5619,5620 5621,5622,5623 5624,5625,5628 5627,5628,5629 5631,5632,5639 5636	31	
	COP-121-2	4,727 LBS	5627,5528,5529 5530,5531,5532 5533,5534,5535 5538,5540,5567 5568	13	
	COP-121-3	5,592 LBS	5561,5562,5565 5568,5572,5589 5590,5591,5592 5595,5596,5599 5600,5601,5606	15	
	MIXED FROM PRESS 1 AND 2	838 LBS			

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: 8 June 2007 Signature: <i>[Handwritten Signature]</i> Name (print): DONALD PRATT
17. REMARKS / OBSERVATIONS	



SPREEWERK

Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P.O. BOX 1

USA – RADFORD, VA 24143
United States of America

June 12th, 2007

Invoice No. 2007157 and 2007178

Dear Mr. Wedwick,

enclosed we are sending you our invoices No. 2007157 and 2007178 for the demilitarization of the bombs M117 as well as the corresponding Certificates of Destruction from the company Explo Systems, LLC, Minden for your information.

If you have any further questions please do not hesitate to contact us.

Best regards

Industriepark Spreewerk Lübben GmbH


R. Härtl
Import / Export

Enclosures

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichien 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Olus, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE158858535
Bankverbindung: Commerzbank AG, BIC 25000000, Kontonr.: 800 306 500
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 353 00

◆ Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EfbV
Fachbetrieb nach WHG



Industriepark Spreewerk Lubben GmbH
Postfach 15 65, 15905 Lubben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No: 2007189

Date: June 21, 2007

**Customer-No:
D161140**

**Contract No:
DAAA0003D0014
PO: AT1544**

**our Sign
Härtl**

KSt.Nr. 811 KTr.Nr. 7300 Kto: 400020

**VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996**

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
44.411	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY)	\$0,7000	\$31.087,70
	(Date) (quantity) CoC # 32 June 19, 2007 44.411,0		
44.411	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$10.088,97

RECEIVED
JUN 25 2007

Total all Items	VAT	Total Amount
\$20.998,73	0%	\$0,00
		-\$20.998,73

Payable within 30 days upon receipt of the invoice 20,997.52

20,997.52

Industriepark Spreewerk Lubben GmbH
Sitz: Bönnichen 99, 15807 Lubben Postadresse: Postfach 15 65, 15905 Lubben
Telefon: +49 (0)35 46 28-0 Fax: +49 (0)35 46 28-240
E-Mail: info@spreewerk.de Internet: www.spreewerk.de
Geschäftsführer: Linden Blue Dr. Wolfgang Petzold, Dr. Gert von Witzke
Handelsregister: Kreisgericht Cottbus-Stadt HRB 0151 Ust-Id-Nr.: DE 138858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 506 300
Dresdner Bank AG, BLZ 180 200 00, Konto: 06 200 456 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach ZEV
Fachbetrieb nach WfB

	COP-112-3	8,451 LBS	1411,1412,1413 1414,1417,1418 1419,1420,1425 1431,1432,1435 1436,1437,1438 1443,1444,1445 1446,1447,1448 1449,1450,1451 1452	25	
	COP-114-4	731 LBS	1339,1340	2	
	COP-119-2	2,614 LBS	5585,5611,5612 5639,5640,5642 5647	7	
	COP-119-3	4,137 LBS	1378,1387,1395 1396,1401,1402 1405,1406,1407 1408,1409,1410	12	
	COP-119-4	6,872 LBS	1263,1264,1309 1357,1358,1359 1360,1363,1364 1365,1366,1367 1368,1369,1370 1371,1372,1375 1376	19	
	COP-119-5	719 LBS	5593,5618	2	
	COP-121-3	403 LBS	5607	1	
	MIXED FROM PRESS 1 AND 2	1,118 LBS			

14. Delegator's Reference	Date: 19 Jun 2007
15. Government Quality Assurance Service (Delegatee)	16. Date: Signature: <i>[Handwritten Signature]</i> Name (print): DONALD PRATT
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lubben GmbH
Postfach 15 65 15905 Lubben

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

Invoice-No:

2007195

Date: June 29, 2007

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)				
94.817	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY)	\$0,7000	\$66.371,90				
	<table border="0" style="width: 100%;"> <tr> <td style="text-align: right;">(Date)</td> <td style="text-align: right;">(quantity)</td> </tr> <tr> <td style="text-align: right;">CoC # 33</td> <td style="text-align: right;">June 28, 2007 94.817,0</td> </tr> </table>	(Date)	(quantity)	CoC # 33	June 28, 2007 94.817,0		
(Date)	(quantity)						
CoC # 33	June 28, 2007 94.817,0						
94.817	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$21.539,85				

Total all Items	VAT	Total Amount
\$44.832,05	0%	\$44.832,05

Payable within 30 days upon receipt of the invoice 344829.48

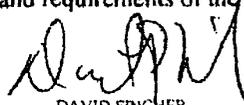
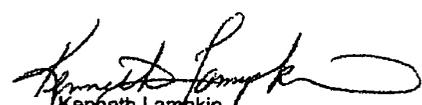
RECEIVED JUL 06 2007
\$ 344829.48

Industriepark Spreewerk Lubben GmbH
Sitz: Bönnichen 99 15907 Lubben Postadresse: Postfach 15 65, 15905 Lubben
Telefon: +49 (0)35 46 28-0 Fax: +49 (0) 35 46 28-370
E-Mail: info@spreewerk.de Internet: www.spreewerk.de
Geschäftsführer: Linden Blum, Dr. Wolfgang Petzold, Dr. Carl von Wickede
Handelsregister: Kreisgericht Gotha's Stadt, HRG 0151 Ust-Id-Nr.: DE 158 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 506 300
Dresdner Bank AG, BLZ 480 800 00, Konto: 06 200 433 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFVB
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

PAGE: 1	No. of pages: 4				
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date: AT1544 8/24/05				
	3. Government Contract No. DAAA09-03-D-0014				
4. Mailed to (Designator) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-				
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order: 1 Partial: 94,817 Final: 4,501,858 lbs				
7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
Date: 28 JUN 2007 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  DAVID FINCHER Managing Director </div> <div style="text-align: center;">  Kenneth Lampkin Explo Systems Inc. Quality Assurance Manager </div> </div>					
8. Contract Item No	9. Stock/Part No and Name	10. Quantity	11. Bomb No	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 262 Bomb M117A3 Bomb N°	<u>94,817lbs</u>		1,053,061 lbs	3,353,980 lbs
	COP-108-1	1,256 LBS	1233,1234,3881,3882	4	
	COP-109-1	891 LBS	1193,1194	2	
	COP-109-4	3,690 LBS	819,820,1199,1200,1227,1228,1231,1232,1241,1242	10	
	COP-109-5	744 LBS	1259,1260	2	
	COP-109-6	1,479 LBS	1215,1216,3843,3844	4	

COP-109-8	16,641 LBS	1459,1460,1463 1464,1466,1473 1474,1476,1476 1477,1478,1483 1484,1485,1486 1487,1491,1492 1501,1502,1504 1507,1508,1513 1514,1517,1518 1519,1520,1523 1524,1527,1528 1529,1530,1537 1538,1612,1613 1614,1625,1631 1636,3889,3890	45	
COP-112-1	2,079 LBS	1201,1202,1211 1212,1237,1238	6	
COP-112-3	9,621 LBS	1197,1198,1219 1220,1243,1257 1258,1415,1416 1421,1422,1423 1424,1426,1427 1428,1429,1430 1433,1434,1439 1440,1441,1442 3887,3888,3891 3892	28	
COP-112-4	780 LBS	817,818	2	
COP-114-2	2,217 LBS	1221,1222,1225 1226,1253,1254	6	
COP-115-1	1,440 LBS	1217,1218,1249 1250	4	
COP-115-2	741 LBS	3905,3906	2	
COP-119-2	1,807 LBS	1209,1210,5586 5650,5670	5	
COP-119-3	9,595 LBS	1203,1204,1229 1230,1239,1240 1377,1379,1380 1381,1382,1384 1385,1386,1388 1389,1390,1391 1392,1393,1394 1398,1399,1400 1403,1404,3903, 3904	28	

	COP-119-4	33.936 LBS	1246,1246,1261 1262,1265,1266 1267,1268,1269 1270,1271,1272 1273,1274,1275 1276,1277,1278 1279,1280,1281 1282,1283,1284 1285,1286,1287 1288,1289,1290 1291,1292,1293 1294,1295,1296 1297,1298,1299 1300,1301,1302 1303,1304,1305 1306,1307,1308 1310,1311,1312 1313,1314,1315 1316,1317,1318 1319,1320,1321 1322,1323,1324 1325,1326,1327 1328,1329,1330 1331,1332,1333 1334,1335,1336 1337,1338,1341 1342,1343,1344 1345,1346,1347 1348,1349,1350 1351,1352,1353 1354,1471,1472 3885,3886	95	
	COP-119-5	2.428 LBS	1195,1196,1207 1208,1251,1252 5630	7	
	COP-121-1	1,408 LBS	1235,1236,1247 1248	4	
	COP-121-3	2.256 LBS	1223,1224,5571 5602,5605,5608	6	
	MCA-1	714 LBS	1213,1214	2	
	MIXED FROM PRESS 1 AND 2	1,294 LBS			

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee) Don PRATT	16. Date: 28 Jun 2007 Signature: <i>Don Pratt</i> Name (print):
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No:

2007204

Date: July 09, 2007

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
79.988	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 34 July 06, 2007 79.988,0	\$0,7000	\$55.991,60
79.988	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$18.171,10

Total all Items	VAT	Total Amount
\$37.820,50	0%	\$0,00
		\$37.820,50

Payable within 30 days upon receipt of the invoice **\$ 37,818.33**

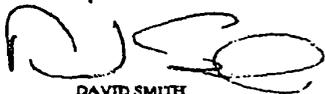
RECEIVED JUL 17 2007

Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 958 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFbV
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 4			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05			
		3. Government Contract No. DAAA09-03-D-0014			
4. Mailed to (Delegatee) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 79,988 LBS Final 4,501,858 lbs			
7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
Date 6 JUL 2007		 DAVID SMITH Managing Director	 Kenneth Lampkin Explo Systems Inc. Quality Assurance Manager		
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 220 Bomb M117A3 Bomb N* COP-108-1 COP-109-4	79,988 lbs 747 LBS 15,591 LBS	 3781,3782 1255,1256,3721 3722,3739,3740 3745,3746,3747 3748,3755,3756 3760,3761,3762 3776,3776,3779 3780,3791,3792 3793,3794,3805 3806,3811,3812 3813,3814,3817 3818,3825,3826 3827,3826,3829 3830,3849,3850 3859,3860,3883 3884	973,073 lbs 220 2 43	3,448,797 lbs

COP-109-4	3,621 LBS	3687,3688,3731 3732,3807,3808 3823,3824,3863 3864	10
COP-109-8	1,587 LBS	3681,3682,3689 3690	4
COP-112-1	1,486 LBS	3835,3836,3839 3870	4
COP-112-3	8,286 LBS	1244,3691,3692 3719,3720,3727 3728,3743,3744 3783,3784,3785 3786,3831,3832 3833,3834,3845 3846,3857,3858 3875,3876	23
COP-114-1	782 LBS	3765,3766	2
COP-114-2	2,769 LBS	3683,3684,3789 3790,3809,3810 5025,5026	8
COP-114-5	737 LBS	3709,3710	2
COP-115-1	1,367 LBS	3685,3686,3707 3708	4
COP-115-2	721 LBS	3749,3750	2
COP-116-1	2,110 LBS	3771,3772,3801 3802,3815,3816	6
COP-116-2	1,487 LBS	3865,3866,3871 3872	4
COP-118-2	1,386 LBS	3699,3700,3877 3878	4
COP-119-2	12,039 LBS	3737,3738,3767 3768,3821,3822 3841,3842,4197 4198,5069,5070 5073,5074,5077 5078,5079,5080 5081,5082,5083 5084,5085,5086 5087,5088,5089 5090,5091,5092 5093,5094,5097 5098	34

COP-119-3	13,380 LBS	3693,3694,3705 3708,3729,3730 3733,3734,3751 3752,3753,3754 3763,3764,3769 3770,3773,3774 3777,3778,3799 3800,3803,3804 3839,3840,3847 3848,3851,3852 3853,3854,3861 3862,3867,3868 3879,3880	38
COP-119-4	1,445 LBS	3695,3696,3855 3856	4
COP-119-5	642 LBS	3795,3796	2
COP-119-6	696 LBS	3741,3742	2
COP-121-1	1,413 LBS	3735,3736,3819 3820	4
COP-121-2	749 LBS	3837,3838	2
COP-121-3	4,461 LBS	3697,3698,3701 3702,3703,3704 3725,3726,3797 3798,4575,4576	12
COP-121-4	1,398 LBS	3787,3788,3873 3874	4
MIXED FROM PRESS 1 AND 2	1,088 LBS		

14. Delegator's Reference		Date:
15. Government Quality Assurance Service (Delegatee)	16.	
	Date:	6 July 2007
	Signature:	<i>D. Pratt</i>
	Name (print):	D. PRATT
17. REMARKS / OBSERVATIONS		



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No: 2007219

Date: July 17, 2007

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
63.617	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 35 July 16, 2007 63.617,0	\$0,7000	\$44.531,90
63.617	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1...M11) about : \$1.022.700,00	-\$0,2272	-\$14.452,06

Total all Items	VAT	Total Amount
\$30.079,84	0%	\$30.079,84

Payable within 30 days upon receipt of the invoice \$ 30,078.12 \$ 30,078.12

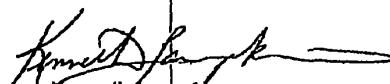
Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blum, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138858395
Bankverbindung: Commerzbank AG, BLZ 856 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFbV
Fachbetrieb nach WHG

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JUL 20 2007

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 3			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05 3. Government Contract No. DAAA09-03-D-0014			
4. Mailed to (Delegatee) Industriepark Spreewerk LÜbben GmbH Börnichen 99 15907 LÜbben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 63,617 LBS Final 4,501,858 lbs			
7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
Date 16 JUL 2007  DAVID SMITH Managing Director		 Kenneth Lampkin Explo Systems Inc. Quality Assurance Manager			
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 173 Bomb M117A3 Bomb N°	<u>63,617 lbs</u>		909,456 lbs <i>(123)</i>	3,528,785 lbs
	COP-109-4	1,765 LBS	3711,3712,3717 3718,3759	<i>5</i>	
	COP-112-3	657 LBS	3715,3716	<i>2</i>	
	COP-114-2	15,708 LBS	5013,5014,5015 5016,5017,5018 5019,5020,5021 5022,5023,5024 5027,5028,5029 5030,5031,5032 5033,5034,5035 5037,5038,5039 5040,5041,5042 5043,5044,5045 5046,5047,5048	<i>33</i>	

	COP-114-2 (CONT)		5049,5050,5051 5052,5053,5054, 5055,5056,5057 5058,5060	11	
	COP-119-2	20,573 LBS	4917,4918,4920 4921,4922,4923 4924,4925,4926 4927,4929,4930 4933,4934,4937 4938,4957,4958 4961,4962,4963 4964,4969,4970 4971,4972,4975 4976,4977,4978 4981,4982,4984 4987,4988,4991 4992,4993,4994 4997,4998,5007 5008,5009,5010 5061,5062,5063 5064,5065,5066 5067,5068,5071 5072,5075,5076	57	
	COP-119-3	735 LBS	3713,3714	2	
	COP-121-1	808 LBS	3723,3724	2	
	COP-121-2	8,688 LBS	4965,4966,4967 4968,4973,4974 4979,4980,4985 4986,4989,4990 4995,4996,4999 5000,5001,5002 5003,5004,5005 5006,5012,5013	24	
	COP-121-3	12,893 LBS	4869,4870,4871 4872,4873,4874 4875,4876,4877 4878,4879,4880 4881,4882,4883 4884,4885,4886 4889,4890,4891 4892,4896,4897 4898,4905,4906 4907,4908,4909 4910,4911,4912 4913,4914,4915 4916	37	
	MIXED FROM PRESS 1 AND 2	1,790 LBS			

14. Delegator's Reference		Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: 16 July 2007 Signature: <i>D. P. Pratt</i> Name (print): D. PRAATT	
17. REMARKS / OBSERVATIONS		



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No: 2007220

Date: July 24, 2007

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.:

DE 1388 58 395

Taxpayer identification code

202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
93.516	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY)	\$0,7000	\$65.461,20
	(Date) (quantity) CoC # 36 July 23, 2007 93.516,0		
93.516	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$21.244,30
RECEIVED JUL 30 2007			

Total all Items	VAT	Total Amount
\$44.216,90	0%	\$44.216,90

Payable within 30 days upon receipt of the invoice **44,214.37**

44,214.37

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blase, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138858395
Bankverbindung: Commerzbank AG, BLZ 853 400 00, Konto: 200 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 353 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFBV
Fachbetrieb nach VwHG

COMPANY CERTIFICATE OF CONFORMITY

EX-07

PAGE 1		No. of pages 4	
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05	
		3. Government Contract No. DAAA09-D3-D-0014	
4. Mailed to (Delegatee) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-	
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 93,516 LBS Final 4,501,858 lbs	

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specifications(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 23 JUL 2007

David Fincher
DAVID FINCHER
Managing Director

Kenneth Lampkin
Kenneth Lampkin
Explo Systems Inc.
Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 255 Bomb M117A3	<u>93,516 lbs</u>		815,940 lbs	3,592,402 lbs
	Bomb N°			223	
	COP-114-2	718 LBS	5036,5039	2	
	COP-119-2	68,158 LBS	4634,4638,4645 4646,4647,4648 4649,4650,4651 4652,4653,4654 4655,4656,4657 4658,4659,4660 4661,4662,4663 4664,4665,4666 4667,4668,4669 4670,4671,4672 4673,4674,4685 4686,4691,4692 4695,4696,4701 4702,4703,4704 4707,4708,4725 4726,4727,4728		16

	COP-119-2 (CONT)		4729,4730,4731 4732,4733,4735 4736,4737,4738 4739,4740,4741 4742,4745,4746 4749,4750,4753 4754,4755,4756 4757,4758,4759 4760,4761,4762 4763,4764,4765 4766,4767,4768 4771,4772,4773 4774,4775,4776 4777,4778,4779 4780,4781,4782 4783,4784,4785 4786,4787,4788 4789,4790,4791 4792,4793,4794 4795,4796,4797 4798,4799,4800 4801,4802,4803 4804,4805,4806 4807,4808,4809 4810,4811,4812 4813,4814,4815 4816,4817,4818 4819,4820,4821 4822,4823,4824 4825,4826,4827 4828,4835,4836 4845,4846,4851 4852,4853,4854 4857,4858,4859 4860,4861,4862 4863,4864,4865 4866,4867,4868 4919,4928,4931 4932,4935,4936 4939,4940,4941 4942,4943,4944 4945,4946,4947 4948,4949,4950 4951,4953,4954 4955,4956,4959 4960,4983	137	
	COP-119-3	675 LBS	4675,4676	2	
	COP-121-2	6,699 LBS	4829,4830,4832 4833,4834,4837 4838,4839,4840 4841,4842,4843 4844,4847,4848 4849,4850,4855 4856	19	

	COP-121-3	17,266 LBS	.4677,4678,4679 .4680,4681,4682 4683,4684,4687. 4688,4689,4690. 4693,4694,4697. 4698,4699,4700 4705,4706,4709 4710,4711,4712 4713,4714,4715 4716,4717,4718 4719,4720,4721 4722,4723,4724 4887,4888,4890 4893,4894,4895 4899,4901,4902 4903,4904		
	MIXED FROM PRESS 1 AND 2	2,000 LBS			

14. Delegator's Reference	Date:
15. Governmental Quality Assurance Service (Delegatee) 54402A	16. Date: 23 Jul 2007 Signature: <i>D. Pratt</i> Name (print): D. PRATT
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No: 2007221 Date: July 31, 2007

Customer-No. D161140 Contract No. DAAA0903D0014 our Sign Härtl
PO: AT1544
KSt.Nr. 811 KTr.Nr. 7300 Kto: 400020
VAT- Ident.No.: DE 1388 58 395 Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
88.685	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 37 July 30, 2007 88.685,0	\$0,7000	\$62.079,50
88.685	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$20.146,83

RECEIVED
AUG 06 2007

Total all Items	VAT	Total Amount
\$41.932,67	0%	\$0,00
		\$41.932,67

Payable within 30 days upon receipt of the invoice \$ 41,930.27

\$ 41,930.27

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id.-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 250 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 160 800 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFoV
Fachbetrieb nach WHG

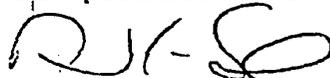
COMPANY CERTIFICATE OF CONFORMITY

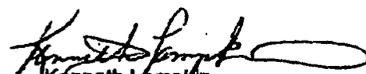
EX-08

PAGE 1	No. of pages 4
1. Purchaser Allant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA09-03-D-0014
4. Mailed to (Delegate) Industriepark Spreewerk LÜbben GmbH Börnichen 99 15907 LÜbben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 88,685 LBS Final 4,501,858 lbs

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 30 JUL 2007


 DAVID SMITH
 Managing Director


 Kenneth Lampkin
 Explo Systems Inc.
 Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 250 Bomb M117A3	<u>88,685 lbs</u>		727,255 lbs	3,885,918 lbs
	Bomb N°			<u>250</u>	
	COP-114-2	761 LBS	6361,6362	2	
	COP-119-2	69,658 LBS	4532,4533,4534 4535,4536,4537 4538,4539,4540 4541,4542,4543 4544,4545,4546 4547,4548,4551 4552,4557,4558 4559,4560,4581 4562,4563,4564 4565,4566,4569 4570,4573,4574 4577,4578,4579 4580,4581,4582 4583,4584,4585 4586,4587,4588 4590,4591,4592	48	

	COP-119-2 (CONT)		4593,4594,4595 4596,4597,4598 4599,4600,4601 4602,4603,4604 4605,4606,4607 4608,4609,4610 4611,4612,4613 4614,4615,4616 4617,4618,4619 4620,4621,4622 4623,4624,4625 4626,4627,4628 4629,4630,4631 4632,4633,4635 4636,4637,4639 4640,4641,4642 4644,4743,4744 4747,4748,4749 4750,4751,4752 4859,5165,5168 5171,5172,5173 5174,5175,5181 5184,5185,5186 5195,5196,5209 5210,5211,5212 5213,5216,5217 5218,5219,5220 5221,5222,5223 5224,5225,5226 5227,5228,5229 5230,5231,5232 5233,5234,5235 5236,5239,5240 5241,5242,5243 5244,5245,5246 5247,5248,5249 5250,5251,5252 5253,5254,5256 5257,5258,5263 5264,5265,5266 5267,5268,5269 5270,5271,5272 5273,5274,5276 5277,5279,5280 5281,5282,5283 5284,5285,5287 5288,5289,5290 5291,5292,5293 5294,5295,5296 5297,5298,5299 5300	151	
	COP-119-3	672 LBS	4379,4380	2	
	COP-121-2	1,016 LBS	4375,4376,4831	3	

	COP-121-3	14,440 LBS	4549,4550,4553 4554,4555,4556 4567,4568,4571 4572,5301,5302 5303,5304,5305 5306,5307,5308 5309,5310,5311 5312,5313,5314 5315,5318,5319 5320,5321,5322 5323,5324,5325 5326,5327,5328 5331,5332,5333 5334,5335,5336 5801,5802	44	
	MIXED FROM PRESS 1 AND 2	2,140 LBS			

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: 30 Jul 2007 Signature: <i>D. Pratt</i> Name (print):
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No: 2007236

Date: August 07, 2007

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
105.260	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 38 August 06, 2007 105.260,0	\$0,7000	\$73.682,00
105.260	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$23.912,22

Total all Items	VAT	Total Amount
-\$40.769,78	0%	\$49.769,78

Payable within 30 days upon receipt of the invoice \$ 49,766.93

\$ 49,766.93

RECEIVED AUG 14 2007

Industriepark Spreewerk Lützen GmbH
Sitz: Börmichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Curt von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 350 400 00, Konto: 800 505 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EfbV
Fachbetrieb nach WHG

	COP-114-2 (CONT)		6419,6420,6421 6422,6423,6424 6429,6430,6431 6432,6437,6438 6439,6440,6441 6442,6445,6447 6448,6451,6452	21	
	COP-119-2	64,379 LBS	5114,5109,5110 5111,5112,5113 5115,5117,5118 5119,5120,5121 5122,5123,5124 5125,5126,5127 5128,5129,5130 5133,5134,5135 5136,5137,5138 5141,5142,5143 5144,5145,5146 5149,5150,5151 5152,5153,5154 5155,5156,5157 5158,5159,5160 5161,5162,5163 5164,5167,5168 5169,5170,5189 5180,5181,5192 5183,5194,5198 5201,5202,5204 5205,5208,5209 6159,6160,6161 6162,6213,6214 6219,6220,6245 6247,6248,6249 6250,6253,6254 6259,6261,6262 6263,6264,6265 6266,6267,6268 6269,6270,6271 6272,6273,6274 6276,6277,6278 6279,6280,6281 6282,6283,6284 6287,6288,6289 6290,6293,6294 6295,6296,6297 6298,6299,6300 6303,6304,6305 6306,6308,6309 6310,6311,6312 6317,6318,6319 6320,6325,6326 6327,6328,6331 6332,6335,6336 6337,6338,6345 6346,6347,6348 6353,6354,6355 6356,6357,6358 6360,6365,6373 6377,6378,6379 6383,6387,6388 6399,6400,6401 6402,6407,6408	65	

	COP-118-2 (CONT)		6409,6410,6413 6414,6415,6416 6425,6426,6433 6434,6435,6436 6443,6444,6449 6450	16	
	COP-121-2	10,063 LBS	8158,8163,8164 8165,8166,8217 8218,8227,8230 8231,8232,8233 8234,8236,8237 8240,8243,8244 8251,8252,8255 8256,8257,8258 8351,8352,8405 8406	28	
	MIXED FROM PRESS 1 AND 2	2,477 LBS			

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegator)	16. Date: <u>6 Aug 2007</u> Signature: <u>D. Pratt</u> Name (print): <u>D. PRATT</u>
17. REMARKS / OBSERVATIONS	



Ø

Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No:

2007237

Date: August 14, 2007

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
75.183	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 39 August 13, 2007 75.183,0	\$0,7000	\$52.628,10
75.183	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$17.079,54

Total all Items	VAT	Total Amount
\$35.548,56	0%	\$0,00
		\$35.548,56

Payable within 30 days upon receipt of the invoice \$ 35,546.52

RECEIVED AUG 20 2007 \$ 35,546.52

Industriepark Spreewerk Lützen GmbH
Sitz: Börmichen 99, 15907 Lützen - Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 - Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de - Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 - Ust-Id-Nr.: DE 138858395
Bankverbindung: Commerzbank AG, BLZ 650 400 00, Konto: 800 506 300
Dresdner Bank AG, BLZ 180 300 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFbv
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

EX-10

PAGE 1		No. of pages 4	
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05	
		3. Government Contract No. DAAA09-03-D-0014	
4. Mailed to (Delegatee) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-	
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71065 -USA-		6. b. Shipment number on order 1 Partial 75,183 LBS Final 4,501,858 lbs	

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 13 AUG 2007


DAVID SMITH
Managing Director


Kenneth Lampkin
Explo Systems Inc.
Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 208 Bomb M117A3	<u>75,183 lbs</u>		546,812 lbs	3,879,863 lbs
	Bomb N°			<i>206</i>	
	COP-114-2	658 LBS	6138,6364	2	
	COP-119-2	28,614 LBS	5118,5937,5938 5939,5940,5941 5942,5943,5944 5945,5946,5947 5948,5949,5950 5951,5952,5953 5955,5956,5957 5958,5959,5960 5961,5962,5963 5964,5965,5966 5967,5968,5969 5974,5975,5976 5977,5978,5983 5984,5985,5986 5987,5988,5990	45	

	COP-119-2 (CONT)		5991,5992,5999 6000,6001,6002 6006,6007,6008 6009,6010,6011 6012,6013,6014 6015,6016,6017 6018,6019,6020 6025,6026,6073 6074,6080,6081 6148,6150,6154 6241,6242,6260 6275,6366,6374 6380	37	
	COP-121-2	37,670 LBS	6021,6022,6027 6028,6029,6030 6033,6034,6035 6036,6037,6038 6039,6040,6041 6043,6044,6045 6046,6047,6048 6049,6050,6051 6052,6054,6055 6056,6057,6059 6060,6061,6062 6063,6064,6066 6067,6068,6069 6070,6071,6072 6075,6076,6077 6078,6082,6085 6086,6087,6088 6089,6090,6091 6092,6094,6095 6096,6097,6098 6099,6101,6102 6104,6105,6106 6107,6108,6110 6111,6112,6113 6114,6115,6116 6117,6118,6119 6120,6122,6126 6131,6132,6135 6136,6142,6145 6146,6155,6157 6169,6170,6171 6172,6215,6216 6221,6222,6223 6224,6225,6226 6228,6229,6235 6238,6239	107	

	COP-121-3	5,786 LBS	5891,5892,5893 5894,5895,5896 5897,5898,5899 5903,5904,5909 5910,5915,5916	15	
	MIXED FROM PRESS 1 AND 2	2,455 LBS			

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegate)	16. Date: 13. Aug 2007 Signature: <i>D. Pratt</i> Name (print):
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No:

2007240

Date: August 22, 2007

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811
KTr.Nr. 7300
Kto: 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
97.624	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 40 August 20, 2007 97.624,0	\$0,7000	\$68.336,80
97.624	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$22.177,52

Total all Items	VAT	Total Amount
\$46.159,28	0%	\$46.159,28

Payable within 30 days upon receipt of the invoice \$46,156.63

\$ 46,156.63

RECEIVED AUG 29 2007

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-ID-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 185 800 00, Konto: 06 200 333 00

✦ Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFbV
Fachbetrieb nach WHC

COMPANY CERTIFICATE OF CONFORMITY

CC EX-11

PAGE 1	No. of pages 4
1. Purchaser Alfiant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA09-03-D-0014
4. Mailed to (Delegatee) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 97,624 LBS Final 4,501,858 lbs

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies described below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 20 AUG 2007


DAVID FINCHER
 Managing Director


Kenneth Lampkin
 Explo Systems Inc.
 Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 276 CC Bomb M117A3	<u>97,624 lbs</u>		499,188 lbs	3,955,046 lbs
	Bomb N*			(276)	
	COP-114-2	2,265 LBS	6137,6143,6385 6389,6427,6428 6448	7	
	COP-118-5	586 LBS	6723,6724	2	
	COP-119-2	41,737 LBS	5176,5177,5178 5179,5180,5182 5183,5187,5188 5197,5199,5200 5203,5204,5214 5215,5237,5238 5255,5259,5260 5261,5262,5275 5278,5286,5817 5818,5819,5820	30	

	COP-119-2 (CONT)		5821,5822,5827 5828,5927,5928 5929,5930,5931 5932,5954,5971 5972,5973,5979 5980,5981,5982 5989,5993,5994 5995,5996,5997 5998,6003,6004 6005,6079,6084 6147,6149,6153 6246,6307,6359 6384,6663,6664 6717,6718,6727 6728,6735,6736 6743,6744,6747 6748,6751,6752 6753,6754,6757 6758,6766,6766 6771,6772,6775 6776,6777,6778 6779,6800,6780 6781,6782,6783 6784,6785,6786 6787,6788,6789 6790,6124,6791 6792,6793,6794 6795,6796,6797 6798,6799,6803 6804,6807,6808	90	
	COP-119-6	5,455 LBS	6707,6708,6725 6726,6729,6730 6731,6732,6733 6734,6737,6738 6739,6740,6745 6746	16	
	COP-121-2	13,736 LBS	5925,5926,5933 5934,5935,5936 6023,6024,6031 6032,6042,6053 6058,6065,6083 6093,6100,6103 6109,6121,6123 6124,6125,6127 6128,6129,6130 6133,6134,6135 6141,6151,6152 6156,6801,6802 6805,6806,6809 6810	40	
	COP-121-3	31,904 LBS	5803,5804,5808 5810,5815,5816 5823,5824,5825 5826,5829,5830 5831,5832,5833 5834,5835,5836 5837,5838,5839 5840,5841,5842	24	

	<p>COP-121-3 (CONT)</p>		<p>5843,5844,5845 5846,5847,5848 5849,5850,5851 5852,5853,5854 5855,5856,5857 5858,5859,5860 5861,5862,5863 5864,5865,5866 5867,5868,5869 5870,5871,5872 5873,5874,5875 5876,5877,5878 5879,5880,5881 5882,5883,5884 5885,5886,5887 5888,5889,5890 5900,5901,5902 5907,5908,5909 5910,5911,5912 5913,5914,5917 5918,5919,5920 5921,5922,5923 5924</p>	<p>57</p>	
	<p>MIXED FROM PRESS 1 AND 2</p>	<p>1,941 LBS</p>			



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No: 2007242

Date: August 28, 2007

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811
KTr.Nr. 7300
Kto: 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
87.148	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 41 August 27, 2007 87.148,0	\$0,7000	\$61.003,60
87.148	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$19.797,66

Total all Items	VAT	Total Amount
\$41.205,94	0%	\$0,00
		\$41.205,94

Payable within 30 days upon receipt of the invoice \$ 41,203.57

\$ 41,203.57

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blus, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138858395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 300 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFbV
Fachbetrieb nach WHG

RECEIVED SEP 05 2007

COMPANY CERTIFICATE OF CONFORMITY

EX-12

PAGE 1	No. of pages 4
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA09-03-D-0014
4. Mailed to (Delegator) Industriepark Spreewerk Löbben GmbH Börnichen 99 15907 Löbben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 1 87,148 LBS Final 4,501,858 lbs

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 27 AUG 2007



DAVID SMITH
Managing Director



Kenneth Lampkin
Explo Systems Inc.
Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 242 Bomb M117A3	<u>87,148 lbs</u>		362,040 lbs	4,052,670 lbs
	Bomb N°			(242)	
	COP-118-5	<u>726 LBS</u>	6715,6716	2	
	COP-119-2	<u>69,149 LBS</u>	6483,6464,6473 6474,6483,6484 6493,6494,6495 6496,6497,6498 6499,6500,6501 6502,6503,6504 6505,6506,6507 6508,6509,6510 6511,6512,6513 6514,6515,6516 6517,6518,6519 6520,6521,6522 6523,6524,6525 6526,6527,6528 6529,6530,6531 6532,6535,6536 6541,6542,6543	51	

	COP-119-2 (CONT)		6544,6545,6546 6547,6548,6551 6552,6557,6558 6563,6564,6567 6568,6569,6570 6571,6572,6573 6537,6538,6574 6575,6576,6577 6578,6579,6580 6581,6582,6583 6584,6585,6586 6589,6590,6595 6596,6597,6598 6599,6600,6601 6602,6603,6604 6605,6606,6607 6608,6609,6610 6611,6612,6613 6614,6615,6616 6617,6618,6619 6620,6621,6622 6623,6624,6625 6626,6627,6628 6629,6630,6631 6632,6633,6634 6635,6636,6637 6638,6639,6640 6641,6642,6643 6644,6649,6650 6651,6652,6653 6654,6655,6656 6657,6658,6659 6660,6661,6662 6665,6666,6667 6668,6669,6670 6671,6672,6673 6674,6675,6676 6677,6678,6679 6680,6681,6682 6683,6684,6685 6686,6687,6688 6689,6690,6691 6692,6721,6722 6741,6742,6749 6750,6755,6756 6759,6760,6761 6762,6763,6764 6767,6768,6769 6770,6773,6774	147	
	COP-119-5	<u>8,194 LBS</u>	6587,6588,6591 6592,6593,6594 6693,6694,6695 6696,6697,6698 6699,6700,6701 6702,6703,6704 6705,6706,6709 6710,6711,6712 6713,6714	26	
	COP-121-2	<u>1,476 LBS</u>	6645,6646,6647 6648	4	

	COP-121-3	<u>4,344 LBS</u>	6549,6550,6553 6554,6555,6556 6559,6560,6561 6562,6565,6566	12	
	MIXED FROM PRESS 1 AND 2	<u>2,290 LBS</u>			

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: 27 Aug 2007 Signature: <i>D. Pratt</i> Name (print): D. PRATT
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No:

2007247

Date: August 31, 2007

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
73.151	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY)	\$0,7000	\$51.205,70
	(Date) (quantity) CoC # 42 August 31, 2007 73.151,0		
73.151	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$16.617,91

Total all Items	VAT	Total Amount
\$34.587,78	0%	\$34.587,78

Payable within 30 days upon receipt of the invoice

RECEIVED SEP 12 2007

€ 34,585,79

€ 34,585,79

Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 650 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 190 800 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EfbV
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

EX-13

PAGE 1	No. of pages 3
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA09-03-D-0014
4. Mailed to (Delegator) Industriepark Spreewerk Lübben GmbH Börmichen 99 15907 Lübben -Germany-	6. a. Shipped to (Consignee) Expro Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-
5. From (Supplier) Expro Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 73,151 LBS Final 4,501,858 lbs

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 31 AUG 2007



DAVID SMITH
Managing Director



Kenneth Lampkin
Expro Systems Inc.
Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 207 Bomb M117A3 Bomb N°	<u>73,151 lbs</u>		288,889 lbs	4,139,818 lbs
	COP-114-2	<u>4,792 LBS</u>	7051,7052,7077 7078,7113,7114 7215,7216,7425 7428,7431,7432 7527,7528	207 14	
	COP-118-5	<u>15,548 LBS</u>	6719,6720,7415 7416,7435,7436 7439,7440,7441 7442,7445,7446 7449,7450,7451 7452,7455,7456 7459,7460,7497 7498,7503,7504 7515,7516,7519 7520,7521,7522 7525,7526,7531	33	

	COP-118-5 (CONT)		7532,7535,7536 7539,7540,7541 7542,7545,7546 7551,7552,7591 7592	13	
	COP-119-2	<u>31,252 LBS</u>	6533,6534,6453 6454,6455,6456 6457,6458,6459 6460,6461,6462 6465,6466,6467 6468,6469,6470 6471,6472,6475 6476,6477,6478 6479,6480,6481 6482,6485,6486 6487,6488,6489 6490,6491,6492 6539,6540,7383 7384,7387,7388 7391,7392,7401 7402,7405,7406 7407,7408,7409 7410,7417,7418 7419,7420,7423 7424,7429,7430 7457,7458,7461 7462,7463,7464 7465,7466,7467 7468,7469,7470 7471,7472,7473 7474,7475,7476 7479,7480,7485 7486,7507,7508 7517,7518,7523 7524,7529,7530	90	
	COP-119-3	<u>743 LBS</u>	7547,7548	2	
	COP-119-4	<u>702 LBS</u>	8499,8500	2	
	COP-121-2	<u>8,429 LBS</u>	7413,7414,7481 7482,7495,7486 7499,7500,7501 7502,7505,7506 7509,7510,7533 7534,7537,7538 7543,7544,7549 7550,7555,7556	24	
	COP-121-3	<u>9,805 LBS</u>	7421,7422,7427 7428,7434,7437 7438,7443,7444 7453,7454,7477 7478,7481,7482 7483,7484,7487 7488,7489,7490 7493,7494,7511 7512,7553,7554 7561,7562	29	
	MIXED FROM PRESS 1&2	<u>1,882 LBS</u>			

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: 31 Aug 2007 Signature: <i>P. Pratt</i> Name (print): P. PRATT
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No: 2007254

Date: September 12, 2007

Customer-No.
D161140

Contract No:
DAAA0903D0014
RO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
70.320	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 43 Sept.11,2007 70.320,0	\$0,7000	\$49.224,00
70.320	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$15.974,80

Total all Items	VAT	Total Amount
-\$33.249,20	0%	-\$33.249,20

Payable within 30 days upon receipt of the invoice

\$ 33,247.30

\$ 33,247.30

Industriepark Spreewerk Lübben GmbH
Sitz: Börsichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 45 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Perzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFhV
Fachbetrieb nach WHG

RECEIVED SEP 18 2007

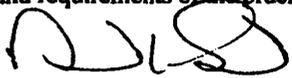
COMPANY CERTIFICATE OF CONFORMITY

EX-14

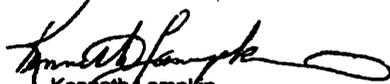
PAGE 1		No. of pages 4	
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05	
		3. Government Contract No. DAAA09-03-D-0014	
4. Mailed to (Delegator) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-	
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 70,320 LBS Final 4,501,858 lbs	

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 11 sep 2007



DAVID SMITH
Managing Director



Kenneth Lampkin
Explo Systems Inc.
Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 200 Bomb M117A3	<u>70,320 lbs</u>		218,569 lbs	4,212,969 lbs
	Bomb N°			(200)	
	COP-108-1	<u>315 LBS</u>	8511	1	
	COP-109-1	<u>688 LBS</u>	8479,8480	2	
	COP-108-4	<u>5,781 LBS</u>	8445,8446,8471 8472,8487,8488 8491,8492,8493 8494,8495,8496 8503,8504,8507 8508	16	
	COP-109-6	<u>688 LBS</u>	8447,8448	2	
	COP-108-8	<u>692 LBS</u>	8449,8450	2	
	COP-112-3	<u>3,436 LBS</u>	8427,8428,8431 8432,8467,8468 8477,8478,8497 8498	10	

COP-114-2	<u>1,952 LBS</u>	7385,7386,7393 7394,8435,8436	6
COP-114-5	<u>689 LBS</u>	8451,8452	2
COP-115-1	<u>875 LBS</u>	8465,8466	2
COP-116-2	<u>654 LBS</u>	8505,8506	2
COP-118-1	<u>668 LBS</u>	8469,8470	2
COP-118-5	<u>839 LBS</u>	7513,7514	2
COP-118-2	<u>26,045 LBS</u>	7269,7270,7273 7274,7277,7278 7279,7280,7283 7284,7289,7290 7295,7296,7297 7298,7301,7302 7303,7304,7305 7306,7309,7310, 7315,7316,7325 7326,7331,7332 7335,7336,7339 7340,7343,7344 7345,7346,7349 7350,7351,7352 7353,7354,7355 7356,7357,7358 7359,7360,7361 7362,7363,7364 7365,7366,7367 7368,7369,7370 7371,7372,7373 7374,7375,7376 7379,7380,7403 7404,7411,7412 8433,8434	74
COP-119-3	<u>2,724 LBS</u>	8421,8422,8423 8424,8453,8454 8513,8514	8
COP-119-4	<u>1,394 LBS</u>	8475,8476,8515 8516	4
COP-119-5	<u>4,443 LBS</u>	7377,7378,7381 7382,7389,7390 7395,7396,7397 7398,7399,7400 7433	13
COP-121-1	<u>1,233 LBS</u>	8429,8430,8509 8510	4

	COP-121-2	<u>10,085 LBS</u>	7271, 7272, 7281 7282, 7285, 7286 7281, 7282, 7307 7308, 7313, 7314 7317, 7318, 7323 7324, 7327, 7328 7329, 7330, 7333 7334, 7337, 7338 7341, 7342, 7347 7348, 8282	29	
	COP-121-3	<u>5,913 LBS</u>	7275, 7276, 7287 7288, 7289, 7293 7294, 7299, 7300 7311, 7312, 7447 7448, 8485, 8486 8489, 8490	17	
	COP-121-4	<u>897 LBS</u>	8501, 8502	2	
	MIXED FROM PRESS 182	<u>1,971 LBS</u>			



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

Invoice-No: 2006166

Date: May 26, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
115.102	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 16 May 26, 2006 115.102,0	\$0,7000	\$80.571,40
115.102	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$26.148,05

Total all Items	VAT	Total Amount
\$54.423,35	0%	\$54.423,35

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Börmichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt HRB 0151 · Ust-Id-Nr.: DE 138 858 395

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1	No. of pages 4
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA09-03-D-0014
4. Mailed to (Delegatee) Industriepark Spreewerk LÜbben GmbH Börnichen 99 15907 LÜbben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 115,102 LBS Final 4,501,858 lbs

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 26 MAY2006


DAVID FINCHER
Managing Director


Kenneth Larpokin
Explo Systems Inc.
Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 314 Bomb M117A3	115,102 lbs		2,624,124 LBS a 69	1,762,632 lbs
	Bomb N° COP-109-4	39,391 LBS	2282/2288/2287/ 2280/2281/2282/ 2283/2284/2285/ 2286/2287/2288/ 2289/2300/2301/ 2302/2303/2304/ 2305/2308/2307/ 2308/2309/2310/ 2311/2314/2315/ 2316/2317/2318A 2319/2320/2321/ 2322/2323/2324/ 2325/2326/2327/ 2328/2329/2332/ 2333/2334/2335/ 2336/2337/2338/ 2339/2340/2341/ 2342/2343/2344/ 2345/2346/2347/ 2348/2349/2350/ 2351/2352/2353/ 2354/2355/2356/ 2357/2358/2359/		

	COP-109-4 (CONT)		2360/2381/2382/ 2363/2364/2365/ 2366/2367/2368/ 2369/2370/2371/ 2372/2373/2374/ 2375/2376/2377/ 2380/2381/2382/ 2383/2384/2385/ 2386/2387/2388/ 2389/2390/2391/ 2392/2393/2394/ 2395/2396/2397/ 2398/2399/2400/ 2401/2402/2403/ 2405/2406/2407/ 2408/2409/2410/ 2411/2858/2859	51	
	COP-114-3	10,933 LBS	2859/2864/2865/ 2866/2867/2868/ 2874/2875/2876/ 2877/2878/2852/ 2854/2855/2862/ 2866/2867/2881/ 2981/2983/3000/ 3001/3002/3006/ 3007/3008/3013/ 3016/3017/3018/ 3020/3024/3026/ 3027	34	
	COP-116-3	41,430 LBS	3037/3038/3039/ 3040/3041/3042/ 3043/3046/3052/ 3054/3053/3055/ 3056/3058/3059/ 3060/3062/3063/ 3066/3067/3068/ 3069/3070/3071/ 3072/3073/3074/ 3075/3076/3077/ 3078/3079/3080/ 3081/3082/3083/ 3084/3085/3086/ 3087/3088/3089/ 3090/3091/3092/ 3093/3094/3095/ 3096/3097/3098/ 3099/3100/3101/ 3102/3103/3104/ 3105/3106/3107/ 3108/3109/3110/ 3111/3112/3113/ 3114/3115/3116/ 3117/3118/3119/ 3120/3121/3122/ 3123/3124/3125/ 3127/3128/3129/ 3130/3131/3136/ 3137/3180/3181/ 3182/3183/3184/ 3185/3186/3187/ 3188/3189/3190/ 3191/3192/3193/ 3194/3195/3196/ 3197/3198/3199/ 3200/3201/3202/ 3203/3204/3205/ 3206/3207/3208/ 3209/3210/3211/ 3212/3213/3214/	120	205

	COP-116-3 (CONT)		3215/3216/3217/ 3218/3219/3220/ 3221/3222/3223/ 3224/3225	11	
	COP-118-4	6,438 LBS	2414/2415/2416/ 2417/2418/2419/ 2420/2421/2424/ 2425/2426/2427/ 2428/2429/2432/ 2433/2436/2437/ 2442/2443	20	
	COP-119-4	605 LBS	2456/2457	2	
	COP-500-5	2,175 LBS	2880/2881/2885/ 2886/2887/2888/ 2890	7	(40)
	Mixed from above Lot #	14,132 LBS	MIXED FROM STEAM HOODS		

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegate)	16. Date: 25 Nov 00 Signature: [Handwritten Signature] Name (print):
17. REMARKS / OBSERVATIONS Gtg only	



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

Invoice-No: 2006190

Date: June 02, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811
KTr.Nr. 7300
Kto: 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

*304
~~305~~ bombs*

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
112.237	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 17 June 02, 2006 112.237,0	\$0,7000	\$78.565,90
112.237	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.497,20

Total all Items	VAT	Total Amount
\$53.068,70	0%	\$53.068,70

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id.-Nr.: DE 138858395

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

Invoice-No: 2006190

Date: June 02, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
112.237	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 17 June 02, 2006 112.237,0	\$0,7000	\$78.565,90
112.237	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.497,20

Total all Items	VAT		Total Amount
\$53.068,70	0%	\$0,00	\$53.068,70

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
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E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300

✦ Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach FFhV

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1	No. of pages 4
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA09-03-D-0014
4. Mailed to (Delegate) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 112,237 LBS Final 4,501,858 lbs

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

2 JUN 2006
Date

DAVID FINCHER
Managing Director

Kenneth Lampkin
Kenneth Lampkin
Explo Systems Inc.
Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 305 Bomb M117A3	112,237 lbs		2,511,887 LBS	1,877,734 lbs
	Bomb N° COP-109-4	7,726 LBS	185/188/229/ 230/283/2268/ 2269/2270/2271/ 2272/2273/2274/ 2275/2276/2277/ 2278/2279/2280/ 2281/2283/2284/ 2285/2404	23	
	COP-109-6	830 LBS	161/162/232	3	
	COP-112-3	3,621 LBS	138/140/219/ 226/227/228/ 241/243/244/ 245/246/	11	
	COP-114-2	1,285 LBS	217/218/235/236	4	

	COP-114-3	59,614 LBS	2739/2734/2735/ 2738/2737/2738/ 2740/2741/2742/ 2743/2746/2747/ 2748/2749/2750/ 2751/2752/2753/ 2754/2755/2757/ 2758/2760/2761/ 2762/2763/2764/ 2765/2766/2767/ 2768/2769/2770/ 2771/2772/2773/ 2774/2775/2776/ 2777/2778/2779/ 2780/2781/2782/ 2783/2784/2785/ 2786/2787/2788/ 2789/2790/2791/ 2792/2793/2794/ 2795/2796/2797/ 2798/2799/2800/ 2801/2802/2803/ 2804/2805/2806/ 2807/2808/2809/ 2810/2811/2812/ 2813/2814/2815/ 2816/2817/2818/ 2820/2821/2826/ 2827/2828/2829/ 2830/2831/2832/ 2833/2834/2835/ 2836/2837/2838/ 2839/2840/2841/ 2842/2843/2844/ 2845/2846/2847/ 2848/2849/2850/ 2851/2854/2855/ 2856/2857/2858/ 2860/2861/2862/ 2863/2869/2870/ 2871/2872/2873/ 2879/2882/2883/ 2884/2889/2891/ 2892/2893/2896/ 2897/2898/2899/ 2900/2901/2902/ 2922/2923/2924/ 2925/2926/2927/ 2940/2941/2942/ 2943/2944/2945/ 2948/2947/2948/ 2949/2980/2982/ 2984/2985/2986/ 2987/2988/2992/ 2994/2995/2996/ 3000/3012/3018/ 3021/3022/3023/ 3025/3036/3044/ 3045/3047/3048/ 3049/3050/3051/ 3057/3061/3064/ 3065/3126	185	
	COP-116-3	4,196 LBS	2903/2904/2905/ 2906/2907/2912/ 2913/2914/2915/ 2916/2917/2918/ 2919	13 198	

	COP-118-0	675 LBS	223/224	2	
	COP-119-2	321 LBS	216	1	
	COP-119-3	2,612 LBS	192/206/221/ 222/237/238/ 247/248/	8	
	COP-119-4	988 LBS	183/184/1055	3	
	COP-121-3	313 LBS	176	1	
	COP-500-6	15,686 LBS	2819/2822/2823/ 2824/2825/2908/ 2909/2910/2911/ 2928/2829/2930/ 2931/2932/2933/ 2934/2935/2936/ 2937/2938/2939/ 2950/2951/2953/ 2956/2957/2960/ 2961/2963/2964/ 2965/2968/2968/ 2970/2971/2972/ 2973/2974/2975/ 2976/2977/2989/ 2990/2997/2998/ 2999/3003/3004/ 3005/	49	
	MCA-1-1	312 LBS	194	1	
	Mixed from above Lot #	13,948 LBS	MIXED FROM STEAM HOODS	(65)	

14. Delegator's Reference

Date:

15. Government Quality Assurance Service (Delegatee)

16.

Date:

1 June 2006

Signature:

[Handwritten Signature]

Name (print):

17. REMARKS / OBSERVATIONS



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

302

Invoice-No: 2006193

Date: June 09, 2006

Customer-No:
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.:
Taxpayer Identification code

DE 1388 58 395
202/118/02986

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
113.935	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 18 June 09, 2006 113.935,0	\$0,7000	\$79.754,50
113.935	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$26.882,94

Total all Items	VAT	Total Amount
\$53.871,56	0%	\$53.871,56

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Böttchen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 506 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EfbV
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 4			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05			
		3. Government Contract No. DAAA09-03-D-0014			
4. Mailed to (Designator) Industriepark Spreewerk LÜbben GmbH Bömichen 99 15907 LÜbben -Germany-		6. a. Shipped to (Consignee) Exlo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Exlo Systems, LLC. 1702 Fourth Street Minden, LA 71056 -USA-		6. b. Shipment number on order 1 Partial 113,935 LBS Final 4,501,858 lbs			
7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order. Date 9 JUN 2006 <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  DAVID FINCHER Managing Director </div> <div style="text-align: center;">  Kenneth Lampkin Exlo Systems Inc. Quality Assurance Manager </div> </div>					
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from S03 Bomb M117A3 Bomb N° COP-108-1 COP-109-1 COP-109-3 COP-109-4	113,935 LBS 664 LBS 1,347 LBS 666 LBS 18,208 LBS	 187/188 1079/1080/1081/1082 168/165 15/16/28/ 27/28/33/ 34/58/59/ 60/61/64/ 85/75/76/ 78/80/83/ 94/97/98/ 142/143/144/ 152/183/201/ 202/214/215/ 784/813/851/ 852/857/858/	2,387,862 LBS 2 4 2 36 44	1,989,971 lbs

COP-109-4 (CONT)		889/890/1021/ 1022/1051/1052/ 1057/1058/1065/ 1088/1087/1068/ 1073/1074/1083/ 1084/3859/3840/ 3877/3878	20
COP-109-5	786 LBS	148/151	2
COP-109-6	4,454 LBS	50/51/85/ 98/134/155/ 154/886/886/ 1051/1082/3640/ 3850	13
COP-109-8	1,364 LBS	5/125/943/ 944	4
COP-112-1	818 LBS	1019/1020	2
COP-112-3	11,627 LBS	28/30/32/ 54/55/118/ 118/132/133/ 141/188/187/ 172/173/177/ 178/179/160/ 187/198/205/ 207/231/233/ 814/849/850/ 858/960/877/ 978/981/892/ 1003/1006/1058	36
COP-112-4	1,327 LBS	81/82/1011/ 1012	4
COP-112-7	672 LBS	72/72	2
COP-114-2	4,544 LBS	773/78/ 43/88/89/ 112/113/137/ 138/191/193/ 220/225	14
COP-114-3	3,354 LBS	74/1003/1004/ 1077/1078/2744/ 2745/2758/2760/ 2889	10
COP-114-5	1,891 LBS	89/90/189/ 188/200	5
COP-115-1	4,426 LBS	48/71/85/ 87/88/89/ 110/111/128/ 180/1013/1014/ 1075/1078	14
COP-115-2	626 LBS	891/862	2
COP-115-3	621 LBS	135/136	2
COP-115-4	1,324 LBS	240/242/1071/ 1072	4

134

COP-118-1	1,847 LBS	2/9/10/ 888/1000	5
COP-118-3	842 LBS	1048/1050	2
COP-118-2	834 LBS	1001/1002	2
COP-118-4	878 LBS	3/4	1
COP-118-2	8,204 LBS	18/20/23/ 24/38/36/ 62/83/66/ 87/122/123/ 131/155/157/ 174/175/883/ 884/1008/1810/ 1045/1046/1053/ 1054	25
COP-118-3	13,583 LBS	11/12/13/ 14/17/18/ 39/40/44/ 45/56/57/ 83/84/101/ 102/103/104/ 107/108/118/ 128/129/186/ 284/228/284/ 783/845/848/ 847/848/897/ 958/1007/1008/ 1047/1048/1059/ 1060/1063/1084	42
COP-118-4	2,231 LBS	120/121/145/ 148/147/170/ 171	7
COP-118-5	3,283 LBS	52/53/81/ 82/1015/1016/ 1017/1018/1059/ 1070	10
COP-118-6	538 LBS	77/78	2
COP-121-1	4,655 LBS	11/42/45/ 47/48/85/ 100/105/108/ 144/151/24/ 3678/3680	14
COP-121-3	2,876 LBS	108/127/128/ 208/213/841/ 842/1038/1040	9
COP-121-4	661 LBS	189/190	2
MCA-1-1	862 LBS	11/203/204	3
Mixed from above Lot #	15,263 LBS	MIXED FROM STEAM HOODS	124

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegato)	16. Date: 5 Jan 06 Signature: <i>[Handwritten Signature]</i> Name (print):
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

300

Invoice-No: 2006196 **Date: June 16, 2006**

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

VAT- Ident.No.: DE 1388 68 385
Taxpayer identification code 202/118/02896

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
112.412	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 19 June 16, 2006 112.412,0	\$0,7000	\$78.688,40
112.412	Equalizing Advance Payment Request for Advance Payment No.: 2006320 (M1...M11) about : \$1.022.700,00	-\$0,2272	-\$25.536,96

Total all Items	VAT	Total Amount
\$53.151,44	0%	\$53.151,44

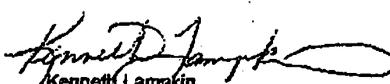
Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Udoen Blue, Dr. Wolfgang Perzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138868385
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 890 506 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 533 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN-EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFVB
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1	No. of pages 4
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1644 8/24/05
	3. Government Contract No. DAAA09-03-D-0014
4. Mailed to (Delegate) Industriepark Spreewerk Löbben GmbH Bürrichen 99 15907 Löbben -Germany-	6. a. Shipped to (Consignee) Expro Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-
5. From (Supplier) Expro Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 112,412 LBS Final 4,501,958 lbs
7. Certified that apart from the deviations/analysons noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order. Date 16 JUN 2006 <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> DAVID SMITH Managing Director </div> <div style="text-align: center;">  Kenneth Langokin Expro Systems Inc. Quality Assurance Manager </div> </div>	

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 300 Bomb M117A3 Bomb N°	112,412 LBS		2,285,540 LBS	2,109,908 lbs
	COP-108-1	894 LBS	4317/4318	2	
	COP-108-1	1,896 LBS	987/882/887/1/ 8872/4323/4324	6	
	COP-108-4	6,898 LBS	26/889/891/ 966/880/885/ 886/887/888/ 8843/3644/4088/ 4073/4074/4075/ 4088/4301/4302/ 4308/4310	20	
	COP-108-6	1,314 LBS	3673/4027/4028/ 4088	4	
				32	

COP-109-7	728 LBS	4039/4040	2
COP-109-8	227 LBS	6	1
COP-112-1	2,764 LBS	4032/4034/4037/ 4038/4042/4044/ 4097/4098	8
COP-112-2	692 LBS	4057/4058	2
COP-112-3	6,446 LBS	31/658/673/ 924/1037/1038/ 1041/1042/4039/ 4032/4075/4076/ 4081/4082/4087/ 4088/4089/4090/ 4101/4102	20
COP-112-4	1,961 LBS	976/976/981/ 982/984/1/3342	6
COP-114-2	2,286 LBS	8/4035/4036/ 4127/4128/4288/ 4300	7
COP-114-5	243 LBS	169	1
COP-115-1	5,882 LBS	70/683/684/ 3891/2652/4017/ 4018/4055/4086/ 4121/4122/4162/ 4305/4306/4316/ 4318/4408/4410	18
COP-115-2	1,262 LBS	4051/4052/4053/ 4054	4
COP-116-1	1,747 LBS	1/4041/4042/ 4058/4070	5
COP-116-2	948 LBS	3655/3656	2
COP-116-3	1,349 LBS	3676/3676/4419/ 4420	4
COP-116-1	2,538 LBS	4427/4428/4431/ 4432/4433/4434/ 4523/4524	8
COP-118-2	4,488 LBS	4071/4072/4411/ 4412/4417/4418/ 4426/4428/4433/ 4434/4487/4488/ 4489/4494	14
COP-118-5	640 LBS	4083/4084	2
COP-118-2	1,327 LBS	3648/3648/4051/ 4082/4473/4474	6

110

COP-118-3	16,659 LBS	871872887/ 8882838824/ 882688383853/ 885488818882/ 888288844088/ 882840884088/ 887740784088/ 88240884088/ 441744184147/ 414841504412/ 442844284430/ 446144524488/ 447044884488/ 448744884488/ 450045014502/ 46814682	47
COP-118-4	2,798 LBS	402840304047/ 404843034304/ 43114312	8
COP-118-6	2,587 LBS	888888888888/ 888888888888/ 4110	1
COP-118-8	889 LBS	401840204013	3
COP-121-1	4,060 LBS	21228888/ 388888888888/ 402240244128/ 412843074308	12
COP-121-2	21,812 LBS	384738484038/ 408049214322/ 440744084415/ 441544214422/ 443544384437/ 443844394440/ 444344444448/ 444844474448/ 444844504483/ 448544864480/ 448744824483/ 448444884487/ 448844714472/ 447544784477/ 447844884488/ 448144824487/ 480846084610/ 481145124513/ 481445174518/ 481845204521/ 482245254528/ 482745284529/ 4830	67
COP-121-3	4,048 LBS	104370443888/ 387040214022/ 404540464048/ 405040884089	12
MCA-1-1	648 LBS	953884	2
Mixed from above Lot#	13,827 LBS	MIXED FROM STEAM HOODS	158

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegator)	16. Date: 16 Jun 06 Signature: <i>RP</i> Name (print):
17. REMARKS / OBSERVATIONS <u>City only</u>	



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

303

Invoice-No: 2006202

Date: June 23, 2006

Customer-No:
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811 **KTr.Nr.** 7300 **Kto:** 400020

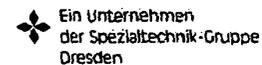
VAT- Ident.No.: DE 1388 58 395
Taxpayer Identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
111.792	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 20 June 23, 2006 111.792,0	\$0,7000	\$78.254,40
111.792	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$25.396,11

Total all Items	VAT	Total Amount
\$52.858,29	0%	\$52.858,29

Payable within 30 days upon receipt of the invoice

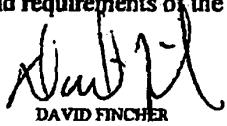
Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Pätzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRE 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00



Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFBV
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 4			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05		3. Government Contract No. DAAA09-03-D-0014	
4. Mailed to (Delegatee) Industriepark Spreewerk LÜbben GmbH Bömlchen 99 15907 LÜbben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial) 111,792 LBS Final 4,501,858 lbs			
7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
Date 23 JUN 2006		 DAVID FINCHER Managing Director		 Kenneth Lampkin Explo Systems Inc. Quality Assurance Manager	
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 303 Bomb M117A3	111,792 LBS		2,173,748 LBS	2,216,318 lbs
	Bomb N°				
	COP-108-1	617 LBS	853/854	2	
	COP-109-1	660 LBS	807/808	2	
	COP-109-4	18,877 LBS	721/733/734/ 747/748/749/ 750/763/764/ 777/778/787/ 798/803/804/ 805/806/809/ 810/825/826/ 835/836/845/ 846/851/852/ 861/862/869/ 864/879/880/ 883/884/899/ 900/915/916/ 921/922/923/ 924/868/878/	45	
				(49)	

	COP-109-4 (CONT)		883/884/1023/ 1024/1118/1120/ 1154/1173/1174/ 1181/1182/4318/ 4320	13	
	COP-109-6	3,657 LBS	767/768/771/ 772/807/808/ 925/926/969/ 970/4100	11	
	COP-109-7	664 LBS	881/882	2	
	COP-109-8	2,830 LBS	741/742/757/ 758/875/876/ 835/836	8	
	COP-112-1	681 LBS	847/848	2	
	COP-112-3	16,279 LBS	723/724/745/ 746/773/774/ 775/776/787/ 788/791/792/ 811/821/822/ 829/830/849/ 850/857/858/ 865/866/867/ 868/885/886/ 889/890/955/ 1029/1030/1033/ 1034/1108/1110/ 1112/1113/1114/ 1129/1130/1131/ 1132/1161/1162/ 4123/4124	47	
	COP-112-4	313 LBS	1167	1	
	COP-114-2	4,309 LBS	739/740/751/ 752/785/788/ 877/878/905/ 906/1035/1036/ 1069	13	
	COP-114-3	686 LBS	1025/1026	2	
	COP-114-5	620 LBS	781/782	2	
	COP-115-1	9,239 LBS	735/736/743/ 744/789/790/ 793/794/831/ 832/837/838/ 855/856/859/ 880/901/902/ 909/910/913/ 914/1157/1158/ 1160/1185/1186/ 4151	28	
	COP-115-4	1,320 LBS	903/904/933/ 934	4	
	COP-118-1	3,842 LBS	727/728/765/ 766/827/887/ 888/891/892/ 937/938/1145	12	145

GOP-118-1	1,313 LBS	4457/4458/4479/ 4480	4
COP-118-2	1,596 LBS	722/897/898/ 4481/4482	5
COP-119-2	2,982 LBS	587/737/738/ 755/756/841/ 842/839/840	9
COP-119-3	9,801 LBS	725/726/729/ 730/731/732/ 760/770/780/ 823/824/833/ 834/838/840/ 911/912/919/ 920/1158/1175/ 1176/1177/1178/ 4083/4084/4148/ 4414/4424/4431/ 4432	31
COP-119-4	1,295 LBS	781/762/828/ 1184	4
COP-119-5	1,985 LBS	795/798/889/ 870/1137/1109	6
COP-119-6	1,264 LBS	815/816/1151/ 4314	4
COP-121-1	3,360 LBS	788/770/843/ 844/917/918/ 1027/1028/1127/ 1128	10
COP-121-2	4,409 LBS	871/872/4454/ 4459/4485/4495/ 4496/4503/4504/ 4505/4506/4515/ 4516	13
COP-121-3	5,294 LBS	753/754/799/ 800/801/802/ 873/874/929/ 930/931/932/ 1147/1148/1149/ 1150	16
COP-121-4	873 LBS	1031/1032/1134	3
MCA-1-1	1,263 LBS	827/828/1179/ 1180	4
Mixed from above Lot #	12,893 LBS	MIXED FROM STEAM HOODS	109

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: Signature: <i>[Handwritten Signature]</i> Name (print):
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

300

Invoice-No: 2006213

Date: June 30, 2006

**Customer-No.
D161140**

**Contract No:
DAAA0903D0014
PO: AT1544**

**our Sign
Härtl**

KSt.Nr. 811 KTr.Nr. 7300 Kto: 400020

**VAT-Ident.No.: DE 1388 58 395
Taxpayer Identification code 202/118/02998**

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
107.846	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 21 June 30, 2006 107.848.0	\$0,7000	\$75.492,20
107.846	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$24.499,69

Total all Items	VAT	Total Amount
\$50.992,51	0%	\$50.992,51

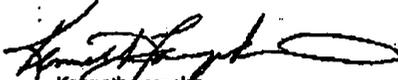
Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Stz.: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 55 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt; HRB 0151 · Ust-Id.-Nr.: DE 158 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 906 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach Elbv
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 4			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05		3. Government Contract No. DAAA09-03-C-0014	
4. Mailed to (Delegatee) Industriepark Spreewerk Lobben GmbH Börnichen 9B 15907 Lobben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 107,848 LBS Final 4,501,858 lbs			
7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
Date: 30 JUN 2008					
		 DAVID SMITH Managing Director		 Kenneth Lampkin Explo Systems Inc. Quality Assurance Manager	
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 300 Bomb M117A3	107,848 LBS		2,066,902 LBS	2,328,410 lbs
	Bomb N°			2	
	COP-109-1	609 LBS	713/714		
	COP-109-4	12,037 LBS	591/582/813/ 614/623/624/ 631/632/635/ 638/637/636/ 643/644/651/ 652/665/666/ 667/668/669/ 682/661/682/ 689/700/717/ 718/1101/1102/ — 1125/1128/1153/ 1163/1164/1189/ 1189	37	
	COP-109-5	919 LBS	688/680	2	
	COP-109-8	648 LBS	711/712/6874	3	44

COP-109-8	1,832 LBS	565/566/577/ 678/641/642	6
COP-112-3	6,016 LBS	648/650/616/ 627/628/638/ 640/653/654/ 663/694/612/ 1067/1098/1107/ 1109/1111/1191/ 1182	19
COP-112-4	940 LBS	659/660/168	3
COP-114-2	19,489 LBS	648/573/574/ 628/647/648/ 688/1095/1098/ 1099/1100/1170/ 1171/1172/5348/ 5360/5851/5362/ 5363/5354/5355/ 5356/5367/5368/ 5380/5380/5381/ 5382/5363/5384/ 5385/5388/5387/ 5386/5389/5370/ 5379/5374/5375/ 5370/5377/6378/ 5378/5380/5381/ 5382/5383/5384/ 5385/5388/5387/ 5388/5389/5390/ 5391/5392/5393/ 5394/5395/5396	60
COP-114-3	613 LBS	708/710	2
COP-114-6	2,487 LBS	607/608/709/ 704/705/706/ 718/716	8
COP-115-1	12,305 LBS	563/564/668/ 670/665/666/ 669/660/663/ 664/671/672/ 677/678/683/ 684/687/688/ 687/688/701/ 702/668/1091/ 1092/1093/1094/ 1115/1116/1122/ 1124/1135/1138/ 1139/1140/1168/ 1187/1188	38
COP-116-1	2,165 LBS	678/674/679/ 680/1089/1090/ 1146	7
COP-119-2	307 LBS	588	1
COP-119-3	3,653 LBS	571/578/576/ 695/696/759/ 1109/1104/1105/ 1108/1155	11

155

COP-119-4	3,273 LBS	888/858/857/ 858/855/1117/ 1118/1121/1122/ 1189	10
COP-119-5	300 LBS	1138	1
COP-119-6	898 LBS	581/552/1152	3
COP-121-1	4,155 LBS	817/818/848/ 820/851/882/ 889/870/707/ 708/1141/1142/ 3889	13
COP-121-2	10,209 LBS	718/720/1143/ 1144/840/15402/ 5403/5408/5411/ 5412/5415/5418/ 5417/5418/5419/ 5420/5421/5422/ 5423/5424/5427/ 5428/5431/5432/ 5435/5438/5437/ 5438/5441/5442/ 5443/5444	32
COP-121-3	12,480 LBS	611/512/820/ 821/822/845/ 848/873/878/ 1087/1088/1185/ 1186/53178318/ 5341/5342/5347/ 5348/5387/8388/ 8399/5400/5403/ 5404/5407/5408/ 5409/5410/5413/ 5414/5428/5428/ 5429/5430/5433/ 5434/5438/5440	39
COP-121-4	301 LBS	1133	1
COP-121-6	822 LBS	1085/1088	2
Mixed from above Lot #	11,822 LBS	MIXED FROM STEAM HOODS	101

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegate)	16. Date: 29 July 2006 Signature: <i>[Signature]</i> Name (print):
17. REMARKS / OBSERVATIONS <i>Qty only</i>	



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

201

Invoice-No: 2006238

Date: July 07, 2006

Customer-No.
D161140

Contract No.:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811
KTr.Nr. 7300
Kto: 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
75.498	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 22 July 07, 2006 75.498,0	\$0,7000	\$52.848,60
75.498	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$17.151,10

Total all Items	VAT	Total Amount
\$35.697,50	0%	\$0,00
		\$35.697,50

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lützen GmbH
Sitz: Börnicker 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRE 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

✦ Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EfbV
Fachoertrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1	No. of pages 4
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA09-03-D-0014
4. Mailed to (Delegate) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-	6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-	6. b. Shipment number on order 1 Partial 175,498 LBS Final 4,501,858 lbs

7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

Date 7 JULY 2006

DAVID SMITH
Managing Director


Kenneth Lampkin
Explo Systems Inc.
Quality Assurance Manager

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Used/delivered balance	13. Quantity received
002	Tritonal recovered from 201 Bomb M117A3	75,498 LBS		1,990,404 LBS	2,435,956 lbs
	Bomb N°				
	COP-106-1	1,253 LBS	343/344/553/554	4	
	COP-106-4	5,622 LBS	351/352/357/358/503/504/551/552/555/556/578/580/585/588/633/634	16	
	COP-106-5	1,284 LBS	383/384/391/382	4	
	COP-106-6	2,850 LBS	356/481/482/485/486/533/534/535/536	9	
	COP-106-7	631 LBS	387/388	2	

COP-109-8	667 LBS	521/522	2	
COP-112-1	2,596 LBS	379/380/483/ 484/505/506/ 509/510	8	
COP-112-3	6,848 LBS	378/345/348/ 359/360/368/ 377/501/502/ 631/532/545/ 546/547/548/ 589/590/588/ 800/601/602/ 615	22	
COP-112-4	1,237 LBS	557/558/587/ 588	4	
COP-114-2	7,288 LBS	353/354/425/ 426/432/485/ 486/518/520/ 541/542/547/ 581/582/595/ 596/597/588/ 630/537/5372/ 6139/6140	23	
COP-114-5	676 LBS	609/610	2	
COP-115-1	1,985 LBS	369/370/539/ 540/563/584	6	
COP-116-1	1,863 LBS	493/494/487/ 498/515/516/	6	
COP-116-2	313 LBS	508	1	
COP-116-3	622 LBS	511/512	2	
COP-118-6	1,892 LBS	6185/6188/6187/ 6188/6181/6192	6	
COP-119-2	3,218 LBS	349/423/543/ 544/6175/6176/ 6177/6178/6181/ 6182	10	
COP-119-3	7,928 LBS	365/366/373/ 374/411/412/ 414/480/487/ 488/489/500/ 513/514/517/ 518/529/530/ 537/538/572/ 583/584/603/ 604	25	
COP-119-4	296 LBS	430	1	
COP-119-5	2,476 LBS	347/348/419/ 420/481/482/ 525/526	8	
COP-121-1	348 LBS	409	1	129

	COP-121-2	10,346 LBS	5513/5514/5167/ 6168/6173/6174/ 6179/6180/6183/ 6184/6189/6190/ 6183/6194/6195/ 6196/6197/6198/ 6199/6200/6201/ 6202/6203/6204/ 6205/6206/6207/ 6208/6209/6210/ 6211/6212/	32	
	COP-121-3	2,269 LBS	371/372/375/ 376/489/490/ 618	7	(39)
	Mixed from above Lot #	11,912 LBS	MIXED FROM STEAM HOODS		

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegatee)	16. Date: Signature: <i>D. Pratt</i> Name (print):
17. REMARKS / OBSERVATIONS <i>Gtz only.</i>	



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

328

Invoice-No: 2006245

Date: July 14, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr.
811

KTr.Nr.
7300

Kto:
400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
115.972	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 23 July 14, 2006 115.972,0	\$0,7000	\$81.180,40
115.972	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$26.345,69

Total all Items	VAT	Total Amount
\$54.834,71	0%	\$54.834,71

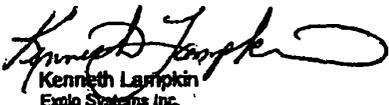
Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Gert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 132858395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 600 306 300
Dresdner Bank AG, BZ 180 800 00, Konto: 06 260 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFV
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 4			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05			
		3. Government Contract No. DAAA09-03-D-0014			
4. Mailed to (Delegate) Industriepark Spreewerk LÖbben GmbH Börnichen 99 15907 LÖbben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 115,972 LBS Final 4,501,858 lbs			
7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
Date 14 JULY 2006					
DAVID SMITH Managing Director		 Kenneth Lampkin Explo Systems Inc. Quality Assurance Manager			
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 328 Bomb M117A3 Bomb N°	115,972 LBS		1,674,452 LBS	2,511,454 lbs
	COP-109-1 COP-109-4	829 LBS 13,489 LBS	267/268 158/160/183/ 184/253/254/ 255/256/293/ 294/295/296/ 301/302/307/ 308/311/312/ 313/314/321/ 322/327/328/ 333/334/399/ 400/411/442/ 447/448/465/ 466/467/468/ 471/472/8535/ 8536/8545/8546	2 42	
	COP-109-5	2,881 LBS	268/270/325/ 326/335/338/ 391/465/458	9	53

COP-109-6	4,097 LBS	211/212/297/ 298/385/417/ 418/433/434/ 458/460/461/ 482	13
COP-109-8	1,518 LBS	281/282/397/ 398/8555	5
COP-112-1	4,325 LBS	427/428/448/ 490/457/458/ 463/484/477/ 478/523/524/ 527/528	14
COP-112-3	6,914 LBS	257/258/261/ 262/267/268/ 303/304/328/ 330/367/393/ 394/421/422/ 438/440/8533/ 8534/8538/8540/ 8541	22
COP-112-4	647 LBS	289/290	2
COP-114-2	3,463 LBS	265/266/337/ 338/431/443/ 446/451/462/ 453/454	11
COP-115-1	8,911 LBS	263/264/273/ 274/285/288/ 323/324/341/ 342/381/382/ 385/386/405/ 406	16
COP-116-1	2,788 LBS	278/280/363/ 364/8527/8528/ 8537/8538/8643	9
COP-116-2	302 LBS	507	1
COP-116-3	624 LBS	209/210	2
COP-118-5	4,332 LBS	259/260/437/ 438/6911/6912/ 6821/6822/7013/ 7014/7017/7018/ 7023/7024	14
COP-119-2	12,832 LBS	331/332/360/ 424/6861/6862/ 6867/6868/6869/ 6870/6883/6884/ 6887/6888/6889/ 6890/6891/6892/ 6895/6896/6899/ 7000/7005/7006/ 7008/7010/7016/ 7016/7019/7020/ 7025/7026/7231/ 7232/7233/7234/ 7237/7238/7239/ 7240/7244	41

150

	COP-119-3	7,887 LBS	181/182/319/ 320/339/340/ 388/390/395/ 396/413/469/ 470/473/474/ 475/476/478/ 8529/8530/8531/ 8532/8543/8544/ 8647/8648	26	
	COP-119-4	943 LBS	309/310/429	3	
	COP-119-5	1,578 LBS	317/318/7225/ 7226/7229	5	
	COP-119-6	1,835 LBS	407/408/443/ 444/525/526	6	
	COP-121-1	4,088 LBS	149/150/251/ 252/291/292/ 361/362/403/ 404/410/435/ 438	13	
	COP-121-2	17,841 LBS	271/272/6877/ 6878/6937/6938/ 6941/6942/6945/ 6948/6949/6950/ 6951/6952/6953/ 6954/6955/6956/ 6957/6958/6959/ 6960/6963/6964/ 6965/6966/6971/ 6972/6973/6974/ 6975/6976/6977/ 6978/6979/6980/ 6981/6982/6985/ 6988/6983/6994/ 6997/6998/7001/ 7002/7003/7004/ 7007/7008/7011/ 7012/7021/7022/ 7027/7028	56	
	COP-121-3	3,789 LBS	249/250/276/ 276/277/278/ 305/308/315/ 318/415/416	12	
	COP-121-4	1,157 LBS	299/300/401/ 402	4	
	Mixed from above Lot #	13,512 LBS	MIXED FROM STEAM HOODS	125	

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegator)	16. Date: 13 Jul 06 Signature: <i>[Handwritten Signature]</i> Name (print):
17. REMARKS / OBSERVATIONS <i>Q4 only.</i>	



Industriepark Spreewerk Lübben GmbH
Postfach 15 65, 15905 Lübben

**ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1**

RADFORD, VA 24143

175

Invoice-No: 2006248

Date: July 24, 2006

Customer-No:
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811
KTr.Nr. 7300
Kto: 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
70.483	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY) (Date) (quantity) CoC # 24 July 21, 2006 70.483,0	\$0,7000	\$49.338,10
70.483	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M1..M11) about : \$1.022.700,00	-\$0,2272	-\$16.011,83

Total all Items	VAT	Total Amount
\$33.326,27	0%	\$33.326,27

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lübben GmbH
Sitz: Börnichen 99, 15907 Lübben · Postadresse: Postfach 15 65, 15905 Lübben
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Curt von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 658 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFbV
Fachbetrieb nach WHG

CERTIFICATE OF COMPLIANCE

PAGE 1			No. of pages 1		
1. Purchaser Alliant Ammunition & Powder Company Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05 3. Government Contract No. DAAA0903D0014			
4. Mailed to (Delegator) Mr. Mark Alderman		6. a. Shipped to (Consignee) In House			
5. From (Supplier) Spreewerk Lübben GmbH Börnichen 99 D- 15907 Lübben Germany		6. b. Shipment number on order <input checked="" type="checkbox"/> Partial <input type="checkbox"/> Final			
7. Certified that apart from the deviations/waivers noted in Box 14 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
9/21/05 Date		Signature (Supplier)		 Dr. von Wickede Name (print)	
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Package No.	12. Undelivered balance	13. Quantity received
M 2	Complete preparation for final check of Steam hood system including all additional tools and tools for press out center section without hydraulic press.	1 set	N/A	N/A	N/A
14. REMARKS / OBSERVATIONS <div style="text-align: center; font-family: cursive;"> Invoice 2005320 MZ 29 Sept 05 </div>					



CERTIFICATE OF COMPLIANCE

PAGE 1	No. of pages 1
1. Purchaser Alliant Ammunition & Powder Company Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100	2. Order reference and date AT1544 8/24/05
	3. Government Contract No. DAAA0903D0014
4. Mailed to (Delegator) Mr. Mark Alderman	6. a. Shipped to (Consignee) In House
5. From (Supplier) Spreewerk Lübben GmbH Börnichen 99 D- 15907 Lübben Germany	6. b. Shipment number on order <input checked="" type="checkbox"/> Partial <input type="checkbox"/> Final

7. Certified that apart from the deviations/waivers noted in Box 14 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.

10/5/05
Date

Signature (Supplier)


 Dr. von Wickede
 Name (print)

8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Package No.	12. Undelivered balance	13. Quantity received
M 3	Complete final check and stowing of Steam hood system including all additional tools and tools for press out center section without hydraulic press.	1 set	N/A	N/A	N/A

14. REMARKS / OBSERVATIONS

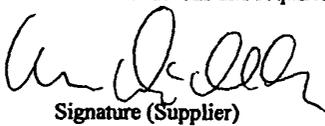
Invoice
2005 320 M3
dated 5 Oct 05.

CERTIFICATE OF COMPLIANCE

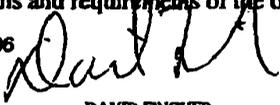
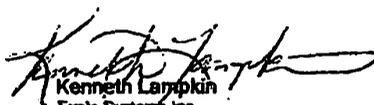
PAGE 1			No. of pages 1		
1. Purchaser Alliant Ammunition & Powder Company Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05			
4. Mailed to (Delegator) Mr. Mark Alderman		3. Government Contract No. DAAA0903D0014			
5. From (Supplier) Spreewerk Lübben GmbH Börmichen 99 D- 15907 Lübben Germany		6. a. Shipped to (Consignee) TEDI Technik Service GmbH Rhienstr. 66 D- 12681 Berlin Germany			
6. b. Shipment number on order <input checked="" type="checkbox"/> Partial <input type="checkbox"/> Final		7. Certified that apart from the deviations/waivers noted in Box 14 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.			
9/13/05 Date		 Signature (Supplier)		Dr. von Wickede Name (print)	
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Package No.	12. Undelivered balance	13. Quantity received
M 1	Complete disassembly of lathe, hydraulic press for breaking bombs and hydraulic press for center section	1 set	N/A	N/A	N/A
14. REMARKS / OBSERVATIONS					



CERTIFICATE OF COMPLIANCE

PAGE 1			No. of pages 1		
1. Purchaser Alliant Ammunition & Powder Company Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05			
		3. Government Contract No. DAAA0903D0014			
4. Mailed to (Delegator) Mr. Mark Alderman		6. a. Shipped to (Consignee) TEDI Technik Service GmbH Rhienstr. 66 D- 12681 Berlin Germany			
5. From (Supplier) Spreewerk Lübben GmbH Börnichen 99 D- 15907 Lübben Germany		6. b. Shipment number on order <input checked="" type="checkbox"/> Partial <input type="checkbox"/> Final			
7. Certified that apart from the deviations/waivers noted in Box 14 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.					
9/13/05 Date		 Signature (Supplier)		Dr. von Wickede Name (print)	
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Package No.	12. Undelivered balance	13. Quantity received
M 1	Complete disassembly of lathe, hydraulic press for breaking bombs and hydraulic press for center section	1 set	N/A	N/A	N/A
14. REMARKS / OBSERVATIONS 2005320 M1 dated. 14 Sept 05					

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 4			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05 3. Government Contract No. DAAA09-03-D-0014			
4. Mailed to (Designator) Industriepark Spreewerk LÜbben GmbH Börnichen 99 15907 Lübben -Germany-		6. a. Shipped to (Consignee) Expio Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Expio Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 70,483 LBS Final 4,501,858 lbs			
7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conform in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order. 21 JULY 2006 Date  DAVID FINCHER Managing Director  Kenneth Lampkin Expio Systems Inc. Quality Assurance Manager					
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 175 Bomb M117A3 Bomb N°	70,483 LBS		1,803,949 LBS	2,627,426 lbs
	COP-109-2	634 LBS	8757/8758	2	
	COP-109-3	618 LBS	8779/8780	2	
	COP-109-4	3,636 LBS	8519/8521/8520/ 8522/8559/8570/ 8571/8590/8637/ 8638/8775/8778	12	
	COP-109-5	682 LBS	8631/8632	2	
	COP-109-6	1,302 LBS	8565/8566/8767/ 8768	4	
	COP-109-7	678 LBS	8765/8766	2	

COP-109-8	953 LBS	8547/8548/8556	3
COP-112-1	953 LBS	8572/8763/8784	3
COP-112-3	8,917 LBS	8542/8575/8576/ 8883/8684/8587/ 8588/8603/8804/ 8605/8606/8629/ 8630/8753/8754/ 8761/8762/8777/ 8778	19
COP-112-4	671 LBS	8659/8670	2
COP-115-1	4,431 LBS	8525/8526/8558/ 8560/8561/8562/ 8573/8574/8578/ 8580/8581/8587/ 8588/8589	14
COP-116-1	2,153 LBS	8549/8550/8577/ 8578/8644/8768/ 8770	7
COP-116-3	1,289 LBS	8523/8524/8627/ 8628	4
COP-118-1	899 LBS	8773/8774	2
COP-118-2	1,861 LBS	8593/8594/8595/ 8596/8635/8636	6
COP-119-1	602 LBS	8771/8772	2
COP-119-2	6,337 LBS	6986/7221/7222/ 7223/7224/7227/ 7228/7243/7247/ 7248/7249/7250/ 7253/7254/7255/ 7268/8601/8602/ 8813/8614	20
COP-119-3	7,331 LBS	8553/8554/8557/ 8558/8567/8568/ 8581/8592/8599/ 8600/8608/8810/ 8618/8619/8620/ 8621/8622/8641/ 8642/8645/8848/ 8668/8749/8750	24
COP-119-4	1,985 LBS	8517/8518/8639/ 8640/8759/8760/	6
COP-119-5	4,595 LBS	7230/7235/7236/ 7251/7252/7257/ 7258/7263/7264/ 8585/8586/8811/ 8612/8663/8671	15
COP-119-8			(23)

	COP-121-2	2,599 LBS	7241/7242/7245/ 7246/7255/7256/ 7267/7268	8	
	COP-121-3	3,738 LBS	7259/7260/7261/ 7262/8607/8608/ 8633/8634/8751/ 8752/8755/8756	12	
	COP-121-4	637 LBS	8551/8552	2	
	MCA-1-1	665 LBS	8563/8564	2	
	Mixed from above Lot #	16,604 LBS	MIXED FROM STEAM HOODS	(24)	

14. Delegator's Reference	Date:
15. Governmental Quality Assurance Service (Delegator)	16. Date: 70 Jul 06 Signature: <i>D. Pratt</i> Name (print):
17. REMARKS / OBSERVATIONS	



Industriepark Spreewerk Lützen GmbH
Postfach 15 65, 15905 Lützen

ALLIANT AMMUNITION & POWDER COMPANY
RADFORD ARMY AMMUNITION PLANT
P. O. BOX 1

RADFORD, VA 24143

261

Invoice-No: 2006250

Date: July 31, 2006

Customer-No.
D161140

Contract No:
DAAA0903D0014
PO: AT1544

our Sign
Härtl

KSt.Nr. 811
KTr.Nr. 7300
Kto: 400020

VAT- Ident.No.: DE 1388 58 395
Taxpayer identification code 202/118/02996

Quantity (lb.)	Description	Unit Price (USD / lb)	Sum per Item (USD)
88.984	Recovered Tritonal from Demilitarization of M117 Bomb (enclosed copies of the CERTIFICATE OF CONFORMITY)	\$0,7000	\$62.288,80
	CoC # 25 (Date) (quantity) July 28, 2006 88.984,0		
88.984	Equalizing Advance Payment Request for Advance Payment No.: 2005320 (M11..M11) about : \$1.022.700,00	-\$0,2272	-\$20.214,75

Total all Items	VAT	Total Amount
\$42.074,05	0%	\$42.074,05

Payable within 30 days upon receipt of the invoice

Industriepark Spreewerk Lützen GmbH
Sitz: Börnichen 99, 15907 Lützen · Postadresse: Postfach 15 65, 15905 Lützen
Telefon: +49 (0) 35 46 28-0 · Fax: +49 (0) 35 46 28-270
E-Mail: info@spreewerk.de · Internet: www.spreewerk.de
Geschäftsführer: Linden Blue, Dr. Wolfgang Petzold, Dr. Cert von Wickede
Handelsregister: Kreisgericht Cottbus-Stadt, HRB 0151 · Ust-Id-Nr.: DE 138 858 395
Bankverbindung: Commerzbank AG, BLZ 850 400 00, Konto: 800 306 300
Dresdner Bank AG, BLZ 180 800 00, Konto: 06 200 333 00

✦ Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

Zertifiziert nach DIN EN ISO 9001
Zertifiziert nach DIN EN ISO 14001
Zertifiziert nach EFV
Fachbetrieb nach WHG

COMPANY CERTIFICATE OF CONFORMITY

PAGE 1		No. of pages 4			
1. Purchaser Alliant Ammunition & Powder Co. Radford Army Ammunition Plant P. O. Box 1 (Route 114) Radford, VA 24143-0100		2. Order reference and date AT1544 8/24/05 3. Government Contract No. DAAA09-03-D-0014			
4. Mailed to (Delegatee) Industriepark Spreewerk Lübben GmbH Börnichen 99 15907 Lübben -Germany-		6. a. Shipped to (Consignee) Explo Systems LLC 1702 Fourth Street Minden, LA 71055 -USA-			
5. From (Supplier) Explo Systems, LLC. 1702 Fourth Street Minden, LA 71055 -USA-		6. b. Shipment number on order 1 Partial 88,984 LBS Final 4,501,858 lbs			
<p>7. Certified that apart from the deviations/waivers noted in Box 17 the whole of the supplies detailed below (or the services described below) conforms in all respects to the specification(s), drawing(s) and order relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the order.</p> <p align="center">28 JULY 2006</p> <p>Date</p> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>DAVID SMITH Managing Director</p> </div> <div style="text-align: center;">  <p>Kenneth Lampkin Explo Systems Inc. Quality Assurance Manager</p> </div> </div>					
8. Contract Item No.	9. Stock/Part No and Name	10. Quantity	11. Bomb No.	12. Undelivered balance	13. Quantity received
002	Tritonal recovered from 261 Bomb M117A3	88,984 LBS		1,714,965 LBS	2,697,909 lbs
	Bomb N°				
	COP-108-1	1,188 LBS	8677/8678/8703/8704	4	
	COP-109-1	587 LBS	8733/8734	2	
	COP-109-4	6,384 LBS	8849/8650/8651/8852/8655/8656/8659/8660/8685/8686/8687/8698/8702/8713/8714/8741/8742	17	
	COP-109-5	646 LBS	8747/8748	2	
	COP-109-6	620 LBS	8623/8624	2	

	COP-109-8	1,289 LBS	8695/8686/8731/ 8732	4	
	COP-112-3	4,341 LBS	8653/8854/8657/ 8868/8673/8674/ 8879/8680/8691/ 8692/8699/8700/ 8739/8740	14	
	COP-114-2	21,183 LBS	7949/7950/8077/ 8078/8178/8180/ 8269/8270/8271/ 8272/8273/8274/ 8275/8276/8341/ 8342/8345/8346/ 8347/8348/8351/ 8352/8353/8354/ 8355/8356/8357/ 8358/8369/8370/ 8377/8378/8381/ 8382/8383/8384/ 8385/8386/8387/ 8388/8389/8390/ 8391/8382/8394/ 8393/8395/8396/ 8397/8398/8407/ 8408/8409/8410/ 8411/8412/8413/ 8414/8415/8418/ 8417/8418/8419/ 8420/8715/8716/ 8725/8726	68	
	COP-115-1	991 LBS	8582/8689/8684	3	
	COP-116-1	602 LBS	8705/8706	2	
	COP-118-5	10,902 LBS	7839/7840/7821/ 7922/7955/7956/ 8033/8034/8041/ 8042/8057/8058/ 8079/8080/8113/ 8114/8263/8331/ 8332/8333/8334/ 8337/8338/8339/ 8340/8343/8344/ 8349/8350/8399/ 8400/8401/8402/ 8405/8406	35	
	COP-119-2	10,830 LBS	7645/7646/7657/ 7658/8115/8116/ 8119/8120/8125/ 8126/8127/8128/ 8129/8130/8183/ 8184/8225/8226/ 8291/8335/8336/ 8373/8374/8375/ 8376/8379/8380/ 8403/8404/8525/ 8626/8721/8722/ 8737/8738	35	
	COP-119-3	3,665 LBS	8617/8667/8683/ 8684/8687/8688/ 8711/8712/8717/ 8718/8729/8730	12	173

COP-119-4	2,476 LBS	8675/8676/8709/ 8710/8719/8720/ 8723/8724	8
COP-119-5	4,269 LBS	8664/8665/8666/ 8672/8681/8682/ 8689/8690/8707/ 8708/8727/8728/ 8745/8746	14
COP-119-6	690 LBS	8615/8616	2
COP-121-1	636 LBS	8743/8744	2
COP-121-2	6,280 LBS	7613/7614/8171/ 8172/8175/8177/ 8178/8191/8192/ 8221/8222/8223/ 8224/8329/8330/ 8661/8662	17
COP-121-3	6,602 LBS	8109/8110/8117/ 8118/8121/8122/ 8123/8124/8131/ 8132/8227/8228/ 8325/8326/8327/ 8328/8735/8736	18
Mixed from above Lot #	7,657 LBS	MIXED FROM STEAM HOODS	(61)

14. Delegator's Reference	Date:
15. Government Quality Assurance Service (Delegate)	16. Date: 27 July 2006 Signature: <i>D.P. [unclear]</i> Name (print):
17. REMARKS / OBSERVATIONS	

Studies for the Recovery of TNT Using the Autoclave Process at
Hawthorn AAP

1 October 2004

Prepared by: Gene Johnston
ATK Thiokol Inc.

Submitted by:



ATK Thiokol Inc.

P.O. Box 707, M/S 230, Brigham City, Utah 84302

Point of Contact

Technical

Gene Johnston
(435) 863-3746 Tel
(435) 863-2271 Fax
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Programmatic

Scott K. Lusk
(435) 863-2778 Tel
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Introduction

Lab tests were done at ATK Thiokol to determine why TNT reclaimed from Tritanol that has been processed through the autoclaves at Hawthorne AAP can have low set point, varying color, lower TNT yield, an apparently much higher aluminum yield and a crusted and clumpy aluminum product.

Experimental and Discussion

Summary

The general method used for tests was as follows:

The samples of TNT and additives were placed in 100ml beakers and placed in an oil bath controlled at 100°C to 105°C (this temperature was chosen as it is close to the steam temperatures used in the Tritanol recovery autoclave process at Hawthorne AAP). The temperature of the TNT itself was not measured. Stirring was by means of an overhead stirrer. Experiments were run for approximately 3 hours. The beakers were allowed to cool until the TNT solidified before being reheated just enough to be able to release the block of TNT. The TNT was shaved free of other layer and submitted to testing.

Sample	Stirring	Water	Aluminium	Tar	Wax	Set point* °C	Color	Dinitroamino-toluene
Radford TNT						80.29	ok	trace
1	No	No	Yes	No	No	80.32	ok	trace
2	No	Yes	Yes	No	No	80.45	ok	trace
3	Yes	Yes	Yes	No	No	80.05	dark	significant
4	Yes	Yes	No	Yes	No	80.15	dark	trace
5	Yes	Yes	No	No	Yes	80.29	ok	trace
6	No	No	No	Yes	Yes	80.39	ok	trace

* - average of triplicate test on dried material

Experimental and Discussion

Individual experiment descriptions

Samples 1,2 and 3 – water, aluminum and stirring

Three samples, each consisting of 50 grams of Radford TNT (Lot RAD84k001-192) and 12.5 grams of powdered aluminum (Lot 7228-0171), were made up in 100ml beakers. The three beakers were placed in an oil bath controlled at 100°C to 105°C as shown in figure 1. The temperature of the TNT itself was not measured. After the TNT had melted and the aluminum had sunk, 20 mls of boiling water was poured into samples #2 and #3 which are shown in the lower right and upper middle of figure 1. Pouring in the water initially mix up all the components but they quickly stratified. Heating was continued for a little over three hours.



Figure 1: The experimental set up for reacting TNT with Al and water

Sample #1 did not appear to change during the experiment. On cooling it was the first to solidify. The TNT from Sample #1 set at an average of 80.29°C. A trace of dinitroamino-toluene was detected in the sample by GC/MS (see appendix 1). A sample of pure Radford TNT that had never contacted aluminum was analyzed to see if this was

caused by aluminum; but surprisingly, as shown in Appendix 2, the dinitroaminotoluene is even present in the virgin material in trace amounts.

Sample #2 did not foam or bubble at all even though the level of hot oil was above the top surface of the water floating on top in the beaker (indicating the temperature of the contents was $<100^{\circ}\text{C}$; a thin metallic crust did develop at the interface of the water and TNT. On cooling, sample #2 was the second to solidify; the water layer on this sample was clear and the color of the TNT in the beaker was the lightest of three samples. The TNT from sample #2 set below the range of the thermometer (estimate to be about 77.5°C if the mercury column is linear below to scale). This was surprising. The TNT from sample #2 was melted again in the oil bath and air was bubbled through it for one hour. The set point of the dried sample #2 was 80.45°C . One possible reason for the increase in set point compared to #1 is that the water may have extracted some impurities from the TNT. A second possible reason is that the slow cooling of the beaker of TNT may have resulted in effective zone refining, and the sample used for the set point analysis testing was therefore slightly purified. A trace of dinitroamino-toluene was detected in the sample by GC/MS.

An overhead stirrer was inserted into sample #3. Sample #3 nearly foamed out of beaker after only two or three minutes of stirring. The stirrer had to be run intermittently to control the foaming. Sample #3 was slow to solidify; there was no free water layer, much of the free TNT layer was gone, much of the aluminum powder was gone except for what was in the corners of the bottom of the beaker and this aluminum was very discolored, the free TNT layer was very dark and there was a very thick crust of an aluminum product on the top of the sample which was a very hard material after solidification. The TNT from sample #3 was dried before testing and it set at 80.05°C . The concentration of dinitroaminotoluene was clearly significantly larger in sample #3 than in the other samples. Free hydrogen was produced from the reaction of aluminum and water in this experiment, which accounts for the bubbling and foaming observed. Also, the aluminum material nearly doubles in weight as it gains oxygen, which accounts for the apparent increase in the aluminum content. The big loss in TNT yield is probably due to its inclusion into the thick matrix of aluminum oxide.

Figure 2 shows the three experiments on removal from the oil bath after the reaction and before the TNT has solidified. Table 1 shows the raw set point data from these samples.

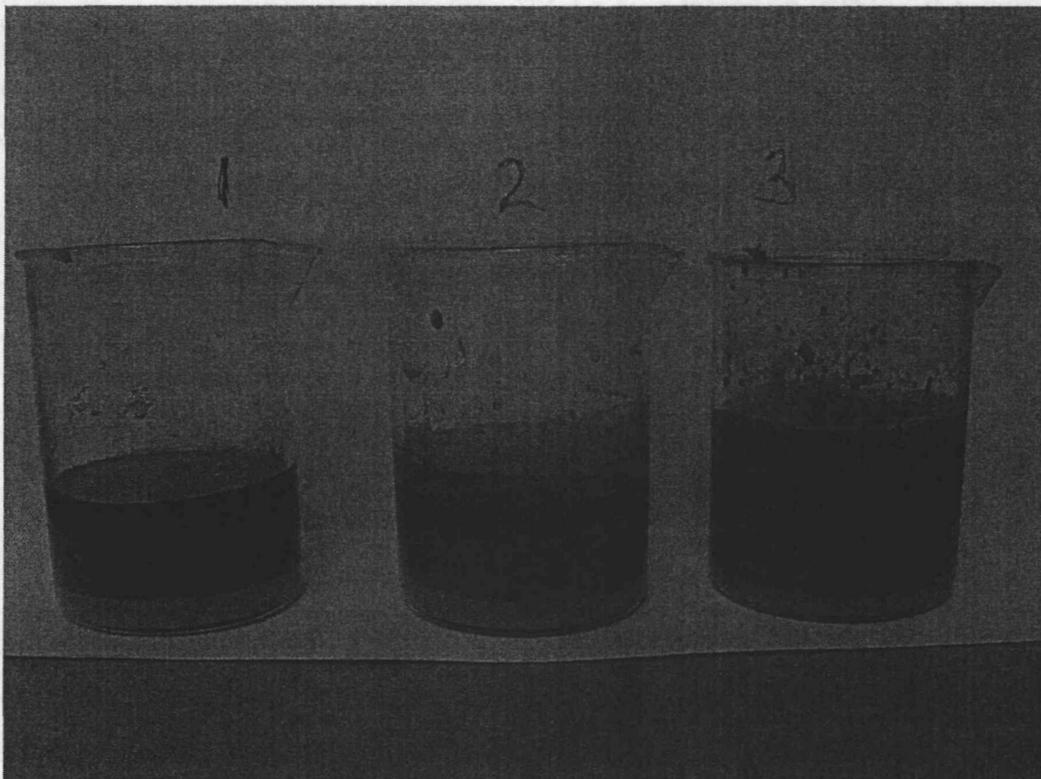


Figure 2: Experiment 1- TNT and Al, 2 – TNT, Al and water, 3 – TNT, Al, water and stirring. After removal from the oil bath

Samples 4 and 5 – Tar, Wax, Water and Stirring

Tests were done to determine the effects of tar and wax on TNT under stirred, wet conditions. Samples #4 and #5 were treated similarly to sample #3 above. Two 40 grams portions of TNT were placed in two beaker, 1.25 grams of tar and 20 mls of water was added to the TNT in one beaker and 1.25 grams of wax and 20mls of water were added to the other beaker. The contents of the beakers were melted at 100-105C and the stirrers inserted. After 3 hours of heating the samples were removed and the TNT was isolated as described above.

In sample #4, the tar softened to the point that it lost its original shape and spread evenly over the mixture. The tarred TNT turned very black. None of the components of the tar were detectable by GC/Mass spec in the TNT sample. The set point however was reduced to 80.15°C and the solid TNT was very dark.

In sample #5, the tar softened to the point that it lost its original shape and spread evenly over the mixture. The waxed sample did not change color. None of the components of the wax were detectable by GC/Mass spec in the TNT sample. The wax did not lower the set point and it did not affect color of the solid TNT.

Sample 6 Tar and Wax with no Water or Stirring

Approximately 5-grams of wax was melted and poured into a tipped 100 ml beaker so that the wax solidified in the bottom corner of the beaker. Approximately 5-grams of tar was smeared into the opposing corner in the beaker. Forty grams of TNT was poured into the beaker and the beaker was placed into the (100 to 105C) hot oil bath. The mixture was not agitated and was allowed to stand melted for three hours. It appeared that most of the wax melted and floated to the surface of the TNT. It appeared that most of the tar remained in its original position in the beaker. It appeared that the TNT was slightly darkened in the melt phase but this was probably due to influence of the black smear within the beaker. The beaker was removed from the bath and the TNT solidified. The TNT was removed as a plug and scraped clean of wax and tar as described above. The solidified TNT did not appear to have any discoloration. The TNT was not dried and it set at 80.39°C. The raw data is shown in Table 1.

Appendix #3 shows calorimetry data for both tar and wax and this data seem to explain how tar discolored Sample #4 but not #6. The tar melts over the range of 85°C to 140°C and these experiments were conduct at 100°C to 105°C. Sample #4 was stirred which promoted the mass transfer of the TNT soluble melted tar components into the TNT. Sample #6 was not stirred which inhibited the transfer of TNT soluble components out of the semi solid tar.

To determine how much water an un-dried sample of TNT treated as in these experiments might contain, a portion of Sample #5 was titrated by the Karl Fisher method and it contained 1.65% moisture. Part of this water is probably occluded since this much water is unlikely to dissolve in solid TNT. A Karl Fisher titration was conducted on virgin Radford TNT to see why it's set point was lower than that of dried Sample #2; however the Radford TNT contained 0.00% moisture and so the question remains unanswered.

TNT Set Point Data				
Test no:	1	2	3	average
Virgin Radford TNT	80.21	80.40	80.26	80.29
Sample #1 (Al, no water or stirring)	80.32	80.32	80.32	80.32
Sample #2 (Al, water, no stirring)	Approximately 77.5			
Sample #2 dried	80.46	80.44	80.45	80.45
Sample #3 dried (Al, water, stirring)	80.01	80.02	80.11	80.05
Sample #4 dried (Tar, water, stirring)	80.12	80.15	80.18	80.15
Sample #5 dried (Wax, water, stirring)	80.29	80.28	80.31	80.29
Sample #6(Tar, Wax, no water or stirring)	80.39	80.38	80.39	80.39

Table 1: Raw set point data for the 6 experiments and the starting TNT

Conclusions

1. Set point of TNT can be lowered by moisture, reaction products such as dinitroamino toluene and by TNT soluble components in tar.
2. Color of TNT can be darkened by reaction products such as dinitroamino toluene and by TNT soluble components in tar.
3. Lower TNT yield is probably mostly due to TNT held in the very thick aluminum oxide layer that is formed when aluminum reacts with water. The lower yield is much less due to its decomposition.
4. Higher alumina yield is caused by its reaction with water in which it nearly doubles in molecular weight and forms crystals that occupy a lot of space in bulk form.
5. Water does not react with molten TNT but does react when stirred into molten Tritanol. However, water can be tolerated if it is not stirred into the melt and if the recovered TNT is dried so that it will pass the moisture and set point tests. Under static conditions water is sufficiently separated from aluminum by molten TNT and the unwanted reactions do not occur.
6. The foaming seen on stirring molten tritonal with water is caused by hydrogen evolution.
7. Tar –can lower the set point of and discolor TNT if it is stirred intimately with the TNT. However, tar can also be tolerated if it is not deliberately stirred in.
8. Wax –seems unlikely to pose any problems for reclaiming TNT from Tritanol as long as it is skimmed or filtered off so that the finished product will pass the methanol insoluble test.

APPENDIX #1

LWR-FY04-D1136

21 September 2004

TO: G. Johnston

CC: S. Headrick

FROM: K. Richardson

LWR: B01713

WO: M4111

INST. ID: 1-HP73/SL201885

SUBJECT: TNT

Three samples of TNT were analyzed for dinitro-methyl aniline (DNMA) contaminants using GC/MS. Three samples all with different exposure conditions to aluminum and water were submitted. Previous analysis of tritonal reclaimed TNT detected DNMA.

DNMA was detected to some degree in all three samples. Sample number three contained more DNMA and less TNT than samples one and two. Figures 1-3 on the following page contain the resulting GC/MS chromatograms overlaid and expanded. Figure 4 contains the structural mass spectrum library match for DNMA at 12.17-minutes in Figure 4.

Kelly Richardson
Spectrochemical Analysis

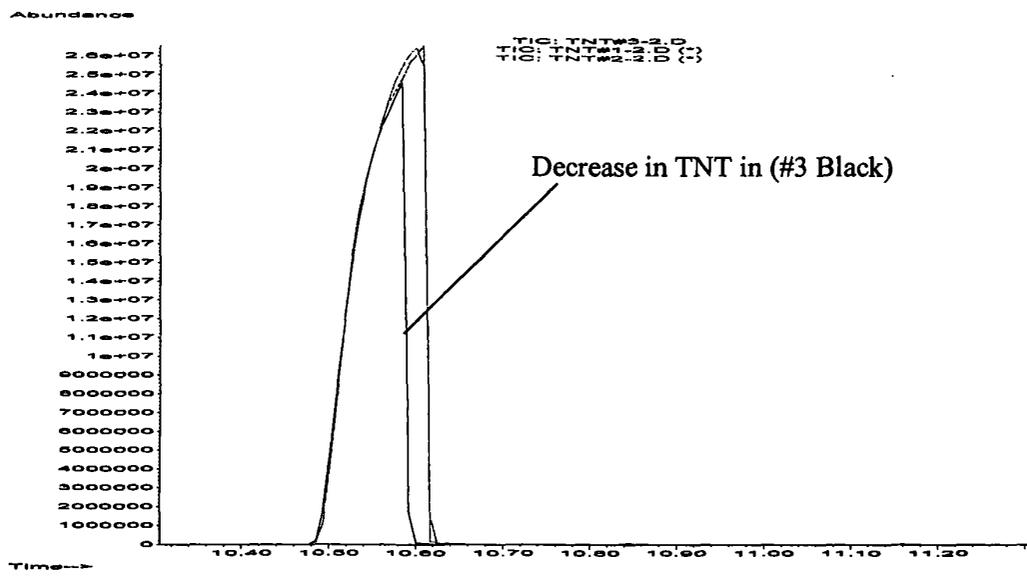


Figure 1. Expanded view of TNT Peak

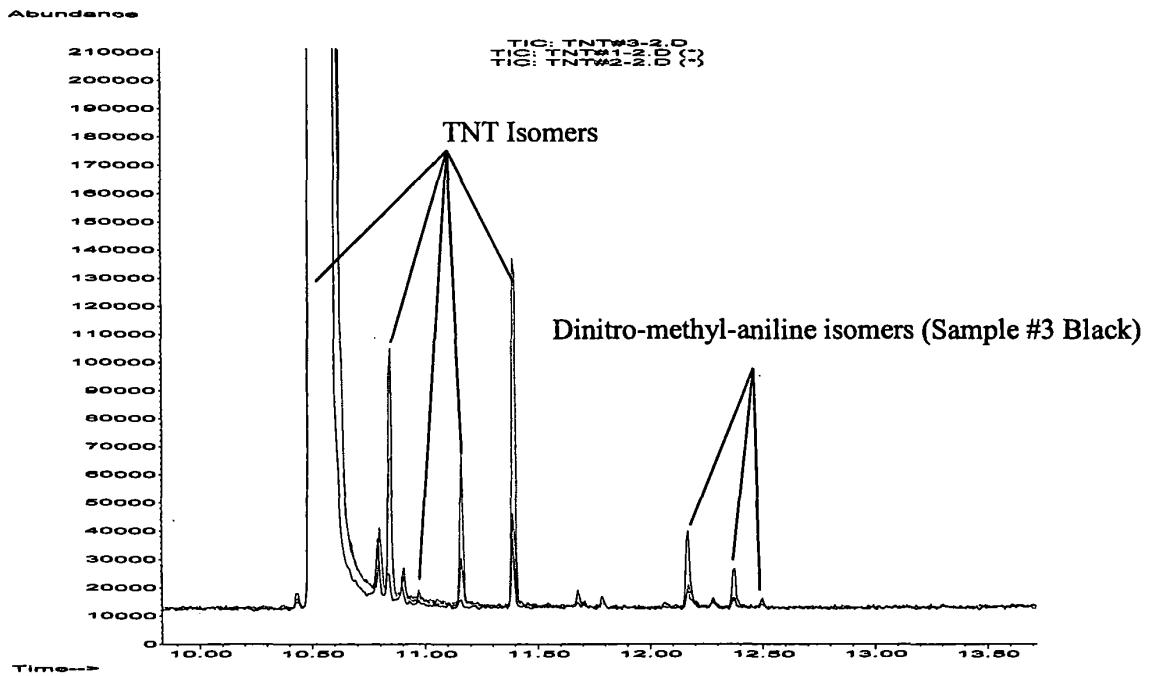


Figure 2. Expanded View of Dinitro-methylaniline Isomers (mw-197)

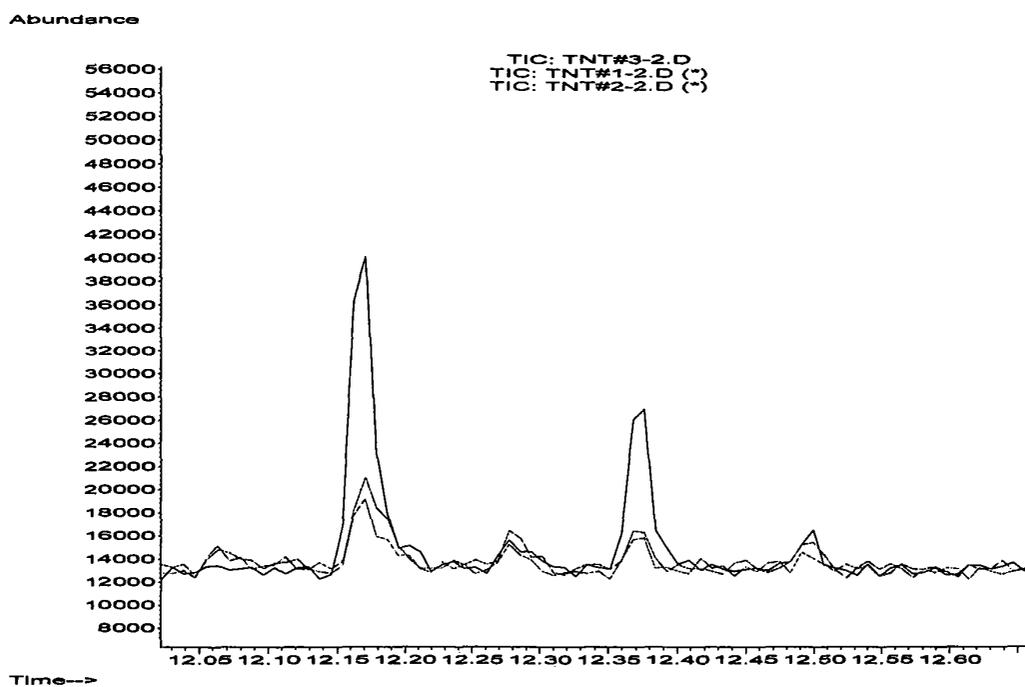


Figure 3. Further Expanded View of Dinitro-methylaniline Isomers

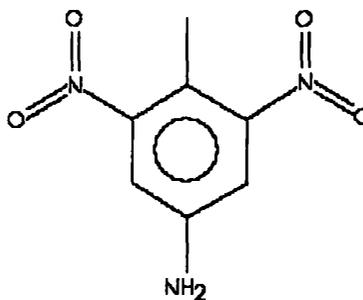


Figure 4. 3,5-Dinitro-4-methylaniline Structures

LWR-FY04-D1187

APPENDIX 2

27 September 2004

TO: G. Johnston

CC: S. Headrick

FROM: K. Richardson

LWR: B01719

WO: M4111

INST. ID: 1-HP73/SL201885

SUBJECT: TNT

Three samples of TNT were analyzed for dinitro-methylaniline (DNMA) and other contaminants using GC/MS. The samples consisted of TNT exposed to wax, TNT exposed to tar and a Radford TNT sample.

DNMA was detectable at trace levels in all three samples. Although analyses of actual tar and wax samples yielded numerous high molecular weight hydrocarbons, none were detected in either tar or wax TNT samples. Figure 1 on the following page contains the resulting GC/MS chromatogram for the Radford TNT. Figure 2 is an expanded view of the Radford TNT showing contaminants. Figure 3 is an expanded overlaid view of all three TNT samples. From Figure 4 it is apparent that there are no distinguishable differences between TNT samples that are detectable by GC/MS. Based on percent peak area the Radford sample is 99.4% single TNT isomer. Figures 4, 5 and 6 contain GC/MS chromatograms for the Tar, Wax and Tar/Wax/TNT Samples overlaid respectfully. The chromatograms in Figures 4, 5 and 6 were generated with a method programmed for mass spectrometer shutdown during TNT elution. This was due to the high concentration of the samples.

Kelly Richardson
Spectrochemical Analysis

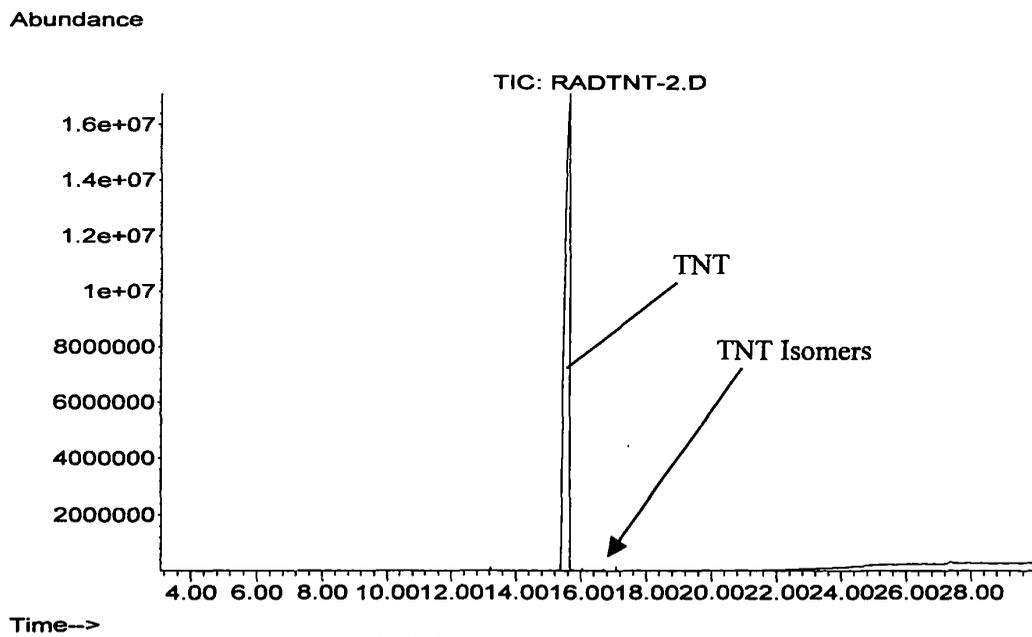


Figure 1. GC/MS Chromatogram of Radford TNT

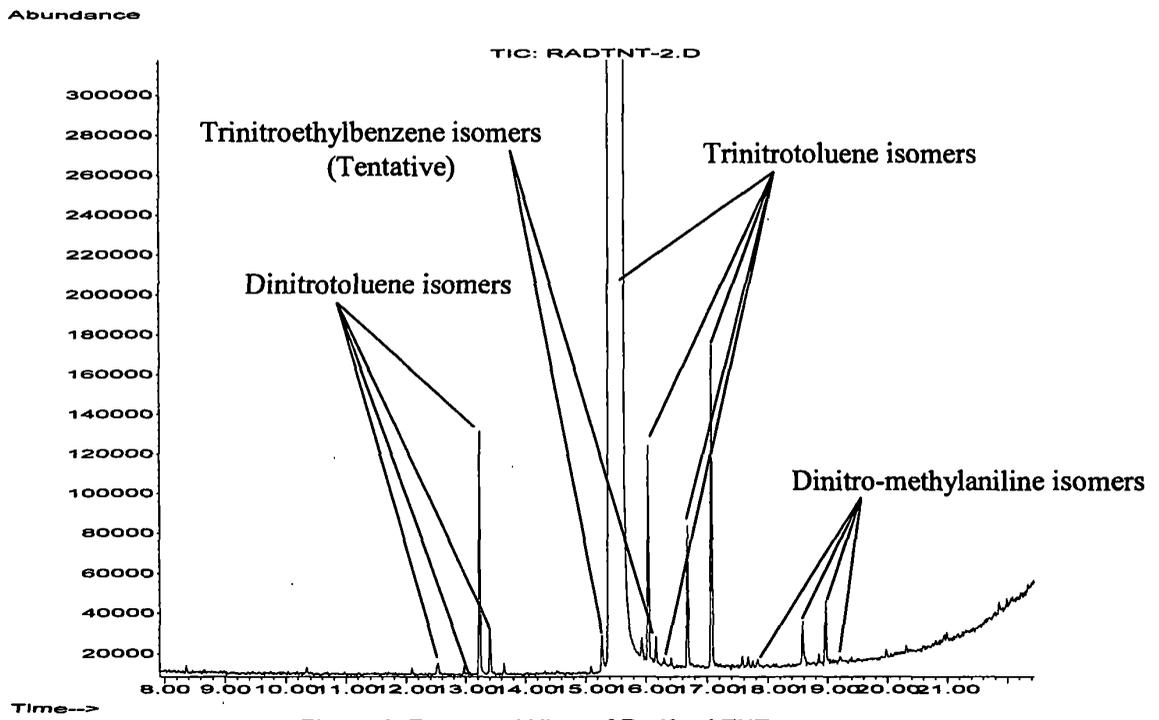


Figure 2. Expanded View of Radford TNT

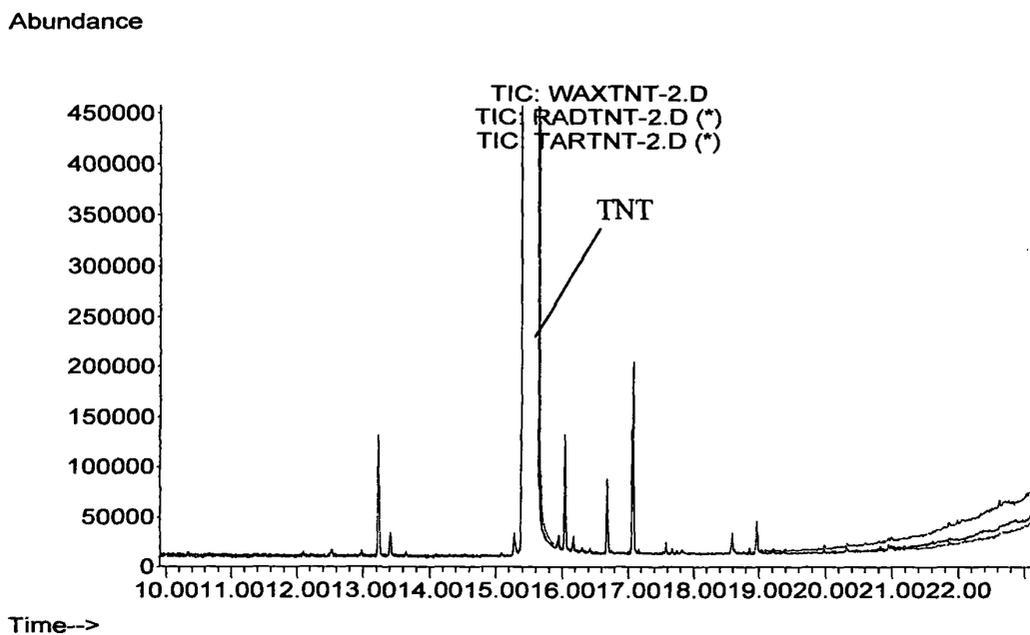


Figure 3. Expanded Overlay of Wax, Tar and Radford TNT samples

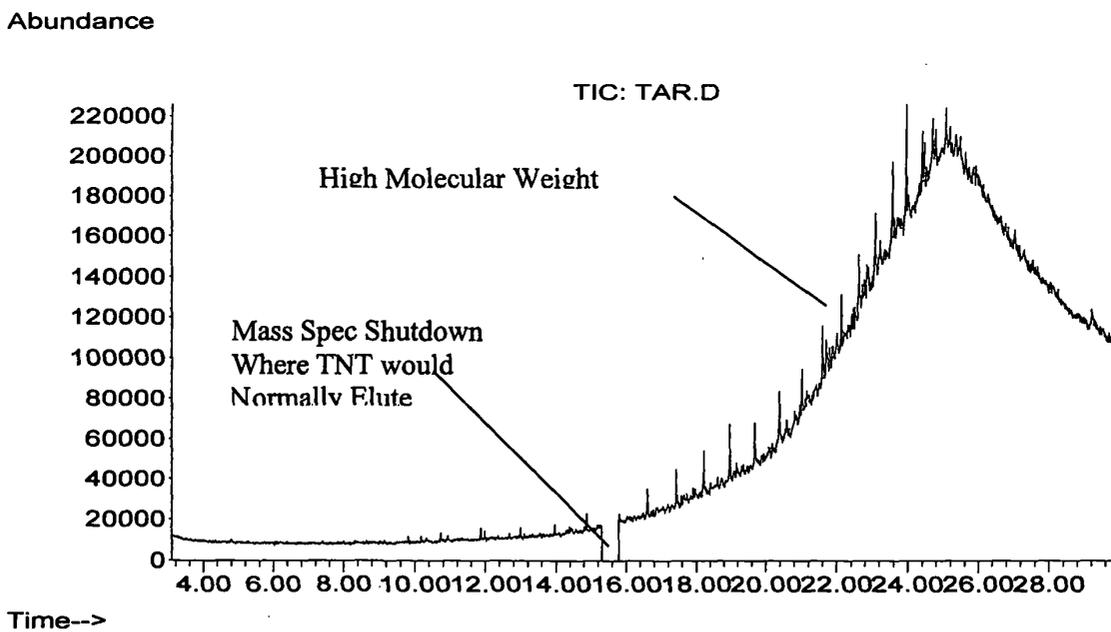


Figure 4. GC/MS Chromatogram of Tar Analysis

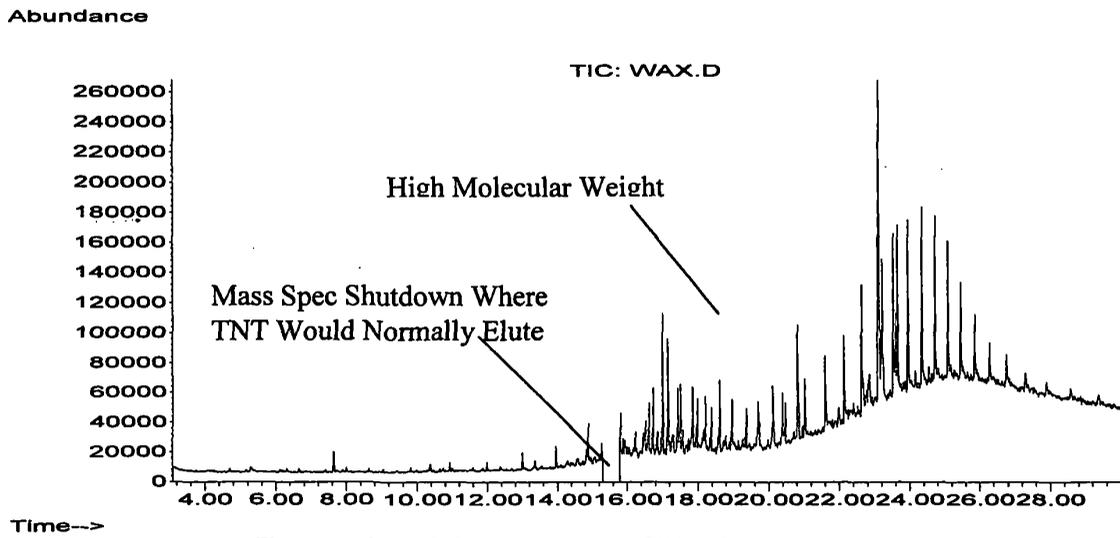


Figure 5. GC/MS Chromatogram of Wax Analysis

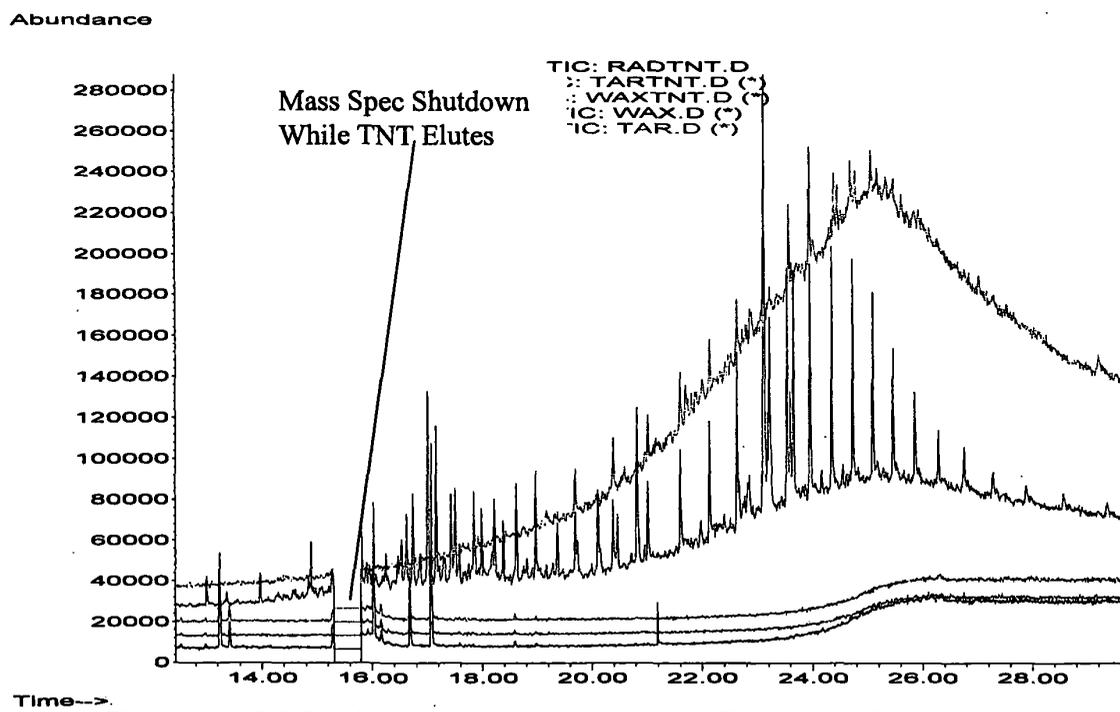
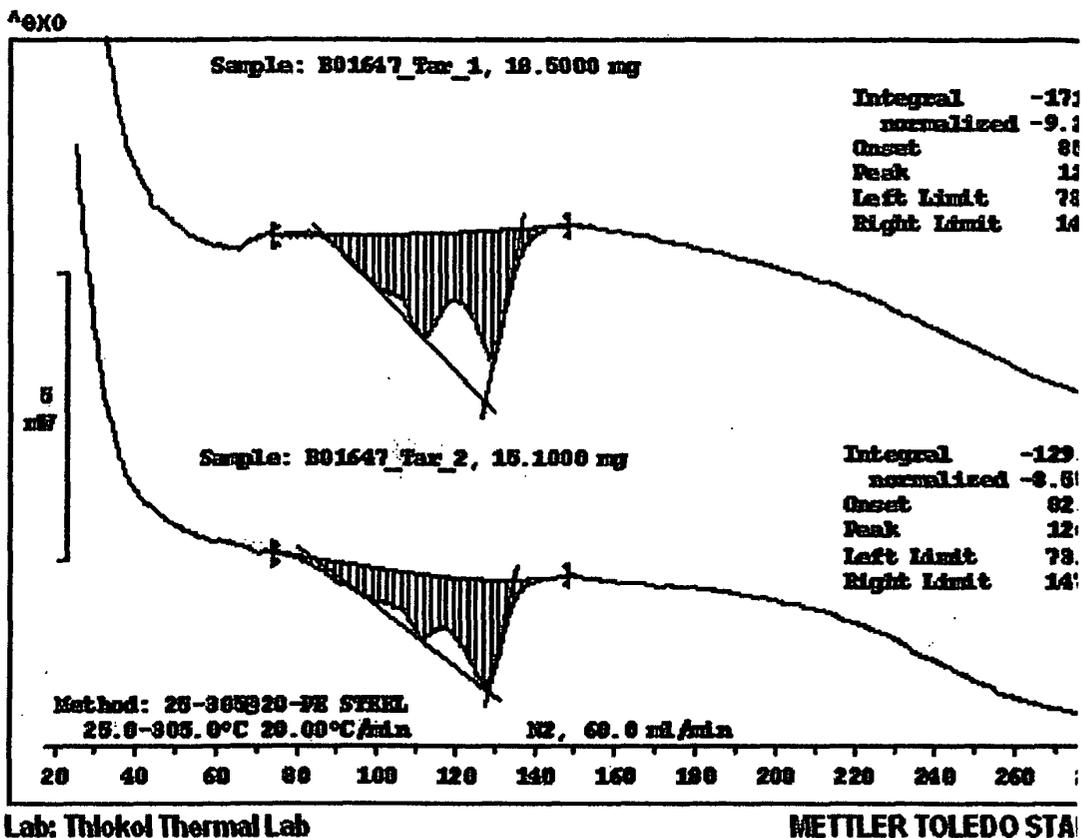
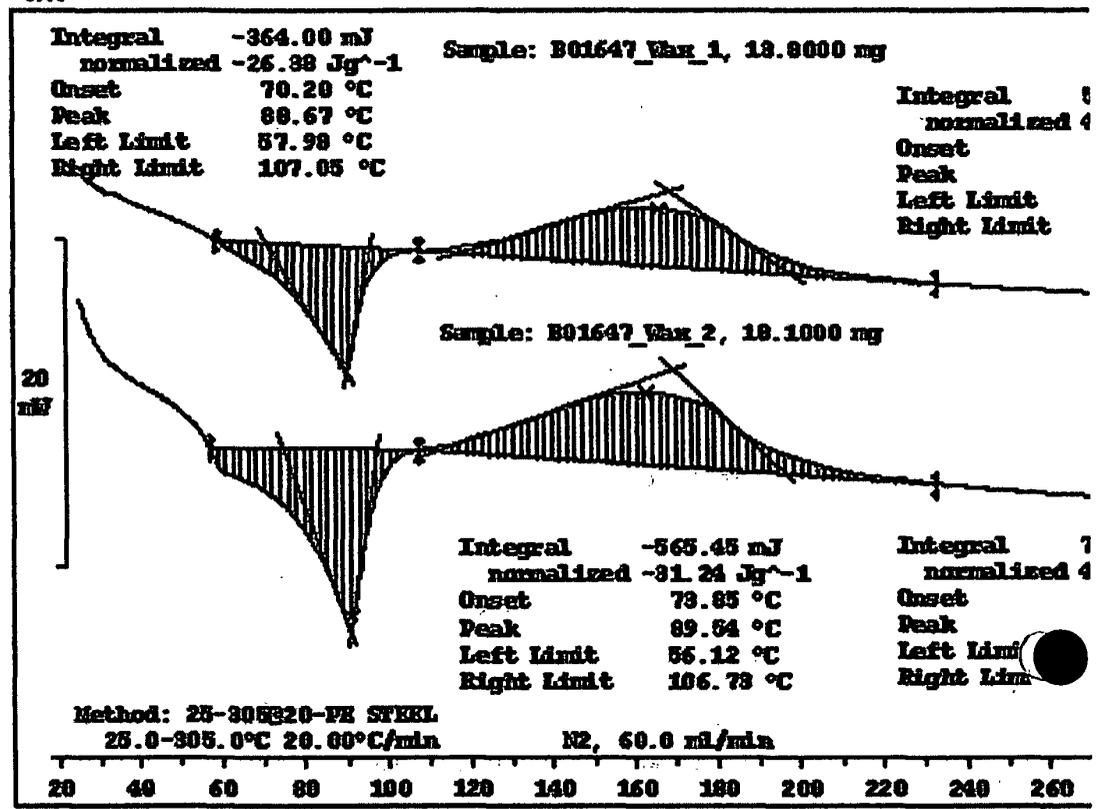


Figure 6. GC/MS Overlay of Three TNT Samples With Tar and Wax Samples

APPENDIX #3
Calorimetric data for tar and wax



^EX0



Lab: Thokol Thermal Lab

METTLER TOLEDO SI



SPREWERK

June 17, 2004

Alliant Ammunition and Powder Company
Radford Army Ammunition Plant
P.O. Box 1, Route 114
Radford, VA 24143-0100
Attention: Mark C. Alderman, Buyer, CBM, A.P.P.

Subject: Proposal for M-117 Bomb Demilitarization and Tritonal Recovery Program

Reference: Request for Bid (RFB) A684 6/9/04

Dear Mr. Alderman:

Industriepark Sprewerk Luebben (ISL) takes pleasure in submitting this proposal for Demilitarization of M-117 GP Bombs and Tritonal Recovery, and in response to References (a) and (b) above. ISL desires to participate fully in the Demilitarization Program in accordance with the ATK Request for Bid forwarded to ISL on 6/9/04. ISL intends to be fully responsive to all requirements of the Work Scope in the RFB.

ISL proposes to perform the work over a 12-month period under a Firm Fixed Price (FFP) contract. The estimated cost for all tasks identified in this proposal is \$4,143,302 including ISL's subcontractor Explo Systems quote. ISL currently has requested a formal proposal from Explo Systems due to ISL on 25 June 2004.

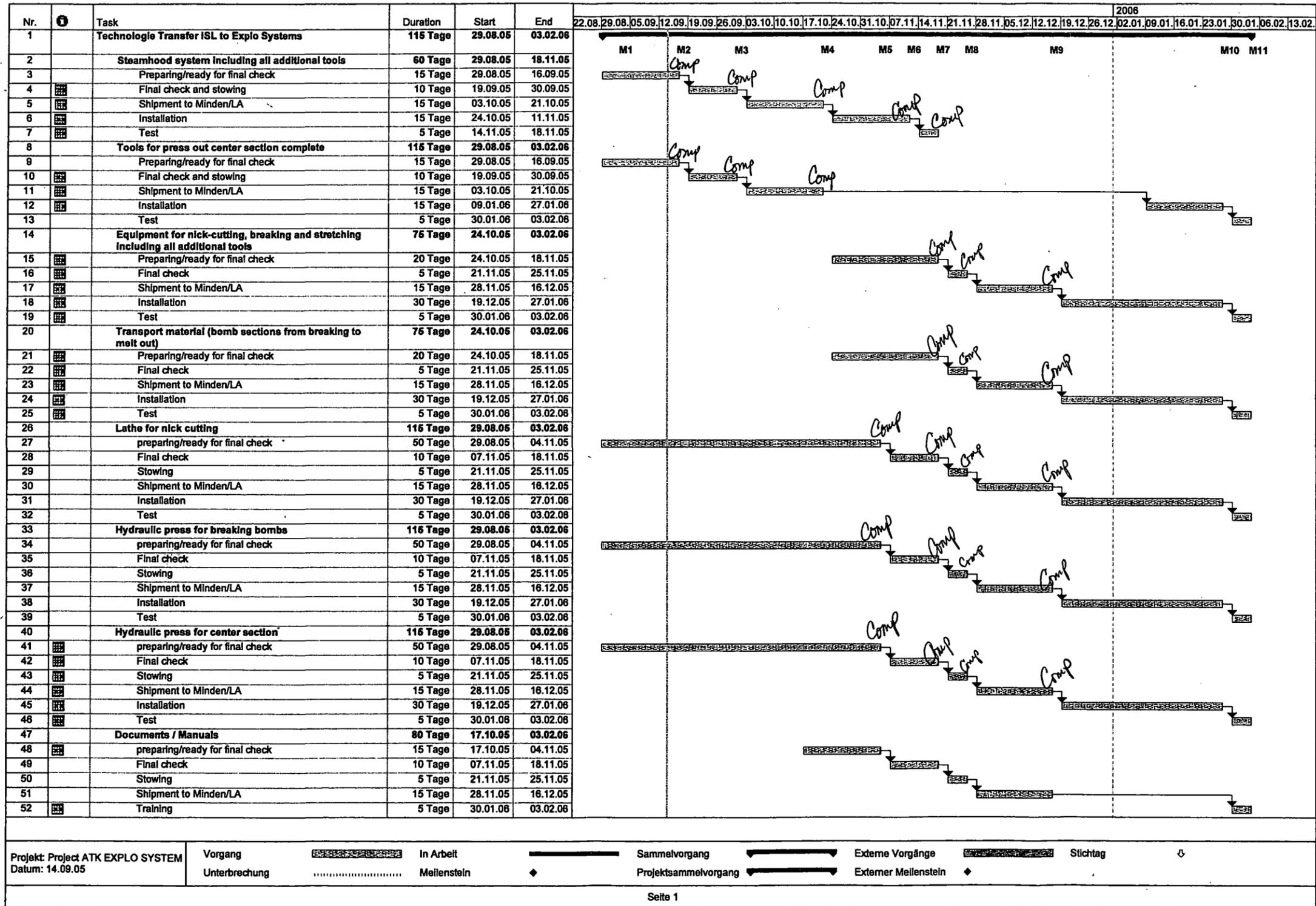
ISL will accept the mandatory Government flow downs that shall apply to ISL. Based on reference (b) discussions in Dallas, ISL looks forward to possibly an additional four one year period contracts.

Unless otherwise modified or withdrawn in writing, this offer will remain valid for 90 days from the date of this letter. This offer is subject to the negotiation of mutually acceptable terms and conditions. Any new special flow down requirements will be addressed when available. Please provide an official ATK Statement of Work (SOW) and Master Schedule for ISL review.

We look forward to working with ATK on this important U.S. Army contract. If you have any questions, please contact Mr. Dr. Gert von Wickede, Senior Managing Director of ISL, at 011 +49 3546 28 200, (fax) 011 +49 3546 28 470, or (e-mail) gwickede@spreewerk.com, and Mr. Rudi Meinhardt, Managing Director of ISL, at 011 +49 3546 28 200, (fax) 011 +49 3546 28 470, or (e-mail) rmeinhardt@spreewerk.com

Sincerely,

Dr. Gert von Wickede
Managing Director of ISL



DEMILITARIZATION

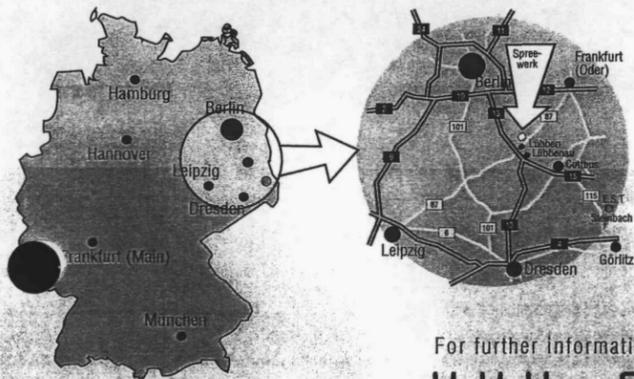
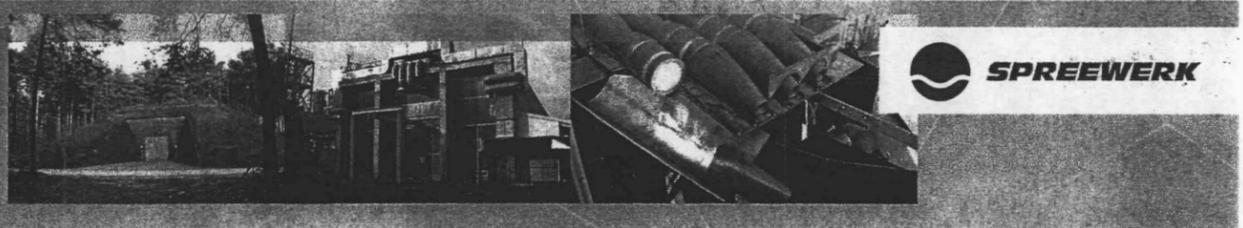
Qualitätsmanagementsystem

zertifiziert nach DIN EN ISO 9001

zertifiziert nach DIN EN ISO 14001

DQS zertifiziert nach EfbV

Fachbetrieb nach WHG



Industriepark Spreewerk Lübben GmbH

Börnichen 99

15907 Lübben / Spreewald

Telefon +(49) 35 46 / 28 200

Telefax +(49) 35 46 / 28 470

e-mail: mail@spreewerk.de

Besuchen Sie uns auch im Internet unter:

www.spreewerk.de

For further information, please visit our website:

www.spreewerk.com

DEMILITARISIERUNG

Historical Profile of INDUSTRIEPARK SPREWERK LÜBBEN GmbH

Sprewerk Lübben has been one of Germany's leading ammunition manufacturers since 1960 and was the principal supplier of the small arms ammunition production range used in the German Democratic Republic.

Production was carried out in a highly advanced, automated and continuous process with assembly lines considered to be the most technologically advanced in Eastern Europe.

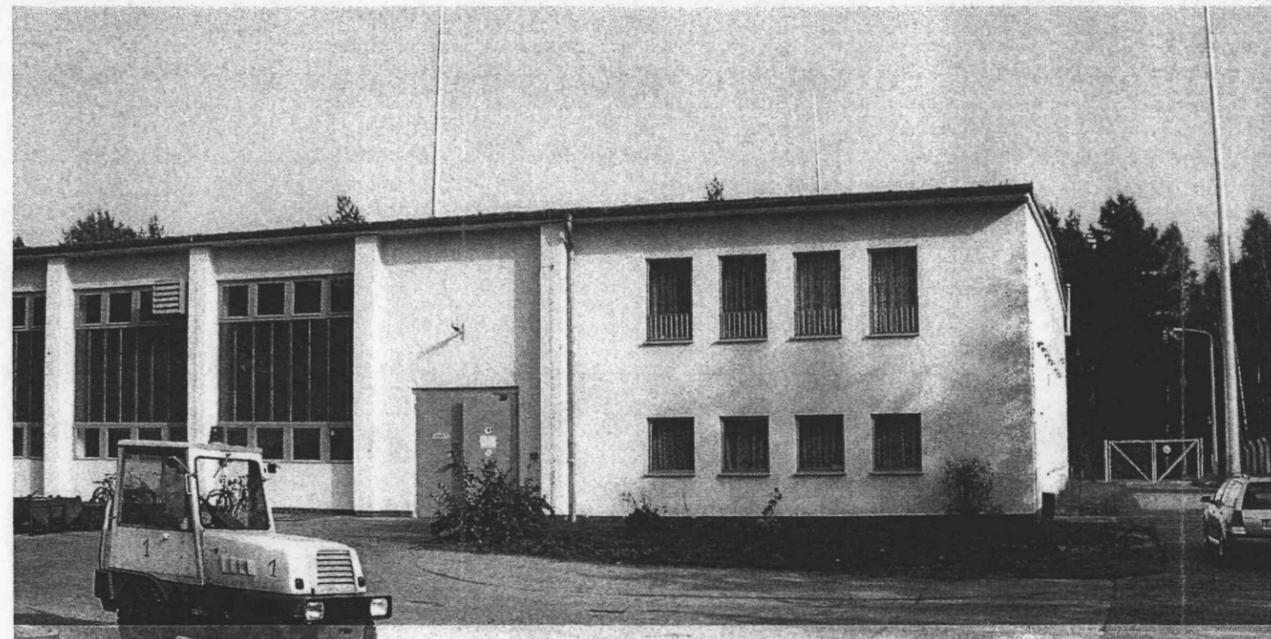
After German reunification, Sprewerk, (together with a sister company that was formerly a major producer of anti-tank rockets) was converted to demilitarizing munitions and ultimately disposed of over 60,000 tons (about 30 %) of the former GDR stockpile earmarked for destruction.

In 1992 General Atomics purchased Sprewerk Lübben (a part of Spezialtechnik), from the German governmental agency charged with privatising the former GDR state-owned industries.

Complete privatisation saw the formation of Industriepark Sprewerk Lübben GmbH (ISL), owned by General Atomics.

Through the combined technologies of ISL and GA, the basis of munitions demilitarisation and disposal was brought to new heights, including the construction and commissioning of a thermal destruction facility in 1994.

Today, General Atomics and ISL combine their efforts to create and implement new and state of the art methods for the demilitarisation and disposal of munitions. This technology makes ISL a leading force in Demilitarisation and Ammunition Services worldwide.



Location - Conditions

Total area of ISL - 187 ha. The whole area is fully developed with it's own constant power supply, fresh water wells, natural gas line and a complete sewage system.

Road connection -
connection to Motorway A 13 - approx. 15 km drive
(Exit Freiwalde - approx. 45 km drive from motorway Southern Berlin - Ring)

Deutsche Bahn AG (German Rail Stock Company) - Connection
Railhead access to rail-way line Lübben - Beeskow
with links to the main line Berlin - Görlitz (approx. 5 km).

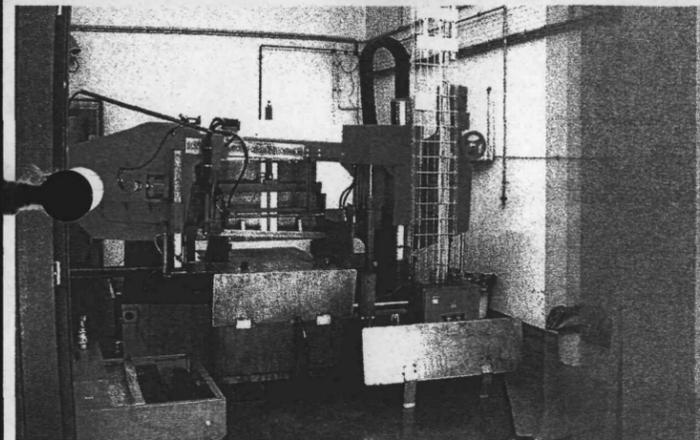


Voll erschlossenes Gelände, Gesamtgrundstücksfläche 187 ha.

Strassen-Anbindung:
Anschluss zur Autobahn A13 ca. 15 km (Abfahrt Freiwalde ca. 45 km südlich vom Berliner - Ring)

Deutsche Bahn-Anbindung:
Nebenstrecke Lübben-Beeskow mit Betriebsanschluss (5 km bis Hauptstrecke Berlin - Görlitz)

Standortbedingungen



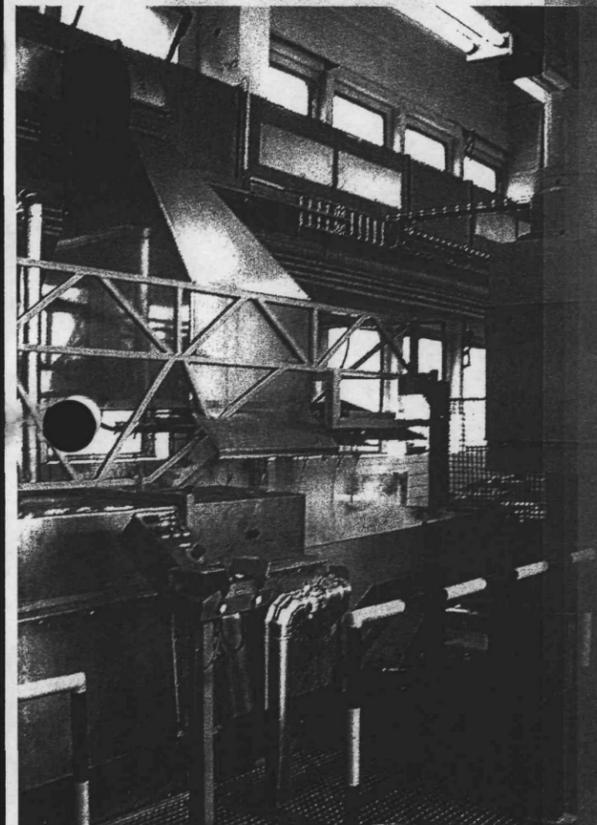
Present situation

We - INDUSTRIEPARK SPREWERK LÜBBEN GmbH - are working in the business of - DISPOSAL OF AMMUNITION - world wide.

We incorporate various technologies in accordance with ISO 9001 as well as ISO 14001 and AQAP as required for the industrial disposal of munitions and put them into practice on every contract.

We pay special attention to ensure that the critical components of all munitions are demilitarized in environmentally friendly and safe manner.

Presently, Spreewerk Lübben employs 120 highly skilled employees.



Wir, die Industriepark Spreewerk Lübben GmbH, arbeiten weltweit auf dem Gebiet der Munitionsentsorgung.

Wir erarbeiten verschiedene Technologien unter den Maßgaben von ISO 9001, ISO 14001 sowie AQAP und sorgen für deren vertragskonforme Umsetzung.

Wir legen hohe Aufmerksamkeit darauf, sicherzustellen, dass alle kritischen Munitionsbestandteile sicher und umweltgerecht entsorgt werden.

Gegenwärtig arbeiten 120 qualifizierte Fachkräfte im Spreewerk Lübben.



H e u t e



Das Unternehmen, früher Spreewerk Lübben, gilt als eine der führenden deutschen Firmen auf dem Gebiet der Munitionsfertigung seit 1960 und war Hauptlieferant der Produktpalette an Gewehrmunition, die vorwiegend in der Deutschen Demokratischen Republik eingesetzt wurde. Die Produktion erfolgte auf hochautomatisierten Fertigungsstraßen, welche als die modernsten ihrer Art in Osteuropa galten. Nach der deutschen Wiedervereinigung wurde das Spreewerk, gemeinsam mit einem Schwesterunternehmen, das früher ein bedeutender Hersteller von Panzerabwehr-Raketen war, für die Entsorgung von Munition umgerüstet. Insgesamt wurden über 60.000 t (über 30 %) der zur Vernichtung bestimmten Lagermunition der ehemaligen DDR entsorgt. Im Jahre 1992 kaufte General Atomics (GA), ein kalifornisches Unternehmen aus San Diego, USA, das Spreewerk Lübben, das zur Unternehmensgruppe Spezialtechnik Dresden gehört, von der Treuhandanstalt. Die vollständige Privatisierung bedeutete die Gründung der Industriepark Spreewerk Lübben GmbH, die sich im Besitz von General Atomics befindet. Durch geschickte Kombination der von ISL und GA entwickelten Verfahren und Technologien, wurden die Grundlagen für die Munitionsdelaborierung und Entsorgung auf ein höheres Niveau gestellt, eingeschlossen darin der Bau und die Inbetriebnahme einer Thermischen Vernichtungsanlage, die den Anforderungen der 17. BImSchV. entspricht, im Jahre 1994. Heute vereinen General Atomics und das Spreewerk Lübben ihre Bemühungen, um neue fortschrittliche Methoden für die Demilitarisierung und die Entsorgung von Munition zu entwickeln und zu vervollkommen. Diese Vorgehensweise macht das Spreewerk weltweit zu einer führenden Kraft auf dem Gebiet der Dienstleistungen in der Demilitarisierung von Munition.

**Geschichtlicher Abriss über
die INDUSTRIEPARK SPREWERK LÜBBEN GmbH**

How we dispose of:

ISL's field of expertise are wide ranging and encompass many aspects of Munitions Management, in summary these are:

- Asset Surveillance, Repair and Maintenance
- Tuition / Training
- Transfer of Technology
- Project Management & Consultancy
- Re-Engineering and Demilitarisation

In consistent efforts to achieve the highest possible levels of R 3 (Recover, Recycle, Re-use), we look to recycle all possible materials. Components that are not recyclable (or if the customer does not permit them to be recycled) are disposed of in our state of the art Incineration Facility while complying with the strict limits set by Federal Regulation for Protection against Emissions 17. BImSchV.

Additionally, we have the ability to use the Incineration Facility in our sister-company Entsorgungs- und Betriebsgesellschaft mbH, (EST) located in D-02929 Rothenburg, Federal State Saxonia (Steinbach), Germany.

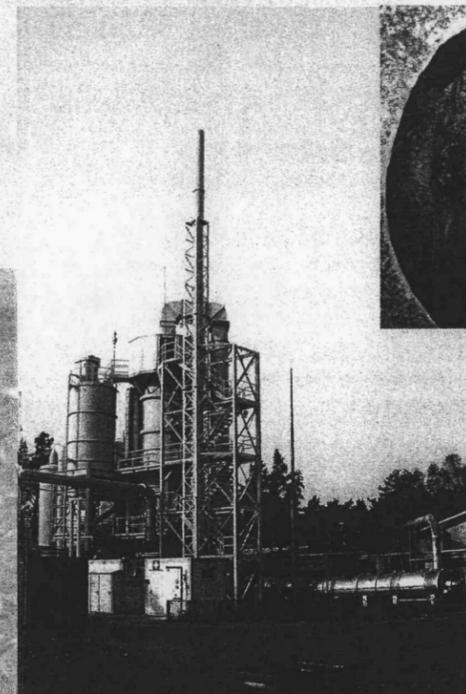
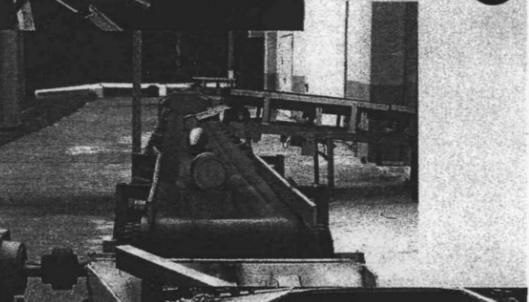
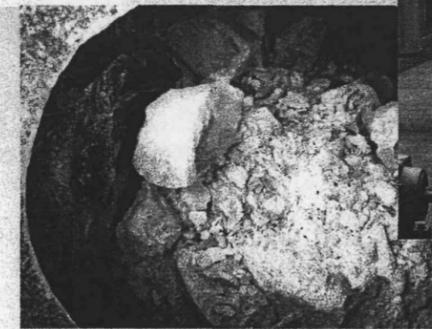
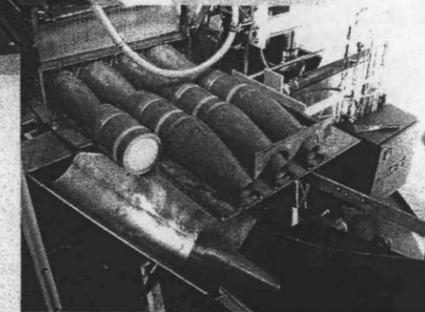
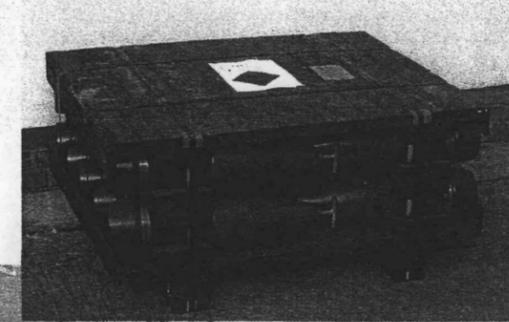
In addition to demilitarization, ISL also converts billions of small calibre military ammunition by replacing military bullet with a hunting or sporting bullet.

Das Spreewerk Lübben verfügt über vielfältige Erfahrungen auf dem Gebiet des Munitionsmanagements. Zusammenfassend können erwähnt werden:

- Aktivpostenüberwachung, Reparatur und Wartung
- Schulungsmaßnahmen
- Überleitung von Technologie
- Projektbearbeitung & Beratung
- Re-Engineering und Demilitarisierung

Im ständigen Bemühen, das höchst mögliche Niveau von R 3 zu erreichen, (Herauslösen, Recyceln, Wiederverwenden), suchen wir nach Wegen, alle recycelfähigen Materialien einer Wiederverwendung zuzuführen. Bestandteile, die nicht recycelfähig sind, (oder für die der jeweilige Kunde eine Wiederverwendung des Materials nicht gestattet), werden in unserer modernen Verbrennungsanlage entsorgt, welche die strengen Grenzwerte der 17. Bundesimmissionsschutzverordnung erfüllt.

Außerdem haben wir die Möglichkeit, die Verbrennungsanlage in unserem Schwesterunternehmen Entsorgungs- und Betriebsgesellschaft mbH, (EST), ansässig in D-02929 Rothenburg, Bundesland Sachsen, Deutschland, zu nutzen. Zusätzlich zum Geschäftsfeld – Munitionsentsorgung – konvertiert die ISL Gewehrmunition, indem das militärische Geschöß durch ein Jagd- oder Sportgeschöß ersetzt wird.



Wie entsorgen wir...

Miles neplan ATK

		Weeks from point "X"																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
beamhood system including all additional tools	preparing/ready for final check	132100			final check and stowing		5800		shipment to Minden/LA			installation			test									
tools for press out center section complete (without hydraulic press)	preparing/ready for final check	27500			final check and stowing		5800		shipment to Minden/LA												installation			test
																					37200			11500
equipment for nick-cutting, breaking and stretching including all additional tools (without lathe and hydraulic press)	preparing/ready for final check											preparing/ready for final check		final check and	shipment to Minden/LA		installation						test	
												79000		10200	5800		37200						11500	
transport material (bomb sections from breaking to melt out)	preparing/ready for final check											preparing/ready for final check		final check and	shipment to Minden/LA		installation						test	
												19000		10200	5800		37200						11500	
hydraulic press for breaking bombs	including computer control system	5600		preparing/ready for final check							71500			final check		stowing	shipment to Minden/LA		installation			test		
																20000	5800		37200			11500		
		5600		preparing/ready for final check							71500			final check		stowing	shipment to Minden/LA		installation			test		
																20000	5800		37200			11500		
hydraulic press for inner section		5600		preparing/ready for final check							71500			final check		stowing	Minden/LA		installation			test		
																20000	5800		37200			11500		
documents / manuals												preparing/ready for final check		final check	stowing	shipment to Minden/LA								training
																40000								11500
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
		Weeks from point "X"																						
1,072,700 \$1,072,700		\$16,800.00		\$159,600.00		\$20,400.00			\$11,600.00		\$214,500.00	\$37,200.00	\$109,500.00	\$80,400.00		\$69,000.00						\$223,200.00	\$80,500.00	
1,097,405 \$1,172,110.00	Corporate Guarantee Fee	\$74,705.00																						



A Member Company
of American International Group, Inc

**AMERICAN INTERNATIONAL
SPECIALTY LINES INSURANCE COMPANY**

A Capital Stock Insurance Company
(herein called the Company)
175 Water Street, Twelfth Floor
New York, New York 10038

NAMED INSURED Alliant Techsystems
AND 600 Second Street
POST OFFICE Hopkins, MN 55343

**POLLUTION LEGAL LIABILITY SELECTSM CLEAN-UP COST CAP INSURANCE
DECLARATIONS**

THIS IS A CLAIMS-MADE AND REPORTED POLICY - PLEASE READ CAREFULLY.

POLICY NUMBER: PLS/CCC 476 31 30

Item 1: NAMED INSURED Alliant Techsystems
ADDRESS 600 Second Street
Hopkins, MN 55343

Item 2: POLICY PERIOD FROM March 31, 2000 TO April 27, 2010
12:01 A.M. Standard time at the address of the Named Insured shown above

Item 3: COVERAGES AND COVERAGE SECTION LIMITS AND DEDUCTIBLES

This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below. If no deductible or limits of liability appears for a Coverage, that Coverage does not apply.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000	\$25,000,000	\$25,000,000
B	\$1,000,000	\$25,000,000	\$25,000,000
C	\$1,000,000	\$25,000,000	\$25,000,000
D	\$1,000,000	\$25,000,000	\$25,000,000
E	\$1,000,000	\$25,000,000	\$25,000,000
F	\$1,000,000	\$25,000,000	\$25,000,000

~~This policy is issued pursuant to state surplus lines insurance law. This insurance is placed with an insurer not licensed, recognized, or admitted to write insurance by any state with the exception of _____ where the company is admitted). The insurer is not under the jurisdiction of, or subject to supervision, regulation, or examination by the states. In case of dispute concerning the terms or conditions of this policy, or practices of the insurer, the states will be unable to assist the insured. In case of insolvency, payment of claims is not guaranteed.~~

74175 (4/00)

Copyright American International Group, Inc., 1999

PAGE 1 OF 2

NOTICE: THIS INSURANCE COMPANY IS NOT LICENSED BY THE STATE OF NEW YORK
guarantee funds (except in New Jersey).

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
G	\$1,000,000	\$25,000,000	\$25,000,000
H	\$1,000,000	\$25,000,000	\$25,000,000
I	\$1,000,000	\$25,000,000	\$25,000,000

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J		

Coverage	Limit of Liability	Self-Insured Retention	Co-Insurance Participation Percentage
K only			
K and L combined	\$10,000,000	\$16,400,000	N/A

Item 4: POLICY AGGREGATE LIMIT: \$25,000,000

Item 5(a): INSURED PROPERTY(IES) - COVERAGES A - I:
See Endorsement #1

Item 5(b): INSURED PROPERTY(IES) - COVERAGES K and L:
See Endorsement #1

Item 6: POLICY PREMIUM \$ 2,829,589

Item 7: RETROACTIVE DATE: Under Coverages C, F, G, H and I, the Pollution Conditions must commence on or after the date shown below.
Retroactive Date: None
(Enter date or "none" if no Retroactive Date Applies)

Item 8: CONTINUITY DATE: March 31, 2000

Broker: **MARSH**
An AIG Company

Marsh USA Inc
333 South Seventh Street, Suite 1600
Minneapolis, MN 55402-2400
612-692-7400 Fax: 612-692-7936



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

AMERICAN INTERNATIONAL SPECIALTY LINES INSURANCE COMPANY
 POLLUTION LEGAL LIABILITY SELECTSM CLEAN-UP COST CAP INSURANCE
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 AND PROPERTY DAMAGE 2

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*The captions contained in this Table of Contents are included solely for the convenience of the reader and do not include all the terms, exclusions and conditions of the Policy. Refer to the Policy itself for a description of the scope and limitations of coverage.

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AMERICAN INTERNATIONAL SPECIALTY LINES INSURANCE COMPANY
POLLUTION LEGAL LIABILITY SELECTSM CLEAN-UP COST CAP INSURANCE

THIS IS A CLAIMS MADE AND REPORTED POLICY. THIS POLICY HAS CERTAIN PROVISIONS AND REQUIREMENTS UNIQUE TO IT AND MAY BE DIFFERENT FROM OTHER POLICIES THE INSURED MAY HAVE PURCHASED. DEFINED TERMS APPEAR IN BOLD FACE TYPE.

NOTICE: THE DESCRIPTIONS IN ANY HEADINGS OR SUB-HEADINGS OF THIS POLICY ARE INSERTED SOLELY FOR CONVENIENCE AND DO NOT CONSTITUTE ANY PART OF THE TERMS OR CONDITIONS HEREOF.

In consideration of the payment of the premium, in reliance upon the statements in the Declarations and the Application annexed hereto and made a part hereof, and pursuant to all of the terms of this Policy, the Company agrees with the Named Insured as follows:

I. INSURING AGREEMENTS

I. COVERAGES

THE FOLLOWING COVERAGES ARE IN EFFECT ONLY IF SCHEDULED IN THE DECLARATIONS:

COVERAGE A - ON-SITE CLEAN-UP OF PRE-EXISTING CONDITIONS

To pay Clean-Up Costs on behalf of the Insured, on or under the Insured Property, if such Clean-Up Costs are sustained solely by reason of the discovery by the Insured during the Policy Period of Pollution Conditions on or under the Insured Property which commenced prior to Continuity Date, provided:

- (a) The discovery of such Pollution Conditions is reported to the Company in writing during the Policy Period or within thirty (30) days thereafter by the Insured and in accordance with Section II of the Policy;

Discovery of such Pollution Conditions happens when any director or officer or any employee with management responsibility of the Insured, or in the case of a proprietorship or partnership, an owner or general partner, becomes aware of such Pollution Conditions;

- (b) Such Pollution Conditions have been reported to the appropriate governmental agency in compliance with applicable Environmental Laws, in effect as of the date of discovery.

2. To pay Loss on behalf of the Insured that the Insured is legally obligated to pay as a result of Claims first made against the Insured and reported to the Company, in writing, during the Policy Period, or during the Extended Reporting Period if applicable, for Clean-Up Costs on or under the Insured Property resulting from Pollution Conditions on or under the Insured Property which commenced prior to the Continuity Date.

COVERAGE B - ON-SITE CLEAN-UP OF NEW CONDITIONS

1. To pay Clean-Up Costs on behalf of the Insured, on or under the Insured Property, if such Clean-Up Costs are sustained solely by reason of the discovery by the Insured during the Policy Period of Pollution Conditions on or under the Insured Property which commenced on or after the Continuity Date, provided:

- (a) The discovery of such Pollution Conditions is reported to the Company in writing during the Policy Period or within thirty (30) days thereafter by the Insured and in accordance with Section II of the Policy;

Discovery of such Pollution Conditions happens when any director or officer or any employee with management responsibility of the Insured, or in the case of a proprietorship or partnership, an owner or general

partner, becomes aware of such Pollution Conditions;

(b) Such Pollution Conditions have been reported to the appropriate governmental agency in compliance with applicable Environmental Laws, in effect as of the date of discovery.

2 To pay Loss on behalf of the Insured that the Insured is legally obligated to pay as a result of Claims first made against the Insured and reported to the Company, in writing, during the Policy Period, or during the Extended Reporting Period if applicable, for Clean-Up Costs on or under the Insured Property resulting from Pollution Conditions on or under the Insured Property which commenced on or after the Continuity Date

COVERAGE C – THIRD-PARTY CLAIMS FOR ON-SITE BODILY INJURY AND PROPERTY DAMAGE

To pay Loss on behalf of the Insured that the Insured becomes legally obligated to pay as a result of Claims first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable, for Bodily Injury, or Property Damage to Personal Property of third-parties caused by Pollution Conditions on or under the Insured Property, if such Bodily Injury or Property Damage takes place while the person injured or Personal Property damaged is on the Insured Property.

COVERAGE D – THIRD-PARTY CLAIMS FOR OFF-SITE CLEAN-UP RESULTING FROM PRE-EXISTING CONDITIONS

To pay Loss on behalf of the Insured that the Insured becomes legally obligated to pay as a result of Claims first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable, for Clean-Up Costs beyond the boundaries of the Insured Property resulting from Pollution Conditions on or under the Insured Property which commenced prior to the Continuity Date and which have migrated beyond the boundaries of the Insured Property.

COVERAGE E – THIRD-PARTY CLAIMS FOR OFF-SITE CLEAN-UP RESULTING FROM NEW CONDITIONS

To pay Loss on behalf of the Insured that the Insured becomes legally obligated to pay as a result of Claims first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable, for Clean-Up Costs beyond the boundaries of the Insured Property resulting from Pollution Conditions on or under the Insured Property which commenced on or after the Continuity Date and which have migrated beyond the boundaries of the Insured Property

COVERAGE F – THIRD-PARTY CLAIMS FOR OFF-SITE BODILY INJURY AND PROPERTY DAMAGE

To pay Loss on behalf of the Insured that the Insured becomes legally obligated to pay as a result of Claims first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable, for Bodily Injury or Property Damage beyond the boundaries of the Insured Property resulting from Pollution Conditions on or under the Insured Property which have migrated beyond the boundaries of the Insured Property

COVERAGE G - THIRD-PARTY CLAIMS FOR ON-SITE CLEAN-UP COSTS - NON-OWNED LOCATIONS

To pay Loss on behalf of the Insured that the Insured becomes legally obligated to pay as a result of Claims first made against the Insured and reported to the Company in writing during the Policy Period, or during Extended Reporting Period if applicable, for Clean-Up Costs on or under a Non-Owned Location resulting from Pollution Conditions on or under such Non-Owned Location.

COVERAGE H – THIRD-PARTY CLAIMS FOR OFF-SITE BODILY INJURY, PROPERTY DAMAGE OR CLEAN-UP COSTS - NON-OWNED LOCATIONS

To pay Loss on behalf of the Insured that the Insured becomes legally obligated to pay as a result of Claims first made

against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable, for Bodily Injury, Property Damage or Clean-Up Costs beyond the boundaries of a Non-Owned Location resulting from Pollution Conditions on or under such Non-Owned Location, which have migrated beyond the boundaries of such Non-Owned Location

COVERAGE I - POLLUTION CONDITIONS RESULTING FROM TRANSPORTED CARGO

To pay Loss on behalf of the Insured that the Insured becomes legally obligated to pay as a result of Claims first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable, for Bodily Injury, Property Damage or Clean-Up Costs resulting from Pollution Conditions from Transported Cargo.

COVERAGE J - BUSINESS INTERRUPTION COVERAGE - ACTUAL LOSS OR LOSS OF RENTAL VALUE

To pay the Insured's Actual Loss or loss of Rental Value, and Extra Expense to the extent it reduces Actual Loss or loss of Rental Value otherwise payable under this coverage section, resulting from the necessary interruption of the Insured's business operations during the Period of Restoration. Such necessary interruption must be caused solely and directly by Pollution Conditions on or under the Insured Property. If the necessary interruption of the Insured's business operations is caused by such Pollution Conditions and any other cause, the Company shall pay only for that part of Actual Loss or loss of Rental Value and Extra Expense resulting from such necessary interruption caused solely and directly by such Pollution Conditions.

Such Pollution Conditions must:

1. (a) commence prior to the Continuity Date, if the Named Insured has purchased Coverage A, under this Policy, or
(b) commence on or after the Continuity Date, if the Named Insured has purchased Coverage B, or Coverages A and B, under this Policy; and
2. be first discovered by the Insured during the Policy Period; and
3. be reported to the Company, no later than thirty (30) days after discovery.

In determining Actual Loss or loss of Rental Value, the Report/Worksheet annexed to this Policy and made a part of it shall be utilized.

COVERAGE K - CLEAN-UP COST CAP - KNOWN POLLUTANTS

To indemnify the Insured for Loss which the Insured sustained for Clean-Up Costs the Insured first incurs on or after the Inception Date and before the Termination Date:

- (a) At an Insured Property pursuant to the Remedial Action Plan; or
- (b) Beyond the boundaries of the Remedial Action Plan if such Clean-Up Costs are incurred in the Clean-Up of Pollutants which were discovered through and originated from the performance of the Remedial Action Plan

This coverage applies only if the following conditions are satisfied:

1. If the Named Insured has other insurance, surety contracts or bonds for such Clean-Up Costs, the limits of such insurance, surety contracts or bonds have been exhausted;
2. The Insured reports the Clean-Up Costs to the Company prior to the Termination Date, in accordance with Section II.A of the Policy; and

- 3 The Insured provides the Company with progress reports, including work completed and costs incurred to date on at least a calendar quarter basis on the progress of the Remedial Action Plan and the Clean-Up Costs incurred under this Coverage K.

COVERAGE L - CLEAN-UP COST CAP - UNKNOWN POLLUTANTS

To indemnify the Insured for Loss which the Insured sustained for Clean-Up Costs the Insured first incurs on or after the Inception Date and before the Termination Date, for Pollutants different from those identified in the Remedial Action Plan for a Clean-Up at an Insured Property

This Coverage applies only if all the following conditions are satisfied:

1. If the Named Insured has other insurance, surety contracts or bonds for such Clean-Up Costs, the limits of such insurance, surety contracts or bonds have been exhausted;
2. The Pollutants originated from an Insured Property;
3. The Pollutants are first discovered in the course of performing a Clean-Up pursuant to the Remedial Action Plan at an Insured Property; and
4. The Insured reports the discovery of such Pollutants to the Company no later than thirty (30) days after discovery of such Pollutants and in any event before the Termination Date, in accordance with Section II.A. of this Policy

2. LEGAL EXPENSE AND DEFENSE

The Company shall have the right and the duty to defend any Claims covered under Coverages A through I provided the Named Insured has purchased such Coverage. The Company's duty to defend or continue defending any such Claim, and to pay any Loss, shall cease once the applicable limit of liability, as described in Section V. (Limits of Coverage; Deductible) has been exhausted. Defense costs, charges and expenses are included in Loss and reduce the applicable limit of liability, as described in Section V., and are included within the Deductible amount for the Coverage Section which applies and is shown in Item 3 of the Declarations.

In the event the Insured is entitled by law to select independent counsel to defend the Insured at the Company's expense, the attorney fees and all other litigation expenses the Company must pay to that counsel are limited to the rates the Company would actually pay to counsel that the Company retains in the ordinary course of business in the defense of similar Claims in the community where the Claim arose or is being defended.

Additionally, the Company may exercise the right to require that such counsel have certain minimum qualifications with respect to their competency, including experience in defending Claims similar to the one pending against the Insured, and to require such counsel to have errors and omissions insurance coverage. As respects any such counsel, the Insured agrees that counsel will timely respond to the Company's request for information regarding the Claim. The Insured may at any time, by its signed consent, freely and fully waive its right to select independent counsel.

If the Insured refuses to consent to any settlement within the limits of liability of this Policy recommended by the Company and acceptable to the claimant, the Company's duty to defend the Insured shall then cease and the Insured shall thereafter negotiate or defend such Claim independently of the Company and the Company's liability shall not exceed the amount, less the Deductible or any outstanding Deductible balance, for which the Claim could have been settled if such recommendation was consented to

II. NOTICE REQUIREMENTS AND CLAIM PROVISIONS

It is a condition precedent to any rights afforded under this Policy that the Insured provide the Company with notice of Pollution Conditions, Claims and the discovery of Pollutants as follows:

A. NOTICE OF POLLUTION CONDITIONS, CLAIMS AND POLLUTANTS

- 1 In the event of Pollution Conditions under Coverages A through J, a Claim under Coverages A through I, or the discovery of Pollutants at or beyond the boundaries of an Insured Property under Coverages K or L, the Insured shall give written notice to:

Manager, Pollution Insurance Products Unit
 AIG Technical Services, Inc.
 Environmental Claims Department
 80 Pine Street, Sixth Floor
 New York, New York 10005

and

Division Attorney – Pollution Legal Liability
 American International Specialty Lines Insurance Company
 175 Water Street, Twelfth Floor
 New York, New York 10038

or other address(es) as substituted by the Company in writing

- 2. The Insured shall give notice of Pollution Conditions as soon as practicable and such notice shall include, at a minimum, information sufficient to identify the Named Insured, the Insured Property, the names of persons with knowledge of the Pollution Conditions and all known and reasonably obtainable information regarding the time, place, cause, nature of and other circumstances of the Pollution Conditions. Written notice shall be made on a notice of loss form supplied by the Company.
- 3. The Insured shall give notice of Claims as soon as practicable, but in any event during the Policy Period or Extended Reporting Period, if applicable. The Insured shall furnish information at the request of the Company. When a Claim has been made, the Insured shall forward the following to the Company as soon as practicable:
 - a. All reasonably obtainable information with respect to the time, place and circumstances thereof, and the names and addresses of the claimant(s) and available witnesses
 - b. All demands, summonses, notices or other process or papers filed with a court of law, administrative agency or an investigative body;
 - c. Other information in the possession of the Insured or its hired experts which the Company reasonably deems necessary.

B. NOTICE OF POSSIBLE CLAIM

- 1 If during the Policy Period, the Insured first becomes aware of Pollution Conditions which it reasonably expects may result in a Claim under one or more of Coverages ~~G through I~~ which the Named Insured has purchased, the Insured may provide written notice to the Company during the Policy Period containing all the information required under paragraph 2) below. Any Claim

subsequently made against the Insured and reported to the Company within five (5) years after the end of the Policy Period of this Policy or any continuous, uninterrupted renewal thereof, shall be deemed to have been first made and reported during the Policy Period of this Policy. Such Claim shall be subject to the terms, conditions and limits of coverage of this Policy.

- 2 It is a condition precedent to the coverage afforded by this Clause that written notice of Pollution Conditions or a Claim under paragraph 1) above contain all of the following information: (a) the cause of the Pollution Conditions; (b) the Insured Property upon which the Pollution Conditions took place; (c) the Bodily Injury, Property Damage or Clean-Up Costs which has resulted or may result from such Pollution Conditions; (d) the Insured(s) which may be subject to the Claim and any potential claimant(s); (e) all engineering information available on the Pollution Conditions and any other information that the Company deems reasonably necessary; and (f) the circumstances by which and the date the Insured first became aware of the potential Claim

III. RIGHTS OF THE COMPANY AND DUTIES OF THE INSURED IN THE EVENT OF POLLUTION CONDITIONS AND IN CONNECTION WITH REMEDIAL ACTIVITIES

A. Pollution Conditions - Coverages A Through J

- 1 The Company's Rights
- (a) The Company shall have the right but not the duty to clean up or mitigate Pollution Conditions upon receiving notice as provided in Section II of this Policy
- (b) Allocation of Sums Expended. Any sums expended by the Company under Paragraph A.1.(a) of this Section III will be deemed incurred or expended by the Insured and shall be applied against the limits of coverage under this Policy.
- 2 The Named Insured shall have the duty to clean up Pollution Conditions to the extent required by Environmental Laws, by retaining competent professional(s) or contractor(s) mutually acceptable to the Company and the Named Insured. The Company shall have the right but not the duty to review and approve all aspects of any such Clean-Up. The Named Insured shall notify the Company of actions and measures taken pursuant to this paragraph.

B. Remedial Activities - Coverages K and L

- 1 The Company shall have the right, but not the duty, to review, assess and inspect all aspects of any Clean-Up to which Coverages K or L apply, regardless of whether the Insured has incurred Clean-Up Costs in excess of the Self-Insured Retention. Neither the Company's rights nor its exercise of the rights under this paragraph shall constitute an undertaking to determine or warrant that the Clean-Up is safe, healthful, or in conformity with applicable law
- 2 The Insured shall: (a) take all reasonable and prudent steps to minimize the Clean-Up Costs; (b) limit access to the Insured Property and prevent the spread of further contamination; (c) retain competent professional(s) or contractor (s) acceptable to the Company and the Insured to undertake and complete Clean-Up; (d) keep detailed records of all Clean-Up Costs; and (e) to the extent of the Insured's legal right of access, permit the Company to inspect the Insured Property, as often as the Company chooses, after providing reasonable notice, and inspect all financial records, drawings, plans and specifications involved in the Loss.
- 3 The Insured shall cooperate with the Company by providing the Company with:

- 7
- (a) All information developed or discovered by the Insured concerning the Clean-Up, whether or not deemed by the Insured to be relevant;
 - (b) ^A Free access to interview any agent, servant or employee of the Insured or any contractor or subcontractor involved in the Clean-Up; and
 - (c) Any other information or other reasonable requests from the Company concerning the Clean-Up

IV. EXCLUSIONS

1. COMMON EXCLUSIONS - APPLICABLE TO ALL COVERAGES

Unless otherwise provided in the Exclusions below, this Policy does not apply to Clean-Up Costs, Claims, Loss, Actual Loss, Extra Expense, or loss of Rental Value:

A. PUNITIVE DAMAGES; FINES/PENALTIES:

due to or for any punitive, exemplary or the multiplied portion of multiple damages, or any civil or administrative fines, penalties or assessments, except where such damages, fines, penalties or assessments are insurable by applicable law; or any criminal fines, penalties or assessments.

B. CONTRACTUAL LIABILITY:

arising from liability of others assumed by the Insured under any contract or agreement, unless the liability of the Insured would have attached in the absence of such contract or agreement or the contract or agreement is an Insured Contract.

C. TRANSPORTATION:

except with respect to Coverage I, arising out of the ownership, maintenance, use, operation, loading or unloading of any conveyance beyond the boundaries of the Insured Property

D. ABANDONED PROPERTY:

arising from Pollution Conditions on, under or originating from the Insured Property and which commence subsequent to the time the Insured Property is abandoned.

E. INTENTIONAL OR ILLEGAL ACTS:

arising from Pollution Conditions that result from an intentional or illegal act or omission of a Responsible Insured, if he or she knew or reasonably could have expected that Pollution Conditions would result

F. NONCOMPLIANCE:

arising from Pollution Conditions based upon or attributable to any Responsible Insured's intentional, willful or deliberate noncompliance with any statute, regulation, ordinance, administrative complaint, notice of violation, notice letter, executive order, or instruction of any governmental agency or body. However, with respect to Coverages K and L, this exclusion does not apply to such noncompliance which resulted in the necessity for the Remedial Action Plan.

G. INTERNAL EXPENSES:

for costs, charges or expenses incurred by the Insured for goods supplied or services performed by the staff or salaried employees of the Insured, or its parent, subsidiary or affiliate, except if in response to an emergency or pursuant to Environmental Laws which require immediate remediation of Pollution Conditions, or unless such costs, charges or expenses are incurred with the prior written approval of the Company in its sole discretion.

H. INSURED vs. INSURED:

by any Insured against any other person or entity who is also an Insured under this Policy.

I. ASBESTOS AND LEAD:

except with respect to Coverages A through I, arising from the presence of asbestos or any asbestos-containing materials or lead-based paint installed or applied in, on or to any building or other structure.

J. EMPLOYER LIABILITY:

arising from Bodily Injury to an employee of the Insured or its parent, subsidiary or affiliate arising out of and in the course of employment by the Insured or its parent, subsidiary or affiliate. This exclusion applies whether the Insured may be liable as an employer or in any other capacity and to any obligation to share damages with or repay third parties who must pay damages because of injury

K. PRIOR KNOWLEDGE/NON-DISCLOSURE:

arising from Pollution Conditions existing prior to the inception date of this Policy and not disclosed in the application for this Policy, if any Responsible Insured knew or reasonably could have expected that such Pollution Conditions could give rise to Clean-Up Costs, interruption of the Insured's business, or a Claim under this Policy.

L. REMEDIAL ACTION PLAN:

except with respect to Coverages K and L, for costs of performing a Remedial Action Plan, or arising from Pollution Conditions discovered in the course of performing a Remedial Action Plan.

2. COVERAGE I EXCLUSIONS

The following exclusions apply to Coverage I.

This Policy does not apply to Claims or Loss:

A. PROPERTY DAMAGE TO CONVEYANCES:

for Property Damage to any conveyance utilized during the Transportation of Cargo. This exclusion does not apply to Claims made by third-party carriers of the Insured for such Property Damage arising from the Insured's negligence.

B. POLLUTION CONDITIONS PRIOR OR SUBSEQUENT TO TRANSPORTATION OF CARGO:

arising from a Pollution Condition:

- (1) which commences prior to the Transportation of Cargo; or

- (2) which commences after Cargo reaches its final destination, or while the Cargo is in storage off-loaded from the conveyance which was transporting it;

C THIRD-PARTY CARRIER CLAIMS:

made by a third-party carrier, its agents or employees, for Bodily Injury, Property Damage or Clean-Up Costs, whether or not the Bodily Injury, Property Damage or Clean-Up Costs were directly incurred by such third-party carrier. This exclusion does not apply to Claims arising from the Insured's negligence

3. COVERAGE K AND L EXCLUSIONS

The following exclusions apply to Coverages K and L.

This Policy does not apply to Clean-Up Costs:

A. BODILY INJURY OR PROPERTY DAMAGE

arising from any Bodily Injury or Property Damage.

B. LIABILITY TO THIRD-PARTIES

arising from any liability to any third-party for any reason whatsoever, other than Clean-Up Costs otherwise covered under this Policy.

C. DELAY, DEFAULT, SUSPENSION, DEFECTS

arising from:

- 1 Delay due to labor disputes, including, but not limited to, strikes;
- 2 Suspension, lapse, modification or cancellation of any license, permit, lease or contract which is required by the governmental entity responsible for supervision of the Clean-Up;
- 3 Default, bankruptcy or insolvency of any entity(ies) involved in the Clean-Up, but this Exclusion D 3 does not apply if the entity(ies) involved in the Clean-Up has a performance bond issued by a surety company on the Federal Register of the United States Department of the Treasury which, in fact, provides coverage for the Clean-Up at the time of such default, bankruptcy or insolvency;
- 4 Suspension of operations or prohibition of access to an Insured Property by order of governmental authority;
- 5 Unreasonable time delay in a contractor's performance of Clean-Up, as defined by contract, if such delay is within the control of the contractor performing the Clean-Up; or
- 6 Faulty workmanship or defective materials

D. MODIFICATION OF REMEDIAL ACTION PLAN

arising from any modification of the Remedial Action Plan made by the Named Insured, unless:

- 1 Such modification is required by the governmental entity responsible for supervision of the

Clean-Up; or

2. The Company has consented to such modification in advance, in writing

E OTHER APPLICABLE COVERAGE(S)

covered under any of Coverages A through I whether or not such Coverages are applicable to this Policy, or those Clean-Up Costs, which except for the amount thereof, would be covered under any of such Coverages.

V. LIMITS OF COVERAGE; DEDUCTIBLE

Regardless of the number of Claims, claimants, Pollution Conditions, Insureds or Insured Properties under this Policy, the following limits of liability apply:

A. Policy Aggregate Limit

The Company's total liability for all Clean-Up Costs and Loss, under Coverages A through I and Coverages K and L, and all Actual Loss, loss of Rental Value and Extra Expense under Coverage I, shall not exceed the "Policy Aggregate" stated in Item 4 of the Declarations.

B. Each Incident Limit - Coverages A Through I

- (1) Subject to Paragraph V A. above, the most the Company will pay for all Clean-Up Costs under Coverages A and B, and for all Loss under each Coverage in Coverages A through I arising from the same, related or continuous Pollution Conditions is the "Each Incident" limit of coverage for that particular coverage stated in Item 3 of the Declarations.
- (2) If the Insured first discovers Pollution Conditions during the Policy Period and reports them to the Company in accordance with Section II, all continuous or related Pollution Conditions first discovered by the Named Insured and reported to the Company under a subsequent Pollution Legal Liability Policy issued by the Company or its affiliate providing substantially the same coverage as this Policy shall be deemed to have been first discovered and reported during the Policy Period
- (3) If a Claim for Bodily Injury, Property Damage, or Clean-Up Costs is first made against the Insured and reported to the Company during the Policy Period, all Claims for Bodily Injury, Property Damage or Clean-Up Costs, arising from the same, continuous or related Pollution Conditions which are first made against the Insured and reported under a subsequent Pollution Legal Liability Policy issued by the Company or its affiliate providing substantially the same coverage as this Policy, shall be deemed to have been first made and reported during this Policy Period. Coverage under this Policy for such Claims shall not apply, however, unless at the time such Claims are first made and reported, the Insured has maintained with the Company or its affiliate Pollution Legal Liability coverage substantially the same as this coverage on a continuous, uninterrupted basis since the first such Claim was made against the Insured and reported to the Company.

C. Coverage Section Aggregate Limit

Subject to Paragraph V A. above, the Company's total liability for all Clean-Up Costs under Coverages A and B, and for all Loss under each Coverage in Coverages A through I, shall not exceed the "Coverage Section Aggregate" limit of coverage for that particular coverage stated in Item 3 of the Declarations

D. Maximum for Clean-Up Cost Cap

1. Subject to Paragraph V A above, the maximum amount for which the Company is liable for all Loss under Coverages K and L is the Company's percentage of the Limit of Liability stated in Item 3 of the Declarations, regardless of whether or not the Insured is financially unable, or is unwilling to pay its Co-Insurance Participation or its Self-Insured Retention. The Self-Insured Retention and Co-Insurance Participation are to be borne by the Insured and are not to be insured.
2. Subject to and as part of the Company's limit of liability under Coverages K and L described in paragraph V D.(1) above, the most the Company will pay for costs, charges or expenses expended for the preparation of a Remedial Action Plan, if any, under Coverage L, shall not exceed 5% of the Company's total liability under Coverage L.

E. Maximum for All Business Interruption

Subject to Paragraph V.A above, the maximum amount for which the Company is liable for all Actual Loss or loss of Rental Value, and Extra Expense under Coverage J is 80% of the lesser of:

1. the Actual Loss and Extra Expense, or loss of Rental Value and Extra Expense, whichever is applicable, incurred during the number of days of interruption of business stated in Item 3 of the Declarations, and
2. the amount stated in Item 3 of the Declarations

It is a condition of Coverage J that the remaining 20% of such amount be borne by the Insured at its own risk and remain uninsured

F. Multiple Coverages

Subject to Paragraph V.A. above, if the same, related or continuous Pollution Conditions result in coverage under more than one Coverage under Coverages A through J, every applicable "Each Incident," "Coverage Section Aggregate," and "Maximum for All Business Interruption" limit of coverage among such coverage sections shall apply to the Clean-Up Costs, Loss, Actual Loss and Extra Expense, or loss of Rental Value and Extra Expense, whichever is applicable, resulting from such Pollution Conditions.

G. Deductible/Self-Insured Retention

(1) Coverages A through I

Subject to Paragraphs V.A. through V.F. above, this Policy is to pay covered Clean-Up Costs, or Loss, as the case may be, in excess of the Deductible amount stated in Item 3 of the Declarations for that particular coverage, up to but not exceeding the applicable "Each Incident" limit of coverage. The Deductible amount applies to all Clean-Up Costs or Loss arising from the same, related or continuous Pollution Conditions

If the same, related or continuous Pollution Conditions result in coverage under more than one coverage section in Coverages A through I, only the highest Deductible amount stated in Item 3 of the Declarations among all the coverage sections applicable to the Claim will apply. A separate Deductible applies under Coverage J

The Insured shall promptly reimburse the Company for advancing any element of Clean-Up Costs or Loss falling within the Deductible.

(2) Coverage J

Subject to Paragraphs V.A. through V.F. above, this Policy is to pay the Actual Loss or loss of Rental Value, and Extra Expense under Coverage J in excess of the Actual Loss or loss of Rental Value, and Extra Expense

sustained during the first seven (7) days of the necessary interruption of the Insured's business operations during the Period of Restoration. The Deductible amount applies to all Actual Loss, or loss of Rental Value, and Extra Expense arising from the same, related or continuous Pollution Conditions.

(3) **Coverages K and L.**

Subject to Paragraphs V A. through V F above, this Policy is to pay Clean-Up Costs under Coverages K and L in excess of the Self-Insured Retention and Co-Insurance Participation

VI. DEFINITIONS

A Actual Loss means the:

- (1) Net Income (Net Profit or Loss before income taxes) the Insured would have earned or incurred had there been no interruption of business operations; and
- (2) Continuing normal operating expenses incurred, including Ordinary Payroll Expense.

B Bodily Injury means physical injury, or sickness, disease, mental anguish or emotional distress, sustained by any person, including death resulting therefrom.

C. Cargo means goods, products or wastes transported for delivery by a carrier properly licensed to transport such goods, products or wastes.

D. Claim means a written demand received by the Insured seeking a remedy and alleging liability or responsibility on the part of the Insured for Loss under Coverages A through I.

E. Clean-Up, as used in Coverages K and L, means the removal, disposal, treatment (including in-situ treatment) or neutralization of Pollutants, but does not include any monitoring activities that may be required after the completion of such removal, disposal, treatment or neutralization.

F. Clean-Up Costs means:

- (1) with respect to Coverages A through I, reasonable and necessary costs, charges and expenses, including reasonable and necessary legal expenses incurred with the Company's written consent, incurred in the removal, disposal, treatment (including in-situ treatment), or neutralization of Pollutants:
 - (a) to the extent required by Environmental Laws, or specifically mandated by court order, the government or any political subdivision of the United States of America or any state thereof, or Canada or any province thereof duly acting under the authority of Environmental Law(s); or
 - (b) which have been actually incurred by the government or any political subdivision of the United States of America or any state thereof or Canada or any province thereof, or by third parties.
- (2) with respect to Coverages K and L, reasonable and necessary costs, charges and expenses incurred solely for Clean-Up; however, Clean-Up Costs does not include:
 - (a) costs, charges or expenses incurred for litigation, arbitration or other form of dispute resolution in any way related to or in connection with Clean-Up, including fees of attorneys, consultants, investigators, adjusters and experts, unless otherwise expressly consented to in

writing and in advance by the Company; or

- (b) costs, charges or expenses expended in preparation of the Remedial Action Plan; provided, however, the sub-limit of liability described in Section V.D 2. shall apply to costs, charges or expenses expended in preparation of a Remedial Action Plan under Coverage I

G Co-Insurance Participation means the percentage of Clean-Up Costs the Insured must bear in excess of the Self-Insured Retention, as shown in Item 3 of the Declarations.

H Continuity Date means the date stated in Item 8 of the Declarations.

I Environmental Laws means any applicable federal, state, provincial or local law pursuant to which the Insured has or may have a legal obligation to incur Clean-Up Costs.

J Extended Reporting Period means either the automatic additional period of time or the optional additional period of time, whichever is applicable, in which to report Claims following termination of coverage, as described in Section VIII of this Policy.

K Extra Expense means necessary expenses the Insured incurs during the Period of Restoration:

(1) That would not have been incurred if there had not been an interruption of the Insured's business operations by covered Pollution Conditions; and

(2) Which avoid or minimize the interruption of the Insured's business operations,

but only to the extent such expenses reduce Actual Loss or loss of Rental Value, whichever is applicable, otherwise covered under this Policy

Any salvage value of property obtained for temporary use during the Period of Restoration, which remains after the resumption of normal operations, shall be taken into consideration in the adjustment of any loss under Extra Expense coverage.

L Inception Date means the beginning date of the period set forth in Item 2 of the Declarations.

M Insured means the Named Insured, and any past or present director, officer, partner or employee thereof, including a temporary or leased employee, while acting within the scope of his or her duties as such.

N Insured Contract means a contract or agreement submitted to and approved by the Company, and listed in a Schedule to this Policy.

O Insured Property means with respect to Coverages A through J, each of the locations identified in Item 5(a) of the Declarations, and, with respect to Coverages K and L, each of the locations identified in Item 5(b) of the Declarations.

P Loss means, under the applicable Coverages: (1) monetary awards or settlements of compensatory damages for Bodily Injury or Property Damage; (2) where applicable, costs, charges and expenses incurred in the defense, investigation or adjustment of Claims for such compensatory damages or for Clean-Up Costs; or (3) Clean-Up Costs

Q Named Insured means the person or entity named in Item 1 of the Declarations

R Non-Owned Location means a site that is neither owned nor operated by the Named Insured, and which is identified in a Non-Owned Covered Locations Schedule attached to and made a part of this Policy by endorsement.

- S Ordinary Payroll Expense** means the entire payroll expense for all employees of the Insured, except officers, executives, department managers and employees under contract.
- T. Period of Restoration** means the length of time as would be required with the exercise of due diligence and dispatch to restore the Insured Property to a condition which allows the resumption of normal business operations, commencing with the date operations are interrupted by **Pollution Conditions** on or under the Insured Property, and not limited by the date of expiration of the **Policy Period**. The **Period of Restoration** does not include any time caused by the interference by employees or other persons with restoring the property, or with the resumption or continuation of operations; or any time caused by the delay in any action to be taken by a governmental authority necessary to allow the resumption of business operations.
- U Personal Property** means any property other than real property and whatever is erected or growing upon or affixed to real property
- V. Policy Period** means the period set forth in Item 2 of the Declarations, or any shorter period arising as a result of:
- (1) cancellation of this Policy; or
 - (2) with respect to particular **Insured Property** or **Non-Owned Locations** designated in the Declarations, the deletion of such location(s) from this Policy by the Company.
- W. Pollutants** means any solid, liquid, gaseous or thermal irritant or contaminant, including smoke, vapors, soot, fumes, acids, alkalis or toxic chemicals, and includes waste.
- X. Pollution Conditions** means the discharge, dispersal, release or escape of any **Pollutants** into or upon land, the atmosphere or any watercourse or body of water, including groundwater, provided such conditions are not naturally present in the environment.
- Y. Property Damage** means:
- (1) Physical injury to or destruction of tangible property of parties other than the Insured, including the resulting loss of use or value thereof; and
 - (2) Loss of use, but not loss of value, of tangible property of parties other than the Insured which has not been physically injured or destroyed.
- Property Damage** does not include **Clean-Up Costs**.
- Z. Remedial Action Plan** means the documentation attached to and forming part of the Policy which describes the **Clean-Up** to be undertaken at the Insured Property, and, to the extent described therein, at areas beyond the boundaries of the Insured Property
- AA. Rental Value** means the:
- (1) Total anticipated rental income from tenant occupancy of the **Insured Property** as furnished and equipped by the Insured;
 - (2) Amount of all charges which are the legal obligation of the tenant(s) and which would otherwise be the Insured's obligations; and
 - (3) Fair rental value of any portion of the described premises which is occupied by the Insured,

less any rental income the Insured could earn by complete or partial rental of the Insured Property, or any reduction in loss by making use of other property on the Insured Property or elsewhere

BB. Responsible Insured means any employee of the Named Insured responsible for environmental affairs, control or compliance, or any manager, supervisor, officer, director or partner of the Named Insured.

CC. Self-Insured Retention means the amount of Clean-Up Costs stated in Item 3 of the Declarations

DD. As used in Coverages K and L, Termination Date means the earliest of the following:

- 1 The ending date of the period set forth in Item 2 of the Declarations;
- 2 The date on which the Limit of Liability shown in Item 3 of the Declarations for Coverages K and L is exhausted; or
- 3 With respect to Coverage K only, when the Insured receives written approval from the governmental entity responsible for supervision of the Clean-Up that Clean-Up has been completed at the Insured Property in accordance with the Remedial Action Plan

The Termination Date shall not be extended by the exercise of any rights held by a governmental entity to reopen, reconsider, or otherwise cause the Insured to perform Clean-Up Action after previously having approved or acknowledged that Clean-Up has been completed at the Insured Property in accordance with the Remedial Action Plan.

EE. Transportation means the movement of Cargo by a conveyance, from the place where it is accepted by a carrier until it is moved:

- (1) to the place where the carrier finally delivers it; or
- (2) in the case of waste, to a waste disposal facility to which the carrier delivers it

Transportation includes the carrier's loading or unloading of Cargo onto or from a conveyance.

FF. Transported Cargo means Cargo after it is moved from the place where it is accepted by the Carrier for movement into or onto a conveyance, until the Cargo is moved from the conveyance to the place where it is finally delivered to the Named Insured. Transported Cargo also includes Cargo during the loading or unloading onto or from a conveyance, provided that the loading or unloading is performed by or on behalf of the Named Insured.

VII. CONDITIONS

A. Assignment - This Policy may not be assigned without the prior written consent of the Company. Assignment of interest under this Policy shall not bind the Company until its consent is endorsed thereon.

B. Subrogation - In the event of any payment under this Policy, the Company shall be subrogated to all the Insured's rights of recovery therefor against any person or organization and the Insured shall execute and deliver instruments and papers and do whatever else is necessary to secure such rights including without limitation, assignment of the Insured's rights against any person or organization who caused Pollution Conditions on account of which the Company made any payment under this Policy. The Insured shall do nothing to prejudice the Company's rights under this paragraph. Any recovery as a result of subrogation proceedings arising out of the payment of Clean-Up Costs or Loss covered under this Policy shall accrue first to the Insured to the extent of any payments in excess of the limit of coverage; then to the Company to the extent of its payment under the Policy; and then to the Insured to the extent of its Deductible. Expenses

incurred in such subrogation proceedings shall be apportioned among the interested parties in the recovery in the proportion that each interested party's share in the recovery bears to the total recovery.

- C. **Cooperation** - The Insured shall cooperate with the Company and offer all reasonable assistance in the investigation and defense of Claims under the applicable Coverages purchased. The Company may require that the Insured submit to examination under oath, and attend hearings, depositions and trials. In the course of investigation or defense, the Company may require written statements or the Insured's attendance at meetings with the Company. The Insured must assist the Company in effecting settlement, securing and providing evidence and obtaining the attendance of witnesses.
- D. **Changes** - Notice to any agent or knowledge possessed by any agent or by any other person shall not effect a waiver or a change in any part of this Policy or estop the Company from asserting any rights under the terms of this Policy; nor shall the terms of this Policy be waived or changed, except by endorsement issued to form a part of this Policy.
- E. **Sole Agent** - The Named Insured first listed in Item 1 of the Declarations shall act on behalf of all other Insureds, if any, for the payment or return of premium, receipt and acceptance of any endorsement issued to form a part of this Policy, giving and receiving notice of cancellation or nonrenewal, and the exercise of the rights provided in the Extended Reporting Period clause.
- F. **Voluntary Payments** - No Insured shall voluntarily enter into any settlement, or make any payment or assume any obligation unless in response to an emergency or pursuant to state law which requires immediate remediation of Pollution Conditions, without the Company's consent which shall not be unreasonably withheld, except at the Insured's own cost.
- G. **Concealment or Fraud** - This entire Policy shall be void if, whether before or after Clean-Up Costs are incurred or a Claim is first made, the Named Insured has willfully concealed or misrepresented any fact or circumstance material to the granting of coverage under this Policy, the description of the Insured Property, or the interest of the Insured therein.
- H. **Cancellation** - This Policy may be canceled by the Named Insured by surrender thereof to the Company or any of its authorized agents or by mailing to the Company written notice stating when thereafter the cancellation shall be effective. This Policy may be canceled by the Company by mailing to the Named Insured at the address shown in the Policy, written notice stating when not less than thirty (30) days (10 days for nonpayment of premium) thereafter such cancellation shall be effective. Proof of mailing of such notice shall be sufficient proof of notice.
- The time of surrender or the effective date and hour of cancellation stated in the notice shall become the end of the Policy Period. Delivery of such written notice either by the Named Insured or by the Company shall be equivalent to mailing. If the Named Insured cancels, earned premium shall be computed in accordance with the customary short rate table and procedure. If the Company cancels, earned premium shall be computed pro rata. Premium adjustment may be either at the time cancellation is effected or as soon as practicable after cancellation becomes effective, but payment or tender of unearned premium is not a condition of cancellation.
- I. **Other Insurance** - Where other insurance may be available for the Clean-Up Costs or Loss covered under this Policy, the Insured shall promptly upon request of the Company provide the Company with copies of all such policies. If other valid and collectible insurance is available to the Insured for Clean-Up Costs or Loss covered by this Policy, the Company's obligations are limited as follows:
- 1) This insurance is primary, and the Company's obligations are not affected unless any of the other insurance is also primary. In that case, the Company will share with all such other insurance by the method described in Paragraph (2) below.
 - 2) If all of the other insurance permits contribution by equal shares, the Company will follow this

method also Under this approach each insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the loss remains, whichever comes first. If any of the other insurance does not permit contribution by equal shares, the Company will contribute by limits. Under this method, each insurer's share is based on the ratio of its applicable limit of insurance to the total applicable limits of insurance of all insurers

- J Right of Access and Inspection** - Any of the Company's authorized representatives shall have the right and opportunity but not the obligation when the Company so desires to interview persons employed by the Insured and to inspect at any reasonable time, during the Policy Period or thereafter, the Insured Property and all improvements, structures, products, ways, works, machinery and appliances thereon; but neither the Company nor its representatives shall assume any responsibility or duty to the Insured or to any other party, person or entity, by reason of such right or inspection. Neither the Company's right to make inspections, sample and monitor, nor the actual undertaking thereof nor any report thereon shall constitute an undertaking on behalf of the Insured or others, to determine or warrant that property or operations are safe, healthful or conform to acceptable engineering practices or are in compliance with any law, rule or regulation. The Named Insured agrees to provide appropriate personnel to assist the Company's representatives during any inspection.
- K Access to Information** - The Named Insured agrees to provide to the Company any information developed or discovered by the Insured concerning Clean-Up Costs for Pollution Conditions covered under this Policy, whether or not deemed by the Insured to be relevant to such Clean-Up Costs and to provide the Company free access to interview any Insured and review any documents of the Insured.
- L Representations** - By acceptance of this Policy, the Named Insured agrees that the statements in the Declarations, the Application and the Report/Worksheet are their agreements and representations, that this Policy is issued in reliance upon the truth of such representations and that this Policy embodies all agreements existing between the Insured and the Company or any of its agents relating to this insurance.
- M. Action Against Company** - No action shall lie against the Company, unless as a condition precedent thereto, there shall have been full compliance with all of the terms of this Policy, nor until the amount of the Insured's obligation to pay shall have been finally determined either by judgment against the Insured after actual trial or by written agreement of the Insured, the claimant and the Company.
- Any person or organization or the legal representative thereof who has secured such judgment or written agreement shall thereafter be entitled to recover under this Policy to the extent of the insurance afforded by the Policy. No person or organization shall have any right under this Policy to join the Company as a party to any action against the Insured to determine the Insured's liability, nor shall the Company be impleaded by the Insured or his legal representative. Bankruptcy or insolvency of the Insured or of the Insured's estate shall not relieve the Company of any of its obligations hereunder.
- N. Service Of Suit** - It is agreed that in the event of failure of the Company to pay any amount claimed to be due hereunder, the Company, at the request of the Insured, will submit to the jurisdiction of a court of competent jurisdiction within the United States. Nothing in this condition constitutes or should be understood to constitute a waiver of the Company's rights to commence an action in any court of competent jurisdiction in the United States, to remove an action to a United States District Court, or to seek a transfer of a case to another court as permitted by the laws of the United States or of any state in the United States. It is further agreed that service of process in such suit may be made upon Counsel, Legal Department, American International Specialty Lines Insurance Company, 70 Pine Street, New York, NY 10270, or his or her representative, and that in any suit instituted against the Company upon this contract, the Company will abide by the final decision of such court or of any appellate court in the event of any appeal.

Further, pursuant to any statute of any state, territory, or district of the United States which makes provision therefor, the Company hereby designates the Superintendent, Commissioner, Director of Insurance, or other officer specified for that purpose in the statute, or his or her successor or successors in office as its true and lawful attorney upon whom may be served any lawful process in any action, suit or proceeding instituted by

or on behalf of the Insured or any beneficiary hereunder arising out of this contract of insurance, and hereby designates the above named Counsel as the person to whom the said officer is authorized to mail such process or a true copy thereof.

- O. **Financial Assurance - Coverage I** of this Policy shall not be utilized to evidence financial responsibility of any Insured under any federal, state, provincial or local law.
- P. **Resumption of Business - Under Coverage J**, the Insured shall, as soon as practicable, resume normal operation of the business and dispense with Extra Expense.
- Q. **Reduction of Loss - Under Coverage J**, if the Insured could reduce the Actual Loss or loss of Rental Value, or Extra Expense resulting from the interruption of business:
1. by complete or partial resumption of operations; or
 2. by making use of other property at the Insured Property, or elsewhere,
- such reductions shall be taken into account in arriving at Actual Loss or loss of Rental Value or Extra Expense under such Coverage J
- R. **Sale or Transfer of Insured Property - Under Coverages K and L**, in the event the Insured Property is sold, or if ownership or operational control is transferred by the Named Insured prior to the completion of the Clean-Up to which this Policy applies, this Policy shall remain in full force and effect, subject to its terms and conditions, only if:
1. The Company receives written notification at least forty-five (45) days prior to the effective date of such sale or transfer and consents to the sale or transfer, which consent shall not be unreasonably withheld; and
 2. The new owner or operator of the Insured Property fully complies with all of the terms, conditions, duties and obligations of the Named Insured which are set forth in this Policy.

VIII. EXTENDED REPORTING PERIOD FOR CLAIMS - COVERAGES A THROUGH I

The Named Insured shall be entitled to an Automatic Extended Reporting Period, and (with certain exceptions as described in paragraph B. of this Section) be entitled to purchase an Optional Extended Reporting Period Endorsement collectively for Coverages A through I, upon termination of coverage as defined in Paragraph B(3) of this Section. Neither the Automatic nor the Optional Extended Reporting Period shall reinstate or increase any of the limits of liability of this Policy.

A. Automatic Extended Reporting Period

Provided that the Named Insured has not purchased any other insurance to replace this insurance and which applies to a Claim otherwise covered hereunder, the Named Insured shall have the right to the following: a period of sixty (60) days following the effective date of such termination of coverage in which to provide written notice to the Company of Claims first made and reported within the Automatic Extended Reporting Period.

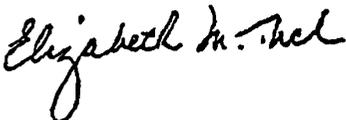
A Claim first made and reported within the Automatic Extended Reporting Period will be deemed to have been made on the last day of the Policy Period, provided that the Claim arises from Pollution Conditions that commenced before the end of the Policy Period and is otherwise covered by this Policy. No part of the Automatic Extended Reporting Period shall apply if the Optional Extended Reporting Period is purchased.

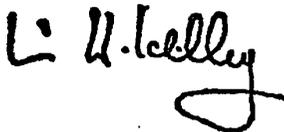
B. Optional Extended Reporting Period

The Named Insured shall be entitled to purchase an Optional Extended Reporting Period upon termination of coverage as defined herein (except in the event of nonpayment of premium), as follows:

- (1) A Claim first made and reported within the Optional Extended Reporting Period, if purchased in accordance with the provisions contained in Paragraph (2) below, will be deemed to have been made on the last day of the Policy Period, provided that the Claim arises from Pollution Conditions that commenced before the end of the Policy Period and is otherwise covered by this Policy
- (2) The Company shall issue an endorsement providing an Optional Extended Reporting Period of up to forty (40) months from termination of coverage hereunder for all Insured Properties and Non-Owned Locations, if applicable, or any specific Insured Property or Non-Owned Location, provided that the Named Insured:
 - a. makes a written request for such endorsement which the Company receives within thirty (30) days after termination of coverage as defined herein; and
 - b. pays the additional premium when due. If that additional premium is paid when due, the Extended Reporting Period may not be canceled, provided that all other terms and conditions of the Policy are met.
- (3) Termination of coverage occurs at the time of cancellation or nonrenewal of this Policy by the Named Insured or by the Company, or at the time of the Company's deletion of a location which previously was an Insured Property or Non-Owned Location.
- (4) The Optional Extended Reporting Period is available to the Named Insured for not more than 200% of the full Policy premium stated in the Declarations.

IN WITNESS WHEREOF, the Company has caused this Policy to be signed by its president and secretary and signed on the Declarations page by a duly authorized representative or countersigned in states where applicable.


Elizabeth M Tuck, Secretary


Kevin Kelley, President

4. **SECTION VI – DEFINITIONS:**

- A. Paragraph F., Clean-up Costs add to the second line of paragraph (1) after the words “with the Company’s written consent, such consent not being unreasonably withheld or delayed,
- B. Paragraph N, Insured Contract, deleted and replace with definition of “insured contract” as used under a standard Commercial General Liability Policy (as attached).

5. **SECTION VII – CONDITIONS:**

- A. Paragraph A, Assignment, add the following:

Such written consent shall not be unreasonably withheld or delayed.

- B. Paragraph B, Subrogation, change the second sentence to read:

The Insured shall do nothing after a claim to prejudice the Company’s rights under this paragraph.

- C. Paragraph I, Other Insurance, deleted and replace with the following:

Subject to Section V., Limits of Coverage; Deductible, this insurance shall be in excess of any other valid and collectible insurance available to the Insured whether such other insurance is stated to be primary, pro rata, contributory, excess, contingent or otherwise, unless such other insurance is written only as specific excess insurance over the limits of liability provided by this policy.

REASON:

Coverage afforded by this policy is to be excess and DIC to other pollution coverage granted under ATK’s traditional Property and Casualty Risk Management and Insurance Program.

- D. Paragraph J, Right of Access and Inspection, deleted and replaced with the following

Any of the Company’s authorized representatives shall have the right and opportunity but not the obligation when the Company so desires, but after coordinating with the central point contact of the Named Insured, to interview persons employed by the Insured and to inspect at any reasonable time, during the Policy Period or thereafter, the Insured Property and all improvements, structures, products, way, works, machinery and appliances thereon; but neither the Company nor its representatives shall assume any responsibility or duty to the Insured or to any other party, person or entity, by reason of such right or inspection. Neither the Company’s right to make inspections, sample and monitor, nor the actual undertaking thereof nor any report thereon shall constitute an undertaking on behalf of the Insured or others, to determine or warrant that property or operations are safe, healthful or conform to acceptable engineering practices or are in compliance with any law, rule or regulation. The Named Insured agrees to provide appropriate personnel to assist the Company’s representatives during any inspection.

E Paragraph K, Access to Information, delete and replace with the following:

The Named Insured agrees to provide to the Company any material information developed or discovered by the Insured concerning Clean-up Cost for Pollution Conditions covered under this policy and after coordinating with the central point contact of the Named Insured free access to interview any Insured and review any relevant documents of the Insured.

Reason:

Needed to track with change made by Endorsement #8 of the policy.

6. **ENDORSEMENT:**

A. Endorsement #15, deleted and replace with the following:

Under Coverage Sections K and L, it is hereby agreed that coverage shall apply for Loss resulting from the installation, operation and maintenance of up to and including 25 well systems at Site I, (location # 65 of Endorsement #1).

C. Endorsement #19, definition of Named Insured, change last lines to read:

did or does have 50% or more ownership interest.

D Endorsement #20, Schedule of Non-owned Location, I believe that this endorsement should be a replacement of endorsement # 17,

N. **Insured Contract means:**

- 1 A contract for a lease of premises. However, that portion of the contract for a lease of premises that indemnifies any person or organization for damage by fire to premises while rented to you or temporarily occupied by you with permission of the owner is not an "insured contract";
2. A sidetrack agreement;
3. Any easement or license agreement, except in connection with construction or demolition operations on or within 50 feet of a railroad;
4. An obligation, as required by ordinance, to indemnify a municipality, except in connection with work for a municipality;
- 5 An elevator maintenance agreement;
6. That part of any other contract or agreement pertaining to your business (including an indemnification of a municipality in connection with work performed for a municipality) under which you assume the tort liability of another party to pay for "bodily injury" or "property damage" to a third person or organization. Tort liability means a liability that would be imposed by law in the absence of any contract or agreement.

Paragraph 6 does not include that part of any contract or agreement:

- (1) That indemnifies a railroad for "bodily injury" or "property damage" arising out of construction or demolition operations, within 50 feet of any railroad property and affecting

any railroad bridge or trestle, tracks, road-beds, tunnel, underpass, or crossing;

(2) That indemnifies an architect, engineer or surveyor for injury or damage arising out of:

(a) Preparing, approving or failing to prepare or approve maps, shop drawings, opinions, reports, surveys, field orders, change orders, or drawings and specifications; or

(b) Giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage; or

(3) Under which the insured, if an architect, engineer or surveyor, assumes liability for an injury or damage arising out of the insured's rendering or failure to render professional services, including those listed in (2) above and supervisory, inspection, architectural or engineering activities.

Paul Westman, CPCU,
Assistant Vice President

Marsh USA Inc
333 South Seventh Street, Suite 1600
Minneapolis, MN 55402-2400
612 692 7684 Fax: 612 692 7936
Paul S Westman@marshmc.com

MARSH

January 10, 2001

Denise Heltemes
Director-Risk Management
Alliant Techsystems Inc
MN11-2153
600 Second Street NE
Hopkins, MN 55343-8384

Subject: PLL-Confirmation Change Summary

Dear Denise:

Find attached a copy of Bruce Johnson's letter of November 15, 2000 to Sean Kenny outlining the requested changes to binder and the PLL policy. Also find an attachment outlining addition requested changes after the issuance of the policy. For easy reference, I have modified Bruce's letter and numbered each request for modification. The following is AIG's response to each requested change:

1. Agreed to change.
2. Agreed to change.
3. Agreed to change. However, only "Scope of Work" will be referenced. The reason "remedial action" or "equivalent documentation" was used previously was that there was not a final scope of work.
4. Agreed to remove for coverage "K" but not for "L", AIG states that they did not agree to remove this language for coverage "L".
5. Agreed to change.
6. Will not change, AIG took this wording straight from the "Scope of Work" which they feel is sufficient.
7. Agreed to address corrections but will not add the additional addresses to endorsement #1.
8. Agreed to change.
9. Agreed to change.
10. Agreed to change.
11. Agreed to change.
12. Will not change, as explained in #3, "Scope of Work" replaces "remedial action" or "equivalent documentation".

*Need to
work on
still*

Subsequent requested changes after the issuance of the policy:

1. Will not do, AIG is not willing to wait 90 days to be advised of a new condition even though ATK is providing quarterly progress reports
- 2A. Will not change their reasoning is that endorsement #12 will override exclusion contained in the policy.
- 2B. Will not change
3. Will not change.
- 4A. Agreed to change.
- 4B. Will not change
- 5A. Will not change

An **MMC** Company

Page 2
January 10, 2001
Denise Heltemes

- 5B Will not change.
- 5C. Agreed to change.
- 5D. Will not change.
- 5E. Will not change.
- 6. Will not change all of #6.

As you can tell, AIG is willing to accommodate most of the requested modifications they perceived they agreed upon prior to the issuance of the policy. However, they are unwilling to change the policy in any way subsequent to the issuance except the two minor changes outlined above. We have requested a dialogue with Sean Kenny to discuss further the requested changes but he has made it clear that AIG will not make any further changes to the binder or the policy. Should you have any questions, do not hesitate to call Bruce Johnson or myself.

Sincerely

Paul Westman, CPCU, AIC
Client Advisor
Risk Management Casualty

1/26/01 - Sean K
commitment
- Policy endorsement
- Revised confirm letter
- locations

Mr Bruce D Johnson, CPCU
Marsh
333 South 7th Street, Suite 1600
Minneapolis MN 55402-2400
bruce.johnson@marshmc.com

Marsh USA Inc.

January 16, 2001

Mr. Sean P. Kenny
Regional Manager
AIG Environmental
500 West Madison Street, 10th Floor
Chicago, IL 60661-2511

Re: Alliant Techsystems Inc
Policy No. 476-31-00

Dear Sean:

Now that we have had a chance to go through the issued Alliant Techsystems (ATK) 10 year EIL policy and I have had a chance to recover from my temporary "leave of absence" We wanted to get back to you in regards to a few clarifications and issues on the ATK program. As you well know we have all been through a rather long and arduous path to this point and we just want to make sure we are all on the same page on the contract. Before I get into that, I wanted to confirm that the quarterly claim meeting was held yesterday at ATK. I believe that Nancy Bond and Chip Johnson received both a clear understanding on the current plan on each of the projects. In addition we confirmed the "initial" project costs and reinforced their understanding of the financial documentation that has been and will be provided to AIG during the term of the policy

I am going to break down the issues in regards to the program into three parts so it will be easier for all of us to keep these matters straight. In order to walk through these issues in a chronological manner in order to keep this in perspective I will begin with some clarifications in regards to the "final" confirmation letter and how the policy was issued. After that I will lay out some specific "minor" amendments to the policy form that we believe were how we all agreed the form would be issued. The last portion of issues to be addressed relate to some changes to the form, which we did not discuss in detail during our many discussions, but would like you to consider now. We believe these will help to make the contract tighter over the long haul and serve us both well. This is done from the knowledge that it is very likely that none of us will be in the same position in 10 years that we are now and these changes would help those that follow

Confirmation Letter Comments

The final confirmation letter was first sent on May 4, 2000 and the signed version was finally faxed to Marsh on May 24th. During our set-up meeting on June 29th and a subsequent e-mail and conference call on July 28th there were a few clarifications that we had discussed that we want to memorialize. Some of these are incorporated into the issued contract and others are not at this time.

- 1 In regards to TCAAP (Site I) under Coverages K&L you had agreed to amend the description from "excluding remediation" to "excluding the soil excavation" and in order to have continuity between the supporting ATK documentation we would want the policy to read "final remediation of soils under NB502 building floor after demolition by the army"

.....

Marsh an MMC Company

2. Number 8 under the *Modifications to the AISLIC* policy form in regards to the Y2K exclusion was to be deleted in its entirety
3. Under point 14 of *Modifications concerning Coverage Sections K and L* we had agreed that since there were not approved Remedial Action Plans in place for each of the projects that a Scope of Work would be the equivalent document at this time. Thus should we not amend the intent of the letter as well as the contract to read "solely with respect to coverage K&L, it is agreed that coverage will only apply for costs in accordance with Remedial Action Plans, Scopes of Work, Consent Order or equivalent documents."
4. You had verbally agreed to take out the "insured incurs and pays the Loss prior to the Termination Date" language under K&L on the confirmation letter and in the policy.
5. Under the *following will be completed as a condition of coverage* section of the letter we had clarified that AIG would have the right to "inspect" rather than "engineer" the Insured Properties at its own expense. The use of inspect is included in the policy in some parts, but not consistently throughout so we will point out those inconsistencies.

Policy Changes/Clarifications

These are simply amendments to the contract to match up with the confirmation letter or simple spelling or reference changes.

6. Define Item 5(B) #65 under Endorsement #1 as: "final remediation of soils under NB502 building floor after demolition by the army" instead of "excluding soil redemption under building 502".
7. Amend Endorsement #1 the property list to include these corrections for specific locations:

Add: - P.O. Box 2466, Chino, CA 91708 (is this possible or not because of P.O. ?)
Titan III Warehouse, Cape Canaveral, FL 32920
Weinheimer Ranch, San Antonio, TX 78238
79 Smokebox Circle, Stewartstown, PA 17363

Amend/add to address: Location 4: Building 398 SVAFB
Location 7: 1051 East Bella Vista Avenue
Location 13: Building 6005-ESB
Location 30: 15000 Hwy 115, Little Falls, MN 53645
Location 44: 610 Spatz Road and a 78861 zipcode
Location 45: San Antonio, TX 78238
Location 49: 8400 West 5000 South
Location 50: zipcode 84044
Location 52: drop the P.O. Box and add Building A-16
Location 56: Route 114
Location 61: 340 North Franklin
8. Endorsement #13 should correct the spelling of "responsinble" to "responsible" and "Section IV" should read "Section VI".
9. There does not appear to be a need for Endorsement #17 as you have already identified the Non-owned locations in Endorsement #20.

January 16, 2001

Page 3

10. You had requested and we agreed that access to ATK site personnel should be coordinated through one individual (Mike Robinson – Environmental/Safety Manager). Thus we would like to have Page 7, Section III, Rights of Company . .(B)(b) changed to “Free access to interview any agent . . .” to “ after coordinating with ATK’s Central Point Contact, interview any agent...”.
11. As agreed in the Set Up meeting Endorsement #14 was to be removed
12. Change Endorsement # 8 to read “Solely with respect to coverage K&L, it is agreed that coverage will only apply for costs in accordance with Remedial Action Plans, Scopes of Work, Consent Orders or equivalent documents.”

Possible Amendments to Contract

While going through the issued policy there were a number of sections which we feel could be amended to help clarify the intent of coverage. In addition it would help to coordinate with coverage that is already provided under the ATK General Liability and umbrella program. We have attached this as a separate document to this letter as we understand that many of these were not fully discussed prior to the binding of this contract, but here is an abbreviated list of these issues.

Bruce D. Johnson, CPCU

**Vice President
612/692-7562**

Cc: Denise Heltemes, Kevin Krueger, Caren Fitzgerald – ATK

Roger Stech, Joe Katlack, Doug Kennedy, Paul Westman, Michael McGinn, Judi Martinez.

AIG ENVIRONMENTAL PIER II PROGRAM

Insured: Alliant Techsystems
Policy #: 4763130

Dear INSURED,

Congratulations for choosing AIG Environmental® as your insurance provider! Among other things, your decision allows you access to the Pollution Incident and Environmental Response (PIER II) Program. This program is designed to assist you with your environmental response to catastrophic events or releases at your facility or facilities.

Enclosed you will find:
Question and Answers regarding the PIER II Program
PIER II Stickers to be placed in prominent locations around your facility
PIER II Rolodex cards for convenient access to the PIER number
PIER II Registration Form

Please complete the enclosed registration form to allow us to have the correct contacts for providing environmental management services if an environmental emergency should occur at your facility or facilities. A postage paid envelope is enclosed for your convenience.

Please place the enclosed stickers around your facility to ensure that you and your employees have the PIER Program toll-free telephone number (1-877 PIER NOW) in case of an emergency. You may follow the guidelines below to determine when to call for PIER II program services.

Call PIER II when:

- ◆ A significant amount of hazardous materials is released onto the ground, soil, into the storm drain, or sewer.
- ◆ Abnormal amounts of hazardous vapors are detected

Do not Call PIER II for:

- ◆ Regulatory inspections
- ◆ Purposes of satisfying claim-reporting requirements.

Enrolling in this service allows us to provide you with one number to call for assistance with your emergency response when it really matters; potentially reducing insurance claims, remediation costs, and environmental contamination.

If you have any questions about the application or general questions about the PIER II Program please call Darryl Snow at (714) 435-6654.

Thank you,



Darryl Snow
PIER Program Manager
AIG Consultants-Environmental Management Division
3090 South Bristol St., Suite 600
Costa Mesa, CA 92626

SCOPES OF WORK:

**Alliant Techsystems (ATK) Sites As Referenced in Endorsement #8 of
AIG Clean-Up Cost Cap (CCC) Policy No. 476-31-30
Prepared by Dava Gosen, Alliant Techsystems Inc.
on October 24, 2000**

The information contained herein is reflective of the scope of these projects as of March 31, 2000:

Twin Cities Army Ammunition Plant (TCAAP), Site I, New Brighton, MN:

The Record of Decision for Operable Unit 2 dated October 1997 for the New Brighton/Arden Hills Superfund Site specifies the requirements and clean-up levels to be achieved by the final remedy for Site I (Building 502). The remedy description includes pumping contaminated ground water from an existing monitoring well with subsequent discharge to the sanitary sewer (Metropolitan Waste Control Commission) combined with additional pre-design investigation work to further define the source areas which exist under Building 502. In combination with the pre-design investigation work, a pilot study to determine the efficacy of vapor extraction/dual phase extraction on source materials was performed. *This scope of work does not include excavation of impacted soil beneath Building 502 and includes a 25 well vapor extraction system only*

TCAAP, Site K, New Brighton, MN:

The Record of Decision for Operable Unit 2 dated October 1997 for the New Brighton/Arden Hills Superfund Site specifies the requirements and clean-up levels to be achieved by the final remedy for Site K (Building 103). The remedy description includes plume containment with the existing remedial system, monitoring the upper portion of the lower aquifer immediately down gradient from the extraction system and conducting pre-design investigation work to further define the source area which exist under Building 103. In combination with the pre-design investigation work, a pilot study to determine the efficacy of enhanced in-situ degradation of chlorinated hydrocarbons is being conducted.

TCAAP, Plume Groundwater Recovery System (PGRS, Operable Unit 3), New Brighton, MN:

The Record of Decision for Operable Unit 3 dated September 1992 of the New Brighton/Arden Hills Superfund Site specifies the requirements and clean-up levels to be achieved by the remedy for this site. The remedy description includes hydraulically containing the leading edge of the South Plume, treating the contaminated water with activated carbon for distribution in the City of New Brighton public water supply system.

TCAAP Building 502 Depleted Uranium (DU), New Brighton, MN:

The Nuclear Regulatory Commission (NRC) permit for historic manufacturing operations specifies the clean-up requirements for those portions of Building 502 subject to the permit. A Decommissioning Plan, approved by the NRC (GTS Duratek, August 1998) specifies the necessary activities to be conducted to terminate the permit. This generally includes demolition and landfilling of building materials.

Alliant Techsystems Proving Grounds (ATPG), Elk River, MN:

The Nuclear Regulatory Commission (NRC) License SUB-971 (last modified August 1999) included historic manufacturing and testing operations and provided the clean-up requirements for those portions of the indoor and outdoor firing ranges affected by DU contamination. The appropriate clean-up and survey activities have been conducted in accordance with NRC requirements and the license has been amended to allow only assembly and storage but has been closed-out with respect to range testing at ATPG.

Rockport Road Facility, Janesville, WI:

The Wisconsin Department of Natural Resources (DNR) has required that chlorinated hydrocarbon contamination in soil and ground water be remediated. Specific activities conducted are defined in the Remedial Action Design Report, Rockport Road Facility (ERM 1997) and have been reported to the DNR annually in Operation Monitoring and Maintenance (OMM) Reports (ERM 1997, 1998, 1999). Remedial activities consisted of aquifer sparging and soil vapor extraction. In the 1999 OMM report, data was presented to request approval to shut down the remediation system.

Trio Solvents, New Brighton, MN:

The Minnesota Pollution Control Agency (MPCA) Record of Decision dated April, 1993 specifies the response action objectives and clean-up levels to be met. The MPCA Decision Document identifies extraction of ground water contaminated with chlorinated hydrocarbons with discharge to the sanitary sewer (Metropolitan Waste Control Commission) as an appropriate remedy. In 1999 MPCA approved a natural attenuation remedy and allowed the ground water extraction to cease. Natural attenuation monitoring is currently being conducted.

Littleton, CO:

The Colorado Department of Public Health and Environment (DPHE) and ATK were in negotiations on the terms of a consent order from approximately 1996 to 1999. In 1999, the U.S. EPA determined the state's program to be inadequate and became the lead regulatory agency. The EPA is reviewing the status of the site with the expectation a consent order will be negotiated. Ground water and soil vapor is being extracted in the source area, with natural attenuation monitoring being conducted in the areas of the plume that exhibited TCE concentrations of less than 1 milligram per liter (mg/L).

Annapolis, MD:

The Maryland Department of Environment (MDE) Consent Order dated May, 1995 specifies the requirements and clean-up levels to be achieved by the final remedy. The remedy description includes extracting chlorinated hydrocarbon contaminated ground water, treating contaminants with hydrogen peroxide/ultraviolet light (UV) and discharging to surface water via NPDES requirements. Results of pilot testing from a MDE request to investigate dense non-aqueous phase liquid (DNAPL) sources indicated that if DNAPLs exist it is as residual ganglia below the water table making achievement of Consent Order specific cleanup criteria impracticable. An Endangerment Assessment has been submitted to MDE evaluating the risks should the system be shut down.

**Facsimile
Transmittal
Sheet**

Marsh USA Inc.
333 South Seventh Street, Suite 1600
Minneapolis, MN 55402-2400
612 692 7684 Fax: 612 692 7936

MARSH
An MMC Company

Date: January 29, 2001 **Pages, with cover:** 11
To: Kevin Krueger **Fax:** 952 931 5784
Company: ATK
From: Paul Westman, CPCU, AIC
Subject: Endorsements to the PLL/Cost Cap Policy

Kevin,

This follows our telephone conversation of earlier today. Find attached the endorsements AIG has sent over addressing the agreed upon changes AIG had promised to do. As you will see, there are two missing endorsements, one dealing with the other insurance clause and the other adding the phrase "such consent not being unreasonably withheld or delayed" on to definition "F". We have requested these additional endorsements from AIG. Once all of the hard copies are received, we will deliver the originals to you. Should you have any questions, please call me.

The information contained in this facsimile message is confidential, may be privileged, and is intended for the use of the individual or entity named above. If you, the reader of this message, are not the intended recipient, the agent, or employee responsible for delivering this transmission to the intended recipient, you are expressly prohibited from copying, disseminating, distributing, or in any other way using any of the information contained in this facsimile message.

01/29/01 13:29 FAX 612 892 7936
JAN 26 2001 3:51 PM FR RSH INC
JAN 26 '01 15:46 FR RIG

MARSH USA INC.
312 627 694 TO 916126927936
312 258 0313 TO 913126276339 P.01/10

002/011
P.01



AIG Environmental
A Division of American International Companies®

Chicago Regional Office
500 West Madison Street, Suite 1000
Chicago, IL 60661-2511

FACSIMILE TRANSMITTAL SHEET

TO: Judi Martinez	FROM: Dave Lau
COMPANY: Marsh USA	DATE: 01/26/01
FAX NUMBER: (312) 627-6339	TOTAL NO. OF PAGES INCLUDING COVER: 10
PHONE NUMBER:	SENDER'S FAX NUMBER: (312) 258-0313
RE: Alliant Techsystems 4783130	SENDER'S PHONE NUMBER: (312) 930-5415

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

JUDI,

Enclosed please find the endorsements for the above captioned. If you have any further questions please do not hesitate to call me at (312) 930-5415.

Post-it® Fax Note	7671	Date	1/26/01	# of pages	10
To	Bruce Johnson	From	Judi Martinez		
Co./Dept	Marsh, MN	Co.	Marsh CHG		
Phone #		Phone #			
Fax #	612-692-7936	Fax #			



MARSH
GLOBAL BROKING
CHICAGO, ILLINOIS

JAN 26 2001

RECEIVED

Krueger, Kevin

From: Paul S Westman [Paul.S.Westman@marshmc.com]
Sent: Monday, January 29, 2001 1:22 PM
To: Krueger, Kevin
Cc: Nancy A Balfe; Roger Stech
Subject: Final Binder



FinalBinder.doc

Kevin,

Find attached the final binder with the incorporated changes, I will fax you a copy of the endorsements for the policy. As we discussed earlier today, two endorsements are missing, both are dealing with the subsequent changes Sean had agreed to such as the changing the other insurance clause so that this policy would be excess over any other applicable coverage, and add the the phrase "such consent not being unreasonably withheld or delayed" to definitions F. after "written consent". These are changes AIG agreed to make but did not. The rest of the agreed changes have been made. The endorsements that I will be faxing to you are obviously not the originals, once we receive the original hard copies, we will deliver them to you. If you have any questions, please call me.

ENVIRONMENTAL MANAGEMENT
TEN YEAR CASH SUMMARY
COST CAP BASELINE
APRIL 2000

Site	Project	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	ACTUAL	PRESENT VALUE
												ESTIMATED	OF ESTIMATED
												TOTAL	TOTAL
Study and Remediation (S & R)													
TCAAP													
	Site I Superfund	\$300	\$300	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$800	\$736
	Site K Superfund	\$732	\$245	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$977	\$924
	NB502 DU D & D	\$10	\$2,737	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,746	\$2,512
ATPG	Site B and SWMUs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
LITTLETON	Groundwater	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total S&R		\$1,042	\$3,282	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,523	\$4,172
Ongoing Monitoring and Maintenance (OMM)													
TCAAP													
	Site K - 103	\$116	\$116	\$116	\$213	\$113	\$113	\$113	\$30	\$30	\$30	\$989	\$816
	Site I - 502	\$107	\$107	\$107	\$107	\$137	\$137	\$137	\$0	\$0	\$0	\$839	\$698
	PGRS	\$296	\$356	\$296	\$356	\$301	\$356	\$296	\$356	\$296	\$361	\$3,270	\$2,573
TRIO Solvents		\$21	\$31	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$52	\$48
LITTLETON	Groundwater	\$305	\$268	\$250	\$250	\$250	\$250	\$250	\$93	\$93	\$93	\$2,102	\$1,725
PRECISION FUZE	Groundwater	\$125	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225	\$209
ATPG	Groundwater	\$40	\$40	\$40	\$40	\$40	\$40	\$40	\$20	\$20	\$20	\$340	\$275
ATA - ANNAPOLIS		\$307	\$307	\$307	\$307	\$307	\$307	\$307	\$307	\$307	\$307	\$3,070	\$2,421
Total OMM		\$1,317	\$1,275	\$1,166	\$1,273	\$1,148	\$1,203	\$1,143	\$806	\$746	\$811	\$10,887	\$8,765
TOTAL REMEDIATION		\$2,359	\$4,557	\$1,366	\$1,273	\$1,148	\$1,203	\$1,143	\$806	\$746	\$811	\$15,410	\$12,937
RETENTION												\$1,000	
COST CAP ATTACH POINT												\$16,410	

NOTES:

Derived from October 1999 Environmental Cost Report
 Includes future year COM escalation, offset by remediation technology improvement efficiencies
 Assumes Policy inception date 1 April 2000 (AFY01)

Endorsement # 1

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES**

It is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(IES)**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5(a): INSURED PROPERTY(IES) - COVERAGES A-I:

- 1) Suite 202, 7501 S. Memorial Parkway, Huntsville, AL 35802
- 2) Bldgs. 14-AT-16 & 2-AT-10, Highland Industrial Park, Cahoun County, AR 71701
- 3) 4594 S. Palo Verde, Suite 537, Tuscon, AZ 85714
- Launch Site, Vandenburg, CA 93437
- 300 Corporate Pointe, Suite 330, Culver City, CA 90230
- 6) Bldg 181 Col H7, Sunnyvale, CA 94088
- 7) Employee Home, Ridgecrest, CA 93555
- 8) 440 Bernardo Ave. (FW Bell), Mt. View, CA 94043
- 9) 4810 E Dr Creek Road/4880 E. Dry Creek Road, Littleton, CO 80122
- 10) Quillon Bldg., 3521 Silverside Road, Wilmington, DE 19810
- 11) 1313 N. Market Street, Wilmington, DE 19894
- 12) 13133 34th Street North, Clearwater, FL 34618
- 13) NAVSV, Kings Bay, GA 31547
- 14) Iowa Army Ammunition Plant, Burlington, IA 52601
- 15) 2510 West Mt. Pleasant St., Burlington, IA 52601
- 16) 2610 West Mt. Pleasant St., Burlington, IA 52601
- 17) 985 Lincoln Rd., Suite 324, Bettendorf, IA 52722
- 18) Rt. 53 S. & Hoff Road East, Gate 17, Bldg 70-5, Joliet, IL 60434
- 19) 29745 Alliant Drive, GATE 5A, Wilmington, IL 60481
- 20) 35425 West 103rd St., De Soto, KS 66018
- 21) Rte 4, Bldg. 101A, KAAP, Parsons, KS 67357
- 22) 401 Defense Highway, Annapolis, MD 21404
- 23) 7301 Sykesville Road, Skykesville, MD 21784
- 24) Bldg 103 TCAAP, New Brighton, MN 55112
- 25) 600 2nd St. NE., Hopkins, MN 55343
- 26) Bldg 502 TCAAP, New Brighton, MN 55112
- 27) Bldg 576 TCAAP, New Brighton, MN 55112
- 28) 23100 Sugar Bush Rd NW/FMC c/o ATPG, Elk River, MN 55330
- 29) Bldg 104 TCAAP, New Brighton, MN 55112
- 30) Camp Ripley, Fort Ripley, MN 55440
- 31) State Rte 7 at State Rte 78, Independence, MO
- 32) 11 Jackson Road, Totowa, NJ 07512
- 33) 461 Route 46, Fairfield, NJ 07512
- 34) 3430 Sunset Avenue, Wanamassa, NJ 07512

- 35) 11 Taft Avenue, Totowa, NJ 07050
- 36) 100 Sterling Ct., Roxbury, NJ 07856
- 37) Hwy 60 W.; Socorro, NM 87801
- 38) 601 West National Road, Vandalia, OH 45377
- 39) 104 Rock Road, Horsham, PA 19044
- 40) United Defense Bldg 56, 56 California Ave , Chambersburg, PA 17201
- 41) Edgement, SD., Edgemont, SD 57735
- 42) Kilgore Corp., 155 Kilgore Street, Toone, TN 38381
- 43) Kilgore Corp., Keller Road, Toone, TN 38381
- 44) Hondo Airfield/Test Site, Hondo, TX
- 45) 7042 Alamo Downs Pkwy, Suite 400
- 46) X Bacchus Works East, 8400 West 5000 South, Magna, UT 84044
- 47) X Bacchus Works West, Magna, UT 84044
- 48) Freeport Center, Clearfield, UT 84016
- 49) NIROP, Magna, UT 84044
- 50) Goshute Indian Nation (Tekoi Test Range), Tekoi, UT
- 51) 9160 No Hwy 83, Corrine, UT 84037
- 52) P.O Box, 1447 Freeport Center, Clearfield, UT 84016
- 53) 5055 West 4985 South, Kearns, UT 84118
- 54) 4100 South 7900 West, Magna, UT 84044
- 55) 4350 West 2100 South, Salt Lake City, UT 84044
- 56) Joliet addition - Radford Army Ammunition Plant, Radford, VA 24141
- 57) Radford Army Ammunition Plant, Route 114, Radford, VA 24141
- 58) NRE, Radford Army Ammunition Plant, Route 114, Radford, VA 24141
- 59) 1911 Ft Meyer Dr., Ste 600, Arlington, VA 22209
- 60) 4425 Brookfield Corp Dr. #800, Chantilly, VA 22021
- 61) Manufacturing, Janesville, WI 53454
- 62) Alleghany Ballistics Laboratory, State Route 956, Rocket Center, WV 26726
- 63) ABL State Rt.956, Rocket Center, WV 26726
- 64) 751 #1000 County Rd. 989, luka, MS 38852

Item 5(b): INSURED PROPERTY(IES) - COVERAGES K and L:

- 65) Twin Cities Army Ammunition Plant (TCAAP) Site I, New Brighton, MN (excluding soil *excavation* redemption under Building 502) *after demolition by the Army*
- 66) TCAAP Site K, New Brighton, MN
- 67) TCAAP Plume Groundwater Recovery System (PGRS; Operable Unit 3), New Brighton, MN
- 68) TCAAP Building 502 DU, New Brighton, MN
- 69) Alliant Techsystems Proving Grounds (ATPG), Elk River, MN
- 70) Rockport Road Facility, Janesville, WI
- 71) Trio Solvents, New Brighton, MN
- 72) Littleton, CO
- 73) ATA, Annapolis, MD

With respect to these Insured Property(ies), Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
	\$1,000,000	\$25,000,000	\$25,000,000
B	\$1,000,000	\$25,000,000	\$25,000,000
C	\$1,000,000	\$25,000,000	\$25,000,000
D	\$1,000,000	\$25,000,000	\$25,000,000
E	\$1,000,000	\$25,000,000	\$25,000,000
F	\$1,000,000	\$25,000,000	\$25,000,000
G	\$1,000,000	\$25,000,000	\$25,000,000
H	\$1,000,000	\$25,000,000	\$25,000,000
I	\$1,000,000	\$25,000,000	\$25,000,000

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J		

Coverage	Limit of Liability	Self-Insured Retention	Co-Insurance Participation Percentage
K only			
K and L combined	\$10,000,000	\$16,400,000	N/A

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 2

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

UNDERGROUND STORAGE TANK ENDORSEMENT

It is hereby agreed that no coverage is provided for pollution conditions resulting from any identified underground storage tank unless satisfactory integrity test results (Company approved method) are received and approved by and are on file with the underwriter. Coverage is available only for those underground storage tanks specifically approved in writing by the underwriter and scheduled in the Policy by endorsement.

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 3

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a Part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

*Have MIA
d.*

CANCELLATION

It is hereby agreed that Section VII., **CONDITIONS**, Paragraph H. **Cancellation**, is deleted in its entirety and replaced by the following:

H. **Cancellation** - This Policy may be cancelled by the **Named Insured** by surrender thereof to the Company or any of its authorized agents or by mailing to the Company written notice stating when thereafter the cancellation shall be effective. This Policy may be cancelled by the Company only for the reasons stated below by mailing to the **Named Insured** at the address shown in the Policy, written notice stating when not less than 60 days (10 days for nonpayment of premium) thereafter such cancellation shall be effective. Proof of mailing of such notice shall be sufficient proof of notice.

Soften

- 1) Material misrepresentation by the Insured;
- 2) The Insured's failure to comply with the terms, conditions or contractual obligations under this policy, including failure to pay any Deductible when due;
- 3) Failure to pay any premium when due;
- 4) A change in operations at an Insured Property during the Policy Period which materially increases a risk covered under this Policy.

*Signatures
- have, need to discuss & negotiate*

ns - significantly different

The time of surrender or the effective date and hour of cancellation stated in the notice shall become the end of the **Policy Period**. Delivery of such written notice either by the **Named Insured** or by the Company shall be equivalent to mailing. If the **Named Insured** cancels, minimum premium earned at inception is ~~100%~~ of the ~~policy~~ period premium. If the Company cancels, earned premium shall be computed pro rata. Premium adjustment may be either at the time cancellation is effected or as soon as practicable after cancellation becomes effective, but payment or tender of unearned premium is not a condition of cancellation.

All other terms, conditions and exclusions remain the same.

AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 4

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

JOINT DEFENSE ENDORSEMENT

It is hereby agreed that, subject to all of the terms and conditions of the Policy, the Company has the right and duty to defend any **Claim** covered under this Policy made against any **Insured**. All such **Claims** shall be defended on a "joint defense" basis, subject to applicable law, whereby:

- (a) The Company shall appoint one counsel to defend all **Insureds** who are or may be involved with respect to any such **Claim**; and
- (b) All **Insureds** shall have the obligation to cooperate with respect to the investigation and joint defense of any such **Claim(s)**.

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

74672 (12/99)

Endorsement # 5

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

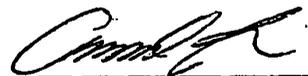
Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

ENDORSEMENT DELETING DISCOVERY COVERAGE FROM COVERAGE A - ON-SITE CLEAN-UP OF PRE-EXISTING CONDITIONS

It is hereby agreed that Section I. **INSURING AGREEMENTS, 1. COVERAGES, COVERAGE A - ON-SITE CLEAN-UP OF PRE-EXISTING CONDITIONS**, Paragraph 1. and sub-paragraphs 1.(a) and 1.(b) are deleted in their entirety

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

73396 (7/99)

Endorsement # 6

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

It is hereby agreed that Section IV., EXCLUSIONS shall be amended to include the following:

why?

- 4. Coverages A through E and G through I Exclusions ~~(It is further agreed that this exclusion shall not apply to Coverage Section F)~~

This policy does not apply to Claims or Loss:

- A. Arising from **Pollution Conditions** known to the **Named Insured** and disclosed to the company in the application and information attached thereto, including any **Loss** or **Claim** arising from recognized areas of concern at any **Insured Property** noted in any **Environmental Site Assessment (ESA)** including any Phase I or Phase II ESA report, or during the course of telephone interviews. Coverage may be provided or enhanced in the future for remediated areas or conditions once the **Insured Property** has received a **No Further Action** letter from the regulatory agency administering the cleanup. However, this exclusion does not apply to known **Pollution Conditions** that exist below action levels where cleanup has not been required by the administrative agency prior to the inception date of this policy.
- B. Arising from contaminants addressed or discovered during the execution of a Remedial Action Plan

All other terms, conditions and exclusions remain the same.

AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 7

is Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

RENEWAL ENDORSEMENT

It is hereby agreed that the following condition is added to Section VII., **CONDITIONS** of the Policy:

The Company agrees to renew this Policy upon its expiration date, provided that the Company continues to offer insurance substantially similar to the insurance provided by this Policy, and the Insured has complied, at the time of the expiration of this Policy, with all of the following conditions:

1. In the sole judgment of the Company, all terms and conditions of the Policy have been completely satisfied, including payment of premium;
2. The **Named Insured** provides the Company with a properly completed and signed renewal application not more than 30 days and not less than 10 days prior to the expiration date of this Policy;
3. Use of the **Insured Property**, in the sole judgment of the Company, has not materially changed from the use described in the application which forms a part of this Policy; and
4. At the time of Policy expiration, Incurred Loss shall not exceed 50% of the Policy premium stated in the Declarations. Incurred Loss means paid losses and outstanding loss reserves for **Clean-Up Costs** and **Loss** covered under this Policy.
5. Premium for this renewal endorsement shall be no more than 150% of the policy premium.

The Company reserves the right to modify the terms and conditions of any subsequently issued Policy. The Renewal Premium shall be in accordance with the Company's rates in effect at the time of renewal. The **Insured** agrees that the Company in taking such action shall not be considered in violation of the agreement to renew this Policy pursuant to the conditions set forth above.

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 8

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American international Specialty Lines Insurance Company

Solely with respects to Coverages K & L, it is agreed that coverage will only apply for costs in accordance with the Scope of Work, which is attached to and made part of this policy.

adder

It is hereby agreed that Section III., Rights of the Company and Duties of the Insured in the Event of pollution Conditions and in Connection with Remedial Activities, B. Remedial Activities - Coverages K and L, 3(a), is deleted in its entirety and replaced with the following:

- (a) All material information developed or discovered by the Insured concerning Clean-Up.

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 9

is Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

It is hereby agreed that Section I., INSURING AGREEMENTS, 1 COVERAGES, COVERAGE K., Part (b) 1., is deleted in its entirety.

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 10

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

It is hereby agreed that Section I., INSURING AGREEMENTS, 1. COVERAGES, COVERAGE L., Part 1., is deleted in its entirety.

All other terms, conditions, and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 11

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

It is hereby agreed that Section VI., DEFINITIONS, Paragraph E., Clean-Up, is deleted and replaced with:

- E. **Clean-Up**, as used in Coverages K and L, means the removal, disposal, treatment (including in-situ treatment) or neutralization of **Pollutants**, including monitoring costs which are required under the **Remedial Action Plan**, provided however the costs are incurred prior to the expiration date of the policy.

All other terms, conditions, and exclusions remain the same.



AUTHORIZED REPRESENTATIVE

or countersignature (where required by law)

Endorsement # 12

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a Part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

It is hereby agreed that new owners of Insured Properties sold during the policy period shall automatically become Additional Named Insureds under this policy (sharing limits with the first Named Insured).. However, coverage for a sold Insured Property shall be limited to Pollution Conditions that existed prior to its date of sale to a new owner, and a Joint Defense Endorsement shall apply.

All other terms, conditions, and exclusions shall remain the same.



**AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)**

Endorsement # 13

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

It is hereby agreed that Section IV., DEFINITIONS, BB., Responsible Insured, is deleted and replaced with:

BB. ^{typo} Responsible Insured means any employee of the **Named Insured** responsible for environmental affairs, control or compliance or officer director or partner of the **Named Insured**.

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 14

Take out

This Endorsement, effective 12:01 a.m., June 1, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

It is hereby agreed that Section I., INSURING AGREEMENTS, Coverage L., CLEAN-UP COST CAP - UNKNOWN POLLUTANTS, is amended by the addition of the following:

4. ^{sl} The Insured incurs and pays the Loss prior to the Termination Date.

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 15

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

Under Coverage Sections K and L, it is hereby agreed that no coverage shall apply for Loss resulting from the installation, operation and maintenance of any more than 25 wells at Site 1;

systems

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 16

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Aliant Techsystems

By American International Specialty Lines Insurance Company

CHANGE OF ADDRESS OF INSURANCE COMPANY

NOTICE: This insurance company is not licensed by the state of New York

In consideration of the premium charged it is hereby understood and agreed that:

- 1) The address of American International Specialty Lines Insurance Company is amended to 70 Pine Street, New York, NY 10270.
- 2) Any provision in this policy designating any other address for purposes of sending notice of claim is amended to: Claim Department, American International Specialty Lines Insurance Company, 70 Pine Street, New York, NY 10270.
- 3) Any clause in this policy providing substantially as follows is amended to read as follows:

SERVICE OF SUIT – Subject to any clause in this policy requiring arbitration or other alternative dispute resolution, in the event of failure of American International Specialty Lines Insurance Company (herein called "AISLIC") to pay any amount claimed to be due hereunder, AISLIC, at the request of the Insured, will submit to the jurisdiction of a court of competent jurisdiction within the United States. Nothing in this condition constitutes or should be understood to constitute a waiver of AISLIC's rights to commence an action in any court of competent jurisdiction in the United States, to remove an action to a United States District Court, or to seek a transfer of a case to another court as permitted by the laws of the United States or of any state in the United States. It is further agreed that service of process in such suit may be made upon General Counsel, Legal Department, American International Specialty Lines Insurance Company, 70 Pine Street, New York, NY 10270, or his representative, and that in any suit instituted against AISLIC upon this contract, AISLIC will abide by the final decision of such court or of any appellate court in the event of any appeal.

Further, pursuant to any statute of any state, territory, or district of the United States which makes provision therefor, AISLIC hereby designates the Superintendent, Commissioner, or Director of Insurance, other officer specified for that purpose in the statute, or his or her successor or successors in office as its true and lawful attorney upon whom may be served any lawful process in any action, suit, or proceeding instituted by or on behalf of the Insured or any beneficiary hereunder arising out of this contract of insurance, and hereby designates the above named General Counsel as the person to whom the said officer is authorized to mail such process or a true copy thereof.

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 17

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

**SCHEDULE OF NON-OWNED LOCATIONS, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that the following location(s) is (are) covered as a Non-Owned Location, subject to all of the terms and conditions of the Policy, and the corresponding Coverages, deductibles, and limits of liability shown for each such Non-Owned Location are included in Item 3 of the Declarations:

NON-OWNED LOCATION: It is hereby agreed that up to twenty (20) Non-Owned Disposal Sites will be added for no additional premium. These facilities are subject to satisfactory engineering review. The facilities must have been licensed and permitted to accept the Named Insured's waste at the time it was accepted. No facility that has been listed as a Superfund site and / or is currently undergoing a cleanup will be added. A Retroactive Date of Policy Inception shall apply to coverage parts G and H for all Insured Properties.

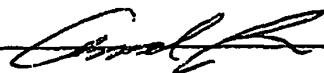
With respect to the above-listed Non-Owned Location(s), Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
G	\$ 1,000,000	\$25,000,000	\$25,000,000
H	\$ 1,000,000	\$25,000,000	\$25,000,000

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 18

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

It is hereby agreed that if during the policy period the regulatory agency which is administering the clean-up at a covered location under Sections K or L, issues a change order subsequently lowering the estimated cost of remediation, the Self Insured Retention will be lowered by the applicable amount as determined by the Company, less a 10% buffer.

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 19

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

BROAD NAMED INSURED ENDORSEMENT

It is hereby agreed that Section VI. DEFINITIONS, paragraph Q. is deleted in its entirety and replaced with the following:

- Q. **Named Insured** means the person or entity named in Item 1 of the Declarations and any and all corporations, partnerships, companies or other entities as have existed at any time, or as now or may hereafter exist during the **Policy Period** and in which the **Named Insured** did or does have more than a 50% ownership interest.

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 20

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

**SCHEDULE OF NON-OWNED LOCATIONS, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that the following location(s) is (are) covered as a **Non-Owned Location**, subject to all of the terms and conditions of the Policy, and the corresponding Coverages, deductibles, and limits of liability shown for each such **Non-Owned Location** are included in Item 3 of the Declarations:

NON-OWNED LOCATION:

- 1) Beaver Oil Company, 6037 Lenzl Avenue, Hodgkins, IL 60525
- 2) Boliver-Hardemann County Landfill, Boliver, TN
- 3) Chem Met Services, Inc., 18550 Allen Road, Brownstown, MI 48192
- 4) Heritage Services, Indianapolis, IA
- 5) City Environmental, Inc., 1923 Frederick Street, Detroit, MI 48211
- 6) East Carbon Development Corp., 111 West Highway 123, East Carbon, UT 84520
- 7) Envirite Corporation, 16435 S. Center, Harvey, IL
- 8) Envirosafe Services, Inc., Grandview, IA
- 9) Forest View Recycling & Disposal Facility, 4800 Kaw Drive, P.O. Box, 11116, Kansas City, KS 66111
- 10) Johnson County Landfill (Deffenbaugh), 17500 Holiday Drive, Shawnee, KS 66203
- 11) Laidlaw (dba Safety Kleen), Colfax, LA
- 12) Michigan Disposal Waste Treatment (formerly Wayne Disposal, Envotech), 44350 N. I-94 Service Drive, Belleville, MI 48111
- 13) Mill Services, Inc., R.D. #1, Box 135A, Yukon, PA 15698
- 14) Onyx (formerly Chem Waste Management Emelle Facility), Alabama Hwy 17, Emelle, AL 35459
- 15) Prairie Bluff Landfill, Houston, TX
- 16) Romic, East Palo Alto, CA
- 17) Safety Kleen (Lone Mountain facility), 5E & 1N (N of Jct 412 & 281), Waynoka, OK 73860-9622
- 18) Safety Kleen (Grassy Mountain facility), Knolls, UT
- 19) Safety Kleen (Pinewood facility), Rt. 1, Box 224, Pinewood, SC 29125
- 20) Safety Kleen-Rosemount, 13425 Courthouse Blvd., Rosemount, MN 55068

With respect to the above-listed Non-Owned Location(s), Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
G	\$1,000,000	\$25,000,000	\$25,000,000
H	\$1,000,000	\$25,000,000	\$25,000,000

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

Endorsement # 21

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

It is hereby agreed that Endorsement #1 is deleted and replaced with the following:

SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES

It is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as INSURED PROPERTY(IES), subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such INSURED PROPERTY are included in Item 3 of the Declarations:

Item 5(a): INSURED PROPERTY(IES) - COVERAGES A-I:

- 1) * Suite 202, 7501 S. Memorial Parkway, Huntsville, AL 35802
- 2) * Bldgs. 14-AT-16 & 2-AT-10, Highland Industrial Park, Cahoun County, AR 71701
- 3) * 4594 S. Palo Verde, Suite 537, Tuscon, AZ 85714
- 4) * Building 398 SVAFB, Vandenburg, CA 93437
- 5) * 300 Corporate Pointe, Suite 330, Culver City, CA 90230
- 6) * Bldg 181 Col H7, Sunnyvale, CA 94088
- 7) * 1051 East Bella Vista Avenue, Ridgecrest, CA 93555
- 8) * 440 Bernardo Ave. (FW Bell), Mt. View, CA 94043
- 9) * 4810 E Dr Creek Road/4880 E. Dry Creek Road, Littleton, CO 80122
- 10) * Quillon Bldg., 3521 Silverside Road, Wilmington, DE 19810
- 11) * 1313 N. Market Street, Wilmington, DE 19894
- 12) * 13133 34th Street North, Clearwater, FL 34618
- 13) * Building 6005 - ESB, NAVSV, Kings Bay, GA 31547
- 14) * Iowa Army Ammunition Plant, Burlington, IA 52601
- 15) * 2510 West Mt. Pleasant St., Burlington, IA 52601
- 16) * 2610 West Mt. Pleasant St., Burlington, IA 52601
- 17) * 985 Lincoln Rd., Suite 324, Bettendorf, IA 52722
- 18) * Rt. 53 S. & Hoff Road East, Gate 17, Bldg 70-5, Joliet, IL 60434
- 19) * 29745 Alliant Drive, GATE 5A, Wilmington, IL 60481
- 20) * 35425 West 103rd St., De Soto, KS 66018
- 21) * Rte 4, Bldg. 101A, KAAP, Parsons, KS 67357
- 22) * 401 Defense Highway., Annapolis, MD 21404
- 23) * 7301 Sykesville Road, Skykesville, MD 21784
- 24) * Bldg 103 TCAAP, New Brighton, MN 55112
- 25) * 600 2nd St. NE., Hopkins, MN 55343
- 26) * Bldg 502 TCAAP, New Brighton, MN 55112
- 27) * Bldg 576 TCAAP, New Brighton, MN 55112
- 28) * 23100 Sugar Bush Rd NW/FMC c/o ATPG, Elk River, MN 55330
- 29) * Bldg 104 TCAAP, New Brighton, MN 55112
- 30) * Camp Ripley, Fort Ripley, MN 55440
- 31) * State Rte 7 at State Rte 78, Independence, MO
- 32) * 11 Jackson Road, Totowa, NJ 07512
- 33) * 461 Route 46, Fairfield, NJ 07512
- 34) * 3430 Sunset Avenue, Wanamassa, NJ 07512

- 35) X11 Taft Avenue, Totowa, NJ 07050
- 36) X100 Sterling Ct., Roxbury, NJ 07856
- 37) XHwy 60 W., Socorro, NM 87801
- 38) X601 West National Road, Vandalia, OH 45377
- 39) X104 Rock Road, Horsham, PA 19044
- 40) X United Defense Bldg 56, 56 California Ave., Chambersburg, PA 17201
- 41) X Edgement, SD., Edgemont, SD 57736
- 42) XKilgore Corp., 155 Kilgore Street, Toone, TN 38381
- 43) XKilgore Corp., Keller Road, Toone, TN 38381
- 44) 610 Spatz Rd., Hondo Airfield/Test Site, Hondo, TX 78861
- 45) 7042 Alamo Downs Pkwy., Suite 400, San Antonio, TX 78238
- 46) XBacchus Works East, 8400 West 5000 South, Magna, UT 84044
- 47) XBacchus Works West, Magna, UT 84044
- 48) XFreeport Center, Clearfield, UT 84016, 614, C14, D14, H5, H6, H 7
- 49) XNIROP, 8400 West 5000 South, Magna, UT 84044
- 50) Goshute Indian Nation (Tekoi Test Range), Tekoi, UT 84044
- 51) X9160 No. Hwy 83, Corrine, UT 84037
- 52) Building A-16, 1447 Freeport Center, Clearfield, UT 84016
- 53) X5055 West 4985 South, Kearns, UT 84118
- 54) X4100 South 7900 West, Magna, UT 84044
- 55) X4350 West 2100 South, Salt Lake City, UT 84044
- 56) Joliet addition - Radford Army Ammunition Plant, Route 114, Radford, VA 24141
- 57) X Radford Army Ammunition Plant, Route 114, Radford, VA 24141
- 58) X NRE, Radford Army Ammunition Plant, Route 114, Radford, VA 24141
- 59) X1911 Ft Meyer Dr., Ste 600, Arlington, VA 22209
- 60) X4425 Brookfield Corp Dr. #800, Chantilly, VA 22021
- 61) XManufacturing, 340 North Franklin, Janesville, WI 53454
- 62) X Alleghany Ballistics Laboratory, State Route 956, Rocket Center, WV 26726
- 63) XABL State Rt. 956, Rocket Center, WV 26726
- 64) X751 #1000 County Rd. 988, Luka, MS 38852
- 65) X Titan III Warehouse, Cape Canaveral, FL 32920
- 66) Weinheimer Ranch, San Antonio, TX 78238
- 67) X 79 Smokebox Circle, Stewartstown, PA 17363

Item 5(b): INSURED PROPERTY(IES) - COVERAGES K and L: *Costcap*

- 68) XTwin Cities Army Ammunition Plant (TCAAP) Site I, New Brighton, MN (excluding any soil excavation associated with Building 502) ✓
- 69) TCAAP Site K, New Brighton, MN ✓
- 70) TCAAP Plume Groundwater Recovery System (PGRS; Operable Unit 3), New Brighton, MN ✓
- 71) TCAAP Building 502 DU, New Brighton, MN ✓
- 72) Alliant Techsystems Proving Grounds (ATPG), Elk River, MN ✓
- 73) XRockport Road Facility, Janesville, WI ✓
- 74) Trio Solvents, New Brighton, MN ✓
- 75) Littleton, CO
- 76) ATA, Annapolis, MD ✓

With respect to these Insured Property(ies), Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below.

01/29/01 13:30 FAX 612 692 7938
 JAN 26 2001 3:52 PM FR MRSH INC

MARSH USA INC

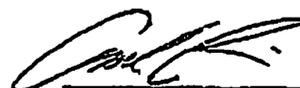
312 627 694 TO 916126927936 @005/011
 312 28 0313 TO 913126276339 P.04

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000	\$25,000,000	\$25,000,000
B	\$1,000,000	\$25,000,000	\$25,000,000
C	\$1,000,000	\$25,000,000	\$25,000,000
D	\$1,000,000	\$25,000,000	\$25,000,000
E	\$1,000,000	\$25,000,000	\$25,000,000
F	\$1,000,000	\$25,000,000	\$25,000,000
G	\$1,000,000	\$25,000,000	\$25,000,000
H	\$1,000,000	\$25,000,000	\$25,000,000
I	\$1,000,000	\$25,000,000	\$25,000,000

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J		

Coverage	Limit of Liability	Self-Insured Retention	Co-Insurance Participation Percentage
K only			
K and L combined	\$10,000,000	\$16,400,000	N/A

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
 or countersignature (where required by law)

01/29/01 13:30 FAX 012 692 7938
JAN 26 2001 3:52 PM FR MARSH INC

MARSH USA INC

312 627 697 TO 916126927936
312 28 6313 913126276339

0008/011

P.05

P.05/10

Endorsement # 22

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

It is hereby agreed that the attached document entitled "Scopes of Work. Alliant Techsystems (ATK) Sites Included in the AIG Clean-Up Cost Cap Policy (CCC), Policy No. 476-31-30" is attached and made part of this policy.

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

01/29/01 13:31 FAX 612 692 7936
JAN 26 2001 3:53 PM FR MARSH INC
JAN 26 '01 15:48 FR 3

MARSH USA INC
312 627 6947 TO 916126927936
312 258 8313 913126276339 P.08/10

009/011
P.08

Endorsement # 23

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

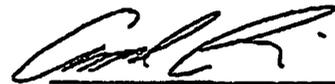
It is hereby agreed that Endorsement #13 is deleted in its entirety and replaced with the following:

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

It is hereby agreed that Section IV., DEFINITIONS, BB., Responsible Insured, is deleted in its entirety and replaced with the following:

BB. Responsible Insured means any employee of the Named Insured responsible for environmental affairs, control or compliance or officer, director or partner of the Named Insured.

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

01/29/01 13:32 FAX 812 892 7936
JAN 26 2001 3:53 PM FR MARSH INC

MARSH USA INC
312 627 6947 TO 916126927936
312 258 8313 913126276339 P.09/10

010/011
P.09

Endorsement # 24

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a Part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

It is hereby agreed that Endorsement #17 is deleted in its entirety.

All other terms, conditions and exclusions remain the same.



**AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)**

Endorsement # 25

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

It is hereby agreed that Section III., RIGHTS OF THE COMPANY AND DUTIES OF THE INSURED IN THE EVENT OF POLLUTION CONDITIONS AND IN CONNECTION WITH REMEDIAL ACTIVITIES, Paragraph B., Remedial Activities - Coverages K and L, Sub-Paragraph 3., Part (b) is deleted in its entirety and replaced with the following:

- (b) After coordination with Alliant Techsystems Central Points Contact, access to interview any agent, servant or employee of the Insured or any contractor or subcontractor involved in the Clean-Up : and

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

02/06/01 10:40 FAX
FEB 05 2001 2:25 PM FR MARSH INC
FEB 05 '01 10:45 FR AIG

MARSH USA INC

312 627 6945 TO 916126927936
312 258 0313 TO 913125276339

002
P.02
P.02/03

Endorsement # 26

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

It is hereby agreed that Section VI., DEFINITIONS, F., Clean-Up Costs, Paragraph (1), is deleted in its entirety and replaced with the following:

- (1) With respect to Coverages A through I, reasonable and necessary costs, charges and expenses, including reasonable and necessary legal expenses incurred with the Company's written consent, such consent not being unreasonably withheld or delayed, incurred in the removal, disposal, treatment (including in-situ treatment), or neutralization of Pollutants:

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

FEB 05 2001 10:33 AM

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02/08/01 10:40 FAX
FEB 05 2001 2:25 PM FR RSH INC
FEB 05 '01 10:40 FR

MARSH USA INC

312 627 6945 0 916126927936
312 258 0313 TO 313126276339

0003

P.03

P.03/03

Endorsement # 27

This Endorsement, effective 12:01 a.m., March 31, 2000

Forms a part of Policy Number PLS/CCC 476 31 30

Issued to Alliant Techsystems

By American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL NAMED INSURED ENDORSEMENT

It is hereby agreed that the following entity is included as an Additional Named Insured. Coverage for such Additional Named Insured applies under this Endorsement:

1. Solely to the Additional Named Insured's liability arising out of the Named Insured's prior ownership, operation, maintenance or use of the Insured Property.

ADDITIONAL NAMED INSURED(S)

CHEMRING GROUP PLC

Coverage shall apply to the following Insured Property only:

- 42) Kilgore Corp., 155 Kilgore St., Toone, TN

It is further agreed that a sub-limit of \$5,000,000 shall apply to the Additional Named Insured's liability arising out of the Named Insured's prior ownership, operation, maintenance or use of the Insured Property.

Coverage for the above referenced Insured Property shall be amended to only apply to Coverage Sections A, C, D & F. Furthermore, a Continuity Date equal to the date of sale shall apply.

All other terms, conditions and exclusions remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

ENDORSEMENT NO. 31

This endorsement, effective 12:01AM, September 31, 2001
Forms a part of Policy No: PLS/CCC 476 31 30
Issued to: Alliant Techsystems
By: American International Specialty Lines Insurance Company

EXCESS INSURANCE ENDORSEMENT

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

It is hereby agreed that Section VII, **CONDITIONS**, Paragraph I, **Other Insurance**, is deleted in its entirety and replaced with the following:

Other Insurance – Where other insurance may be available for **Clean-Up Costs** or **Loss** covered under this Policy, the **Insured** shall promptly upon request of the Company provide the Company with copies of all such policies. If other valid and collectible insurance is available to the **Insured** for **Clean-Up Costs** or **Loss** covered by this Policy, the Company's obligations are limited as follows:

- (1) This Insurance shall apply as excess insurance over any other valid and collectible insurance, be it primary or excess. This excess insurance shall in no way be increased or expanded as a result of the receivership, insolvency or inability to pay of any insurer with respect to both the duty to indemnify and the duty to defend. If any other insurance is primary the Company's will share with all such other insurance by the method described in Paragraph (2) below.
- (2) If all of the other insurance permits contribution by equal shares, the Company will follow this method also. Under this approach each insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the loss remains, whichever comes first. If any of the other insurance does not permit contribution by equal shares, the Company will contribute by limits. Under this method, each insurer's share is based on the ratio of its applicable limit of insurance to the total applicable limits of insurance of all insurers.

All other terms, conditions and exclusions shall remain the same

AUTHORIZED REPRESENTATIVE
or countersignature (where required by law)

ENDORSEMENT NO. 32

This endorsement, effective 12:01AM, September 31, 2001
Forms a part of Policy No: PLS/CCC 478 31 30
Issued to: Alliant Techsystems
By: American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that the following location(s) is (are) included in Item 5(a) and/or 5(b) of the Declarations as Insured Property(s), subject to all of the terms and conditions of the Policy, and that the corresponding coverages, deductibles, and limits of liability shown for each such Insured Property are included in Item 3 of the Declarations:

Item 5a & 5b: INSURED PROPERTY(S): 4700 Nathan Lane, Plymouth, MN
4600 Nathan Lane, Plymouth, MN
Interlachen Corporate Center 5050 Lincoln Dr, Edina, MN

With respect to the above-listed Insured Property(s), Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I. of the Policy for which deductibles and limits of liability appear below. If no deductible or limits of liability appears for a Coverage, that Coverage does not apply.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000	\$25,000,000	\$25,000,000
B	\$1,000,000	\$25,000,000	\$25,000,000
C	\$1,000,000	\$25,000,000	\$25,000,000
D	\$1,000,000	\$25,000,000	\$25,000,000
E	\$1,000,000	\$25,000,000	\$25,000,000
F	\$1,000,000	\$25,000,000	\$25,000,000

ENDORSEMENT NO. (Continued)

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J		

Coverage	Limit of Liability	Self-Insured Retention	Co-Insurance Participation Percentage
K only			a) Insured % b) Company %
K and L combined			a) Insured % b) Company %

All other terms, conditions, and exclusions shall remain the same.

AUTHORIZED REPRESENTATIVE
 or countersignature (in states where applicable)

76973 (6/01)
 C11593

PAGE 2 OF 2

ENDORSEMENT NO. 33

This endorsement, effective 12:01AM June 30, 2002
Forms a part of Policy No: PLS/CCC 4763130
Issued to: ALLIANT TECHSYSTEMS
By: AMERICAN INTERNATIONAL SPECIALTY LINES INS. CO.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

In consideration of the additional premium of \$42,000 it is agreed that the following location is added:

Federal Cartridge Site
900 Ehlen Drive
Anoka, MN

Rachel Fischer

All other terms, conditions, and exclusions shall remain the same

Armand Pepin
AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

ENDORSEMENT NO. 34

This endorsement, effective 12:01AM,

June 30, 2002

Forms a part of Policy No:

PLS/CCC 4763130

Issued to:

ALLIANT TECHSYSTEMS

By:

AMERICAN INTERNATIONAL SPECIALTY LINES INS. CO.

KNOWN CONTAMINANT EXCLUSION ENDORSEMENT

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

It is hereby agreed that this insurance does not apply to **Clean-Up Costs, Claims, Loss, Actual Loss, Extra Expense** or loss of **Rental Value** due to the following contaminants, their degradation products and associated additives, in the soil, groundwater, surfacewater, air at the following facilities:

Former Federal Cartridge facility, 900 Ehlen Drive – Anoka, MN

1. Sulfate on, under or migrating from the former Acid Neutralization Pit. *if soil is disturbed, pursuant to the deed restriction.*
2. Any **Pollution Conditions** on, under or migrating from the Incinerator Ash Pile shall be excluded.
3. Any **Pollution Conditions** on, under or migrating from the Demolition Landfill shall be excluded.
4. Any **Pollution Conditions** on, under or migrating from the Empty Drum Storage Area shall be excluded.
5. Copper, Nickel, Cyanide and Zinc on, under or migrating from the Cyanide Storage Pad.
6. Lead, Zinc and Chlorinated Solvents on, under or migrating from the Incinerator pad.
7. ~~Any Pollution Conditions~~ associated with the active scrap propellant burn pad.
8. Any **Pollution Conditions** on, under or migrating from Building 160 – Master Site #16.
9. Any **Pollution Conditions** associated with the active storm water pond.
10. Any **Pollution Conditions** on, under or migrating from the closed hazardous waste landfill.
11. Any **Pollution Conditions** on, under or migrating from the Sanitary/Process Water Sewer System.
12. Any **Pollution Conditions** on, under or migrating from the Wetland Complex west of building 171.

At the Company's sole discretion, this exclusion may be amended to provide coverage for remediated areas or conditions once the **Insured Property(s)** has received a No Further Action letter from the regulatory agency administering the cleanup, if applicable, and a satisfactory underwriting review has been completed. Such coverage amendment shall not bind the Company until it is endorsed onto the policy.

✓ Rachel Fischer

All other terms, conditions, and exclusions shall remain the same.

Armand Pepin

AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

ENDORSEMENT NO. 34

This endorsement, effective 12:01 AM, August 30, 2002

Forms a part of Policy No: PLC/CCC 4763130

Issued to: Alliant Techsystems

By: American International Specialty Lines Insurance Company

**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(S)**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5: INSURED PROPERTY(S):

1. CCL, Inc., 2299 Snake River Rd., Lewiston, ID
2. Speer facility, 1023 Snake River Rd., Lewiston, ID
3. Southport facility, 150 Southport Rd., Lewiston, ID
4. RCBS, 605 Oro Dam Rd., Oroville, CA
5. Champion Target, 232 Industrial Parkway, Richmond, IN.
6. Outers/Ramline, N5549 County Rd., Onalaska, WI
7. Estate Cartridge, 12161 Farm to Market Rd., Willis, TX
8. SWR site, 201 Plantation Oak Drive, Thomasville, GA
9. Boeing Mesa Ordinance Facility, 500 East McDowell Rd., Mesa, AZ.

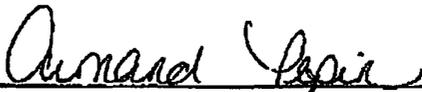
With respect to the above-listed Insured Property(s), Item 3 of the Declarations shall provide as follows:

Item 3. COVERAGES AND COVERAGE SECTION LIMITS AND DEDUCTIBLES:

This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below. If no deductible or limits of liability appears for a Coverage, that Coverage does not apply.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000	\$25,000,000	\$25,000,000
B	\$1,000,000	\$25,000,000	\$25,000,000
C	\$1,000,000	\$25,000,000	\$25,000,000
D	\$1,000,000	\$25,000,000	\$25,000,000
E	\$1,000,000	\$25,000,000	\$25,000,000
F	\$1,000,000	\$25,000,000	\$25,000,000

All other terms, conditions, and exclusions shall remain the same.


AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

ENDORSEMENT NO. 35

This endorsement, effective 12:01 AM, August 30, 2002
Forms a part of Policy No: PLC/CCC 4763130
Issued to: Alliant Techsystems
By: American International Specialty Lines Insurance Company

KNOWN CONTAMINANT EXCLUSION ENDORSEMENT

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

It is hereby agreed that this insurance does not apply to Clean-Up Costs, Claims, Loss, Actual Loss, Extra Expense or loss of Rental Value due to the following contaminants, their degradation products and associated additives, in the soil, groundwater, surfacewater, air at the following facilities:

CCI Facility, 2299 Snake River Road, Lewiston, ID

- ◆ On-site cleanup and monitoring of chlorinated solvents

Speer facility, 1023 Snake River Rd., Lewiston, ID

- ◆ On-site Cleanup Costs for Lead

RCBS, 605 Oro Dam Rd., Oroville, CA

- ◆ Chlorinated Solvents

Outers/Ramline, N5549 County Rd., Onalaska, WI

- ◆ Lead and VOC impacts
- ◆ No coverage shall apply to their Potential Responsibility with the nearby Superfund site identified as the Onalaska Town Dump.
- ◆ PAHs

At the Company's sole discretion, this exclusion may be amended to provide coverage for remediated areas or conditions once the Insured Property(s) has received a No Further Action letter from the regulatory agency administering the cleanup, if applicable, and a satisfactory underwriting review has been completed. Such coverage amendment shall not bind the Company until it is endorsed onto the policy.

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

ENDORSEMENT NO. 36

This endorsement, effective 12:01 AM, September 30, 2003 ✓
Forms a part of Policy No: PLS/CCC 4763130
Issued to: Alliant Techsystems
By: American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DISCOVERY - RESTRICTED POLLUTION COVERAGE ENDORSEMENT

The following changes are made to the Policy:

Solely with respect to the former Thiokol locations in Promontory, Utah, Clearfield, UT (buildings G12, G13, G14, H5, H6, H7 and Elkton, Maryland, it is hereby agreed that Section I. **INSURING AGREEMENTS**, 1. **COVERAGES**, Coverages B, C, E and F are deleted in their entirety and replaced with the following:

COVERAGE B - ON-SITE CLEAN-UP OF NEW CONDITIONS

1. To pay on behalf of the Insured, **Clean-Up Costs** resulting from **Pollution Conditions** on or under the **Insured Property** that commenced on or after the **Continuity Date**, if such **Pollution Conditions** are discovered by the Insured during the **Policy Period**, provided:
 - (a) An **Insured** discovers the **Pollution Conditions** no later than three (3) calendar days after its commencement;
 - (b) The **Insured** reports the **Pollution Conditions** to the Company in writing no later than seven (7) business days following its discovery by an **Insured** as described in Paragraph (a) above, and in any event during the **Policy Period** in accordance with Section III. of the Policy. Discovery of **Pollution Conditions** happens when a **Responsible Insured** becomes aware of **Pollution Conditions**.
 - (c) Where required, such **Pollution Conditions** have been reported to the appropriate governmental agency in substantial compliance with applicable **Environmental Laws** in effect as of the date of discovery.
2. To pay on behalf of the **Insured**, **Loss** that the **Insured** is legally obligated to pay as a result of **Claims** for **Clean-Up Costs** resulting from **Pollution Conditions** on or under the **Insured Property** that commenced on or after the **Continuity Date**, provided such **Claims** are first made against the **Insured** and reported to the Company in writing during the **Policy Period**, or during the **Extended Reporting Period** if applicable

This insurance does not apply unless:

- (a) An **Insured** discovers the **Pollution Conditions** no later than three (3) calendar days after its commencement;
- (b) The **Insured** reports the **Pollution Conditions** to the Company in writing no later than seven (7) business days following discovery by an **Insured** as described in Paragraph (a). above, and in any event during the **Policy Period** in accordance with Section III. of the Policy. Discovery of **Pollution Conditions** happens when a **Responsible Insured** becomes aware of **Pollution Conditions**.
- (c) Notice to the Company of **Pollution Conditions** does not constitute the reporting of a **Claim**

*Michael Fischer
-12/1/03*

ENDORSEMENT NO. 36 (Cont.)

COVERAGE C – THIRD-PARTY CLAIMS FOR ON-SITE BODILY INJURY AND PROPERTY DAMAGE

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of Claims for Bodily Injury or Property Damage resulting from Pollution Conditions on or under the Insured Property, if such Bodily Injury or Property Damage takes place while the person injured or property damaged is on the Insured Property, provided such Claims are first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable.

This insurance does not apply unless:

- (a) An Insured discovers the Pollution Conditions no later than three (3) calendar days after its commencement;
- (b) The Insured reports the Pollution Conditions to the Company in writing no later than seven (7) business days following discovery by an Insured as described in Paragraph (a). above, and in any event during the Policy Period in accordance with Section III. of the Policy. Discovery of Pollution Conditions happens when a Responsible Insured becomes aware of Pollution Conditions
- (c) Notice to the Company of Pollution Conditions does not constitute the reporting of a Claim.

COVERAGE E – THIRD-PARTY CLAIMS FOR OFF-SITE CLEAN-UP RESULTING FROM NEW CONDITIONS

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of Claims for Clean-Up Costs resulting from Pollution Conditions, beyond the boundaries of the Insured Property, that commenced on or after the Continuity Date, and migrated from the Insured Property, provided such Claims are first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable.

This insurance does not apply unless:

- (a) An Insured discovers the Pollution Conditions no later than three (3) calendar days after its commencement;
- (b) The Insured reports the Pollution Conditions to the Company in writing no later than seven (7) business days following discovery by an Insured as described in Paragraph (a). above, and in any event during the Policy Period in accordance with Section III of the Policy. Discovery of Pollution Conditions happens when a Responsible Insured becomes aware of Pollution Conditions
- (c) Notice to the Company of Pollution Conditions does not constitute the reporting of a Claim.

COVERAGE F – THIRD - PARTY CLAIMS FOR OFF-SITE BODILY INJURY AND PROPERTY DAMAGE

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of Claims for Bodily Injury or Property Damage resulting from Pollution Conditions, beyond the boundaries of the Insured Property, that migrated from the Insured Property, provided such Claims are first made against the Insured and

reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable.

ENDORSEMENT NO. 36 (Cont.)

This insurance does not apply unless:

- (a) An **Insured** discovers the **Pollution Conditions** no later than three (3) calendar days after its commencement;
 - (b) The **Insured** reports the **Pollution Conditions** to the Company in writing no later than seven (7) business days following discovery by an **Insured** as described in Paragraph (a). above, and in any event during the **Policy Period** in accordance with Section III of the Policy. Discovery of **Pollution Conditions** happens when a **Responsible Insured** becomes aware of **Pollution Conditions**.
 - (c) Notice to the Company of **Pollution Conditions** does not constitute the reporting of a **Claim**
2. Section VII. **EXTENDED REPORTING PERIOD FOR CLAIMS - COVERAGES A THROUGH I**, Paragraph A., **Automatic Extended Reporting Period**, and Paragraph B. **Optional Extended Reporting Period** are deleted in their entirety and replaced with the following:

A. Automatic Extended Reporting Period

Provided that the **Named Insured** has not purchased any other insurance to replace this insurance and which applies to a **Claim** otherwise covered hereunder, the **Named Insured** shall have the right to the following: a period of sixty (60) days following the effective date of such termination of coverage in which to provide written notice to the Company of **Claims** first made and reported within the **Automatic Extended Reporting Period**.

A **Claim** first made and reported within the **Automatic Extended Reporting Period** will be deemed to have been made on the last day of the **Policy Period**, provided that: (1) the **Claim** arises from **Pollution Conditions** that commenced before the end of the **Policy Period**; and (2) the **Pollution Conditions** are discovered by the **Insured** no later than seven (7) calendar days after commencement, reported to the Company no later than twenty-one (21) business days after discovery, and are otherwise covered by this Policy. No part of the **Automatic Extended Reporting Period** shall apply if the **Optional Extended Reporting Period** is purchased.

B. Optional Extended Reporting Period

The **Named Insured** shall be entitled to purchase an **Optional Extended Reporting Period** upon termination of coverage as defined herein (except in the event of nonpayment of premium), as follows:

1. A **Claim** first made and reported within the **Optional Extended Reporting Period**, if purchased in accordance with the provisions contained in Paragraph 2. below, will be deemed to have been made on the last day of the **Policy Period**, provided that: (a) the **Claim** arises from **Pollution Conditions** that commenced before the end of the **Policy Period**, and (b) the **Pollution Conditions** are discovered by the **Insured** no later than seven (7) calendar days after commencement, reported to the Company no later than twenty-one (21) business days after discovery, and are otherwise covered by this Policy.
2. The Company shall issue an endorsement providing an **Optional Extended Reporting Period** of up to forty (40) months from termination of coverage hereunder for all **Insured Properties** and **Non-Owned Locations**, if applicable, or any specific **Insured Property** or **Non-Owned Location**, provided that the **Named Insured**:
 - (a) Makes a written request for such endorsement which the Company receives within thirty (30) days after termination of coverage as defined herein; and

ENDORSEMENT NO. 36 (Cont.)

- (b) Pays the additional premium when due. If that additional premium is paid when due, the **Extended Reporting Period** may not be cancelled, provided that all other terms and conditions of the Policy are met.
- 3 Termination of coverage occurs at the time of cancellation or nonrenewal of this Policy by the **Named Insured** or by the Company, or at the time of the Company's deletion of a location which previously was an **Insured Property** or **Non-Owned Location**
4. The **Optional Extended Reporting Period** is available to the **Named Insured** for not more than 200% of the full Policy premium stated in the Declarations.

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

72332 (7/00)
CI1085

PAGE 4 OF 4

ENDORSEMENT NO. 37

This endorsement, effective 12:01 AM, September 30, 2003
Forms a part of Policy No: PLS/CCC 4763130
Issued to: Alliant Techsystems
By: American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

For an additional premium of \$375,000, It is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(S)**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5: INSURED PROPERTY(S): Former Thiokol locations - promontory, Utah, Clearfield, UT
(buildings G12, G13, G14, H5, H6, H7 and Elkton, Maryland)

With respect to the above-listed Insured Property(s), Item 3 of the Declarations shall provide as follows:

Item 3. COVERAGES AND COVERAGE SECTION LIMITS AND DEDUCTIBLES:

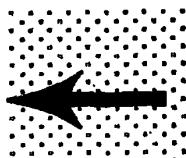
This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below. If no deductible or limits of liability appears for a Coverage, that Coverage does not apply.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
B	\$500,000	\$25,000,000	\$25,000,000
C	\$500,000	\$25,000,000	\$25,000,000
E	\$500,000	\$25,000,000	\$25,000,000
F	\$500,000	\$25,000,000	\$25,000,000

All other terms, conditions, and exclusions shall remain the same



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

 **SIGN
HERE**

*Rachel Redner
10/27/03*

ENDORSEMENT NO. 38

This endorsement, effective 12:01 AM, September 30, 2003 ✓
 Forms a part of Policy No: PLS/CCC 4763130
 Issued to: Alliant Techsystems
 By: American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
 COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(S)**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5: **INSURED PROPERTY(S):** ✓ 181 W. 1700 S., Salt Lake City, UT ✓
 ✓ 16707 Via Del Campo Court, San Diego Court, San Diego, CA ✓
 ✓ 9617 Distribution Ave., San Diego, CA ✓
 ✓ 3390 and 3392 W 8600 S., West Jordan, UT ✓

With respect to the above-listed Insured Property(s), Item 3 of the Declarations shall provide as follows:

Item 3. COVERAGES AND COVERAGE SECTION LIMITS AND DEDUCTIBLES:

This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below. If no deductible or limits of liability appears for a Coverage, that Coverage does not apply.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000	\$25,000,000	\$25,000,000
B	\$1,000,000	\$25,000,000	\$25,000,000
C	\$1,000,000	\$25,000,000	\$25,000,000
D	\$1,000,000	\$25,000,000	\$25,000,000
E	\$1,000,000	\$25,000,000	\$25,000,000
F	\$1,000,000	\$25,000,000	\$25,000,000

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J		

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
 or countersignature (in states where applicable)

72336 (7/00)
 CI1129

*Received & Issued
 10/27/03*

ENDORSEMENT NO. 39

This endorsement, effective 12:01 AM, December 11, 2003 ✓
Forms a part of Policy No: PLS/CCC 4763130
Issued to: Alliant Techsystems
By: American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED(S) ENDORSEMENT

It is hereby agreed that the following entity(s) is (are) included as an additional insured(s). Coverage for such additional insured(s) applies under this Endorsement:

1. Solely to the additional insured's liability arising out of the Named Insured's ownership, operation, maintenance or use of the Insured Property(s) and
2. Only if the additional insured is named in a suit as a co-defendant with the Named Insured, alleging the additional insured is liable on the basis described in paragraph 1 above.

ADDITIONAL INSURED(S)

✓ Miramar Business Park

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

69559 (7/00)
CI1071

PAGE 1 OF 1

Add Additional Insured

ENDORSEMENT NO. 40

This endorsement, effective 12:01 AM, April 29, 2003 ✓
Forms a part of Policy No: PLS/CCC 4763130
Issued to: Alliant Techsystems
By: American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**SCHEDULE OF NON-OWNED LOCATIONS, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that the following location(s) is (are) covered as a Non-Owned Location, subject to all of the terms and conditions of the Policy, and the corresponding Coverages, deductibles, and limits of liability shown for each such Non-Owned Location are included in Item 3 of the Declarations:

NON-OWNED LOCATION: Envirocare of Utah ✓
605 North 5600 West
Salt Lake City, UT 84116

With respect to the above-listed Non-Owned Location(s), Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
G	\$1,000,000	\$25,000,000	\$25,000,000
H	\$1,000,000	\$25,000,000	\$25,000,000

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

72337 (7/00)
CI1130

PAGE 1 OF 1

Add Envirocare of Utah

ENDORSEMENT NO. 41

This endorsement, effective 12:01 AM, November 20, 2003 ✓
Forms a part of Policy No: PLS/CCC 4763130
Issued to: Alliant Techsystems
By: American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(S)**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5: **INSURED PROPERTY(S)**: 207 Big Springs Avenue, Tullahoma, TN ✓
77-87 Raynor Avenue, Ronkonkoma, NY ✓

With respect to the above-listed Insured Property(s), Item 3 of the Declarations shall provide as follows:

Item 3. COVERAGES AND COVERAGE SECTION LIMITS AND DEDUCTIBLES:

This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000	\$25,000,000	\$25,000,000
B	\$1,000,000	\$25,000,000	\$25,000,000
C	\$1,000,000	\$25,000,000	\$25,000,000
D	\$1,000,000	\$25,000,000	\$25,000,000
E	\$1,000,000	\$25,000,000	\$25,000,000
F	\$1,000,000	\$25,000,000	\$25,000,000

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

add Tullahoma TN

ENDORSEMENT NO. 42

This endorsement, effective 12:01AM, November 20, 2003 ✓

Forms a part of Policy No: PLS/CCC 4763130

Issued to: Alliant Techsystems

By: American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

KNOWN CONTAMINANT EXCLUSION ENDORSEMENT

It is hereby agreed that this insurance does not apply to **Clean-Up Costs, Claims, Loss, Actual Loss, Extra Expense or loss of Rental Value** due to or arising from the **Pollution Conditions** listed below in the soil or groundwater, on, under or migrating from the respective **Insured Property**:

Insured Property:

Pollution Condition(s):

✓ 77-87 Raynor Avenue, Ronkonkoma, NY	<ul style="list-style-type: none">• Chromium• Total Petroleum Hydrocarbons• Semi-Volatile Organic Compounds• Isopropyltoluene• Toluene• Any additives or degradation products of the aforementioned contaminants
✓ 207 Big Springs Avenue, Tullahoma, TN	<ul style="list-style-type: none">• Chromium• Copper

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

ENDORSEMENT NO. 43

This endorsement, effective 12:01AM, February 23, 2005
Forms a part of Policy No: PLS/CCC 4763130
Issued to: Alliant Techsystems
By: American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

KNOWN CONTAMINANT EXCLUSION ENDORSEMENT ✓

It is hereby agreed that this insurance does not apply to Clean-Up Costs, Claims, Loss, Actual Loss, Extra Expense or loss of Rental Value due to or arising from the Pollution Conditions listed below in the soil or groundwater, on, under or migrating from the respective Insured Property:

Insured Property:

Pollution Condition(s):

6033 East Bandini Blvd, Commerce, CA	<ul style="list-style-type: none"> • Trichlorethene (TCE) • Perchlorethylene (PCE) • Total Petroleum Hydrocarbons (TPH) • Ammonium Perchlorate • Any additives or degradation products of the aforementioned contaminants
93 Castilian Drive, Goleta, CA	<ul style="list-style-type: none"> • Trichlorethene (TCE) • Perchlorethylene (PCE) • Any additives or degradation products of the aforementioned contaminants

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

Add 6 locations

ENDORSEMENT NO. 44

This endorsement, effective 12:01 AM, February 23, 2005
Forms a part of Policy No: PLS/CCC 4763130
Issued to: Alliant Techsystems
By: American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(S)**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5: **INSURED PROPERTY(S):**

- 6033 East Bandini Blvd ✓
Commerce, CA
- 7200 Hollister Avenue ✓
Goleta, CA
- 250 Klug Circle ✓
Corona, CA
- 375 Klug Circle ✓
Corona, CA
- 93 Castilian Drive ✓
Goleta, CA
- 600 Pine Avenue ✓
Goleta, CA

With respect to the above-listed Insured Property(s), Item 3 of the Declarations shall provide as follows:

Item 3. COVERAGES AND COVERAGE SECTION LIMITS AND DEDUCTIBLES:

This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000 ✓	\$25,000,000 ✓	\$25,000,000 ✓

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

B	\$1,000,000	\$25,000,000	\$25,000,000
C	\$1,000,000	\$25,000,000	\$25,000,000
D	\$1,000,000	\$25,000,000	\$25,000,000
E	\$1,000,000	\$25,000,000	\$25,000,000
F	\$1,000,000	\$25,000,000	\$25,000,000

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J	N/A	N/A

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
 or countersignature (in states where applicable)

ENDORSEMENT NO. 45

This endorsement, effective 12:01 AM, February 23, 2005
Forms a part of Policy No: PLS/CCC 4763130
Issued to: Alliant Techsystems
By: American International Specialty Lines Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

MICROBIAL MATTER EXCLUSION ENDORSEMENT ✓

It is hereby agreed that the Policy is amended as follows:

1. Section VIII. **DEFINITIONS**, Paragraph U. **Pollution Conditions**, is deleted in its entirety and replaced with the following:

U. Pollution Conditions means the discharge, dispersal, release or escape of any solid, liquid, gaseous or thermal irritant or contaminant, including, but not limited to, smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, medical waste and waste materials into or upon land, or any structure on land, the atmosphere or any watercourse or body of water, including groundwater, provided such conditions are not naturally present in the environment in the amounts or concentrations discovered. **Pollution Conditions** shall not include **Microbial Matter**.

- 2 Section VIII. **DEFINITIONS**, is amended by the addition of the following:

Microbial Matter means fungi, mold and mildew, whether or not such **Microbial Matter** is living.

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

POLICYHOLDER NOTICE

Thank you for purchasing insurance from the Chartis companies. Chartis insurance companies generally pay compensation to brokers and independent agents, and may have paid compensation in connection with your policy. You can review and obtain information about the nature and range of compensation paid by Chartis insurance companies to brokers and independent agents in the United States by visiting our website at www.chartisinsurance.com/producercompensation or by calling 1-800-706-3102.

91222 (12/09)

FORMS SCHEDULE

Named Insured: ALLIANT TECHSYSTEMS INC.

Policy Number: PLS 4763130

Effective 12:01 AM: April 27, 2010

<u>End't. No.</u>	<u>Form Name</u>	<u>Form Number/ Edition Date</u>	
	CSIC PLS Dec	75321	(11/09)
	CSIC PLS Policy Coverage	76391	(11/09)
	Notice of Loss/Notice of Claim	91968	(12/06)
1	War Exclusion Endorsement	79098	(12/01)
2	Multiple Coverages Aggregate Limit Endorsement	83260	(11/03)
3	Condition Of Payment Endorsement	90365	(01/06)
4	Broad Nmd Insd W/Sch Add Nmd Insd End	100257	(10/08)
5	Terrorism Excl - All (Incl Cert Acts Of Terrorism)	97640	(03/08)
6	Additional Insured(s) Endorse	69559	(07/00)
7	Responsible Insured Definition Endorsement	100273	(10/08)
8	Notice of Poss Claim Deletion	76101	(07/00)
9	Min. Ernd Prem Sch. w/90 day Canc&Chng in Ops End	100285	(10/08)
10	Material Change in Use of Insured Prop Excl	72322	(07/00)
11	Def of BI To Include Medical Monit Costs Endt	100281	(10/08)
12	Criminal Fines, Penalties and Assessments Endt	78789	(09/01)
13	Self-Insured Retention Endorsement	83709	(12/03)
14	Cov A&B-3rd Party Claims Only Endorse	76473	(07/00)
15	Sched of Ins Prop, Cov, & Cov Sect Limits & Deduct	72336	(01/09)
16	Continuity Date Endorsement	MNSCPT	(03/10)
17	Discovery - Restricted Pollution Coverage Endt	MNSCPT	(03/10)
18	Known Cond. Exclusion W/ No Further Action Clause	MNSCPT	(03/10)
19	Emergency Repsonse Costs Coverage Endorsement	MNSCPT	(03/10)
20	Amendment to the Definition of Non-Owned Locations	MNSCPT	(04/10)
21	Passport Endorsment	MNSCPT	(04/10)
22	Definition of Pollution Conditions Amendatory Endt	MNSCPT	(04/10)
23	Divested Properties Endorsement	MNSCPT	(04/10)

**CIFMSC
CI0226**

Gaining the Ultimate Value-Added Advantage Through Chartis

Insured: ALLIANT TECHSYSTEMS INC.

Policy # : PLS 4763130
Effective Date: April 27, 2010

Thank you for purchasing your environmental insurance policy through Chartis!

At Chartis, we enhance the coverage of every environmental insurance policy by giving insureds complimentary access to the following tools and programs proven to help manage environmental risk, mitigate environmental losses, and conduct loss control:

PIER (Pollution Incident and Environmental Response)

Policyholders have access to pre-screened crisis management specialists who respond in a timely manner to environmental incidents at pre-negotiated rates. Environmental insurance policyholders are automatically enrolled in this program.

- To access the right resources to respond to an environmental incident, call 1-877-PIER-NOW (743-7669).

Claims Expertise

Our pollution claims operation, with 80+ claims specialists, is the largest in the industry.

- Report your claim by either sending a fax to 1-866-260-0104 or emailing severityfnol@chartisinsurance.com

RiskTool System

The complimentary, web-based system brings together a myriad of information that a company needs to manage Environmental, Health and Safety (EH&S) programs in one virtual "reference desk." By supporting on-line management and tracking of EH&S issues and providing templates, RiskTool System presents a turnkey way to put an EH&S program in place.

- Go to www.risktool.com to register and have your environmental insurance policy number in hand.

SCAN (Specialty Claims Assistance Network)

Specialists are available to swiftly address indoor air quality issues that are faced by our insureds, thus helping them mitigate water and mold damage.

- Initiate a quick response with SCAN: 1-877-743-7669.

Transportation Loss Control Programs

We provide a number of transportation-related programs for insureds that reinforce positive driving behavior and potential improvements in loss reduction. These programs include preventive driving sessions and mock Department of Transportation audits.

- To learn more, contact environmental@chartisinsurance.com

Environmental Portal

Portal is secure, Internet-based system that allows our clients to track environmental insurance policies for multiple site portfolios. Policyholders can check the status of coverage requests 24/7, upload and download policy-related reports and documents, and more.

- Register for Environmental Portal by visiting www.chartisinsurance.com

Chartis is committed to the achievement of effective risk management objectives for clients as well as providing them access to incident response assistance in the event of a pollution-release event.

Thank you,



Kimberly Hanna
Executive Vice President & Chief Operating Officer, Environmental
Chartis

Chartis is the marketing name for the worldwide property-casualty and general insurance operations of Chartis Inc. For additional information, please visit our website at www.chartisinsurance.com. All products are written by insurance company subsidiaries or affiliates of Chartis Inc. Coverage may not be available in all jurisdictions and is subject to actual policy language. Non-insurance products and services may be provided by independent third parties. Certain coverage may be provided by a surplus lines insurer. Surplus lines insurers do not generally participate in state guaranty funds and insureds are therefore not protected by such funds.

CHARTIS^C
Your world, insured

C14219 (8/09)

014678

**POLICYHOLDER DISCLOSURE STATEMENT
UNDER
TERRORISM RISK INSURANCE ACT OF 2002**

You are hereby notified that under the federal Terrorism Risk Insurance Act of 2002 (the "Act") effective November 26, 2002, you now have a right to purchase insurance coverage for losses arising out of an Act of Terrorism, which is defined in the Act as an act certified by the Secretary of the Treasury (i) to be an act of terrorism, (ii) to be a violent act or an act that is dangerous to (A) human life; (B) property or (C) infrastructure, (iii) to have resulted in damage within the United States, or outside of the United States in case of an air carrier or vessel or the premises of a U.S. mission and (iv) to have been committed by an individual or individuals acting on behalf of any foreign person or foreign interest, as part of an effort to coerce the civilian population of the United States or to influence the policy or affect the conduct of the United States Government by coercion. You should read the Act for a complete description of its coverage. The Secretary's decision to certify or not to certify an event as an Act of Terrorism and thus covered by this law is final and not subject to review. There is a \$100 billion dollar annual cap on all losses resulting from Acts of Terrorism above which no coverage will be provided under this policy and under the Act unless Congress makes some other determination.

For your information, if such coverage is purchased, coverage provided by the policy for losses caused by an Act of Terrorism may be partially reimbursed by the United States under a formula established by the Act. Under this formula the United States pays 90% of terrorism losses covered by this law exceeding a statutorily established deductible that must be met by the insurer, and which deductible is based on a percentage of the insurer's direct earned premiums for the year preceding the Act of Terrorism.

Coverage for Acts of Terrorism is not included in the policy referenced below as the insured has rejected the offer to purchase such insurance.

**HARTIS SPECIALTY INSURANCE COMPANY
NAMED INSURED: ALLIANT TECHSYSTEMS INC.
POLICY #: PLS 4763130
EFFECTIVE DATES: 04/27/2010 TO 04/27/2015**

**BINDER WITH NO CERTIFIED ACT INSURANCE (COVERAGE REJECTED BY INSURED)
81273 (12/02)
CI1960**

CHARTIS SPECIALTY INSURANCE COMPANY

(A Capital Stock Company, herein called the Company)

175 Water Street
New York, NY 10038

POLLUTION LEGAL LIABILITY SELECT® POLICY

THIS IS A CLAIMS-MADE AND REPORTED POLICY. PLEASE READ CAREFULLY.

DECLARATIONS

POLICY NUMBER: PLS 4763130

Item 1. NAMED INSURED: ALLIANT TECHSYSTEMS INC.

ADDRESS: 7480 FLYING CLOUD DRIVE
MINNEAPOLIS, MN 55344

Item 2. POLICY PERIOD: FROM April 27, 2010 TO April 27, 2015
12:01 AM Standard Time at the Address of the Named Insured shown above

Item 3. COVERAGES AND COVERAGE SECTION LIMITS AND DEDUCTIBLES:

This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below. If no deductible or limits of liability appears for a Coverage, that Coverage does not apply.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000	\$25,000,000	\$50,000,000
B	\$1,000,000	\$25,000,000	\$50,000,000
C	\$1,000,000	\$25,000,000	\$50,000,000
D	\$1,000,000	\$25,000,000	\$50,000,000
E	\$1,000,000	\$25,000,000	\$50,000,000
F	\$1,000,000	\$25,000,000	\$50,000,000
G	\$1,000,000	\$25,000,000	\$50,000,000
H	\$1,000,000	\$25,000,000	\$50,000,000
I	\$1,000,000	\$25,000,000	\$50,000,000

5321 (11/09)
CI4281

Page 1 of 2

NOTICE: THIS INSURER IS NOT LICENSED IN THE STATE OF NEW YORK AND IS NOT SUBJECT TO ITS SUPERVISION

© 2000 All rights reserved.

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J		

Item 4. **POLICY AGGREGATE LIMIT:** \$50,000,000

Item 5. **INSURED PROPERTY(S):** See Attached Schedule(s) of Insured Properties

Item 6. **POLICY PREMIUM:** \$959,792.00

Premium for Certified Acts of Terrorism Coverage Under Terrorism Risk Insurance Act 2002:
Not Applicable, Coverage Rejected By Insured

Item 7. **RETROACTIVE DATE:** Under Coverages B, C, E, & F, the **Pollution Conditions** must commence on or after the date shown below.

Retroactive Date: None
(Enter date or "none" if no Retroactive Date Applies.)

Item 8. **CONTINUITY DATE:** See Endorsement No. 16

ROKER: WILLIS OF ILLINOIS, INC
ONE E WACKER DR # 1800
CHICAGO, IL 60601-2748

By *Jana Rhee*
AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(S)**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5: INSURED PROPERTY(S):

1. 301-D Cahaba Valley Parkway North, Pelham, AL, 35124
2. NASA, George C Marshall Space Flight Center, MSFC, AL, 35812
3. 620 Discovery Drive, Suite 200, Huntsville, AL, 35806
4. 3309 North Reseda Circle, Mesa, AZ, 85215
5. 4242 East Palm Street, Mesa, AZ, 85215
6. 2832 North Omaha, Mesa, AZ, 85215
7. 1300 West Warner Road, Tempe, AZ, 85284

With respect to the above-listed **Insured Property(s)**, Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I. of the Policy for which deductibles and limits of liability appear below.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000	\$25,000,000	\$50,000,000
B	\$1,000,000	\$25,000,000	\$50,000,000
C	\$1,000,000	\$25,000,000	\$50,000,000
D	\$1,000,000	\$25,000,000	\$50,000,000
E	\$1,000,000	\$25,000,000	\$50,000,000
F	\$1,000,000	\$25,000,000	\$50,000,000
G	\$1,000,000	\$25,000,000	\$50,000,000
H	\$1,000,000	\$25,000,000	\$50,000,000
I	\$1,000,000	\$25,000,000	\$50,000,000

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J		

All other terms, conditions, and exclusions shall remain the same.

Jana Reel

AUTHORIZED REPRESENTATIVE
 or countersignature (in states where applicable)

**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(S)**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5: INSURED PROPERTY(S):

- 8. 305 SW 18th Street, Suite # 13, Betonville, AR, 72712
- 9. 300 E. Cypress, Brea, CA, 92821
- 10. Vandenberg Air Force Base, PO Box 5008, Vandenberg AFB, CA, 92165
- 11. 605 Oro Dam Boulevard, Oroville, CA, 95965
- 12. 10350 Vacco Street, South El Monte, CA, 91733
- 13. 404 N Halstead Street, Pasadena, CA, 91107
- 14. 151 Martinvale Lane, San Jose, CA, 95119

With respect to the above-listed **Insured Property(s)**, Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I. of the Policy for which deductibles and limits of liability appear below.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000	\$25,000,000	\$50,000,000
B	\$1,000,000	\$25,000,000	\$50,000,000
C	\$1,000,000	\$25,000,000	\$50,000,000
D	\$1,000,000	\$25,000,000	\$50,000,000
E	\$1,000,000	\$25,000,000	\$50,000,000
F	\$1,000,000	\$25,000,000	\$50,000,000
G	\$1,000,000	\$25,000,000	\$50,000,000
H	\$1,000,000	\$25,000,000	\$50,000,000
I	\$1,000,000	\$25,000,000	\$50,000,000

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J		

All other terms, conditions, and exclusions shall remain the same.

Jana Reel

AUTHORIZED REPRESENTATIVE
 or countersignature (in states where applicable)

**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(S)**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5: INSURED PROPERTY(S):

- 15. 300 N Continental Blvd, El Segundo, CA
- 16. 6033 E. Bandini Boulevard, Commerce, CA
- 17. 6755 Hollister Avenue, Suite 200, Goleta, CA
- 18. 21301 Burbank Blvd, Suite 100, Woodland Hills, CA
- 19. 9617 Distribution Avenue, San Diego, CA
- 20. 23052 Alcalde Drive, Suite A, Laguna Hills, CA
- 21. 10 Ragsdale Drive, Suite 201, Monterey, CA

With respect to the above-listed **Insured Property(s)**, Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I. of the Policy for which deductibles and limits of liability appear below.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000	\$25,000,000	\$50,000,000
B	\$1,000,000	\$25,000,000	\$50,000,000
C	\$1,000,000	\$25,000,000	\$50,000,000
D	\$1,000,000	\$25,000,000	\$50,000,000
E	\$1,000,000	\$25,000,000	\$50,000,000
F	\$1,000,000	\$25,000,000	\$50,000,000
G	\$1,000,000	\$25,000,000	\$50,000,000
H	\$1,000,000	\$25,000,000	\$50,000,000
I	\$1,000,000	\$25,000,000	\$50,000,000

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J		

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
 or countersignature (in states where applicable)

**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(S)**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5: INSURED PROPERTY(S):

- 22. One Gateway Plaza, 1330 Inverness Drive, Suite 500, Colorado Springs, CO
- 23. 1724 Majestic Drive, Lafayette, CO
- 24. 4555 Overlook Avenue SE, Washington, DC
- 25. KM 22 Autopista Las Americas, Edif F-1 Zona, Franca Industrial Las Americas, Santo Domingo, Dominican Republic, DC
- 26. 13133 34th Street N, Clearwater, FL
- 27. TITAN III Warehouse, Cape Canaveral Air Station, FL
- 28. Camp Blanding Training Site, Route 1, Box 475, Starke, FL

With respect to the above-listed **Insured Property(s)**, Item 3 of the Declarations shall provide as follows:

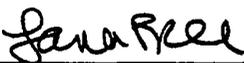
Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I. of the Policy for which deductibles and limits of liability appear below.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000	\$25,000,000	\$50,000,000
B	\$1,000,000	\$25,000,000	\$50,000,000
C	\$1,000,000	\$25,000,000	\$50,000,000
D	\$1,000,000	\$25,000,000	\$50,000,000
E	\$1,000,000	\$25,000,000	\$50,000,000
F	\$1,000,000	\$25,000,000	\$50,000,000
G	\$1,000,000	\$25,000,000	\$50,000,000
H	\$1,000,000	\$25,000,000	\$50,000,000
I	\$1,000,000	\$25,000,000	\$50,000,000

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J		

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
 or countersignature (in states where applicable)

**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(S)**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5: INSURED PROPERTY(S):

- 29. Portside Office Complex, 101 George J. King Blvd, Suite 3, Port Canaveral, FL
- 30. 1515 Chaffee Drive, Titusville, FL
- 31. 775 East Merritt Island Causeway, Suite 230, Merritt Island, FL
- 32. KSC Operations Office, Building # K6-1096, OSB, RM 3309L, Kennedy Space Center, FL
- 33. 300 Village Square Crossing, Suite 201, Palm Beach Gardens, FL
- 34. 2520 Mt. Pleasant Street, West Burlington, IA
- 35. 2299 Snake River Avenue, Lewistown, IA

With respect to the above-listed Insured Property(s), Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I. of the Policy for which deductibles and limits of liability appear below.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000	\$25,000,000	\$50,000,000
B	\$1,000,000	\$25,000,000	\$50,000,000
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H	\$1,000,000	\$25,000,000	\$50,000,000
I	\$1,000,000	\$25,000,000	\$50,000,000

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J		

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
 or countersignature (in states where applicable)

**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

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Item 5: INSURED PROPERTY(S):

- 36. Building 332, Room 2m, Suite 6, Rock Island Arsenal, IL
- 37. 232 Industrial Parkway, Richmond, IN
- 38. 65 South Street, Hopkinton, MA
- 39. Canton Crossing Tower, 1501 S. Clinton Street, 11th Floor, Baltimore, MD
- 40. 44425 Pecan Court, Suite 205, California, MD
- 41. 5050 Powder Mill Road, Beltsville, MD
- 42. Goddard Space Flight Center, 8000 Greenbelt Road, Greenbelt, MD

With respect to the above-listed **Insured Property(s)**, Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I. of the Policy for which deductibles and limits of liability appear below.

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Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
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All other terms, conditions, and exclusions shall remain the same.

Jana Rhee

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**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
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Item 5: INSURED PROPERTY(S):

- 43. 200 Elk Park Way, Elkton, MD
- 44. 900 Ehlen Drive, Anoka, MN
- 45. 7480 Flying Cloud Drive, Minneapolis, MN
- 46. 4700 Nathan Lane, Plymouth, MN
- 47. ATPG, 23100 Sugar Bush Road NW, Elk River, MN
- 48. 25201 East 78 Hwy, Independence, MO
- 49. 1000 Biltmore Drive, Fenton, MO

With respect to the above-listed **Insured Property(s)**, Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I. of the Policy for which deductibles and limits of liability appear below.

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Item 5: INSURED PROPERTY(S):

- 50. Tristate Commerce Park, 751 County Road 989, Building 10, Luka, MS
- 51. 3906 Raynor Parkway, Suite 302, Bellvue, NE
- 52. 4300 Industrial Avenue, Lincoln, NE
- 53. 1515 W. Elizabeth Ave, Linden, NJ
- 54. Ninth Avenue, Building 356, Suite 10, Wharton, NJ
- 55. Delta and Bravo Road, Socorro, NM
- 56. 5011 Indian School Road NE, Suite 500, Aluquerque, NM

With respect to the above-listed Insured Property(s), Item 3 of the Declarations shall provide as follows:

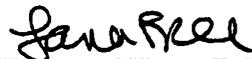
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**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
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Item 5: INSURED PROPERTY(S):

- 57. 77 Raynor Avenue, Ronkonkoma, NY
- 58. 601 West National Road, Vandalia, OH
- 59. 5000-5044 Hempstead Road, Kettering, OH
- 60. 1385 Technology Ct., Beaver Creed, OH
- 61. Urb. Villa Borinquen, Emilio Castro St., Lares, Puerto Rico, PR
- 62. Route 114 Interior Street D # 55, Zono Industrial De Juanibo, Mayaguez, Puerto Rico, PR
- 63. 207 Big Springs Avenue, Tullahoma, TN

With respect to the above-listed **Insured Property(s)**, Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I. of the Policy for which deductibles and limits of liability appear below.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
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**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
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Item 5: INSURED PROPERTY(S):

- 64. 40 New York Avenue, Suite 201, Oak Ridge, TN
- 65. Lockheed Blvd, Fort Worth, TX
- 66. 236 Citation Drive, Fort Worth, TX
- 67. Hanger 9S (A&B), Meacham Airport, WC Thiokol Longhorn, Fort Worth, TX
- 68. 8400 West 5000 South, Magna, UT
- 69. 938 University Park Blvd, Clearfield, UT
- 70. 841 Kelley Drive, Weber, UT

With respect to the above-listed **Insured Property(s)**, Item 3 of the Declarations shall provide as follows:

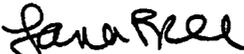
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This Policy includes only those Coverages as stated in Section I. of the Policy for which deductibles and limits of liability appear below.

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Item 5: INSURED PROPERTY(S):

- 71. 9160 North Hwy 83, Brigham City, UT
- 72. 890 Ogden Canyon Road, Ogden, UT
- 73. Corrine Rail Transfer Yard, Corrine, UT
- 74. 1700 N Research Park Way, Logan, UT
- 75. 7812 West 4100 South, Magna, UT
- 76. Radford Army Ammunition Plant, Route 114, Radford, VA
- 77. Building F-10, Wallops Flight Facility, Wallops Island, VA

With respect to the above-listed **Insured Property(s)**, Item 3 of the Declarations shall provide as follows:

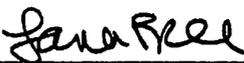
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**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
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Item 5: INSURED PROPERTY(S):

- 78. 1221B Langley Blvd MS 186A, Hampton, VA
- 79. 111 Cybernetics Way, Suite 205, Yorktown, VA
- 80. 1240 Perimeter Parkway, Suite 403 & 404, Virginia Beach, VA
- 81. Radford Storage, Building M, 17,000 Sq. ft, Radford Shopping Plaza, Radford, VA
- 82. 1300 Wilson Blvd, Arlington, VA
- 83. 8560 Cinderbed Road, Suite 700, Newington, VA
- 84. N5549 County Road, Onalaska, WI

With respect to the above-listed **Insured Property(s)**, Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

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Item 5: INSURED PROPERTY(S):

- 85. Allegany Ballistics Laboratory, 210 State Road 956, Rocket Center, WV
- 86. Bldgs 14-AT-16 & 2-AT-10 Highland Industrial Park, Calhoun County, AR
- 87. 300 Corporate Pointe, Suite 330, Culver City, CA
- 88. NAVSV, Kings Bay, GA
- 89. Rt 53 South & Hoff Road East, Gate 17, Bldg 70-5, Joliet, IL
- 90. Rte 4, Bldg 101A, KAAP, Parsons, KS
- 91. 401 Defense Highway, Annapolis, MD

With respect to the above-listed **Insured Property(s)**, Item 3 of the Declarations shall provide as follows:

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Item 5: INSURED PROPERTY(S):

- 92. 7301 Skykesville Road, Skykesville, MD
- 93. 461 Route 46, Fairfield, NJ
- 94. 11 Taft Avenue, Totowa, NJ
- 95. Hondo Airfield/Test Site, Hondo, TX
- 96. 860 Valley Drive & Hwy 39, Ogden, UT
- 97. 9160 North Hwy 83, Brigham, UT
- 98. 1023 Snake River Road, Lewistown, ID

With respect to the above-listed **Insured Property(s)**, Item 3 of the Declarations shall provide as follows:

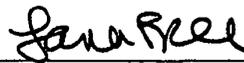
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Item 5: INSURED PROPERTY(S):

- 99. 150 Southport Road, Lewistown, ID
- 100. 232 Industrial Parkway, Richmond, IN
- 101. 1216 Farm to Market Road, Willis, TX
- 102. 500 East McDowell Road, Mesa, AZ
- 103. 3390 & 3392 W. 8600 S, West Jordan, UT
- 104. 605 North 5600 West, Salt Lake City, UT
- 105. 9300 Castilian Drive, Goleta, CA

With respect to the above-listed Insured Property(s), Item 3 of the Declarations shall provide as follows:

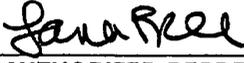
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Item 5: INSURED PROPERTY(S):

- 106. Nelson Colon Street, # 3020 Guanajibo Industrial Park, Mayaguez, Puerto Rico, PR
- 107. 2100 S. Silverstone Way, Meridian, OH
- 108. 6101 S. Cape Henry Avenue, Norfolk, VA
- 109. 3900 & 3922 Executive Blvd SE, Southport, NC
- 110. 34368 Frontage Road, Bozeman, MT
- 111. 420 N. Five Mile Road, Boise, ID
- 112. 23100 Sugarbush Road, Elk River, MN

With respect to the above-listed **Insured Property(s)**, Item 3 of the Declarations shall provide as follows:

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**SCHEDULE OF INSURED PROPERTIES, COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(S)**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5: INSURED PROPERTY(S):

- 113. Old Highway 8, New Brighton, MN
- 114. Dry Creek Road, Littleton, CO
- 115. 401 Defense Highway, Annapolis, MD

With respect to the above-listed Insured Property(s), Item 3 of the Declarations shall provide as follows:

Item 3: Coverages and Coverage Section Limits and Deductibles

This Policy includes only those Coverages as stated in Section I. of the Policy for which deductibles and limits of liability appear below.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000	\$25,000,000	\$50,000,000
B	\$1,000,000	\$25,000,000	\$50,000,000
C	\$1,000,000	\$25,000,000	\$50,000,000
E	\$1,000,000	\$25,000,000	\$50,000,000
F	\$1,000,000	\$25,000,000	\$50,000,000
G	\$1,000,000	\$25,000,000	\$50,000,000
H	\$1,000,000	\$25,000,000	\$50,000,000
I	\$1,000,000	\$25,000,000	\$50,000,000

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J		

All other terms, conditions, and exclusions shall remain the same.

Jana Rhee

AUTHORIZED REPRESENTATIVE
 or countersignature (in states where applicable)

**CHARTIS SPECIALTY INSURANCE COMPANY
 POLLUTION LEGAL LIABILITY SELECT® POLICY
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CHARTIS SPECIALTY INSURANCE COMPANY

POLLUTION LEGAL LIABILITY SELECT® POLICY

MANY OF THE COVERAGES CONTAIN CLAIMS-MADE-AND-REPORTED REQUIREMENTS. PLEASE READ CAREFULLY. ADDITIONALLY, THIS POLICY HAS CERTAIN PROVISIONS AND REQUIREMENTS UNIQUE TO IT AND MAY BE DIFFERENT FROM OTHER POLICIES THE INSURED MAY HAVE PURCHASED. DEFINED TERMS, OTHER THAN HEADINGS, APPEAR IN BOLD FACE TYPE.

NOTICE: THE DESCRIPTIONS IN ANY HEADINGS OR SUB-HEADINGS OF THIS POLICY ARE INSERTED SOLELY FOR CONVENIENCE AND DO NOT CONSTITUTE ANY PART OF THE TERMS OR CONDITIONS HEREOF.

In consideration of the payment of the premium, in reliance upon the statements in the Declarations and the Application annexed hereto and made a part hereof, and pursuant to all of the terms of this Policy, the Company agrees with the **Named Insured** as follows:

I. INSURING AGREEMENTS

1. COVERAGES:

THE FOLLOWING COVERAGES ARE IN EFFECT ONLY IF SCHEDULED IN THE DECLARATIONS.

COVERAGE A - ON-SITE CLEAN-UP OF PRE-EXISTING CONDITIONS

1. To pay on behalf of the **Insured**, **Clean-Up Costs** resulting from **Pollution Conditions** on or under the **Insured Property** that commenced prior to the **Continuity Date**, if such **Pollution Conditions** are discovered by the **Insured** during the **Policy Period**, provided:
 - (a) The discovery of such **Pollution Conditions** is reported to the Company in writing as soon as possible after discovery by the **Insured** and in any event during the **Policy Period** in accordance with Section III. of the Policy.

Discovery of **Pollution Conditions** happens when a **Responsible Insured** becomes aware of **Pollution Conditions**.
 - (b) Where required, such **Pollution Conditions** have been reported to the appropriate governmental agency in substantial compliance with applicable **Environmental Laws** in effect as of the date of discovery.
2. To pay on behalf of the **Insured**, **Loss** that the **Insured** is legally obligated to pay as a result of **Claims** for **Clean-Up Costs** resulting from **Pollution Conditions** on or under the **Insured Property** that commenced prior to the **Continuity Date**, provided such **Claims** are first made against the **Insured** and reported to the Company in writing during the **Policy Period**, or during the **Extended Reporting Period** if applicable.

COVERAGE B - ON-SITE CLEAN-UP OF NEW CONDITIONS

1. To pay on behalf of the **Insured**, **Clean-Up Costs** resulting from **Pollution Conditions** on or under the **Insured Property** that commenced on or after the **Continuity Date**, if such **Pollution Conditions** are discovered by the **Insured** during the **Policy Period**, provided:
 - (a) The discovery of such **Pollution Conditions** is reported to the Company in writing as soon as possible after discovery by the **Insured** and in any event during the **Policy Period** in accordance with Section III. of the Policy.

Discovery of **Pollution Conditions** happens when a **Responsible Insured** becomes aware of **Pollution Conditions**.
 - (b) Where required, such **Pollution Conditions** have been reported to the appropriate governmental agency in substantial compliance with applicable **Environmental Laws** in effect as of the date of discovery.

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NOTICE: THIS INSURER IS NOT LICENSED IN THE STATE OF NEW YORK AND IS NOT SUBJECT TO ITS SUPERVISION

2. To pay on behalf of the Insured, Loss that the Insured is legally obligated to pay as a result of Claims for Clean-Up Costs resulting from Pollution Conditions on or under the Insured Property that commenced on or after the Continuity Date, provided such Claims are first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable.

COVERAGE C - THIRD-PARTY CLAIMS FOR ON-SITE BODILY INJURY AND PROPERTY DAMAGE

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of Claims for Bodily Injury or Property Damage resulting from Pollution Conditions on or under the Insured Property, if such Bodily Injury or Property Damage takes place while the person injured or property damaged is on the Insured Property, provided such Claims are first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable.

COVERAGE D - THIRD-PARTY CLAIMS FOR OFF-SITE CLEAN-UP RESULTING FROM PRE-EXISTING CONDITIONS

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of Claims for Clean-Up Costs resulting from Pollution Conditions, beyond the boundaries of the Insured Property, that commenced prior to the Continuity Date, and migrated from the Insured Property, provided such Claims are first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable.

COVERAGE E - THIRD-PARTY CLAIMS FOR OFF-SITE CLEAN-UP RESULTING FROM NEW CONDITIONS

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of Claims for Clean-Up Costs resulting from Pollution Conditions, beyond the boundaries of the Insured Property, that commenced on or after the Continuity Date, and migrated from the Insured Property, provided such Claims are first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable.

COVERAGE F - THIRD-PARTY CLAIMS FOR OFF-SITE BODILY INJURY AND PROPERTY DAMAGE

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of Claims for Bodily Injury or Property Damage resulting from Pollution Conditions, beyond the boundaries of the Insured Property, that migrated from the Insured Property, provided such Claims are first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable.

COVERAGE G - THIRD-PARTY CLAIMS FOR ON-SITE BODILY INJURY, PROPERTY DAMAGE OR CLEAN-UP COSTS - NON-OWNED LOCATIONS

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of Claims for Bodily Injury or Property Damage of parties other than the owners, operators or contractors of the Non-Owned Location, or their employees, or Clean-Up Costs resulting from Pollution Conditions on or under the Non-Owned Location, provided such Claims are first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable.

COVERAGE H - THIRD-PARTY CLAIMS FOR OFF-SITE BODILY INJURY, PROPERTY DAMAGE OR CLEAN-UP COSTS - NON-OWNED LOCATIONS

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of Claims for Bodily Injury, Property Damage or Clean-Up Costs resulting from Pollution Conditions, beyond the boundaries of the Non-Owned Location, that migrated from the Non-Owned Location, provided such Claims are first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable.

COVERAGE I - POLLUTION CONDITIONS RESULTING FROM TRANSPORTED CARGO

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of Claims for Bodily Injury, Property Damage or Clean-Up Costs resulting from Pollution Conditions caused by Transported Cargo, provided such Claims are first made against the Insured and reported to the Company in

writing during the **Policy Period**, or during the **Extended Reporting Period** if applicable. This coverage shall not be utilized to evidence financial responsibility of any **Insured** under any federal, state, provincial or local law.

COVERAGE J - BUSINESS INTERRUPTION COVERAGE - ACTUAL LOSS OR RENTAL VALUE (ONLY AVAILABLE IF COVERAGE A, COVERAGE B OR BOTH COVERAGES A AND B ARE PURCHASED)

To pay the **Insured's Actual Loss** or loss of **Rental Value**, and **Extra Expense** to the extent it reduces **Actual Loss** or loss of **Rental Value** otherwise payable under this coverage section, resulting from an **Interruption** caused directly by **Pollution Conditions** on or under the **Insured Property**. If the **Interruption** is caused by such **Pollution Conditions** and any other cause, the Company shall pay only for that portion of **Actual Loss** or loss of **Rental Value**, and **Extra Expense** resulting from an **Interruption** caused solely and directly by such **Pollution Conditions**.

1. Such **Pollution Conditions** must:

- (a) (i) commence prior to the **Continuity Date**, if the **Named Insured** has purchased Coverage A, under this Policy; or
- (ii) commence on or after the **Continuity Date**, if the **Named Insured** has purchased Coverage B, under this Policy; and

(b) be first discovered by the **Insured** during the **Policy Period**. Discovery of **Pollution Conditions** happens when a **Responsible Insured** becomes aware of **Pollution Conditions**.

2. An **Interruption** must be reported to the Company, no later than thirty (30) days after its commencement. The **Insured** shall, as soon as practicable, resume normal operation of the business and disperse with **Extra Expense**.

3. In determining **Actual Loss** or loss of **Rental Value**, the Report/Worksheet annexed to this Policy and made a part of it shall be utilized. If the **Insured** could reduce the **Actual Loss** or loss of **Rental Value**, or **Extra Expense** resulting from an **Interruption**:

- (a) by complete or partial resumption of operations; or
- (b) by making use of other property at the **Insured Property**, or elsewhere,

such reductions shall be taken into account in arriving at **Actual Loss** or loss of **Rental Value** or **Extra Expense**.

2. **LEGAL EXPENSE AND DEFENSE**

The Company shall have the right and the duty to defend any **Claims** covered under Coverages A through I provided the **Named Insured** has purchased such Coverage. The Company's duty to defend or continue defending any such **Claim**, and to pay any **Loss**, shall cease once the applicable limit of liability, as described in Section V. LIMITS OF COVERAGE; DEDUCTIBLE has been exhausted. Defense costs, charges and expenses are included in **Loss** and reduce the applicable limit of liability, as described in Section V., and are included within the Deductible amount for the Coverage Section that applies and is shown in Item 3 of the Declarations.

The Company will present any settlement offers to the **Insured**, and if the **Insured** refuses to consent to any settlement within the limits of liability of this Policy recommended by the Company and acceptable to the claimant, the Company's duty to defend the **Insured** shall then cease and the **Insured** shall thereafter negotiate or defend such **Claim** independently of the Company and the Company's liability shall not exceed the amount, less the Deductible or any outstanding Deductible balance, for which the **Claim** could have been settled if such recommendation was consented to.

3. **INDEPENDENT COUNSEL**

In the event the **Insured** is entitled by law to select independent counsel to defend the **Insured** at the Company's expense, the attorney fees and all other litigation expenses the Company must pay to that counsel are limited to the rates the Company would actually pay to counsel that the Company retains in the

ordinary course of business in the defense of similar Claims in the community where the Claim arose or is being defended.

Additionally, the Company may exercise the right to require that such counsel have certain minimum qualifications with respect to their competency, including experience in defending Claims similar to the one pending against the Insured, and to require such counsel to have errors and omissions insurance coverage. As respects any such counsel, the Insured agrees that counsel will timely respond to the Company's request for information regarding the Claim. The Insured may at any time, by its signed consent, freely and fully waive its right to select independent counsel.

II. EXCLUSIONS

1. COMMON EXCLUSIONS - APPLICABLE TO ALL COVERAGES

This Policy does not apply to **Clean-Up Costs, Claims, Loss, Actual Loss, Extra Expense, or loss of Rental Value:**

A. CRIMINAL FINES, PENALTIES, AND ASSESSMENTS:

Due to any criminal fines, penalties or assessments.

B. CONTRACTUAL LIABILITY:

Arising from liability of others assumed by the Insured under any contract or agreement, unless the liability of the Insured would have attached in the absence of such contract or agreement or the contract or agreement is an Insured Contract.

C. TRANSPORTATION:

Except with respect to Coverage I, arising out of **Pollution Conditions** that result from the maintenance, use, operation, loading or unloading of any conveyance beyond the boundaries of the Insured Property.

D. INTENTIONAL NONCOMPLIANCE:

Arising from **Pollution Conditions** based upon or attributable to any **Responsible Insured's** intentional, willful or deliberate noncompliance with any statute, regulation, ordinance, administrative complaint, notice of violation, notice letter, executive order, or instruction of any governmental agency or body.

E. INTERNAL EXPENSES:

For costs, charges or expenses incurred by the Insured for goods supplied or services performed by the staff or salaried employees of the Insured, or its parent, subsidiary or affiliate, except if in response to an emergency or pursuant to **Environmental Laws** that require immediate remediation of **Pollution Conditions**, or unless such costs, charges or expenses are incurred with the prior written approval of the Company in its sole discretion.

F. INSURED vs. INSURED:

By any Insured against any other person or entity who is also an Insured under this Policy. This exclusion does not apply to Claims initiated by third parties or Claims that arise out of an indemnification given by one Named Insured to another Named Insured in an Insured Contract .

G. ASBESTOS AND LEAD:

Solely with respect to Coverages A, B, D, E, G, H and J, arising from asbestos or any asbestos-containing materials or lead-based paint installed or applied in, on or to any building or other structure. This exclusion does not apply to **Clean-Up Costs** for the remediation of soil and groundwater.

H. EMPLOYER LIABILITY:

Arising from **Bodily Injury** to an **Insured** or its parent, subsidiary or affiliate arising out of and in the course of employment by the **Insured** or its parent, subsidiary or affiliate. This exclusion applies whether the **Insured** may be liable as an employer or in any other capacity and to any obligation to share damages with or repay third parties who must pay damages because of the injury.

I. PRIOR KNOWLEDGE/NON-DISCLOSURE:

Arising from **Pollution Conditions** existing prior to the **Inception Date** and known by a **Responsible Insured** and not disclosed in the application for this Policy, or any previous policy for which this Policy is a renewal thereof.

J. IDENTIFIED UNDERGROUND STORAGE TANK:

Arising from **Pollution Conditions** resulting from an **Underground Storage Tank** whose existence is known by a **Responsible Insured** as of the **Inception Date** and which is located on the **Insured Property** unless such **Underground Storage Tank** is scheduled on the Policy by endorsement.

2. COVERAGE I EXCLUSIONS

The following exclusions apply to Coverage I.

This Policy does not apply to **Loss**:

A. PROPERTY DAMAGE TO CONVEYANCES:

For **Property Damage** to any conveyance utilized during the **Transportation of Transported Cargo**. This exclusion does not apply to **Claims** made by third-party carriers of the **Insured** for such **Property Damage** arising from the **Insured's** negligence.

B. POLLUTION CONDITIONS PRIOR OR SUBSEQUENT TO TRANSPORTATION OF CARGO:

Arising from **Pollution Conditions**:

1. That commence prior to the **Transportation of Transported Cargo**; or
2. That commence after **Transported Cargo** reaches its final destination, or while **Transported Cargo** is in storage off-loaded from the conveyance that was transporting it.

C. THIRD-PARTY CARRIER CLAIMS:

Made by a third-party carrier, its agents or employees, for **Bodily Injury, Property Damage or Clean-Up Costs**, whether or not the **Bodily Injury, Property Damage or Clean-Up Costs** were directly incurred by such third-party carrier. This exclusion does not apply to **Claims** arising from the **Insured's** negligence.

III. NOTICE REQUIREMENTS AND CLAIM PROVISIONS

The **Insured** shall provide the Company with notice of **Pollution Conditions, Claims** or an **Interruption** as follows:

A. NOTICE OF POLLUTION CONDITIONS, CLAIMS AND AN INTERRUPTION

1. In the event of **Pollution Conditions** or **Claims** under Coverages A through I, or an **Interruption** under Coverage J, the **Insured** shall give written notice to:

Manager, Pollution Insurance Products Dept.
Chartis Claims, Inc.
Attn.: CID
101 Hudson Street, 31st Floor
Jersey City, NJ 07302
Fax: 866-260-0104
Email: severityfnol@chartisinsurance.com

or other address(es) as substituted by the Company in writing.

2. The Insured shall give written notice of **Pollution Conditions** as soon as possible. Notice under all coverages shall include, at a minimum, information sufficient to identify the **Named Insured**, the **Insured Property**, the names of persons with knowledge of the **Pollution Conditions** and all known and reasonably obtainable information regarding the time, place, cause, nature of and other circumstances of the **Pollution Conditions**.
3. The Insured shall give notice of **Claims** as soon as possible, but in any event during the **Policy Period** or during the **Extended Reporting Period**, if applicable. The Insured shall furnish information at the request of the Company. When a **Claim** has been made, the Insured shall forward the following to the Company as soon as possible:
 - (a) All reasonably obtainable information with respect to the time, place and circumstances thereof, and the names and addresses of the claimant(s) and available witnesses.
 - (b) All demands, summonses, notices or other process or papers filed with a court of law, administrative agency or an investigative body.
 - (c) Other information in the possession of the Insured or its hired experts which the Company reasonably deems necessary.

B. NOTICE OF POSSIBLE CLAIM

1. If during the **Policy Period**, the Insured first becomes aware of a **Possible Claim**, the Insured may provide written notice to the Company during the **Policy Period** containing all the information required under Paragraph 2. below. Any **Possible Claim** which subsequently becomes a **Claim** made against the Insured and reported to the Company within five (5) years after the end of the **Policy Period** of this Policy or any continuous, uninterrupted renewal thereof, shall be deemed to have been first made and reported during the **Policy Period** of this Policy. Such **Claim** shall be subject to the terms, conditions and limits of coverage of the policy under which the **Possible Claim** was reported.
2. It is a condition precedent to the coverage afforded by this Section III. B that written notice under Paragraph 1. above contain all of the following information: (a) the cause of the **Pollution Conditions**; (b) the **Insured Property** or other location where the **Pollution Conditions** took place; (c) the **Bodily Injury, Property Damage or Clean-Up Costs** which has resulted or may result from such **Pollution Conditions**; (d) the Insured(s) which may be subject to the **Claim** and any potential claimant(s); (e) all engineering information available on the **Pollution Conditions** and any other information that the Company deems reasonably necessary; and (f) the circumstances by which and the date the Insured first became aware of the **Possible Claim**.

IV. RIGHTS OF THE COMPANY AND DUTIES OF THE INSURED IN THE EVENT OF POLLUTION CONDITIONS

A. The Company's Rights

The Company shall have the right but not the duty to clean up or mitigate **Pollution Conditions** upon receiving notice as provided in Section III. of this Policy. Any sums expended in taking such action by the Company will be deemed incurred or expended by the Insured and shall be applied against the limits of coverage and deductible under this Policy.

B. Duties of the Insured

The **Named Insured** shall have the duty to clean up **Pollution Conditions** to the extent required by **Environmental Law**, by retaining competent professional(s) or contractor(s) mutually acceptable to the Company and the **Named Insured**. The Company shall have the right but not the duty to review and approve all aspects of any such clean-up. The **Named Insured** shall notify the Company of actions and measures taken pursuant to this paragraph.

V. LIMITS OF COVERAGE; DEDUCTIBLE

Regardless of the number of **Claims**, claimants, **Pollution Conditions** or **Insureds** under this Policy, the following limits of liability apply:

A. Policy Aggregate Limit

The Company's total liability for all **Loss**, under Coverages A through I, and all **Actual Loss**, loss of **Rental Value** and **Extra Expense** under Coverage J, shall not exceed the "Policy Aggregate" stated in Item 4 of the Declarations. The Company's internal expenses do not erode the limit of liability available for any **Loss**.

B. Each Incident Limit - Coverages A Through I

1. Subject to Paragraph V.A. above, the most the Company will pay for all **Loss** under each Coverage in Coverages A through I arising from the same, related or continuous **Pollution Conditions** is the "Each Incident" limit of coverage for that particular coverage stated in Item 3 of the Declarations.
2. If the **Insured** first discovers **Pollution Conditions** during the **Policy Period** and reports them to the Company in accordance with Section III., all continuous or related **Pollution Conditions** reported to the Company under a subsequent Pollution Legal Liability Policy issued by the Company or its affiliate providing substantially the same coverage as this Policy shall be deemed to have been first discovered and reported during the **Policy Period**.
3. If a **Claim** for **Bodily Injury**, **Property Damage**, or **Clean-Up Costs** is first made against the **Insured** and reported to the Company during the **Policy Period**, all **Claims** for **Bodily Injury**, **Property Damage** or **Clean-Up Costs**, arising from the same, continuous or related **Pollution Conditions** that are first made against the **Insured** and reported under a subsequent Pollution Legal Liability Policy issued by the Company or its affiliate providing substantially the same coverage as this Policy, shall be deemed to have been first made and reported during the **Policy Period**. Coverage under this Policy for such **Claims** shall not apply, however, unless at the time such **Claims** are first made and reported, the **Insured** has maintained with the Company or its affiliate Pollution Legal Liability coverage substantially the same as this coverage on a continuous, uninterrupted basis since the first such **Claim** was made against the **Insured** and reported to the Company.

C. Coverage Section Aggregate Limit

Subject to Paragraph V. A. above, the Company's total liability for all **Loss** under each Coverage in Coverages A through I, shall not exceed the "Coverage Section Aggregate" limit of coverage for that particular coverage stated in Item 3 of the Declarations.

D. Maximum for All Business Interruption

Subject to Paragraph V. A. above, the maximum amount for which the Company is liable for all **Actual Loss** or loss of **Rental Value**, and **Extra Expense** under Coverage J is 80% of the lesser of:

1. The **Actual Loss** and **Extra Expense**, or loss of **Rental Value** and **Extra Expense**, whichever is applicable, incurred during the number of days of interruption of business stated in Item 3 of the Declarations; and
2. The amount stated in Item 3 of the Declarations.

It is a condition of Coverage J that the remaining 20% of such amount be borne by the **Insured** at its own risk and remain uninsured.

E. Multiple Coverages

Subject to Paragraph V. A. above, if the same, related or continuous **Pollution Conditions** result in coverage under more than one Coverage under Coverages A through J, every applicable "Each Incident," "Coverage Section Aggregate," and "Maximum for All Business Interruption" limit of coverage

among such coverage sections shall apply to the **Clean-Up Costs, Loss, Actual Loss and Extra Expense**, or loss of **Rental Value** and **Extra Expense**, whichever is applicable, resulting from such **Pollution Conditions**.

F. Deductible

1. Coverages A through I

Subject to Paragraphs V. A. through V.E. above, this Policy is to pay covered **Loss** in excess of the Deductible amount stated in Item 3 of the Declarations for the applicable coverage, up to but not exceeding the applicable "Each Incident" limit of coverage.

If the same, related or continuous **Pollution Conditions** result in coverage under more than one coverage section in Coverages A through I, only the highest Deductible amount stated in Item 3 of the Declarations among all the coverage sections applicable to the **Loss** will apply.

The **Insured** shall promptly reimburse the Company for advancing any element of **Loss** falling within the Deductible.

2. Coverage J

Subject to Paragraphs V.A. through V.E. above, this Policy is to pay the **Actual Loss** or loss of **Rental Value**, and **Extra Expense** under Coverage J in excess of the **Actual Loss** or loss of **Rental Value**, and **Extra Expense** sustained during the first seven (7) days of an **Interruption** during the **Period of Restoration**. The seven (7) day period applies to all **Actual Loss**, or loss of **Rental Value**, and **Extra Expense** arising from the same, related or continuous **Pollution Conditions**.

V. CONDITIONS

- A. **Assignment** - This Policy may be assigned with the prior written consent of the Company, which consent shall not be unreasonably withheld or delayed. Assignment of interest under this Policy shall not bind the Company until its consent is endorsed thereon.
- B. **Subrogation** - In the event of any payment under this Policy, the Company shall be subrogated to all the **Insured's** rights of recovery therefor against any person or organization and the **Insured** shall execute and deliver instruments and papers and do whatever else is necessary to secure such rights including without limitation, assignment of the **Insured's** rights against any person or organization who caused **Pollution Conditions** on account of which the Company made any payment under this Policy. The **Insured** shall do nothing to prejudice the Company's rights under this paragraph subsequent to **Loss**. Any recovery as a result of subrogation proceedings arising out of the payment of **Loss** covered under this Policy shall accrue first to the **Insured** to the extent of any payments in excess of the limit of coverage; then to the Company to the extent of its payment under the Policy; and then to the **Insured** to the extent of its Deductible. Expenses incurred in such subrogation proceedings shall be apportioned among the interested parties in the recovery in the proportion that each interested party's share in the recovery bears to the total recovery.
- C. **Cooperation** - The **Insured** shall cooperate with the Company and offer all reasonable assistance in the investigation and defense of **Claims** under the applicable Coverages purchased. The Company may require that the **Insured** submit to examination under oath, and attend hearings, depositions and trials. In the course of investigation or defense, the Company may require written statements or the **Insured's** attendance at meetings with the Company. The **Insured** must assist the Company in effecting settlement, securing and providing evidence and obtaining the attendance of witnesses.
- D. **Changes** - Notice to any agent or knowledge possessed by any agent or by any other person shall not effect a waiver or a change in any part of this Policy or estop the Company from asserting any rights under the terms of this Policy; nor shall the terms of this Policy be waived or changed, except by endorsement issued to form a part of this Policy.

- E. Voluntary Payments** - No Insured shall voluntarily enter into any settlement, or make any payment or assume any obligation unless in response to an emergency or pursuant to **Environmental Laws** that require immediate remediation of **Pollution Conditions**, without the Company's consent which shall not be unreasonably withheld, except at the **Insured's** own cost.
- F. Concealment or Fraud** - This entire Policy shall be void if, whether before or after **Clean-Up Costs** are incurred or a **Claim** is first made, the **Named Insured** has willfully concealed or misrepresented any fact or circumstance material to the granting of coverage under this Policy, the description of the **Insured Property**, or the interest of the **Insured** therein.
- G. Cancellation** - This Policy may be cancelled by the **Named Insured** by surrender thereof to the Company or any of its authorized agents or by mailing to the Company written notice stating when thereafter the cancellation shall be effective. This Policy may be cancelled by the Company only for the reasons stated below by mailing to the **Named Insured** at the address shown in the Policy, written notice stating when not less than 60 days (10 days for nonpayment of premium) thereafter such cancellation shall be effective. Proof of mailing of such notice shall be sufficient proof of notice.
1. Material misrepresentation by the **Insured**;
 2. The **Insured's** failure to comply with the material terms, conditions or contractual obligations under this Policy, including failure to pay any premium or Deductible when due;
 3. A change in operations at an **Insured Property** during the **Policy Period** that materially increases a risk covered under this Policy.

The time of surrender or the effective date and hour of cancellation stated in the notice shall become the end of the **Policy Period**. Delivery of such written notice either by the **Named Insured** or by the Company shall be equivalent to mailing. If the **Named Insured** cancels, earned premium shall be computed in accordance with the customary short rate table and procedure. If the Company cancels, earned premium shall be computed pro-rata. Premium adjustment may be either at the time cancellation is effected or as soon as practicable after cancellation becomes effective, but payment or tender of unearned premium is not a condition of cancellation.

- H. Other Insurance** - Where other insurance may be available for **Loss, Actual Loss** or loss of **Rental Value**, and **Extra Expense** covered under this Policy, the **Insured** shall promptly upon request of the Company provide the Company with copies of all such policies. If other valid and collectible insurance is available to the **Insured** for **Loss Actual Loss** or loss of **Rental Value**, and **Extra Expense** covered by this Policy, the Company's obligations are limited as follows:
1. This insurance is primary, and the Company's obligations are not affected unless any of the other insurance is also primary. In that case, the Company will share with all such other insurance by the method described in Paragraph 2. below.
 2. If all of the other insurance permits contribution by equal shares, the Company will follow this method also. Under this approach each insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the loss remains, whichever comes first. If any of the other insurance does not permit contribution by equal shares, the Company will contribute by limits. Under this method, each insurer's share is based on the ratio of its applicable limit of insurance to the total applicable limits of insurance of all insurers.
- I. Right of Access and Inspection** - To the extent the **Insured** has such rights, any of the Company's authorized representatives shall have the right and opportunity but not the obligation to interview persons employed by the **Insured** and to inspect at any reasonable time, during the **Policy Period** or thereafter, the **Insured Property**. Neither the Company nor its representatives shall assume any responsibility or duty to the **Insured** or to any other party, person or entity, by reason of such right or inspection. Neither the Company's right to make inspections, sample and monitor, nor the actual undertaking thereof nor any report thereon shall constitute an undertaking on behalf of the **Insured** or others, to determine or warrant that property or operations are safe, healthful or conform to acceptable engineering practices or are in compliance with any law, rule or regulation. The **Named Insured** agrees to provide appropriate personnel to assist the Company's representatives during any inspection.

J. Access to Information - The Named Insured agrees to provide the Company with access to any information developed or discovered by the Insured concerning Loss covered under this Policy, whether or not deemed by the Insured to be relevant to such Loss and to provide the Company access to interview any Insured and review any documents of the Insured.

K. Representations - By acceptance of this Policy, the Named Insured agrees that the statements in the Declarations, the Application and the Report/Worksheet are their agreements and representations, that this Policy is issued in reliance upon the truth of such representations and that this Policy embodies all agreements existing between the Insured and the Company or any of its agents relating to this insurance.

L. Action Against Company - No third-party action shall lie against the Company, unless as a condition precedent thereto there shall have been full compliance with all of the terms of this Policy, nor until the amount of the Insured's obligation to pay shall have been finally determined either by judgment against the Insured after actual trial or by written agreement of the Insured, the claimant and the Company.

Any person or organization or the legal representative thereof who has secured such judgment or written agreement shall thereafter be entitled to recover under this Policy to the extent of the insurance afforded by the Policy. No person or organization shall have any right under this Policy to join the Company as a party to any action against the Insured to determine the Insured's liability, nor shall the Company be impleaded by the Insured or his legal representative. Bankruptcy or insolvency of the Insured or of the Insured's estate shall not relieve the Company of any of its obligations hereunder.

M. Arbitration - It is hereby understood and agreed that all disputes or differences that may arise under or in connection with this Policy, whether arising before or after termination of this Policy, including any determination of the amount of Loss, may be submitted to the American Arbitration Association under and in accordance with its then prevailing commercial arbitration rules. The arbitrators shall be chosen in the manner and within the time frames provided by such rules. If permitted under such rules, the arbitrators shall be three disinterested individuals having knowledge of the legal, corporate management, or insurance issues relevant to the matters in dispute.

Any party may commence such arbitration proceeding and the arbitration shall be conducted in the Insured's state of domicile. The arbitrators shall give due consideration to the general principles of the law of the Insured's state of domicile in the construction and interpretation of the provisions of this Policy; provided, however, that the terms, conditions, provisions and exclusions of this Policy are to be construed in an evenhanded fashion as between the parties. Where the language of this Policy is alleged to be ambiguous or otherwise unclear, the issue shall be resolved in the manner most consistent with the relevant terms, conditions, provisions or exclusions of the Policy (without regard to the authorship of the language, the doctrine of reasonable expectation of the parties and without any presumption or arbitrary interpretation or construction in favor of either party or parties, and in accordance with the intent of the parties).

The written decision of the arbitrators shall set forth its reasoning, shall be provided simultaneously to both parties and shall be binding on them. The arbitrators' award shall not include attorney fees or other costs. Judgment on the award may be entered in any court of competent jurisdiction. Each party shall bear equally the expenses of the arbitration.

N. Service Of Suit - Subject to Paragraph M. above, it is agreed that in the event of failure of the Company to pay any amount claimed to be due hereunder, the Company, at the request of the Insured, will submit to the jurisdiction of a court of competent jurisdiction within the United States. Nothing in this condition constitutes or should be understood to constitute a waiver of the Company's rights to commence an action in any court of competent jurisdiction in the United States, to remove an action to a United States District Court, or to seek a transfer of a case to another court as permitted by the laws of the United States or of any state in the United States. It is further agreed that service of process in such suit may be made upon Counsel, Legal Department, Chartis Specialty Insurance Company, 175 Water Street, New York, New York 10038, or his or her representative, and that in any suit instituted against the Company upon this contract, the Company will abide by the final decision of such court or of any appellate court in the event of any appeal.

Further, pursuant to any statute of any state, territory, or district of the United States which makes provision therefor, the Company hereby designates the Superintendent, Commissioner, Director of Insurance, or other officer specified for that purpose in the statute, or his or her successor or successors in office as its true and lawful attorney upon whom may be served any lawful process in any action, suit or proceeding instituted by or on behalf of the **Insured** or any beneficiary hereunder arising out of this contract of insurance, and hereby designates the above named Counsel as the person to whom the said officer is authorized to mail such process or a true copy thereof.

- O. Acknowledgment of Shared Limits** - By acceptance of this Policy, the **Named Insureds** understand, agree and acknowledge that the Policy contains a Policy Aggregate Limit that is applicable to, and will be shared by, all **Named Insureds** and all other **Insureds** who are or may become insured hereunder. In view of the operation and nature of this shared Policy Aggregate Limit, the **Named Insureds** and all other **Insureds** understand and agree that prior to filing a **Claim** under the Policy, the Policy Aggregate Limit may be exhausted or reduced by prior payments for other **Claims** under the Policy.
- P. Separation of Insureds** - It is hereby agreed that except with respect to the Limit of Liability, Section II. F. (Insured vs. Insured exclusion), and any rights and duties specifically assigned to the first **Named Insured**, this insurance applies: 1. As if each **Named Insured** were the only **Named Insured**; and 2. Separately to each **Named Insured** against who a **Claim** is made. Misrepresentation, concealment, breach of a term or condition, or violation of any duty under this Policy by one **Named Insured** shall not prejudice the interest of coverage for another **Named Insured** under this Policy. Provided, however, that this Condition shall not apply to any **Named Insured** who is a parent, subsidiary or affiliate of the first **Named Insured**.

VI. EXTENDED REPORTING PERIOD FOR CLAIMS - COVERAGES A THROUGH I

The **Named Insured** shall be entitled to an **Automatic Extended Reporting Period**, and (with certain exceptions as described in Paragraph B. of this Section) be entitled to purchase an **Optional Extended Reporting Period** for Coverages A through I collectively, upon termination of coverage as defined in Paragraph B.3. of this Section. Neither the **Automatic** nor the **Optional Extended Reporting Period** shall reinstate or increase any of the limits of liability of this Policy.

A. Automatic Extended Reporting Period

Provided that the **Named Insured** has not purchased any other insurance to replace this insurance and which applies to a **Claim** otherwise covered hereunder, the **Named Insured** shall have the right to the following: a period of sixty (60) days following the effective date of such termination of coverage in which to provide written notice to the Company of **Claims** first made and reported within the **Automatic Extended Reporting Period**.

A **Claim** first made and reported within the **Automatic Extended Reporting Period** will be deemed to have been made on the last day of the **Policy Period**, provided that the **Claim** arises from **Pollution Conditions** that commenced before the end of the **Policy Period** and is otherwise covered by this Policy. No part of the **Automatic Extended Reporting Period** shall apply if the **Optional Extended Reporting Period** is purchased.

B. Optional Extended Reporting Period

The **Named Insured** shall be entitled to purchase an **Optional Extended Reporting Period** upon termination of coverage as defined herein (except in the event of nonpayment of premium), as follows:

1. A **Claim** first made and reported within the **Optional Extended Reporting Period**, if purchased in accordance with the provisions contained in Paragraph 2. below, will be deemed to have been made on the last day of the **Policy Period**, provided that the **Claim** arises from **Pollution Conditions** that commenced before the end of the **Policy Period** and is otherwise covered by this Policy.
2. The Company shall issue an endorsement providing an **Optional Extended Reporting Period** of up to forty (40) months from termination of coverage hereunder for all **Insured Properties** and **Non-Owned Locations**, if applicable, or any specific **Insured Property** or **Non-Owned Location**, provided that the **Named Insured**:

- (a) makes a written request for such endorsement which the Company receives within thirty (30) days after termination of coverage as defined herein; and
 - (b) pays the additional premium when due. If that additional premium is paid when due, the **Extended Reporting Period** may not be cancelled, provided that all other terms and conditions of the Policy are met.
3. Termination of coverage occurs at the time of cancellation or nonrenewal of this Policy by the **Named Insured** or by the Company, or at the time of the Company's deletion of a location which previously was an **Insured Property or Non-Owned Location**.
 4. The **Optional Extended Reporting Period** is available to the **Named Insured** for not more than 200% of the full Policy premium stated in the Declarations.

VIII. DEFINITIONS

A. **Actual Loss** means the:

1. Net income (net profit or loss before income taxes) the **Insured** would have earned or incurred had there been no **Interruption**; and
2. Continuing normal operating expenses incurred, including **Ordinary Payroll Expense**.

B. **Bodily Injury** means physical injury, or sickness, disease, mental anguish or emotional distress, sustained by any person, including death resulting therefrom.

C. **Claim** means a written demand received by the **Insured** seeking a remedy or alleging liability or responsibility on the part of the **Insured** for **Loss** under Coverages A through I. For purposes of this Policy, a **Claim** does not include a **Possible Claim** that was reported under a prior policy but which has become a **Claim** during the **Policy Period** of this Policy as described in Section III. B.

D. **Clean-Up Costs** means reasonable and necessary expenses, including legal expenses incurred with the Company's written consent which consent shall not be unreasonably withheld or delayed, for the investigation, removal, remediation including associated monitoring, or disposal of soil, surfacewater, groundwater or other contamination:

1. To the extent required by **Environmental Laws**; or
2. That have been actually incurred by the government or any political subdivision of the United States of America or any state thereof or Canada or any province thereof, or by third parties.

Clean-Up Costs also include **Restoration Costs**.

E. **Continuity Date** means the date stated in Item 8 of the Declarations.

F. **Environmental Laws** means any federal, state, provincial or local laws (including, but not limited to, statutes, rules, regulations, ordinances, guidance documents, and governmental, judicial or administrative orders and directives) that are applicable to **Pollution Conditions**.

G. **Extended Reporting Period** means either the automatic additional period of time or the optional additional period of time, whichever is applicable, in which to report **Claims** following termination of coverage, as described in Section VII. of this Policy.

H. **Extra Expense** means necessary expenses the **Insured** incurs during the **Period of Restoration**:

1. That would not have been incurred if there had not been an **Interruption**; and
2. That avoid or minimize an **Interruption**,

but only to the extent such expenses reduce **Actual Loss** or loss of **Rental Value**, whichever is applicable, otherwise covered under this Policy.

Extra Expense will be reduced by any salvage value of property obtained for temporary use during the **Period of Restoration** that remains after the resumption of normal operations.

- I. **Inception Date** means the first date set forth in Item 2 of the Declarations.
- J. **Insured** means the **Named Insured**, and any past or present director, officer, partner or employee thereof, including a temporary or leased employee, while acting within the scope of his or her duties as such.
- K. **Insured Contract** means a contract or agreement submitted to and approved by the Company, and listed on an Endorsement to this Policy.
- L. **Insured Property** means each of the locations identified in Item 5 of the Declarations.
- M. **Interruption** means the necessary suspension of the **Insured's** business operations at an **Insured Property** during the **Period of Restoration**.
- N. **Loss** means, under the applicable Coverages:
 - 1. Monetary awards or settlements of compensatory damages; where allowable by law, punitive, exemplary, or multiple damages; and civil fines, penalties, or assessments for **Bodily Injury** or **Property Damage**;
 - 2. Costs, charges and expenses incurred in the defense, investigation or adjustment of **Claims** for such compensatory damages or punitive, exemplary or multiple damages, and civil fines, penalties or assessments, or for **Clean-Up Costs**; or
 - 3. **Clean-Up Costs**.
- O. **Named Insured** means the person or entity named in Item 1 of the Declarations acting on behalf of all other **Insureds**, if any, for the payment or return of any premium, payment of any deductible, receipt and acceptance of any endorsement issued to form a part of this Policy, giving and receiving notice of cancellation or nonrenewal, and the exercise of the rights provided in the **Extended Reporting Period** clause.
- P. **Natural Resource Damage** means physical injury to or destruction of, including the resulting loss of value of, land, fish, wildlife, biota, air, water, groundwater, drinking water supplies, and other such resources belonging to, managed by, held in trust by, appertaining to, or otherwise controlled by the United States (including the resources of the fishery conservation zone established by the Magnuson-Stevens Fishery Conservation and Management Act (16 U.S.C. 1801 et seq.)), any state or local government, any foreign government, any Indian tribe, or, if such resources are subject to a trust restriction on alienation, any member of an Indian tribe.
- Q. **Non-Owned Location** means a site that is not owned or operated by the **Named Insured**, and that is identified in a Non-Owned Covered Locations Schedule attached to and made a part of this Policy by endorsement.
- R. **Ordinary Payroll Expense** means the entire payroll expense for all employees of the **Insured**, except officers, executives, department managers and employees under contract.
- S. **Period of Restoration** means the length of time as would be required with the exercise of due diligence and dispatch to restore the **Insured Property** to a condition that allows the resumption of normal business operations, commencing with the date operations are interrupted by **Pollution Conditions** and not limited by the date of expiration of the **Policy Period**. The **Period of Restoration** does not include any time caused by the interference by employees or other persons with restoring the property, or with the resumption or continuation of operations.
- T. **Policy Period** means the period set forth in Item 2 of the Declarations, or any shorter period arising as a result of:
 - 1. Cancellation of this Policy; or

2. With respect to particular **Insured Property(s)** or **Non-Owned Location(s)** designated in the Declarations, the deletion of such location(s) from this Policy by the Company at the **Named Insured's** written request, but solely with respect to that **Insured Property** or **Non-Owned Location**.

U. Pollution Conditions means the discharge, dispersal, release or escape of any solid, liquid, gaseous or thermal irritant or contaminant, including, but not limited to, smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, medical waste and waste materials into or upon land, or any structure on land, the atmosphere or any watercourse or body of water, including groundwater, provided such conditions are not naturally present in the environment in the amounts or concentrations discovered.

V. Possible Claim means **Pollution Conditions** that commenced on or after the **Inception Date** that the **Insured** reasonably expects may result in a **Claim**.

W. Property Damage means:

1. Except with respect to Coverage C, physical injury to or destruction of tangible property of parties other than the **Insured**, including the resulting loss of use and diminution in value thereof;
2. Loss of use, but not diminution in value, of tangible property of parties other than the **Insured** that has not been physically injured or destroyed;
3. Solely with respect to Coverage C, physical injury to or destruction of tangible property of parties other than the **Insured**, including the resulting loss of use thereof; and
4. **Natural Resource Damage**.

Property Damage does not include **Clean-Up Costs**.

X. Rental Value means the:

1. Total anticipated rental income from tenant occupancy of the **Insured Property** as furnished and equipped by the **Insured**;
2. Amount of all charges that are the legal obligation of the tenant(s) pursuant to a lease and that would otherwise be the **Insured's** obligations; and
3. Fair rental value of any portion of the **Insured Property** that is occupied by the **Insured** during the **Period of Restoration**, less any rental income the **Insured** could earn:
 - (a) by complete or partial rental of the **Insured Property**, or
 - (b) by making use of other property on the **Insured Property** or elsewhere.

Y. Responsible Insured means the manager or supervisor of the **Named Insured** responsible for environmental affairs, control or compliance, or any manager of the **Insured Property**, or any officer, director or partner of the **Named Insured**.

Z. Restoration Costs means reasonable and necessary costs incurred by the **Insured** with the Company's written consent, which consent shall not be unreasonably withheld or delayed, to repair, replace or restore real or personal property to substantially the same condition it was in prior to being damaged during work performed in the course of incurring **Clean-Up Costs**. However, such **Restoration Costs** shall not exceed the net present value of such property prior to incurring **Clean-Up Costs**. **Restoration Costs** do not include costs associated with improvements or betterments.

AA. Transportation means the movement of **Transported Cargo** by a conveyance, from the place where it is accepted by a carrier until it is moved:

1. To the place where the carrier finally delivers it; or
2. In the case of waste, to a waste disposal facility to which the carrier delivers it.

Transportation includes the carrier's loading or unloading of **Transported Cargo** onto or from a conveyance provided that the loading or unloading is performed by or on behalf of the **Named Insured**.

BB. Transported Cargo means goods, products, or waste transported for delivery by a carrier properly licensed to transport such goods, products, or waste.

CC. Underground Storage Tank means any tank that has at least ten (10) percent of its volume below ground in existence at the **Inception Date**, or installed thereafter, including associated underground piping connected to the tank.

The remainder of this page has been intentionally left blank. Policy Signature Page shall immediately follow.

POLICY SIGNATURE PAGE

This Policy Signature Page,

forms a part of Policy No: PLS 4763130

By signing below, the President and the Secretary of the Insurer agree on behalf of the Insurer to all the terms of this Policy.

Andrew N. Holland

Secretary
Chartis Specialty Insurance Company

[Signature]

President
Chartis Specialty Insurance Company

This Policy shall not be valid unless signed at the time of issuance by an authorized representative of the Insurer, either below or on the Declarations page of the Policy.

Jana Rell

Authorized Representative

86697 (11/09)
CI4317

CHARTIS
NOTICE OF LOSS/NOTICE OF CLAIM

INSTRUCTIONS: PLEASE ATTACH ALL CORRESPONDENCE RELATING TO THIS NOTICE OF LOSS AND MAIL COPIES OF THIS NOTICE TO EACH ADDRESS BELOW:

Manager, Pollution Insurance Products Dept.
Chartis Claims, Inc.
Attn.: CID
101 Hudson Street, 31st Floor
Jersey City, NJ 07302
Fax: 866-260-0104
Email: severityfnol@chartisinsurance.com

Date of Notice: _____

NAMED INSURED: ALLIANT TECHSYSTEMS INC.

Telephone: () _____
Contact: _____

ADDRESS OF INSURED: 7480 FLYING CLOUD DRIVE
MINNEAPOLIS, MN 55344

BROKER NAME: WILLIS OF ILLINOIS, INC

Telephone: () _____
Contact: _____

ADDRESS OF BROKER: ONE E WACKER DR # 1800
CHICAGO, IL 60601-2748

POLICY INFORMATION:

Policy Number: PLS 4763130
Policy Period: From: April 27, 2010 To: April 27, 2015

Loss Information:

Loss Location: _____

Date and Description Of Loss: _____

For Chartis Use Only:
Date Claim Notice Received: _____
Date of Claim: _____

Company/Person Filing Suit (if applicable): _____

NOTE: Any person who knowingly files a Statement of Claim containing any false or misleading information is subject to criminal and civil penalties.

ENDORSEMENT NO. 1

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

WAR EXCLUSION ENDORSEMENT

It is hereby agreed that the following exclusion is added to Section II. **EXCLUSIONS**, Subsection 1. **COMMON EXCLUSIONS - APPLICABLE TO ALL COVERAGES:**

WAR

Arising directly or indirectly as a result of or in connection with war, whether declared or not, or any act or condition incident to war. War includes civil war, insurrection, act of foreign enemy, civil commotion, factional civil commotion, military or usurped power, rebellion or revolution.

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

79098 (12/01)
C11625

PAGE 1 OF 1

ENDORSEMENT NO. 2

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

MULTIPLE COVERAGES AGGREGATE LIMIT ENDORSEMENT

It is hereby agreed that Section V. **LIMITS OF COVERAGE; DEDUCTIBLE**, Paragraph E. **Multiple Coverages** is deleted in its entirety and replaced with the following:

E. Multiple Coverages - Each Incident Aggregate Limit

Subject to Paragraphs V.A. through V.D. above, if the same, related or continuous **Pollution Conditions** result in coverage under more than one Coverage under Coverages A through J, every applicable "Each Incident" limit of coverage among such coverage sections shall apply to the **Loss, Actual Loss, Extra Expense** and loss of **Rental Value**; however, the most the Company will pay for all **Loss, Actual Loss, Extra Expense** and loss of **Rental Value** arising from such **Pollution Conditions** shall not exceed the highest "Each Incident" limit of Coverage stated in Item 3 of the Declarations among all the coverage sections applicable to the **Loss, Actual Loss, Extra Expense** and loss of **Rental Value**.

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

83260 (11/03)
CI2190

PAGE 1 OF 1

ENDORSEMENT NO. 3

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

CONDITION OF PAYMENT ENDORSEMENT

It is hereby agreed that any payment under this Policy shall only be made in full compliance with all United States of America economic and trade sanction laws or regulations, including, but not limited to, sanctions, laws and regulations administered and enforced by the U.S. Treasury Department's Office of Foreign Assets Control ("OFAC").

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

90365 (1/06)
CI2770

PAGE 1 OF 1

ENDORSEMENT NO. 4

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BROAD NAMED INSURED WITH SCHEDULED ADDITIONAL NAMED INSURED(S) ENDORSEMENT

It is hereby agreed that Section VIII. DEFINITIONS, Paragraph O. Named Insured, is deleted in its entirety and replaced with the following:

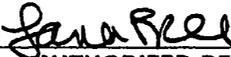
O. Named Insured means

- (i) the person or entity named in Item 1. of the Declarations and any and all corporations, partnerships, companies or other entities as have existed at any time, or as now or may hereafter exist during the Policy Period and in which the Named Insured did or does have more than a 50% ownership interest; and
- (ii) the following entity(s) scheduled below but solely as respects liability arising out of the ownership, operation, maintenance or use of the Insured Property(s) designated in Item 5. of the Declarations.

The first Named Insured designated in Item 1. of the Declarations will act on behalf of all other Insureds, if any, for the payment or return of any premium, payment of any deductible, receipt and acceptance of any endorsement issued to form a part of this Policy, giving and receiving notice of cancellation or nonrenewal, and the exercise of the rights provided in the Extended Reporting Period clause.

NAMED INSURED(S)

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

100257 (10/08)
C13653

PAGE 1 OF 1

ENDORSEMENT NO. 5

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

TERRORISM EXCLUSION - ALL TERRORISM (CERTIFIED AND NON- CERTIFIED ACTS OF TERRORISM)
EXCLUSION ENDORSEMENT

This Policy is amended to include the following Exclusion:

The Company has no obligation to make any payment or to provide or to pay for a defense under this Policy due to or arising directly or indirectly as a result of or in connection with **Terrorism**. **Terrorism** means the use or threatened use of force or violence against person or property, or commission of an act dangerous to human life or property, or commission of an act that interferes with or disrupts an electronic or communication system, undertaken by any person or group, whether or not acting on behalf of or in connection with any organization, government, power, authority or military force, when the effect is to intimidate, coerce or harm a government, the civilian population or any segment thereof, or to disrupt any segment of the economy.

The defined term **Terrorism** shall specifically include, but is not limited to, the following definition of a certified "act of terrorism" as defined by the Terrorism Risk Insurance Act of 2002, as amended by the Terrorism Risk Insurance Program Reauthorization Act of 2007 (collectively, "TRIA") as follows:

ACT OF TERRORISM, -

- a. **CERTIFICATION** - The term "act of terrorism" means any act that is certified by the Secretary (of the Treasury), in concurrence with the Secretary of State, and the Attorney General of the United States -
 - i. To be an act of terrorism;
 - ii. To be a violent act or an act that is dangerous to:
 1. human life;
 2. property; or
 3. infrastructure;
 - iii. to have resulted in damage within the United States, or outside of the United States in the case of:
 1. an air carrier or vessel (described in TRIA); or
 2. the premises of a United States mission; and
 - iv. to have been committed by an individual or individuals as part of an effort to coerce the civilian population of the United States or to influence the policy or affect the conduct of the United States Government by coercion.
- b. **LIMITATION** - No act shall be certified by the Secretary as an act of terrorism if:
 - i. The act is committed as part of the course of a war declared by the Congress, except that this clause shall not apply with respect to any coverage for workers' compensation; or
 - ii. Property and casualty insurance losses resulting from the act, in the aggregate, do not exceed \$5,000,000.
- c. **DETERMINATION FINAL** - Any certification of, or determination not to certify, an act as an act of terrorism under this Paragraph shall be final, and shall not be subject to judicial review.

ENDORSEMENT NO. 5 (Continued)

- d. **NONDELEGATION** - The Secretary may not delegate or designate to any other officer, employee, or person, any determination under this Paragraph of whether, during the effective period of the Program, an act of terrorism has occurred.

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

97640 (3/08)
CI3512

PAGE 2 OF 2

FOR USE TO EXCLUDE ALL TERRORISM CERTIFIED and NON CERTIFIED ACTS.

ENDORSEMENT NO. 6

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED(S) ENDORSEMENT

It is hereby agreed that the following entity(s) is (are) included as an additional insured(s). Coverage for such additional insured(s) applies under this Endorsement:

1. Solely to the additional insured's liability arising out of the **Named Insured's** ownership, operation, maintenance or use of the **Insured Property(s)** and
2. Only if the additional insured is named in a suit as a co-defendant with the **Named Insured**, alleging the additional insured is liable on the basis described in paragraph 1 above.

ADDITIONAL INSURED(S)

"Blanket as required by written contract"

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

69559 (7/00)
CI1071

PAGE 1 OF 1

ENDORSEMENT NO. 7

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

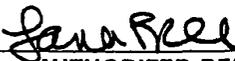
THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

RESPONSIBLE INSURED DEFINITION ENDORSEMENT

It is hereby agreed that Section VIII. DEFINITONS, Paragraph Y., Responsible Insured is deleted in its entirety and replaced with the following:

- Y. **Responsible Insured** means the manager or supervisor of the **Named Insured** responsible for environmental affairs, control or compliance, or any officer, director or partner of the **Named Insured**.

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

100273 (10/08)
CI3666

PAGE 1 OF 1

ENDORSEMENT NO. 8

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

NOTICE OF POSSIBLE CLAIM DELETION ENDORSEMENT

It is hereby agreed that Section III. **NOTICE REQUIREMENTS AND CLAIM PROVISIONS**, Paragraph B. **NOTICE OF POSSIBLE CLAIM** is deleted in its entirety.

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

76101 (7/00)
C11091

PAGE 1 OF 1

ENDORSEMENT NO. 9

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

MINIMUM EARNED PREMIUM SCHEDULE WITH 90 DAY CANCELLATION & CHANGE IN OPERATIONS ENDORSEMENT

1. It is hereby agreed that the following minimum earned premiums will apply:

Inception Date	Minimum Premium Earned	50%
End of Year 1	Minimum Premium Earned	100%

The premium will be 100% earned at the end of Year 1.

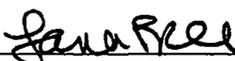
2. It is hereby agreed that Section VI. **CONDITIONS**, Paragraph G., **Cancellation** is deleted in its entirety and replaced with the following:

G. **Cancellation** - This Policy may be cancelled by the **Named Insured** by surrender thereof to the Company or any of its authorized agents or by mailing to the Company written notice stating when thereafter the cancellation shall be effective. This Policy may be cancelled by the Company only for the reasons stated below by mailing to the **Named Insured** at the address shown in the Policy, written notice stating when not less than 90 days (10 days for nonpayment of premium) thereafter such cancellation shall be effective. Proof of mailing of such notice shall be sufficient proof of notice.

1. Material misrepresentation by the **Insured**;
2. The **Insured's** failure to comply with the material terms, conditions or contractual obligations under this Policy, including failure to pay any premium or Deductible when due;
3. A change in operations at an **Insured Property** during the **Policy Period** that materially increases a risk covered under this Policy. Solely with respect to this sub-paragraph 3, the Company shall only have the right to cancel coverage with respect to the **Insured Property(s)** where such material change in operations has taken place.

The time of surrender or the effective date and hour of cancellation stated in the notice shall become the end of the **Policy Period**. Delivery of such written notice either by the **Named Insured** or by the Company shall be equivalent to mailing. If the **Named Insured** cancels the Policy, earned premium shall be computed in accordance with the customary short rate table and procedure after applying the minimum premium earned based on the schedule above for the year in which cancellation was effected. If the Company cancels, earned premium shall be computed pro rata after applying the minimum premium earned based on the schedule above for the year in which cancellation was effected. Premium adjustment may be either at the time cancellation is effected or as soon as practicable after cancellation becomes effective, but payment or tender of unearned premium is not a condition of cancellation.

All other terms, conditions and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

ENDORSEMENT NO. 10

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

MATERIAL CHANGE IN USE OF INSURED PROPERTY(S) EXCLUSION

It is hereby agreed that the following exclusion is added to Section II. **EXCLUSIONS, 1., COMMON EXCLUSIONS - APPLICABLE TO ALL COVERAGES:**

MATERIAL CHANGE IN USE:

arising from a material change in use of the **Insured Property(s)**.

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

72322 (7/00)
CI1097

PAGE 1 OF 1

ENDORSEMENT NO. 11

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

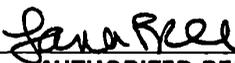
DEFINITION OF BODILY INJURY
TO INCLUDE MEDICAL MONITORING COSTS ENDORSEMENT

It is hereby agreed that Section VIII. DEFINITIONS, Paragraph B. Bodily Injury is deleted in its entirety and replaced with the following:

B. Bodily Injury means:

1. physical injury, sickness or disease sustained by any person, including death resulting therefrom. and solely with respect to this item B.1, any accompanying medical monitoring; or
2. mental anguish, emotional distress, or shock.

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

100281 (10/08)
CI3674

PAGE 1 OF 1

ENDORSEMENT NO. 12

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

CRIMINAL FINES, PENALTIES, AND ASSESSMENTS ENDORSEMENT

It is hereby agreed that Section II. **EXCLUSIONS, 1. COMMON EXCLUSIONS - APPLICABLE TO ALL COVERAGES**, Paragraph A. **CRIMINAL FINES, PENALTIES, AND ASSESSMENTS** is deleted in its entirety and replaced with the following:

A. CRIMINAL FINES, PENALTIES, AND ASSESSMENTS:

Due to any criminal fines, criminal penalties or criminal assessments.

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

78789 (9/01)
C11607

PAGE 1 OF 1

ENDORSEMENT NO. 13

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

SELF-INSURED RETENTION ENDORSEMENT

It is hereby agreed that the following changes are made to the Policy:

1. All references in Item 3 of the Declarations page to "Deductible" and within the Policy are replaced with "Self-Insured Retention" on each occasion.
2. Section V. LIMITS OF COVERAGE; DEDUCTIBLE, is re-titled "Section V. LIMITS OF COVERAGE; SELF-INSURED RETENTION AND DEDUCTIBLE".
3. Section V. LIMITS OF COVERAGE; DEDUCTIBLE, Paragraph F. Deductible, (1) Coverages A through I is deleted in its entirety and replaced with the following:

F. Self-Insured Retention - Coverages A through I; Deductible - Coverage J

- (1) Self Insured Retention - Coverages A through I

Subject to Paragraphs V.A. through V.E. above, this Policy is to pay covered Loss, in excess of the Self-Insured Retention amount stated in Item 3 of the Declarations for the applicable coverage, up to but not exceeding the applicable "Each Incident" limit of coverage. The Self-Insured Retention amount is to be borne by the Insured and is not to be insured. The insurance provided by this Policy shall be excess over the applicable Self-Insured Retention amount shown in Item 3 of the Declarations, whether such Self-Insured Retention is collectible or not collectible by reason of the refusal or inability of the Insured to pay the retention amount due to insolvency, bankruptcy or any other reason. In no event shall the Company be responsible to make any payment under this Policy before the Insured has paid the Self-Insured Retention, and the risk of uncollectibility (in whole or in part) of such Self-Insured Retention is expressly retained by the Insured and is not in any way or under any circumstances insured or assumed by the Company.

If the same, related or continuous Pollution Conditions result in coverage under more than one coverage under Coverages A through I, only the highest applicable Self-Insured Retention amount stated in Item 3 of the Declarations among all the coverage sections applicable to the Loss shall apply.

The Insured shall promptly reimburse the Company for advancing any element of Loss falling within the Self-Insured Retention.

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

ENDORSEMENT NO. 14

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

COVERAGES A AND B - THIRD-PARTY CLAIMS ONLY ENDORSEMENT

It is hereby agreed that Section I. **INSURING AGREEMENTS, 1. COVERAGES, COVERAGE A - ON-SITE CLEAN-UP OF PRE-EXISTING CONDITIONS, and COVERAGE B - ON-SITE CLEAN-UP OF NEW CONDITIONS,** are deleted in their entirety and replaced with the following, respectively:

COVERAGE A - THIRD-PARTY CLAIMS FOR ON-SITE CLEAN-UP OF PRE-EXISTING CONDITIONS

To pay on behalf of the Insured, Loss that the Insured is legally obligated to pay as a result of Claims for Clean-Up Costs resulting from Pollution Conditions on or under the Insured Property that commenced prior to the Continuity Date, provided such Claims are first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable.

COVERAGE B - THIRD-PARTY CLAIMS FOR ON-SITE CLEAN-UP OF NEW CONDITIONS

To pay on behalf of the Insured, Loss that the Insured is legally obligated to pay as a result of Claims for Clean-Up Costs resulting from Pollution Conditions on or under the Insured Property that commenced on or after the Continuity Date, provided such Claims are first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable.

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

76473 (7/00)
CI1088

PAGE 1 OF 1

ENDORSEMENT NO. 15

This endorsement, effective 12:01 AM, April 27, 2010

Forms a part of Policy No: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

SCHEDULE OF INSURED PROPERTY(IES), COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT

It is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(IES)**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5: INSURED PROPERTY(IES):

Bldg G 12, G 13, G 14, H 5, H 6, H 7, Freeport Ceter, Clearfield, UT
55 Thiokol Road, Elkton, MD

With respect to the above-listed Insured Property(s), Item 3 of the Declarations shall provide as follows:

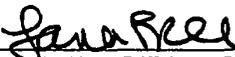
Item 3. COVERAGES AND COVERAGE SECTION LIMITS AND DEDUCTIBLES:

This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below. If no deductible or limits of liability appears for a Coverage, that Coverage does not apply.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	N/A	N/A	N/A
B	\$500,000	\$25,000,000	\$50,000,000
C	\$500,000	\$25,000,000	\$50,000,000
D	N/A	N/A	N/A
E	\$500,000	\$25,000,000	\$50,000,000
F	\$500,000	\$25,000,000	\$50,000,000

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J	N/A	N/A

All other terms, conditions, and exclusions shall remain the same.



AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

ENDORSEMENT NO.16

This endorsement, effective 12:01 AM: April 27, 2010

Forms a part of policy no.: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

CONTINUITY DATE ENDORSEMENT

It is hereby agreed that with respect to the Insured Property(s) listed, the applicable Continuity Date(s) is (are) as follows:

<u>Insured Property</u>	<u>Continuity Date</u>
301-D Cahaba Valley Parkway North Pelham, AL 35124	January 23, 2009
NASA, George C. Marshall Space Flight Center MSFC, AL 35812	October 24, 2001
620 Discovery Drive, Suite 200 Huntsville, AL 35806	July 26, 2007
3309 North Reseda Circle Mesa, AZ 85215	May 31, 2002
4242 East Palm Street Mesa, AZ 85215	September 4, 2002
2832 North Omaha Mesa, AZ 85215	December 1, 2008
1300 West Warner Road Tempe, AZ 85284	April 26, 2004
305 SW 18th Street, Suite #13 Bentonville, AR 72712	March 19, 2008
300 E. Cypress Brea, CA 92821	September 24, 2004
Vandenberg Air Force Base, PO Box 5008 Vandenberg AFB, CA	February 26, 1997

ENDORSEMENT NO. 16 (Continued)

21301 Burbank Blvd, Suite 100 Woodland Hills, CA 91367	January 1, 2004
16707 Via Del Camp Court San Diego, CA 92127	May 19, 1997
8617 Distribution Avenue San Diego, CA 92127	January 8, 2003
605 Oro Dam Blvd Oroville, CA	December 7, 2001
10350 Vacco Street South El Monte, CA	September 30, 2004
404 N. Halstead Street Pasadena, CA	April 1, 2008
151 Martinvale Lane San Jose, CA	January 1, 2009
300N. Continental Blvd, Suite 300 El Segundo, CA	March 17, 2005
6033 E. Bandini Boulevard Commerce, CA	September 22, 2004
6755 Hollister Avenue, Suite 200 Goleta, CA	March 1, 2008
250 Klug Circle Corona, CA	September 22, 2004
600 Pine Avenue Goleta, CA	January 30, 2006
1206 W. Avenue J., Suite 104 Lancaster, CA	August 1, 2009
21301 Burbank Blvd, Suite 100 Woodland Hills, CA	January 1, 2004
1607 Via Del Campo Court San Diego, CA	May 5, 1997
8617 Distribution Avenue San Diego, CA	January 8, 2003
23052 Alcalde Drive, Suite A Monterey, CA	March 15, 2004

ENDORSEMENT NO. 16 (Continued)

One Gateway Plaza, 1300 Inverness Drive, Suite 500 Colorado Springs, CO	July 1, 2008
1724 Majestic Drive Lafayette, CO	March 1, 2009
4555 Overlook Ave. SE Washington, DC	April 1, 2008
K.M. 22 Autopista Las Americas Edif. F-1 Zona Franca Industrial Las Americas Santa Domingo, Dominican Republic	April 1, 2009
13133 34th Street N. Clearwater, FL	April 1, 2006
TITAN III Warehouse Cape Canaveral Air Station, FL	May 19, 1997
Portside Office Complex 101 George J. King Blvd, Suite 3 Port Canaveral, FL	September 15, 2008
1515 Chaffee Drive Titusville, FL	September 25, 2008
775 East Merritt Island Causeway, Suite 230 Merritt Island, FL	November 1, 2007
KSC Operations Office, Building #K6-1096 OSB, RM 3309L Kennedy Space Center, FL	October 24, 2001
300 Village Square Crossing, Suite 201 Palm Beach Gardens, FL	June 4, 2004
2520 Mt. Pleasant Street West Burlington, IA	January 1, 2007
2299 Snake River Avenue Lewiston, ID	December 7, 2001
232 Industrial Parkway Richmond, IN	December 7, 2001
65 South Street Hopkinton, MA	August 15, 2005

ENDORSEMENT NO. 16 (Continued)

Canton Crossing Tower 1501 S. Clinton Street, 11th Floor Baltimore, MD	April 28, 2007
44425 Pecan Court, Suite 205 California, MD	June 17, 2008
5050 Powder Mill Road Beltsville, MD	June 8, 2007
Goddard Space Flight Center 8000 Greenbelt Road Greenbelt, MD	April 1, 2008
200 Elk Park Way Elkton, MD	July 1, 2008
900 Ehlen Drive Anoka, MN	December 7, 2001
7480 Flying Cloud Drive Minneapolis, MN	April 18, 2008
4700 Nathan Lane Plymouth, MN	December 7, 2001
ATPG, 23100 Sugar Bush Road NW Elk River, MN	January 4, 1993
25201 East 78 Hwy Independence, MO	September 15, 2009
1000 Biltmore Drive Fenton, MO	April 1, 2009
Tristate Commerce Park 751 County Road 989, Building 1000 Luka, MS	April 1, 2006
2709 Bragg Blvd Fayetteville, NC	October 12, 2009
3906 Raynor Parkway, Suite 302 Bellevue, NE	October 1, 2005
4300 Industrial Avenue Lincoln, NE	January 7, 2008
1515 W. Elizabeth Ave. Linden, NJ	May 1, 2006

ENDORSEMENT NO. 16 (Continued)

Ninth Avenue, Building 356, Suite 100 Picatinny, NJ	October 1, 2008
Delta & Bravo Road Socorro, NM	January 30, 2006
5011 Indian School Road, NE, Suite 500 Albuquerque, NM	March 15, 2004
77 Raynor Avenue Ronkonkoma, NY	November 21, 2003
601 West National Road Vandalia, OH	March 15, 1995
5000-5044 Hempstead Road Kettering, OH	April 9, 2009
1365 Technology Ct Beaver Creek, OH	April 9, 2009
Urb. Villa Borinquen, Emilio Castro St. Lares, Puerto Rico	April 1, 2009
Route 114 Interior Street D #55, Zono Industrial De Juanibo Mayaguez, Puerto Rico	April 1, 2009
207 Big Springs Avenue Tullahoma, TN	November 21, 2003
40 New York Avenue, Suite 201 Oak Ridge, TN	June 5, 2006
PO Box 748, Lockheed Blvd Fort Worth, TX	April 3, 2006
236 Ctiation Drive Forth Worth, TX	January 4, 2006
Hanger 9S (A&B), Meacham Airport Forth Worth, TX	September 1, 2008
Bldg B14, Freeport Center Clearfield, UT	March 15, 1995
8400 West 5000 South PO Box 98 Magna, UT	March 15, 1995
938 University Park Blvd Clearfield, UT	DOA

ENDORSEMENT NO. 16 (Continued)

841 Kelley Drive Weber, UT	July 20, 2007
9160 North Hwy 83 Corinne, UT	October 24, 2001
890 Ogden Canyon Road Ogden, UT	October 24, 2001
Corrine Rail Transfer Yard Corinne, UT	October 24, 2001
1700 N. Research Park Way Logan, UT	March 15, 2004
7812 West 4100 South Magna, UT	April 12, 2004
Radford Army Ammunition Plant Route 114, PO Box 1 Radford VA	March 15, 1995
Radford Army Ammunition Plant Route 114, PO Box 6 Radford, VA	July 31, 2006
NASA Sounding Rocket Operations Contract Building F-10, Wallops Flight Facility Wallops Island, VA	September 1, 2008
1221B Langley Blvd, MS186A Hampton, VA	June 8, 2007
111 Cybernetics Way, Suite 205 Yorktown, VA	March 1, 2009
1240 Perimeter Parkway, Suite 403 & 404 Virginia Beach, VA	April 1, 2009
Radford Storage, Building M Radford, VA	April 1, 2008
1300 Wilson Blvd Arlington, VA	DOA
8560 Cinderbed Road, Suite 700 Newington, VA	March 15, 2004
N5549 County Road Onalaska, WI	December 7, 2001

ENDORSEMENT NO. 16 (Continued)

Allegany Ballistics Laboratory 210 State Route 956 Rocket Center, WV	March 15, 1995
Bldgs 14-AT-16 & 2-AT-10 Highland Industrial Park Calhoun County, AR	DOA
300 Corporate Pointe, Suite 330 Ridgecrest, CA	DOA
NAVSU Ridgecrest, CA	DOA
Rt 53 S. & Hoff Road East, Gate 17, Bldg 70-5 Joliet, IL	DOA
Rte 4, Bldg 101A, KAAP Parsons, KS	DOA
401 Defense Highway Annapolis, MD	DOA
7301 Skykesville Road Skykesville, MD	DOA
461 Route 46 Fairfield, NJ	DOA
11 Taft Avenue Totowa, NJ	DOA
Hondo Airfield/Test Site Hondo, TX	DOA
Manufacturing Site Janesville, WI	DOA
860 Valley Drive & Hwy 39 Ogden, UT	DOA
9160 North Hwy 83 Brigham, UT	DOA
1023 Snake River Road Lewiston, ID	DOA
Southport Facility, 150 Southport Road Lewiston, ID	DOA

ENDORSEMENT NO. 16 (Continued)

Champion Target, 232 Industrial Parkway Richmond, IN	DOA
Estate Cartridge, 12161 Farm to Market Road Willis, TX	DOA
Boeing Mesa Ordinance Facility, 500 East McDowell Rd Mesa, AZ	DOA
3390 and 3392 W. 8600 S. West Jordan, UT	DOA
605 North 5600 West Salt Lake City, UT	DOA
9300 Castilian Drive Goleta, CA	DOA

All other terms, conditions and exclusions remain the same.



Authorized Representative
or countersignature (where required by law)

ENDORSEMENT NO.17

This endorsement, effective 12:01 AM: April 27, 2010

Forms a part of policy no.: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DISCOVERY - RESTRICTED POLLUTION COVERAGE ENDORSEMENT

Solely with respect to the scheduled **Insured Property(ies)** listed below, the following changes are made to the Policy:

1. It is hereby agreed that Section I. **INSURING AGREEMENTS, 1. COVERAGES**, Coverages B, C, E and F are deleted in their entirety and replaced with the following:

COVERAGE B - ON-SITE CLEAN-UP OF NEW CONDITIONS

1. To pay on behalf of the **Insured, Clean-Up Costs** resulting from **Pollution Conditions** on or under the **Insured Property** that commenced on or after the **Continuity Date**, if such **Pollution Conditions** are discovered by the **Insured** during the **Policy Period**, provided:

(a) An **Insured** discovers the **Pollution Conditions** no later than seven (7) calendar days after its commencement,

(b) The **Insured** reports the **Pollution Conditions** to the Company in writing no later than twenty-one (21) business days following its discovery by an **Insured** as described in Paragraph (a). above, and in any event during the **Policy Period** in accordance with Section III. of the Policy. Discovery of **Pollution Conditions** happens when a **Responsible Insured** becomes aware of **Pollution Conditions**.

(c) Where required, such **Pollution Conditions** have been reported to the appropriate governmental agency in substantial compliance with applicable **Environmental Laws** in effect as of the date of discovery.

2. To pay on behalf of the **Insured, Loss** that the **Insured** is legally obligated to pay as a result of **Claims for Clean- Up Costs** resulting from **Pollution Conditions** on or under the **Insured Property** that commenced on or after the **Continuity Date**, provided such **Claims** are first made against the **Insured** and reported to the Company in writing during the **Policy Period**, or during the **Extended Reporting Period** if applicable.

This insurance does not apply unless:

- (a) An **Insured** discovers the **Pollution Conditions** no later than seven (7) calendar days after its commencement,

ENDORSEMENT NO. 17 (Continued)

(b) The Insured reports the **Pollution Conditions** to the Company in writing no later than twenty-one (21) business days following discovery by an Insured as described in Paragraph (a). above, and in any event during the **Policy Period** in accordance with Section III. of the Policy. Discovery of **Pollution Conditions** happens when a **Responsible Insured** becomes aware of **Pollution Conditions**.

(c) Notice to the Company of **Pollution Conditions** does not constitute the reporting of a **Claim**

COVERAGE C - THIRD-PARTY CLAIMS FOR ON-SITE BODILY INJURY AND PROPERTY DAMAGE

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of **Claims for Bodily Injury or Property Damage** resulting from **Pollution Conditions** on or under the **Insured Property**, if such **Bodily Injury or Property Damage** takes place while the person injured or property damaged is on the **Insured Property**, provided such **Claims** are first made against the Insured and reported to the Company in writing during the **Policy Period**, or during the **Extended Reporting Period** if applicable.

This insurance does not apply unless:

- (a) An Insured discovers the **Pollution Conditions** no later than seven (7) calendar days after its commencement,
- (b) The Insured reports the **Pollution Conditions** to the Company in writing no later than twenty-one (21) business days following discovery by an Insured as described in Paragraph (a). above, and in any event during the **Policy Period** in accordance with Section III. of the Policy. Discovery of **Pollution Conditions** happens when a **Responsible Insured** becomes aware of **Pollution Conditions**.
- (c) Notice to the Company of **Pollution Conditions** does not constitute the reporting of a **Claim**.

COVERAGE E - THIRD-PARTY CLAIMS FOR OFF-SITE CLEAN-UP RESULTING FROM NEW CONDITIONS

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of **Claims for Clean- Up Costs** resulting from **Pollution Conditions**, beyond the boundaries of the **Insured Property**, that commenced on or after the **Continuity Date**, and migrated from the **Insured Property**, provided such **Claims** are first made against the Insured and reported to the Company in writing during the **Policy Period**, or during the **Extended Reporting Period** if applicable.

This insurance does not apply unless:

- (a) An Insured discovers the **Pollution Conditions** no later than seven (7) calendar days after its

ENDORSEMENT NO. 17 (Continued)

commencement,

- (b) The **Insured** reports the **Pollution Conditions** to the Company in writing no later than twenty-one (21) business days following discovery by an **Insured** as described in Paragraph (a). above, and in any event during the **Policy Period** in accordance with Section III. of the Policy. Discovery of **Pollution Conditions** happens when a **Responsible Insured** becomes aware of **Pollution Conditions**.
- (c) Notice to the Company of **Pollution Conditions** does not constitute the reporting of a **Claim**.

COVERAGE F - THIRD - PARTY CLAIMS FOR OFF-SITE BODILY INJURY AND PROPERTY DAMAGE

To pay on behalf of the **Insured**, **Loss** that the **Insured** becomes legally obligated to pay as a result of **Claims** for **Bodily Injury** or **Property Damage** resulting from **Pollution Conditions**, beyond the boundaries of the **Insured Property**, that migrated from the **Insured Property**, providing such **Claims** are first made against the **Insured** and reported to the Company in writing during the **Policy Period**, or during the **Extended Reporting Period** if applicable.

This insurance does not apply unless:

- (a) An **Insured** discovers the **Pollution Conditions** no later than seven (7) calendar days after its commencement,
- (b) The **Insured** reports the **Pollution Conditions** to the Company in writing no later than twenty-one (21) business days following discovery by an **Insured** as described in Paragraph (a). above, and in any event during the **Policy Period** in accordance with Section III. of the Policy. Discovery of **Pollution Conditions** happens when a **Responsible Insured** becomes aware of **Pollution Conditions**.
- (c) Notice to the Company of **Pollution Conditions** does not constitute the reporting of a **Claim**.

2. Section VII. **EXTENDED REPORTING PERIOD FOR CLAIMS - COVERAGES A THROUGH I, Paragraph A.**, **Automatic Extended Reporting Period** is deleted in its entirety and replaced with the following:

Automatic Extended Reporting Period

Provided that the **Named Insured** has not purchased any other insurance to replace this insurance and which applies to a **Claim** otherwise covered hereunder, the **Named Insured** shall have the right to the following: a period of thirty (30) days following the effective date of such termination of coverage in which to provide written notice to the Company of **Claims** first made and reported within the **Automatic Extended Reporting Period**.

A **Claim** first made and reported within the **Automatic Extended Reporting Period** will be deemed to have been made on the last day of the **Policy Period**, provided that: (1) the **Claim** arises from **Pollution Conditions** that commenced before the end of the **Policy Period**, and (2)

ENDORSEMENT NO. 17 (Continued)

the **Pollution Conditions** are discovered by the **Insured** no later than seven (7) calendar days after commencement, reported to the Company no later than twenty-one (21) business days after discovery, and are otherwise covered by this Policy.

3. Section VII. **EXTENDED REPORTING PERIOD FOR CLAIMS - COVERAGES A THROUGH I**, Paragraph B. **Optional Extended Reporting Period** is deleted in its entirety.

4. Section III. **NOTICE REQUIREMENTS AND CLAIM PROVISIONS**, Paragraph B. **NOTICE OF POSSIBLE CLAIM** is deleted in its entirety.

SCHEDULED INSURED PROPERTY(IES)

Bldg G12, G13, G14, H5, H6, & H7, Freeport Center, Clearfield UT
55 Thiokol Road, Elkton, MD

All other terms, conditions and exclusions remain the same.



Authorized Representative
or countersignature (where required by law)

ENDORSEMENT NO. 18

This endorsement, effective 12:01 AM: April 27, 2010

Forms a part of policy no.: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

KNOWN CONDITIONS EXCLUSION WITH NO FURTHER ACTION CLAUSE ENDORSEMENT

It is hereby agreed that the following is added to Section II. EXCLUSIONS, 1. COMMON EXCLUSIONS - APPLICABLE TO ALL COVERAGES:

KNOWN CONDITIONS:

1. arising from **Pollution Conditions** due to or associated with chlorinated solvents or any additives to or degradation by-products thereof, on, under or migrating from the **Insured Property** located at CCI Facility, 2299 Snake River Road, Lewiston, ID.
2. arising from **Pollution Conditions** due to or associated with lead or any additives to or degradation by-products thereof, on, under or migrating from the **Insured Property** located at Speer Facility, 1023 Snake River Road, Lewiston, ID.
3. arising from **Pollution Conditions** due to or associated with chlorinated solvents or any additives to or degradation by-products thereof, on, under or migrating from the **Insured Property** located at RCBS, 605 Oro Dam Road, Oroville, CA.
4. arising from **Pollution Conditions** due to or associated with lead, VOC's or any additives to or degradation by-products thereof, on, under or migrating from the **Insured Property** located at Outers/Ramline, N5549 County Road, Onalaska, WI.
5. arising from **Pollution Conditions** due to or associated with trichlorethene (TCE), Perchlorethylene (PCE), Total Petroleum Hydrocarbons (TPH), ammonium perchlorate or any additives to or degradation by-products thereof, on, under or migrating from the **Insured Property** located at 6033 Bandini Blvd, Commerce, CA.
6. arising from **Pollution Conditions** due to or associated with chromium, total petroleum hydrocarbons (TPH), semi-volatile organic compounds (SVOCs), isopropyltoluene, toluene or any additives to or degradation by-products thereof, on, under or migrating from the **Insured Property** located at 77-87 Raynor Avenue, Ronkonkoma, NY.
7. arising from **Pollution Conditions** due to or associated with the chromium, copper or any additives to or degradation by-products thereof, on, under or migrating from the **Insured Property** located at 207 Big Springs Avenue, Tullahoma, TN.
8. arising from **Pollution Conditions** due to or associated with the chlorinated solvents, hydraulic oil

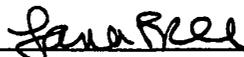
ENDORSEMENT NO. 18 (Continued)

or any additives to or degradation by-products thereof, on, under or migrating from the at the **Insured Property** located at 16707 Via Del Campo Court, San Diego, CA.

9. arising from **Pollution Conditions** due to or associated with the all known issues that were subject to the Cost Cap Clean Up policy or any additives to or degradation by-products thereof, on, under or migrating from the at the **Insured Property** located at 23100 Sugarbush Road, Elk River, MN.
10. arising from **Pollution Conditions** due to or associated with the all known issues that were subject to the Cost Cap Clean Up policy or any additives to or degradation by-products thereof, on, under or migrating from the at the **Insured Property** located at Old Highway 8, New Brighton, MN.
11. arising from **Pollution Conditions** due to or associated with the all known issues that were subject to the Cost Cap Clean Up policy or any additives to or degradation by-products thereof, on, under or migrating from the at the **Insured Property** located at Dry Creek Road, Littleton, CO.
12. arising from **Pollution Conditions** due to or associated with the all known issues that were subject to the Cost Cap Clean Up policy or any additives to or degradation by-products thereof, on, under or migrating from the at the **Insured Property** located at 401 Defense Highway, Annapolis, MD.
13. arising from **Pollution Conditions** due to or associated with the all known issues that were subject to the Cost Cap Clean Up policy or any additives to or degradation by-products thereof, on, under or migrating from the at the **Insured Property** located at Rockport Road, Janesville, WI.

Each Exclusion above may be amended upon the receipt, satisfactory review and approval by the Company, in its sole discretion, of a Certificate of Closure, No Further Action Letter, or equivalent documentation issued by the appropriate state agency for each **Pollution Condition** referenced above. In the event that an above referenced Exclusion is amended, the amended Exclusion shall in any event exclude **Clean-Up Costs** or **Loss** incurred or **Claims** first made prior to the effective date of such amended Exclusion. Such amended Exclusion may also exclude **Claims** first made after the effective date of such amended Exclusion for **Bodily Injury** or **Property Damage** that first arose prior to the effective date of such amended Exclusion. The amendment of each Exclusion referenced above shall not be effective until endorsed onto the Policy.

All other terms, conditions and exclusions remain the same.



Authorized Representative
or countersignature (where required by law)

ENDORSEMENT NO. 19

This endorsement, effective 12:01 AM: April 27, 2010

Forms a part of policy no.: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

EMERGENCY RESPONSE COSTS COVERAGE ENDORSEMENT

It is hereby agreed that:

1. Section I. **INSURING AGREEMENTS, 1. COVERAGES**, is amended by the addition of the following:

EMERGENCY RESPONSE COSTS

The Company will pay **Emergency Response Costs** resulting from **Pollution Conditions**. **Emergency Response Costs** must be first incurred by the **Insured** and reported to the Company during the **Policy Period**.

For this Coverage to apply, all of the following conditions must be satisfied:

1. The **Insured** must report the **Emergency Response Costs** to the Company, in writing, as provided in Section III. **NOTICE REQUIREMENTS AND CLAIM PROVISIONS**, as amended by this Endorsement.
2. Such **Pollution Conditions** must be unexpected and unintended from the standpoint of the **Insured**.

2. Section VIII. **DEFINITIONS** is amended by the addition of the following:

Emergency Response Costs means reasonable and necessary expenses, including legal expenses incurred with the Company's written consent which consent shall not be unreasonably withheld or delayed, incurred in the remediation of soil, surfacewater, groundwater or other contamination that must be incurred:

- i. in response to **Pollution Conditions** that necessitate immediate action, and
- ii. within thirty-six (36) hours of the commencement of such **Pollution Condition(s)**, or as approved by the Company in writing.

3. Section VIII. **DEFINITIONS**, Paragraph N. **Loss** is deleted in its entirety and replaced with the

ENDORSEMENT NO. 19 (Continued)

following:

N. Loss means, under the applicable Coverages:

1. Monetary awards or settlements of compensatory damages, where allowable by law, punitive, exemplary, or multiple damages, and civil fines, penalties, or assessments for **Bodily Injury or Property Damage**,
2. Costs, charges and expenses incurred in the defense, investigation or adjustment of **Claims** for such compensatory damages or punitive, exemplary or multiple damages, and civil fines, penalties or assessments, or for **Clean-Up Costs**,
3. **Clean-Up Costs**, or
4. **Emergency Response Costs**.

4. Section III. **NOTICE REQUIREMENTS AND CLAIMS PROVISIONS**, Paragraph A. **NOTICE OF POLLUTION CONDITIONS, CLAIMS AND INTERRUPTION** is amended by the addition of the following:

When **Emergency Response Costs** have been incurred, the **Insured** shall forward to the Company within seven (7) days of the commencement of **Pollution Conditions** for which the **Emergency Response Costs** have been incurred, all information including but not limited to: the cause and location of the **Pollution Conditions**, technical reports, laboratory data, field notes, expert reports, investigations, data collected, invoices, regulatory correspondence or any other documents relating to such **Emergency Response Costs**.

5. Section VI. **CONDITIONS**, Paragraph E. **Voluntary Payments** is deleted in its entirety and replaced with the following:

E. Voluntary Payments - No **Insured** shall voluntarily enter into any settlement, or make any payment or assume any obligation, without the Company's consent which shall not be unreasonably withheld, except at the **Insured's** own cost. However, this Condition shall not apply if such payment or obligation is an **Emergency Response Costs** or is pursuant to **Environmental Laws** that require immediate remediation of **Pollution Conditions**.

6. The following is added to Item 3. of the Declarations:

EMERGENCY RESPONSE COSTS:

Deductible - Each Incident:	\$1,000,000
Each Incident Limit	\$1,000,000
Coverage Section Aggregate Limit:	\$1,000,000

7. Section II. **EXCLUSIONS**, 1. **COMMON EXCLUSIONS APPLICABLE TO ALL COVERAGES**, Paragraph G. **ASBESTOS AND LEAD** is deleted in its entirety and replaced with the following:

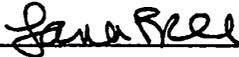
ASBESTOS AND LEAD:

ENDORSEMENT NO. 19 (Continued)

Arising from asbestos or any asbestos-containing materials or lead based paint installed or applied in, on or to any building or other structure. This Exclusion does not apply to Claims for Bodily Injury or Property Damage or to Clean-Up Costs for the remediation of soil or groundwater.

8. References in Section I. INSURING AGREEMENTS, 2. LEGAL EXPENSE AND DEFENSE, Section III. NOTICE REQUIREMENTS AND CLAIM PROVISIONS, Paragraph A. NOTICE OF POLLUTION CONDITIONS, CLAIMS AND AN INTERRUPTION, and Section V. LIMITS OF COVERAGE, DEDUCTIBLE, to "Coverages A through I" shall be deemed to include Emergency Response Costs.

All other terms, conditions and exclusions remain the same.



Authorized Representative
or countersignature (where required by law)

ENDORSEMENT NO.20

This endorsement, effective 12:01 AM: April 27, 2010

Forms a part of policy no.: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**AMENDMENT TO THE DEFINITION OF
NON-OWNED LOCATIONS ENDORSEMENT**

It is hereby agreed as follows:

1. Section VIII. DEFINITIONS, Q. Non-Owned Location is deleted in its entirety and replaced with the following:

All waste treatment, waste storage, recycling or waste disposal facilities utilized by or on behalf of the **Named Insured** for waste generated from an **Insured Property**, provided that as of the date that the waste was delivered to the treatment, storage, recycling or disposal facility, such facilities:

- (a) Are located within the United States, its territories or possessions,
- (b) Are not owned, operated or managed by the **Named Insured**,
- (c) Are properly licensed to accept and dispose of such waste,
- (d) Are not listed, are not proposed for listing and have never been listed on the federal National Priorities List (Superfund), State equivalent list, or local equivalent list,
- (e) Are not subject to, and have not been subject to in the prior five years, a Federal information request under Section 104(e) of the Comprehensive Environmental Response, Compensation, and Liability Act or Section 3007(a) of the Resource Conservation and Recovery Act, or a State or Local equivalent request, and
- (f) Are not owned or operated by a bankrupt or financial insolvent entity.

2. Solely with respect to Section VIII. DEFINITIONS, Paragraph Q.2, Section I. INSURING AGREEMENTS, 1. COVERAGES, COVERAGE G - THIRD - PARTY CLAIMS FOR ON-SITE BODILY INJURY, PROPERTY DAMAGE OR CLEAN-UP COSTS - NON-OWNED LOCATIONS and COVERAGE H - THIRD - PARTY CLAIMS FOR OFF-SITE BODILY INJURY, PROPERTY DAMAGE OR CLEAN-UP COSTS - NON-OWNED LOCATIONS are deleted in their entirety and replaced with the following:

ENDORSEMENT NO. 20 (Continued)

COVERAGE G - THIRD - PARTY CLAIMS FOR ON-SITE BODILY INJURY, PROPERTY DAMAGE OR CLEAN-UP COSTS - NON-OWNED LOCATIONS

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of Claims for Bodily Injury or Property Damage of parties other than the owners, operators or contractors of the Non-Owned Location, or their employees, or Clean-Up Costs resulting from Pollution Conditions on or under the Non-Owned Location that commenced on or after the Continuity Date shown below, provided such Claims are first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable.

For purposes of coverage provided by this Endorsement, the following Continuity Date applies to Coverage G:

Continuity Date: Policy Inception Date or the date that the waste is first delivered to the transfer, storage or disposal facility, whichever is later.

COVERAGE H - THIRD - PARTY CLAIMS FOR OFF-SITE BODILY INJURY, PROPERTY DAMAGE OR CLEAN-UP COSTS - NON-OWNED LOCATIONS

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of Claims for Bodily Injury, Property Damage or Clean-Up Costs resulting from Pollution Conditions beyond the boundaries of the Non-Owned Location that commenced on or after the Continuity Date shown below, that migrated from the Non-Owned Location, provided such Claims are first made against the Insured and reported to the Company in writing during the Policy Period, or during the Extended Reporting Period if applicable.

For purposes of coverage provided by this Endorsement, the following Continuity Date applies to Coverage H:

Continuity Date: Policy Inception Date or the date that the waste is first delivered to the transfer, storage or disposal facility, whichever is later.

Scheduled Non-Owned Locations

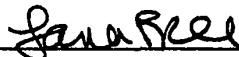
Clean Harbors Los Angeles, LLC
Clean Harbors San Jose, LLC
Clean Harbors Buttonwillow, LLC
Clean Harbors Westmorland, LLC
Clean Harbors of Connecticut, Inc.
Clean Harbors Deer Trail, LLC
Clean Harbors Florida, LLC
Clean Harbors PPM, LLC
Clean Harbors Services, Inc.
Clean Harbors Pacatonia, LLC
Clean Harbors Kansas, LLC
Clean Harbors Coffeyville, LLC

ENDORSEMENT NO. 20 (Continued)

Clean Harbors Baton Rouge, LLC
Clean Harbors White Castle, LLC
Altair Disposal Services, LLC
Clean Harbors Colfax, LLC
Clean Harbors Andover, LLC
Clean Harbors of Braintree, Inc.
Clean Harbors Kingston Facility Corporation, Inc.
Murphy's Waste Oil Services, Inc.
Clean Harbors of Baltimore, Inc.
Clean Harbors Laurel, LLC
Clean Harbors Environmental Services, Inc.
Clean Harbors Reidsville, LLC
Sawyer Disposal Services, LLC
Clean Harbors BDT, LLC
Spring Grove Resource Recovery, Inc.
Clean Harbors Lone Mountain, LLC
Clean Harbors Tennessee, LLC
Clean Harbors Chattanooga, LLC
Clean Harbors LaPorte, LP
Clean Harbors Deer Park, LP
Clean Harbors Grassy Mountain, LLC
Clean Harbors Aragonite, LLC
Northeast Casualty Real Property, LLC
Clean Harbors El Dorado LLC
Clean Harbors Wilmington, LLC

Heritage Environmental Services, LLC
7901 W. Morris Street, Indianapolis, IN 46231
4370 W CR 1275 N, Roachdale, IN 46172
1250 St. George Street, East Liverpool, OH 43920
5122 East Sotrey Road, Coolidge, AZ 85228
8525 NE 38th Street, Kansas City, MO 64161
4132 Pompano Road, Charlotte, NC 28216
11 Apollo Drive, Albany, NY 12205
15330 Canal Bank Road, Lemont, IL 60439
3801 Messer Airport Highway, Birmingham, AL 35222
2400 Cerritos Ave, Signal Hill, CA 90755
4925 Heller Street, Louisville, KY 40218
1188 Pershall Road, Bellefontaine, MO 63137
5451 Enterprise Road, Toledo, OH 43612
1840 N 105th Avenue East, Tulsa, OK 74116
4643 US 29 North, Greensboro, NC 27405
2324 Heinz Road, Iowa City, IA 52440
7901 W. Morris Street, Indianapolis, IN 46231
3080 Hostos Avenue, Mayaguez, PR 00682
1550 Research Way, Indianapolis, IN 46231
5974 East State Highway 18, Blythesville, AR 72315

All other terms, conditions and exclusions remain the same.



Authorized Representative
or countersignature (where required by law)

ENDORSEMENT NO. 21

This endorsement, effective 12:01 AM: April 27, 2010

Forms a part of policy no.: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

PASSPORT ENDORSEMENT

It is hereby agreed that the Policy is amended as follows:

1. Section **VI. CONDITIONS** is amended as follows:

A. The following Paragraph is added:

Policy Territory - This Policy shall apply to **Pollution Conditions**, subject to the terms and conditions of this Policy, that arise anywhere in the world, subject to the following conditions:

1. Whether such **Pollution Conditions**, to which this Policy applies, take place within the United States, its territories or possessions or Canada or anywhere else in the world, Section **III. NOTICE REQUIREMENTS AND CLAIMS PROVISIONS** are applicable and must be strictly complied with as a condition precedent to coverage.
2. Whenever coverage provided by this Policy would be in violation of any U.S. economic or trade sanctions such as, but not limited to, those sanctions administered and enforced by the U.S. Treasury Department's Office of Foreign Assets Control ("OFAC"), such coverage shall be null and void.
3. Whenever coverage relating to or referred to in any certificates or other evidences of insurance or any claim would be in violation of U.S. economic or trade sanctions as described above, such coverage shall also be null and void.
4. This insurance shall not serve as proof of insurance in any country where non-admitted insurance is prohibited by local applicable law.

B. Paragraph **H. Other Insurance** is deleted in its entirety and replaced with the following:

H. Other Insurance - Where other insurance may be available for **Loss, Actual Loss** or loss of **Rental Value**, and **Extra Expense** covered under this Policy, the Insured shall promptly upon request of the Company provide the Company with copies of all such policies. If other valid and collectible insurance is available to the Insured for **Loss, Actual Loss** or loss of **Rental Value**, and **Extra Expense** covered by this Policy, the Company's obligation to the Insured shall be as follows:

ENDORSEMENT NO. 21 (Continued)

1. Except as set forth in Paragraphs 3., 4. and 5. below, this insurance is primary, and the Company's obligations are not affected unless any of the other insurance is also primary. In that case, the Company will share with all such other insurance by the method described in Paragraph 2. below.
 2. Where this insurance is primary, if all of the other insurance permits contribution by equal shares, the Company will follow this method also. Under this approach each insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the loss remains, whichever comes first. If any of the other insurance does not permit contribution by equal shares, the Company will contribute by limits. Under this method, each insurer's share is based on the ratio of its applicable limit of insurance to the total applicable limits of insurance of all insurers.
 3. This insurance is excess over the pollution legal liability insurance policy provided in the country(ies) in the Schedule of Underlyer Country(ies) below by Chartis and any replacements or renewals thereof, provided, however that this insurance shall be primary as described in Paragraphs 1. and 2. above where any such policy provided in the country(ies) in the Schedule of Underlyer Country(ies) below by Chartis and any replacements or renewals thereof do not provide primary coverage to the Insured for **Clean-Up Costs, Claims, Loss, Actual Loss, Extra Expense** or loss of **Rental Value** covered under the terms and conditions of this Policy.
 4. This insurance is excess over any other valid insurance that provides coverage outside the United States and Canada, be it primary or excess, to the Insured for **Clean-Up Costs, Claims, Loss, Actual Loss** or loss of **Rental Value**, and **Extra Expense** covered under the terms and conditions of this Policy. This also applies to the Insured while acting as a self-insured for any coverage, whether such self insurance is collectible or not.
 5. Where this insurance is excess insurance, the Company will pay only its share of the amount of **Clean-Up Costs** or **Loss, Actual Loss, Extra Expense** or loss of **Rental Value**, if any, that exceeds the total amount of all such other valid insurance.
2. Solely with respect to **Claims** arising from **Pollution Conditions** that take place outside of the United States, its territories or possessions or Canada:

Section I. **INSURING AGREEMENTS, 2. LEGAL EXPENSE AND DEFENSE** is deleted in its entirety and replaced with the following:

2. LEGAL EXPENSE AND DEFENSE

The Company shall have the right but not the duty to investigate, defend, or settle any **Claims** covered under this Policy. If the Company does defend the **Claim**, the Company's duty to defend or continue defending any such **Claim**, and to pay any **Loss**, shall cease once the applicable limit of liability, as described in Section V. (Limits of Coverage, Deductible) has been exhausted. Defense costs, charges and expenses are included in **Loss** and reduce the applicable limit of liability, as described in Section V., and are included within the Deductible amount for the Coverage Section that applies and is shown in Item 3 of the Declarations.

The Company will present any settlement offers to the Insured, and if the Insured refuses to consent to any settlement within the limits of liability of this Policy recommended by the Company and acceptable to the claimant, the Company's duty to defend the Insured shall

ENDORSEMENT NO. 21 (Continued)

then cease and the Insured shall thereafter negotiate or defend such Claim independently of the Company and the Company's liability shall not exceed the amount, less the Deductible or any outstanding Deductible balance, for which the Claim could have been settled if such recommendation was consented to.

If the Company does not exercise the right described in I. **INSURING AGREEMENTS**, 2. **LEGAL EXPENSE AND DEFENSE** as set forth above, the Insured shall, under the Company's supervision, make such investigation and defense as is reasonably necessary. Subject to prior written authorization of the Company, the Insured may also effect settlement. The Company shall reimburse the Insured for the reasonable costs of such actions, subject to all other provisions of this Policy. Furthermore, each insuring agreement in Section I. **INSURING AGREEMENTS** is amended by deleting "To pay on behalf of the Insured" and replacing such clause with "To indemnify the Insured".

3. Section V. **LIMITS OF COVERAGE, DEDUCTIBLE**, Paragraph F. **Deductible**, subparagraph 1. Coverages A through I is deleted in its entirety and replaced with the following:

1. Coverages A through I

Subject to Paragraphs V.A. through V.E. above, this Policy is to pay covered Loss in excess of the limits of insurance provided by those policies described in Section VI. **CONDITIONS**, Paragraph H. **Other Insurance**, subparagraphs 3. and 4., as amended above in this Endorsement, and in excess of the Deductible amount stated in Item 3. of the Declarations for the applicable coverage, up to but not exceeding the applicable "Each Incident" limit of coverage.

If the same, related or continuous **Pollution Conditions** result in coverage under more than one coverage section in Coverages A through I, only the highest Deductible amount stated in Item 3. of the Declarations among all the coverage sections applicable to Loss will apply.

If a Claim covered under the policy(ies) described in Section VI. **CONDITIONS**, Paragraph H. **Other Insurance**, subparagraph 3., as amended above in this Endorsement, exhausts the limits of liability of such policy(ies), this Policy will only pay covered Loss in excess of the limits of insurance provided by such policy(ies). In such an event, the Insured will not be required to pay the Deductible amount stated in Item 3. of the Declarations for the applicable coverage.

The Insured shall promptly reimburse the Company for advancing any element of Loss falling within the Deductible.

Schedule of Underlyer Country(ies):

Puerto Rico

All other terms, conditions and exclusions remain the same.



Authorized Representative
or countersignature (where required by law)

ENDORSEMENT NO.22

This endorsement, effective 12:01 AM: April 27, 2010

Forms a part of policy no.: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DEFINITION OF POLLUTION CONDITIONS AMENDATORY ENDORSEMENT

It is hereby that Section VIII., **DEFINITIONS** , paragraph U., **Pollution Condition** is deleted in its entirety and replaced with the following:

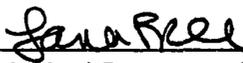
Pollution Condition means:

1. The discharge, dispersal, release or escape, or
2. The illicit abandonment on or after the **Inception Date** by a third party without the **Insured's** consent,

of any solid, liquid, gaseous or thermal irritant or contaminant, including, but not limited to, smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, hazardous substances, low-level radioactive material, electromagnetic fields, medical waste including infectious and pathological waste and waste materials into or upon land, or any structure on land, the atmosphere or any watercourse or body of water, including groundwater, provided such conditions are not naturally present in the environment in the amounts or concentrations discovered. **Pollution Condition** also means *Legionella pneumophila* or **Microbial Matter** in any structure on land and the atmosphere contained within that structure, provided that such **Pollution Condition** commences on or after the **Microbial Matter** Retroactive Date shown below.

Microbial Matter Retroactive Date: April 27, 2010

All other terms, conditions and exclusions remain the same.



Authorized Representative
or countersignature (where required by law)

ENDORSEMENT NO.23

This endorsement, effective 12:01 AM: April 27, 2010

Forms a part of policy no.: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DIVESTED PROPERTIES ENDORSEMENT

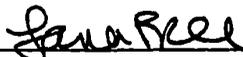
It is hereby agreed that for each **Insured Property** listed below and the corresponding Coverages, the date set forth in **Item 8. Continuity Date** of the Declarations is deleted in its entirety and replaced with the corresponding Continuity Date listed below:

<u>Insured Property</u>	<u>Coverage</u>	<u>Continuity Date</u>
Suite 202, 7501 S. Memorial Parkway Huntsville, AL 35802	A,C,D,F	12/7/2001
Bldg 181 COL H7 Sunnyvale, CA	A,C,D,F	8/13/2004
7200 Hollister Ave, Suite 200 Goleta, CA	A,C,D,F	12/31/2004
440 Bernardo Ave Mt. View, CA	A,C,D,F	1/4/1993
801 Main Street, Suite 230 Louisville, CO	A,C,D,F	7/31/2005
ATK Research Center, Quillon Bldg, 3521 Silverside Rd, Ste 1C1 & 1E1, Concord Plaza Wilmington, DE	A,C,D,F	2/24/1998
13133 34th St. N Clearwater, FL	A,C,D,F	DOD
201 Plantation Oak Drive Thomasville, GA	A,C,D,F	12/25/2002
985 Lincoln Rd., Suite 324 Bettendorf, IA	A,C,D,F	10/24/2001

ENDORSEMENT NO. 23 (Continued)

ATK LAP Facility, 29745 Alliant Drive Wilmington, IL	A,C,D,F,	10/24/2001
Sunflower Army Ammunition Plant 35425 W. 103rd Street DeSoto, KS	A,C,D,F	12/7/2001
89 Rodney French Blvd New Bedford, MA	A,C,D,F	7/21/2009
11 Jackson Road Totowa, NJ	A,C,D,F	10/24/2001
104 Rock Road Horsham, PA	A,C,D,F	5/19/2006
155 Kilgore Street Toone, TN	A,C,D,F	2/5/2001
7042 Alamo Downs Pkwy, Ste 250 San Antonio, TX	A,C,D,F	12/11/1997
610 Spatz Road, Box 100 Hondo, TX	A,C,D,F	10/24/2001
12161 FM830 Willis, TX	A,C,D,F	4/5/2006
Global Environmental Solutions, Inc 8400 W. 5000 S., Annex 1 Magna, UT	A,C,D,F	4/27/1998
181 West 1700 South Salt Lake City, UT	A,C,D,F	4/6/2004
1911 Ft. Myer Drive, Suite 800 Arlington, VA	A,C,D,F	10/24/2001

All other terms, conditions and exclusions remain the same.



Authorized Representative
or countersignature (where required by law)

FORMS SCHEDULE

Named Insured: ALLIANT TECHSYSTEMS INC.

Policy Number: PLS 4763130

Effective 12:01 AM: June 18, 2010

<u>End't. No.</u>	<u>Form Name</u>	<u>Form Number/ Edition Date</u>
24	Schedule of Insured Properties	MNSCPT (07/10)

**CIFMSC
CI0226**

ENDORSEMENT NO.24

This endorsement, effective 12:01 AM: June 18, 2010

Forms a part of policy no.: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

SCHEDULE OF INSURED PROPERTIES

In consideration of an additional premium of \$2,500, it is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(S)**, subject to all of the terms and conditions of the Policy.

Item 5: INSURED PROPERTY(S): 1051 South Industrial Parkway, Clearfield, UT

All other terms, conditions and exclusions remain the same.

"This insurance is issued pursuant to the Minnesota Surplus Lines Insurance Act. The insurer is an eligible surplus lines insurer but is not otherwise licensed by the state of Minnesota. In case of insolvency, payment of claims is not guaranteed.


Authorized Representative
or countersignature (where required by law)



June 8, 2011

Telephone: 763-302-7100
Fax: 763-302-7200
Website: www.willis.com

Direct Line: 763-302-7135
E-mail: julie.gagnon@willis.com

Jennifer Anderson
Alliant Techsystems Inc.
7480 Flying Cloud Drive
Eden Prairie, MN 55344

ENDORSEMENT SUMMARY

Coverage	Carrier	Policy Number	Endorsement Effective Date	Premium Adjustment
Environmental	Chartis Specialty	PLS4763130	03/31/2011	N/A

Jen,

I have reviewed the enclosed endorsement referenced above and recommend that you also review. Below is a summary of the change:

- The location of 207 Big Springs Avenue, Tullahoma TN has been added to the Divested Properties Endorsement.

We recommend that you read this endorsement very carefully and insert it into your 3-ring binder with the policy. If you have any questions, please contact me.

Thank you.

WILLIS OF MINNESOTA, INC.

Julie Gagnon, CISR
Client Manager

:jag/Encl.

Willis of Minnesota, Inc.
1800 Utica Avenue South, Suite 600
Minneapolis, MN 55418

FORMS SCHEDULE

Named Insured: ALLIANT TECHSYSTEMS INC.

Policy Number: PLS 4763130

Effective 12:01 AM: March 31, 2011

<u>End't. No.</u>	<u>Form Name</u>	<u>Form Number/ Edition Date</u>
25	Divested Properties Endorsement	MNSCPT (05/11)

CIFMSC
CI0226

Archive Copy

ENDORSEMENT NO.25

This endorsement, effective 12:01 AM: March 31, 2011

Forms a part of policy no.: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DIVESTED PROPERTIES ENDORSEMENT

It is hereby agreed that for each Insured Property listed below and the corresponding Coverages, the date set forth in Item 8. Continuity Date of the Declarations is deleted in its entirety and replaced with the corresponding Continuity Date Listed Below:

<u>Insured Property</u>	<u>COVERAGE</u>	<u>Continuity Date</u>
207 Big Springs Avenue, Tullahoma, TN	A, C, E	March 31, 2011

All other terms, conditions and exclusions remain the same.



**Authorized Representative
or countersignature (where required by law)**

Archive Copy

FORMS SCHEDULE

Named Insured: ALLIANT TECHSYSTEMS INC.

Policy Number: PLS 4763130

Effective 12:01 AM: September 1, 2012

<u>End't. No.</u>	<u>Form Name</u>	<u>Form Number/ Edition Date</u>
33	Schedule of Insured Properties	MNSCPT (09/12)

ENDORSEMENT NO.33

This endorsement, effective 12:01 AM: September 1, 2012

Forms a part of policy no.: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

SCHEDULE OF INSURED PROPERTIES

In consideration of an additional premium of \$7,500, it is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(S)**, subject to all of the terms and conditions of the Policy.

Item 5: INSURED PROPERTY(S):

Facility # L7-0251 - Kennedy Space Center, FL

All other terms, conditions and exclusions remain the same.



**Authorized Representative
or countersignature (where required by law)**

FORMS SCHEDULE

Named Insured: ALLIANT TECHSYSTEMS INC.

Policy Number: PLS 4763130

Effective 12:01 AM: October 29, 2012

<u>End't. No.</u>	<u>Form Name</u>	<u>Form Number/ Edition Date</u>
34	Schedule Of Insured Property(ies) Coverages, And	MNSCPT (12/12)

ENDORSEMENT NO.34

This endorsement, effective 12:01 AM: October 29, 2012

Forms a part of policy no.: PLS 4763130

Issued to: ALLIANT TECHSYSTEMS INC.

By: CHARTIS SPECIALTY INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**SCHEDULE OF INSURED PROPERTY(IES), COVERAGES, AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

In consideration of an additional premium of \$3,500, it is hereby agreed that the following location(s) is (are) included in Item 5 of the Declarations as **INSURED PROPERTY(IES)**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5: INSURED PROPERTY(IES): High Pressure East Wash 66240, Kennedy Space Center, FL

With respect to the above-listed Insured Property(s), Item 3 of the Declarations shall provide as follows:

Item 3. COVERAGES AND COVERAGE SECTION LIMITS AND DEDUCTIBLES:

This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below. If no deductible or limits of liability appears for a Coverage, that Coverage does not apply.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	N/A	N/A	N/A
B	\$1,000,000	\$25,000,000	\$50,000,000
C	\$1,000,000	\$25,000,000	\$50,000,000
D	N/A	N/A	N/A
E	\$1,000,000	\$25,000,000	\$50,000,000
F	\$1,000,000	\$25,000,000	\$50,000,000

Coverage	Business Interruption (Days) Limit	Business Interruption (\$) Limit
J	N/A	N/A

All other terms, conditions and exclusions remain the same.



Authorized Representative
or countersignature (where required by law)

ENDORSEMENT NO. 46

This endorsement, effective 12:01 AM, OCTOBER 29, 2007
Forms a part of Policy No: PLS/CCC 476-31-30
Issued to: ALLIANT TECHSYSTEMS
By: AMERICAN INTERNATIONAL SPECIALTY LINES INS CO.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

COVERAGE G MODIFICATION ENDORSEMENT

It is hereby agreed that Section I. **INSURING AGREEMENTS, 1. COVERAGES, COVERAGE G – THIRD PARTY CLAIMS FOR ON-SITE CLEAN-UP COSTS – NON OWNED LOCATIONS** is deleted in its entirety and replaced with the following:

COVERAGE G – THIRD - PARTY CLAIMS FOR ON-SITE BODILY INJURY, PROPERTY DAMAGE OR CLEAN-UP COSTS – NON-OWNED LOCATIONS

To pay on behalf of the Insured, Loss that the Insured becomes legally obligated to pay as a result of **Claims for Bodily Injury or Property Damage** of parties other than the owners, operators or contractors of the **Non-Owned Location**, or their employees, or **Clean-Up Costs** resulting from **Pollution Conditions** on or under the **Non-Owned Location**, provided such **Claims** are first made against the Insured and reported to the Company in writing during the **Policy Period**, or during the **Extended Reporting Period** if applicable.

All other terms, conditions, and exclusions shall remain the same.

AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

ENDORSEMENT NO. 47

This endorsement, effective 12:01 AM, JUNE 8, 2007
Forms a part of Policy No: PLS/CCC 476-31-30
Issued to: ALLIANT TECHSYSTEMS
By: AMERICAN INTERNATIONAL SPECIALTY LINES INS CO.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**SWALES ACQUISITION SCHEDULE OF INSURED PROPERTY COVERAGES, RETROACTIVE DATE AND
COVERAGE SECTION LIMITS AND DEDUCTIBLES ENDORSEMENT**

It is hereby agreed that:

- 1) The following location(s) is (are) included in Item 5(a) of the Declarations as **INSURED PROPERTY(S) COVERAGES A - I**, subject to all of the terms and conditions of the Policy, and that the corresponding Coverages, deductibles, and limits of liability shown for each such **INSURED PROPERTY** are included in Item 3 of the Declarations:

Item 5(a): INSURED PROPERTY(S) COVERAGES A - I: Swales Aerospace Beltsville Facilities, as depicted in Figure 2 of ERM's Phase I Environmental Site Assessment Report, dated April, 2007 and on file with the Company.

- 2) Solely with respect to the above-listed Insured Property(s), Item 3 of the Declarations shall provide as follows:

Item 3. COVERAGES AND COVERAGE SECTION LIMITS AND DEDUCTIBLES:

This Policy includes only those Coverages as stated in Section I of the Policy for which deductibles and limits of liability appear below.

Coverage	Deductible-Each Incident	Each Incident Limit	Coverage Section Aggregate Limit
A	\$1,000,000	\$25,000,000	\$25,000,000
B	\$1,000,000	\$25,000,000	\$25,000,000
C	\$1,000,000	\$25,000,000	\$25,000,000
D	\$1,000,000	\$25,000,000	\$25,000,000
E	\$1,000,000	\$25,000,000	\$25,000,000
F	\$1,000,000	\$25,000,000	\$25,000,000

- 3) Further, solely with respect to the Insured Property(s) listed in Paragraph 1) above, Item 7. **RETROACTIVE DATE** of the Declarations is deleted in its entirety and replaced with the following:

Item 7: RETROACTIVE DATE: Under Coverages A - F the **Pollution Conditions** must commence on or after the Retroactive Date shown below:

Retroactive Date: May 1, 1989

All other terms, conditions, and exclusions shall remain the same.

AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

ENDORSEMENT NO. 48

This endorsement, effective 12:01 AM, OCTOBER 29, 2007
Forms a part of Policy No: PLS/CCC 476-31-30
Issued to: ALLIANT TECHSYSTEMS
By: AMERICAN INTERNATIONAL SPECIALTY LINES INS CO.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ASBESTOS EXCLUSION MODIFICATION ENDORSEMENT

It is hereby agreed that Section IV. **EXCLUSIONS, 1. COMMON EXCLUSIONS – APPLICABLE TO ALL COVERAGES**, Paragraph I. **ASBESTOS AND LEAD** is deleted in its entirety and replaced with the following:

I. ASBESTOS AND LEAD

Solely with respect to Coverages A, B, D, E, G, and H, arising from asbestos or any asbestos-containing materials or lead-based paint installed or applied in, on or to any building or other structure. This exclusion does not apply to **Clean-Up Costs** for the remediation of soil and groundwater.

All other terms, conditions, and exclusions shall remain the same.

AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

Accurate Energetic Systems, LLC

MATERIAL SAFETY DATA SHEET

TRITONAL
MSDS NO. 1AES.014

HAZARD RATING: Health - 2 Flammability - 3 Reactivity - 4 Special - High Explosive

SECTION I - MANUFACTURE'S INFORMATION

Manufacture/Distributor Name: Accurate Energetic Systems, LLC
Address: 5891 Highway 230 West, McEwen, TN 37101
Telephone Number: (931) 729-4207
Emergency Telephone Number: 1-800-535-5053
Date Prepared: 08/22/11 **Supersedes:** 03/01/02 (formerly MSDS NO. 1001.034)

SECTION II - CHEMICAL COMPOSITION

Component	CAS #	%	OSHA PEL	ACGIH TLV	Other Limits
TNT (trinitrotoluene; trinitrotoluol; tolite)	118-96-7	60% - 80%	1.5 mg/m ³ skin	0.1 mg/m ³ TWA skin	0.5 mg/m ³ NIOSH TWA skin IDLH - 500 mg/m ³ 5 mg/m ³ NIOSH TWA
Aluminum, metal dust	7429-90-5	20% - 40%	15 mg/m ³ (total dust) 5 mg/m ³ (resp. fract)	5 mg/m ³ TWA	

NOTE: Hazard Class 1, Division 1; SCG "D"

NOTE: Materials in this product are subject to the reporting requirements of SARA, Title III, Section 313 as follows:
Aluminum

SECTION III - PHYSICAL AND CHEMICAL DATA

Boiling Point: 464°F (TNT explodes)
Specific Gravity: 1.72 (cast)
Melting Point: TNT - 79°-80°C
Vapor Pressure (mm Hg): not established
Vapor Density (Air = 1): n/a
Evaporation Rate (Butyl Acetate = 1): n/a
Solubility In Water: 0.01% @ 68°F (TNT)
Appearance And Odor: Silver-gray solid with slight characteristic odor

SECTION IV - FIRE AND EXPLOSION HAZARDS

Flash Point: n/a

Flammable Limits: LEL n/a UEL n/a

Extinguishing Media: Deluge of dry powder extinguishing agent approved for Class D fires. DO NOT USE WATER!

Special Fire Fighting Procedures:

Do not attempt to fight fires involving high explosives. Isolate area and immediately evacuate all personnel from the area to a safe distance using as much protective cover as possible.

Unusual Fire And Explosion Hazards:

HIGH EXPLOSIVE!! Burning of large quantities of high explosives may transition from deflagration to detonation with extremely violent results. Aluminum reacts with water to form combustible hydrogen gas.

SECTION V - REACTIVITY/COMPATIBILITY DATA

Stability:

Stable under normal conditions. Avoid subjecting to heat, sparks, impact, friction, and electrostatic discharge. Aluminum reacts with water, acids, and alkalis to form combustible hydrogen gas.

Incompatibility (materials to avoid):

Alkalis, alkoxides, and ammonia react with TNT to form dangerously sensitive compounds. Avoid contact with potassium hydroxide, sodium carbonate, sodium sulfide, and potassium methylate. Avoid alkalis, acids, strong oxidizers, ammonia, reducing agents, initiating explosives, and physical sensitizers such as glass, sand, and metal fragments. When subjected to a water content greater than 0.2%, the explosive composition has a tendency to become more sensitive due to the aluminum forming combustible hydrogen gas.

Hazardous Decomposition Products:

During decomposition, emits toxic oxides of nitrogen. Aluminum reacts with water, acids, and alkalis to form combustible hydrogen gas.

Hazardous Polymerization:

Will not occur

SECTION VI - HEALTH HAZARD DATA

Routes Of Entry:

Eye?	Yes
Inhalation?	Yes
Skin?	Yes
Ingestion?	Yes

Effects Of Over-Exposure:

Acute -	Slight to serious effects
Chronic -	Not fully known

Signs And Symptoms Of Exposure:

Can cause allergic skin reaction and irritation to mucous membranes. Excessive exposure to TNT can cause liver damage; jaundice; cyanosis; sneezing; coughing and sore throat; peripheral neuropathy; muscular pain; kidney damage; cataracts; leukocytosis (increased blood leukocytes); cardiac irregularities; anorexia; nausea and vomiting; blood damage; and aplastic anemia. TNT can be absorbed through skin. Skin, hair, and nails may be stained yellow. Avoid inhalation and ingestion of dust, fumes, mist, or vapors.

Medical Conditions Generally Aggravated By Exposure:

Cardiovascular diseases and liver, blood, and kidney disorders. Personnel should be in generally good health

SECTION VI - HEALTH HAZARD DATA (cont.)

Emergency First Aid Procedures:

- Eye - Flush with water for 15 minutes. Remove contact lenses prior to flushing, if applicable. Get medical attention.
- Inhalation - Remove to fresh air. Give oxygen if necessary. Get medical attention.
- Skin - Wash with soap and warm water. Get medical attention for rash or irritation.
- Ingestion - If conscious, drink large quantities of water and induce vomiting immediately. Contact a physician or Poison Control Center immediately.
- Other - n/a

Carcinogenicity:

- NTP? Not listed
- IARC Monographs? Not listed
- OSHA Regulated? Not listed

NOTE: Per EPA-C: trinitrotoluene - possible human carcinogen

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Follow If Material Is Spilled Or Released:

Never employ water. Remove all sources of ignition. Avoid any and all situations which could initiate the material, such as friction, impact, heat, sparks, or electrostatic discharge. Gently sweep up spill with a soft bristle brush and a non-sparking pan or shovel. Place material in a properly labeled storage container and store in an approved storage magazine for further disposition. If material becomes wet, place material in vented container and move container to remote area.

Waste Disposal Method:

Dispose of in accordance with applicable local, state, and federal regulations.

Precautions To Be Taken In Handling And Storage:

Handle with care. Store only in authorized High Explosives magazine with compatible material and away from all sources of ignition and flammable materials. Do not store with Initiating (Primary) explosives.

Other Precautions:

Keep material dry at all times. Material should remain in original shipping container or equivalent for storage purposes.

SECTION VIII - PERSONAL PROTECTION INFORMATION

Respirator Protection (Specify Type):

Dust mask is recommended when handling dry material. Recommend NIOSH approved respirator with cartridges for mists and fumes for concentrations up to 5 mg/m³.

Ventilation:

- Local Exhaust - Recommended to maintain exposures below applicable exposure limits.
- Mechanical (General) - General ventilation necessary.
- Special - Dust collection systems required if hoods are utilized.
- Other - n/a

Protective Gloves:

Impervious gloves are recommended.

Eye Protection:

Safety glasses or goggles that meet or exceed ANSI Z87.1 (latest revision)

Other Protective Clothing Or Equipment:

Cotton clothing (including undergarments); cotton coveralls or lab coat; conductive-soled footwear

Work/Hygienic Practices:

Wash hands thoroughly after handling; daily clothing change; daily shower; no eating or drinking in exposed locations

SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken:

CAUTION: High explosives are extremely dangerous. Only highly trained and qualified personnel should utilize this material. Explosives must be tested for compatibility with any materials which they contact. Clean up any spills of material immediately. Proper housekeeping techniques must be maintained to minimize the accumulation of explosive dust. Follow all safety regulations and precautions when handling, storing, or processing explosive material.

NOTE: Under normal conditions, the aluminum in this product is encased by the solidified composition therefore posing minimum threat in case of exposure to water.

The information contained herein is believed to be accurate and represents the best information currently available. Accurate Energetic Systems, LLC makes no warranties or guarantees with respect to the safety or suitability of this product or the results obtained, either expressed or implied. Buyer and user assume any and all risk, responsibility, and liability for any and all injury (including death), loss, or damage arising from usage.

St. Marks Powder
A GENERAL DYNAMICS COMPANY
P.O. Box 222
St. Marks, FL 32355

TRANSPORTATION EMERGENCIES
CALL CHEMTREC 1-800-424-9300
EMERGENCY PHONE 1-850-925-6111

Material Safety Data Sheet

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THIS PRODUCT MAY BE CONSIDERED TO BE A HAZARDOUS CHEMICAL UNDER THAT STANDARD. (REFER TO THE OSHA CLASSIFICATION IN SEC. I.) THIS INFORMATION IS REQUIRED TO BE DISCLOSED FOR SAFETY IN THE WORKPLACE. THE EXPOSURE TO THE COMMUNITY, IF ANY, IS QUITE DIFFERENT.

I. PRODUCT IDENTIFICATION

REVISION NO: 3
REVISION DATE: 9/10/08
PRODUCT NAME: BALL POWDER® propellant
SYNONYMS: WC, WAA®, WCR®, WMG®, WMR®, WRF®, WPR®, WPT®, WSX®, SPI, SHP, WCUNI, OBP®, SMP®, M38, M47, M48
CHEMICAL FAMILY: Mixture
FORMULA: Not Applicable/Mixture
DESCRIPTION: Propellant explosive, solid
OSHA HAZARD CLASSIFICATION: Explosive, toxic, blood toxin, skin and eye irritant

II. COMPONENT DATA

PRODUCT COMPOSITION

CAS or CHEMICAL NAME: Nitroglycerin
CAS NUMBER: 55-63-0
PERCENTAGE RANGE: 0-42%
HAZARDOUS PER 29 CFR 1910.1200 : Yes
EXPOSURE STANDARDS:

	OSHA(PEL)		ACGIH(TLV)	
	ppm	mg/cubic-meter	ppm	mg/cubic-meter
TWA:	None		0.05	
CEILING:	0.2	2(skin)	None	
STEL:	None		None	

CAS or CHEMICAL NAME: Dibutyl phthalate
CAS NUMBER: 84-74-2
PERCENTAGE RANGE: 0-10%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS:

	OSHA(PEL)		ACGIH(TLV)	
	ppm	mg/cubic-meter	ppm	mg/cubic-meter
TWA:		5		5
CEILING:		None		None
STEL:		None		None

CAS or CHEMICAL NAME: Polyester adipate
CAS NUMBER: Supplier proprietary
PERCENTAGE RANGE: 0-10%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS: None Established

CAS or CHEMICAL NAME: Akardite II
CAS NUMBER: 13114-72-2
PERCENTAGE RANGE: 0-1.5%
HAZARDOUS PER 29 CFR 1910.1200: No
EXPOSURE STANDARDS: None Established

CAS or CHEMICAL NAME: Ethyl Centralite (diethyldipenylurea)
CAS NUMBER: 85-98-3
PERCENT RANGE: 0-10%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS: None Established

CAS or CHEMICAL NAME: Rosin
CAS NUMBER: 8050-09-7
PERCENTAGE RANGE: 0-5%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS: None Established

CAS or CHEMICAL NAME: Ethyl Acetate
CAS NUMBER: 141-78-6
PERCENTAGE RANGE: 0-2%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS:

	OSHA(PEL)		ACGIH(TLV)	
	ppm	mg/cubic-meter	ppm	mg/cubic-meter
TWA:	400	1,400	400	
CEILING:		None	None	
STEL:		None	None	

CAS or CHEMICAL NAME: Diphenylamine
CAS NUMBER: 122-39-4
PERCENTAGE RANGE: 0.3-1.5%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS:

	OSHA(PEL)		ACGIH(TLV)	
	ppm	mg/cubic-meter	ppm	mg/cubic-meter
TWA:		None		
CEILING:		None	None	
STEL:		None	None	

CAS or CHEMICAL NAME: N, Nitrosodiphenylamine
CAS NUMBER: 86-30-6
SPECIFIC PERCENTAGE: 0-1.5%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS: None Established

CAS or CHEMICAL NAME: Potassium nitrate
CAS NUMBER: 7757-79-1
PERCENTAGE RANGE: 0-1.5%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS: None Established

CAS or CHEMICAL NAME: Potassium sulfate
CAS NUMBER: 7778-80-5
PERCENTAGE RANGE: 0-3%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS: None Established

St. Marks Powder
A GENERAL DYNAMICS COMPANY

P.O. Box 222
St. Marks, FL 32355

TRANSPORTATION EMERGENCIES
CALL CHEMTREC 1-800-424-9300
EMERGENCY PHONE 1-850-925-6111

Material Safety Data Sheet

CAS or CHEMICAL NAME: Tin dioxide
CAS NUMBER: 18282-10-5
PERCENTAGE RANGE: 0-1.5%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS:

	ppm	OSHA(PEL) mg/cubic-meter	ppm	ACGIH(TLV) mg/cubic-meter
TWA:		2		2
CEILING:		None		None
STEL:		None		None

CAS or CHEMICAL NAME: Graphite
CAS NUMBER: 7782-42-5

PERCENTAGE RANGE: 0.02-1%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS: Respirable dust

	ppm	OSHA(PEL) mg/cubic-meter	ppm	ACGIH(TLV) mg/cubic-meter
TWA:		5		2
CEILING:		None		None
STEL:		None		None

CAS or CHEMICAL NAME: Calcium carbonate
CAS NUMBER: 1317-65-3
PERCENTAGE RANGE: 0-1%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS: Total Dust

	ppm	OSHA(PEL) mg/cubic-meter	ppm	ACGIH(TLV) mg/cubic-meter
TWA:		15		10
CEILING:		None		None
STEL:		None		None

CAS or CHEMICAL NAME: Nitrocellulose
CAS NUMBER: 9004-70-0
PERCENTAGE RANGE: Remainder to 100%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS: None Established

III. PRECAUTIONS FOR SAFE HANDLING AND STORAGE

DO NOT TAKE INTERNALLY. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. UPON CONTACT WITH SKIN OR EYES, WASH OFF WITH WATER.

STORAGE CONDITIONS: Store in a cool, dry well-ventilated place away from all sources of ignition.
DO NOT STORE AT TEMPERATURES ABOVE: 38 Deg.C (100 Deg.F)
DO NOT SUBJECT TO MECHANICAL SHOCK.
DO NOT EXPOSE TO DIRECT LIGHT.
OTHER: Must be stored in original shipping container.

PRODUCT STABILITY AND COMPATIBILITY

SHELF LIFE LIMITATIONS: Indefinite when kept under 100 degrees F.

INCOMPATIBLE MATERIALS FOR PACKAGING: Must be stored in original shipping container for explosion venting purposes. No incompatible packaging materials known.

INCOMPATIBLE MATERIALS FOR STORAGE OR TRANSPORT: Oxidizers, acids or alkalis

IV. PHYSICAL DATA

APPEARANCE: Granular solid
FREEZING POINT: Not Applicable
BOILING POINT: Not Applicable
DECOMPOSITION TEMPERATURE: Decomposition becomes measurable above 50 Deg.C (122 Deg.F)
SPECIFIC GRAVITY: 1.2-1.6
BULK DENSITY: 0.5-1 (g/cc)
pH @ 25 DEG.C: Not Applicable
VAPOR PRESSURE @ 25 DEG.C: < 1 mm Hg
SOLUBILITY IN WATER: Negligible
VOLATILES, PERCENT BY VOLUME: < 2
EVAPORATION RATE: Negligible
VAPOR DENSITY: Not Applicable
MOLECULAR WEIGHT: Not Applicable
ODOR: None
COEFFICIENT OF OIL/WATER DISTRIBUTION: No Data

V. PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS

PERSONAL PROTECTION FOR ROUTINE USE OF PRODUCT:

RESPIRATORY PROTECTION: Respiratory protection not normally needed. If significant dusting occurs, wear a NIOSH approved respirator with organic vapor cartridge and particulate filter.

VENTILATION: Local exhaust ventilation is recommended if significant dusting occurs. Otherwise, use general exhaust ventilation.

SKIN PROTECTIVE EQUIPMENT: Impermeable gloves

OTHER: Safety gasses with side shields

EQUIPMENT SPECIFICATIONS

RESPIRATOR TYPE: NIOSH approved respirator with organic vapor cartridge and particulate filter.

GLOVE TYPE: Impervious

BOOT TYPE: Impervious

APRON TYPE: Impervious

PROTECTIVE SUIT: Impervious

VI. FIRE AND EXPLOSION HAZARD INFORMATION

FLAMMABILITY DATA:

EXPLOSIVE: Yes

FLAMMABLE: Not Applicable

COMBUSTIBLE: Not Applicable

PYROPHORIC: No

FLASH POINT: Not Applicable

AUTOIGNITION TEMPERATURE: 190-200 Deg.C

FLAMMABLE LIMITS AT NORMAL ATMOSPHERIC TEMPERATURE AND PRESSURE (PERCENT

VOLUME IN AIR): LEL - Not Applicable UEL - Not Applicable

NFPA RATINGS: Not Established

HMIS RATINGS:

Health: 1

Flammability: 2

Reactivity: 4

EXTINGUISHING MEDIA: Use extinguishing media compatible for surrounding products. If material itself is on fire, deluge with water.

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A GENERAL DYNAMICS COMPANY

P.O. Box 222
St. Marks, FL 32355

TRANSPORTATION EMERGENCIES
CALL CHEMTREC 1-800-424-9300
EMERGENCY PHONE 1-850-925-6111

Material Safety Data Sheet

FIRE FIGHTING TECHNIQUES AND COMMENTS: See Section XI for protective equipment for fire fighting.
Fight all fires from a remote location or explosive resistant bunker.

VII. REACTIVITY INFORMATION

CONDITIONS UNDER WHICH THIS PRODUCT MAY BE UNSTABLE:

TEMPERATURES ABOVE: 120 Deg.C (248 Deg.F)

MECHANICAL SHOCK OR IMPACT: Yes, can ignite due to impact.

ELECTRICAL (STATIC) DISCHARGE: Yes, can ignite due to static discharge.

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Strong acids, bases, oxidizers, amines

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, oxides of nitrogen

OTHER CONDITIONS TO AVOID: Direct sunlight and open flame

SUMMARY OF REACTIVITY:

OXIDIZER:	No
PYROPHORIC:	No
ORGANIC PEROXIDE:	No
WATER REACTIVE:	No
OTHER:	EXPLOSIVE

VIII. FIRST AID

EYES: Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation develops, call a physician.

SKIN: Immediately flush with water for at least 15 minutes. Call a physician. If clothing comes in contact with the product, the clothing should be removed immediately and should be laundered before reuse.

INGESTION: Immediately drink large quantities of water. Induce vomiting. Call a physician at once. DO NOT give anything by mouth if the person is unconscious or if having convulsions.

INHALATION: If person experiences nausea, headache or dizziness, person should stop work immediately and move to fresh air until these symptoms disappear. If breathing is difficult, administer oxygen, keep the person warm and at rest. Call a physician. In the event that an individual inhales enough vapor to lose consciousness, person should be moved to fresh air at once and a physician should be called immediately. If breathing has stopped, artificial respiration should be given immediately. In all cases, ensure adequate ventilation and provide respiratory protection before the person returns to work.

IX. TOXICOLOGY AND HEALTH INFORMATION

ROUTES OF ABSORPTION

Inhalation, ingestion and skin and eye contact

WARNING STATEMENTS AND WARNING PROPERTIES

MAY BE HARMFUL IF INHALED OR INGESTED. HARMFUL UPON CONTACT WITH SKIN OR EYES.

HUMAN THRESHOLD RESPONSE DATA

ODOR THRESHOLD: No available data

IRRITATION THRESHOLD: No available data

IMMEDIATELY DANGEROUS TO LIFE OR HEALTH: The IDLH concentration has not been established for this product.

SIGNS, SYMPTOMS, AND EFFECTS OF EXPOSURE

INHALATION

ACUTE:

Inhalation of this material is irritating to the nose, mouth, throat and lungs. Dilation of blood vessels with drop in blood pressure and headache, cyanosis, and mental confusion may result from the nitroglycerin. The headache may be severe and can remain for a few hours to several days. It typically starts at the forehead preceded by a sensation of warmth and fullness in the head and may extend to the back of the neck. Nausea, vomiting and abdominal pain may also occur.

CHRONIC:

No additional effects are known or have been reported from those described for acute inhalation exposure.

SKIN

ACUTE:

Dermal exposure may cause irritation which would subside rapidly upon removal of material without permanent damage. Additional effects would be similar to those described for acute inhalation exposure.

CHRONIC:

No additional effects are known or have been reported from those described for acute inhalation exposure.

EYE

Irritation may occur with inflammation of the conjunctive. Any effect would not result in permanent impairment of vision.

INGESTION

ACUTE:

Irritation to the gastrointestinal tract. Additional effects would be similar to those described for acute inhalation exposure.

CHRONIC:

No additional effects are known or have been reported from those described for acute inhalation exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Anemia and cardiovascular disease.

INTERACTIONS WITH OTHER CHEMICALS WHICH ENHANCE TOXICITY:

None known or reported.

ANIMAL TOXICOLOGY

ACUTE TOXICITY:

INHALATION LC 50: No available data

DERMAL LD 50: No available data

ORAL LD 50: Approximately 250 mg/kg (rat) based on acute oral toxicity of nitroglycerin.

IRRITATION: Irritant to skin or eyes.

AQUATIC TOXICITY:

Fish are unaffected by nitrocellulose at concentrations of 1000 mg/l.

ACUTE TARGET ORGAN TOXICITY:

Nitroglycerin will produce dilation of blood vessels and drop in blood pressure which may affect the heart. It has also been shown to cause methemoglobinemia (cyanosis).

CHRONIC TARGET ORGAN TOXICITY:

Diphenylamine has been shown to induce kidney damage. The low concentration of this material in, and nature of, the product would preclude development of such an effect.

PRODUCTIVE AND DEVELOPMENTAL TOXICITY:

There are no known or reported effects on reproductive function or fetal development.

CARCINOGENICITY:

This product or any of its ingredients are not known or reported to be a human or animal carcinogen by IARC, OSHA, or NTP.

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St. Marks, FL 32355

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EMERGENCY PHONE 1-850-925-6111

Material Safety Data Sheet

MUTAGENICITY:

This product or any of its ingredients are not known or reported to be mutagenic.

X. TRANSPORTATION INFORMATION

THIS MATERIAL IS REGULATED AS A DOT HAZARDOUS MATERIAL.

DOT DESCRIPTION FROM THE HAZARDOUS MATERIALS TABLE 49 CFR 172.101:
LAND (U.S. DOT): POWDER, SMOKELESS, 1.3 C, UN0161, PG II

WATER (IMO): POWDER, SMOKELESS, 1.3 C, UN0161, PG II

AIR (IATA/ICAO): FORBIDDEN

HAZARD LABEL/PLACARD: EXPLOSIVE 1.3 C
REPORTABLE QUANTITY: NOT APPLICABLE (Per 49 CFR 172.101, Appendix)
EMERGENCY GUIDE NO: 112

XI. SPILL AND LEAKAGE PROCEDURES

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 800-424-9300
REPORTABLE QUANTITY: Per 40 CFR 302.4 and as Nitroglycerin (10 lbs.) Dibutyl phthalate (10 lbs.),
N,Nitrosodiphenyl amine (100 lbs.) and Ethyl acetate (5000 lbs.)

SPILL MITIGATION PROCEDURES:

THIS PRODUCT MAY REPRESENT AN EXPLOSION HAZARD. Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel.

AIR RELEASE: Not Applicable

WATER RELEASE: This material is heavier than water. Create an overflow dam with filtration capabilities to retain material. Divert water flow or stop if possible. Gather wet material using non-sparking or plastic utensils. Keep material damp until ready for disposal.

LAND SPILL: Clean up of spill materials may be accomplished using non-sparking or plastic utensils. Wear non-flammable or flame retardant clothing at all times. Wet all spill materials prior to initiating clean up procedure. Material may best be destroyed if burned in an open flame burn if permissible by all regulatory functions. Spread material in thin layers and ignite from a remote location using a slow burning train.

SPILL RESIDUES:

Dispose of per guidelines under Section XII, WASTE DISPOSAL

PERSONAL PROTECTION FOR EMERGENCY SPILL AND FIRE-FIGHTING SITUATIONS: In case of fire, use normal fire fighting equipment. Response to this material requires the use of a self-contained breathing apparatus (SCBA).

Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to: impervious boots, gloves, hard hat and chemically impermeable suit. Wash all clothing prior to reuse.

XII. WASTE DISPOSAL

If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D003.

If this product becomes a waste, it will be a hazardous waste which is subject to the Land Disposal Restrictions under 40 CFR 268 and must be managed accordingly.

If this material becomes a waste, it can be disposed by controlled open burning in small quantities.

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

XIII. ADDITIONAL REGULATORY STATUS INFORMATION

TOXIC SUBSTANCES CONTROL ACT:

The components of this product are listed on the Toxic Substance Control Act inventory.

SUPERFUND AMENDMENT AND REAUTHORIZATION ACT TITLE III:

HAZARD CATEGORIES, PER 40 CFR 370.2:

HEALTH: Immediate (Acute)

PHYSICAL: Sudden release of pressure

EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW, PER 40 CFR 355, APP.A: EXTREMELY HAZARDOUS SUBSTANCE - THRESHOLD PLANNING QUANTITY: 10,000 lbs. (as dibutyl phthalate)

SUPPLIER NOTIFICATION REQUIREMENTS, PER 40 CFR 372.45:

This mixture or tradename product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.

CHEMICALS LISTED ARE: Dibutyl phthalate, nitroglycerin, N,nitroso diphenyl amine, diphenylamine

XIV. MAJOR REFERENCES

1. Lee, Cheng-Chun, et al., Mammalian Toxicity of Munition Compounds: Phase I. Acute Oral Toxicity, Primary Skin and Eye Irritation, Dermal Sensitization, and Disposition and Metabolism. NTIS Report (ADBO11150), National Technical Information Services, Springfield, VA. Report No. 1, July 22, 1975.

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. WE BELIEVE THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT MAKE NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MATERIAL SAFETY DATA SHEET IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT St. Marks Powder, Inc. AT THE PHONE NUMBER LISTED BELOW TO MAKE CERTAIN THAT THIS SHEET IS CURRENT.

PREPARED BY:

St. Marks Powder, Inc.
P.O. Box 222
St. Marks, FL 32355-0222
Phone Number: (850) 925-6111

Anatek Labs, Inc.

1282 Alluras Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: AMMUNITION ACCESSORIES INC.
Address: 2299 SNAKE RIVER AVE.
LEWISTON, ID 83501
Attn: MARK VON LINDERN/CARRIE BIEREN

Batch #: 070125005
Project Name: WASTE ANALYSIS

Analytical Results Report

Sample Number 070125005-001 **Sampling Date** 1/23/2007 **Date/Time Received** 1/24/2007 4:47 PM
Client Sample ID RECYCLED POWDER 1.3C CCI
Matrix: Solid

Parameter	Result <i>link</i>	Units	PQL	Analysis Date	Analyst	Method	Qualifier
NO3/N	114	mg/Kg	5	2/12/2007	RAS	EPA 300.0	
Di-n-butylphthalate	500	mg/kg	2.5	2/5/2007	EMP	EPA 8270C	
Nitrosodimethylamine	ND	mg/kg	2.5	2/5/2007	EMP	EPA 8270C	
Diphenylamine	2020	mg/kg	2.5	2/5/2007	EMP	EPA 8270CMOD	
Nitroglycerine	ND	mg/kg	5	2/5/2007	JWC	HPLC	
TCLP Antimony	0.09	ppm	0.05	2/8/2007	RAS	EPA 6020A	
TCLP Arsenic	ND 5.0	ppm	0.05	2/8/2007	RAS	EPA 6020A	
TCLP Barium	4.73/00.0	ppm	0.05	2/8/2007	RAS	EPA 6020A	
TCLP Cadmium	ND	ppm	0.05	2/8/2007	RAS	EPA 6020A	
TCLP Chromium	ND	ppm	0.05	2/8/2007	RAS	EPA 6020A	
TCLP Copper	0.61	ppm	0.05	2/8/2007	RAS	EPA 6020A	
TCLP Lead <i>DOVE</i>	50.3 5.0	ppm	0.05	2/8/2007	RAS	EPA 6020A	
TCLP Nickel	ND	ppm	0.05	2/8/2007	RAS	EPA 6020A	
TCLP Selenium	ND	ppm	0.05	2/8/2007	RAS	EPA 6020A	
TCLP Silver	ND	ppm	0.05	2/8/2007	RAS	EPA 6020A	

Nitrosodiphenylamine decomposes to diphenylamine in the injection port of the GC/MS, therefore the diphenylamine result is the sum of the diphenylamine and nitrosodiphenylamine results.

Comments: Results are reported on an "as received" basis

Wednesday, February 14, 2007

Page 1 of 14

MATERIAL SAFETY DATA SHEET**ALLIANTTECHSYSTEMS**

New River Energetics
Route 114, PO Box 6
Radford, VA 24141-0096
Phone (540) 639-7800

MSDS No.: 930 7315 0000 REV.: 02
ISSUE DATE: 07/15/98
SUPERSEDES: 930 7315 0000 REV.: 01
09/09/94

24 Hour Emergency(CHEMTREC®) : 1-800-424-9300

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: Smokeless Powder No. 1500-1599 Series double base smokeless propellant

APPEARANCE: granular solid

HMIS RATINGS

COLOR: Gray/black

Health hazard: 2 MODERATE

ODOR: Odorless

Flammability hazard: 4 SEVERE

CASRN: Mixture

Reactivity hazard: 4 SEVERE

CHEMICAL DESCRIPTION: double base smokeless propellant

SECTION 2: HAZARDOUS COMPONENT IDENTIFICATION

Hazardous Ingredients	CASRN	Wt %
Nitroglycerin	000055-63-0	4.0 - 40.0
Rosin	008050-09-7	1.0 - 4.0
Diphenylamine	000122-39-4	1.0

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: *DANGER!*

Extremely flammable.

Accidental fire or explosion is likely to cause severe injury or death.

Inhalation of dust or vapor can cause severe headache.

Absorption through the skin can cause severe headache.

Ingestion may cause severe headache, nausea, vomiting, abdominal pain, fatigue, diarrhea, trembling, ringing in the ears, and salivation.

Prolonged or repeated exposure may aggravate anemia or glaucoma.

May cause allergic skin reaction (sensitization) in susceptible individuals.

Refer to Section 5 for Hazardous Combustion Products, and Section 10 for Hazardous Decomposition/Hazardous Polymerization Products.

SECTION 4: FIRST AID PROCEDURES**EYES:**

Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

SKIN:

Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Render unusable and discard contaminated shoes and leather articles.

INHALATION:

Remove to fresh air. Give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

INGESTION:

If conscious, drink large quantities of water. Induce vomiting. Call a physician or poison control center immediately. NEVER give anything by mouth to an unconscious person. NEVER induce vomiting in an unconscious person.

SECTION 5: FIRE HAZARDS**FIRE FIGHTING PROCEDURES:**

EVACUATE AREA IMMEDIATELY. DO NOT fight fire.

EXTINGUISHING MEDIA:

Deluge with large quantities of water as quickly as possible by automatic sprinklers or fire hose from a protected location. Product is self-oxidizing.

CONDITIONS TO AVOID:

Avoid impact, friction, heat, sparks, or flame.

HAZARDOUS COMBUSTION PRODUCTS:

If heated to combustion, the following substances may be formed: carbon monoxide, carbon dioxide, nitrogen, water, hydrogen, nitrogen oxides, methane, aldehydes, carboxylic acids, and hydrogen cyanide.

AUTOIGNITION:

Passes MIL-STD-286B, para. 404.1. No explosion - 5 hours at 120°C (248°F)

SECTION 6: ACCIDENTAL RELEASE MEASURES

Clean up spills immediately using soft natural bristle brush and conductive rubber or conductive plastic shovel. Use caution; material is sensitive to initiation from sources such as heat, flame, shock, friction, or sparks.

In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and General Hygiene Practices.

SECTION 7: HANDLING AND STORAGE**GENERAL MEASURES:**

Follow appropriate DOD., N.F.P.A., and B.A.T.F. explosive safety measures. Local ordinances may apply.

DO NOT PRESSURIZE OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION.

For handling and storage requirements see 29 CFR 1910.109.

See "Properties and Storage of Smokeless Powder" published by the SPORTING ARMS AND AMMUNITION MANUFACTURER'S INSTITUTE, INC.; (SAAMI), Flintlock Ridge Office Center, 11 Mile Hill Road, Newtown, CT 06470-2359

Store in a cool, dry place: approximately 68°F (20°C)

Store only in Department of Transportation approved containers.

Check old product for deterioration regularly.

MATERIALS OR CONDITIONS TO AVOID:

Avoid storing product near incompatible materials. See Section 10.

Do not store near flammable materials.

Do not keep deteriorated or salvaged product.

Keep away from heat, flame, sparks, and other ignition sources.

Do not store in direct sunlight or expose to UV radiation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**GENERAL HYGIENIC PRACTICES:**

Avoid contact with eyes, skin, and clothing.

Avoid breathing dust, vapor, or mist.

Wash thoroughly after handling, and before eating, drinking, or smoking.

Avoid contamination of food, beverages, or smoking materials.

Remove contaminated clothing promptly and clean thoroughly before reuse.
Destroy and discard contaminated leather articles.

RECOMMENDED EXPOSURE LIMITS:

Hazardous Component	Wt. %	Limit	Basis
Nitroglycerin	4.0 - 40.0	(C) 2 mg/m ³ (Skin)	OSHA PEL
		0.46 mg/m ³ (Skin)	ACGIH TLV
Rosin	1.0 - 4.0	Not established	
Diphenylamine	1.0	10 mg/m ³	ACGIH TLV

PERSONAL PROTECTIVE EQUIPMENT:

Safety glasses

Impervious gloves

Appropriate respiratory protection is required when exposure to airborne contaminants may exceed acceptable limits. Respirators should be selected and used in accordance with OSHA, Subpart I (29 CFR 1910.134) and manufacturer's recommendations.

Flame retardant clothing

Wear conductive safety shoes.

WORK PRACTICES AND ENGINEERING CONTROLS:

Do NOT smoke in areas where powder is stored or used.

Material is shock sensitive. Use care in handling.

Keep away from ignition sources. Friction can cause ignition.

Eyewash fountains and safety showers should be easily accessible.

Prevent build-up of static electric charges.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE:

Eliminate ignition sources and prevent build-up of static electric charges.

Use spark-proof tools and explosion-proof equipment.

Wetting work area with water will greatly reduce hazards.

Completely remove product from area, and thoroughly clean all equipment, piping, or vessels before beginning maintenance or repairs.

A work permit system is recommended for any preparation and clean-up.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Volatile (Wt.) %: negligible at 20°C

Solubility in water: negligible at 20°C

Specific Gravity: 1.5 (approximate)

Vapor Pressure: negligible at 20°C

SECTION 10: STABILITY AND REACTIVITY**GENERAL STABILITY CONSIDERATIONS:**

Stable under recommended handling and storage conditions.

INCOMPATIBLE MATERIALS:

Incompatible with: acids, oxidizing agents, alkalis and amines and strong sunlight or ultraviolet light.

HAZARDOUS DECOMPOSITION PRODUCTS:

None anticipated under normal or recommended handling and storage conditions.

HAZARDOUS POLYMERIZATION:

Not anticipated under normal or recommended handling and storage conditions.

SECTION 11: TOXICOLOGICAL INFORMATION**REPORTED HUMAN EFFECTS:**

No human toxicity studies have been carried out with this product.

COMPONENT - Nitroglycerin: The following effects have been reported following medicinal usage or overdose: faintness, skin flush, palpitation, rapid heart beat, dizziness, abdominal pain, retrosternal discomfort, muscle twitches, Heinz bodies, methemoglobinemia, depression, confusion, skin irritation, and allergic reaction. Alcohol may intensify effects.

COMPONENT - Diphenylamine: Excessive exposure to the dust by inhalation has been reported to cause bladder damage, rapid heart beat, increased blood pressure, and skin rash.

COMPONENT - Rosin and some rosin derivatives: Reported to cause an allergic skin reaction (sensitization) in susceptible individuals after repeated or prolonged contact.

REPORTED ANIMAL EFFECTS:

No animal toxicity studies have been carried out with this product.

COMPONENT - Nitroglycerin: Methemoglobinemia and fibrous tissue formation in the bile ducts were seen at very high doses (many times the TLV). Testicular effects were seen in rats dosed for 3 months at very high doses (many times the TLV). In lethal dose determinations in rats, rapid breathing, poor muscle tone, raised hair, and excessive activity were seen.

COMPONENT - Diphenylamine: Reported to cause adverse liver, kidney, and spleen changes, and anemia in long-term rat feeding studies at up to 1% in the diet. Dietary levels of 0.5% in male and female rats for two generations caused no reproductive or teratogenic effects, but did cause decreased litter sizes.

COMPONENT - Rosin: Rats consuming 1% rosin in the diet for a lifetime developed livers weighing more than those of control animals

CARCINOGENICITY INFORMATION:

Not listed as a carcinogen by NTP; not regulated as a carcinogen by OSHA; and not evaluated by IARC.

REPRODUCTIVE EFFECTS:

No studies on reproductive effects have been carried out with this product.

MUTAGENICITY/GENOTOXICITY INFORMATION:

No mutagenicity studies have been carried out with this product.

COMPONENT - Nitroglycerin: Mutagenic in Ames test.

SECTION 12: ECOLOGICAL INFORMATION**ECOTOXICITY:**

No ecological studies have been carried out with this product.

SECTION 13: DISPOSAL CONSIDERATIONS**WASTE DISPOSAL METHODS:**

Disposal of explosives should be carried out under the direct supervision of a qualified person. Call New River Energetics for assistance if needed.

For industrial disposal, federal hazardous waste regulations allow open burning of explosive wastes in permitted facilities. Burn in the open in an isolated location in small, shallow piles not over one inch deep. Stay upwind. Do not breathe products of combustion. State or local regulations may be more stringent than federal regulations.

For disposal of small quantities, contact state or local environmental agencies for options.

SECTION 14: TRANSPORTATION INFORMATION

Transportation of this material must be in accordance with the hazardous material regulations of the U.S. Department of Transportation.

For information regarding transportation of this product, please contact New River Energetics at (540) 639-7800.

SECTION 15: REGULATORY INFORMATION**CHEMICAL INVENTORIES:**

U.S. TSCA Status: Included on TSCA inventory.

SARA TITLE III:**Sections 302 and 304:**

Component	Wt. %	RQ (Lbs.)
Nitroglycerin	4.0 - 40.0	10

Sections 311 and 312:

HC-1: Acute health hazard
 HC-2: Chronic health hazard
 HC-3: Fire hazard
 HC-4: Sudden release of pressure hazard
 HC-5: Reactive hazard

Section 313:

Component	Wt. %
Nitroglycerin	4.0 - 40.0

CERCLA:

Component	Wt. %	RQ (Lbs.)
Nitroglycerin	4.0 - 40.0	10

RCRA:

This product exhibits the following characteristics listed in 40CFR261, Subpart C: ignitability and reactivity.

SECTION 16: OTHER INFORMATION**LIST OF ACRONYMS:**

ACGIH: American Conference of Governmental Industrial Hygienists
 AICS: Australian Inventory of Chemical Substances
 AIHA WEEL: American Industrial Hygienists Association - Workplace Environmental Exposure Level
 ANSI: American National Standards Institute
 BATF: Bureau of Alcohol, Tobacco, and Firearms
 C: Ceiling
 CASRN: Chemical Abstract Service Registry Number
 CERCLA: Comprehensive Emergency Response, Compensation and Liability Act
 DOD: Department of Defense
 DSL: Domestic Substances List (Canadian)
 EINECS: European Inventory of Existing Commercial Chemical Substances
 HMIS: Hazardous Materials Identification System
 IARC: International Agency for Research on Cancer
 MITI: Ministry of International Trade and Industry (Japanese)
 N/A: Not Applicable
 NDSL: Non-domestic Substances List (Canadian)
 NFPA: National Fire Protection Association
 NOR: Not Otherwise Regulated
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 PEL: OSHA Permissible Exposure Limit
 RCRA: Resource Conservation and Recovery Act
 RQ: Reportable Quantity
 SARA: Superfund Amendment Reauthorization Act

SKIN: May Be Absorbed Through Skin (see 29CFR1910.1048 March 1, 1989 Revision)
STEL: Short-Term Exposure Limit
TLV: Threshold Limit Values (registered trademark of ACGIH)
TPQ: Threshold Planning Quantity
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with our products, and determine its environmental compliance obligations under any applicable federal or state laws.



HODGDON®
THE GUNPOWDER PEOPLE™

St. Marks OEM Propellants
MATERIAL SAFETY DATA SHEET
September 2011

The following OEM smokeless propellants are manufactured by St Marks Powders
and distributed by Hodgdon Powder Company.

SMP ® 745
SMP ® 746
WPT ® 101
OBP ® 244
OBP ® 248
SMP ® 289
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OBP ® 513
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6430 Vista Drive • Shawnee, KS 66218 • Phone (913) 362-9455 • Fax (913)-362-1307
www.Hodgdon.com • www.IMRpowder.com • www.WWpowder.com

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A GENERAL DYNAMICS COMPANY
P.O. Box 222
St. Marks, FL 32355
(850) 925-6111

TRANSPORTATION EMERGENCIES
CALL CHEMTREC 1-800-424-9300

Material Safety Data Sheet

REVISION NO.: 5
REVISION DATE: JULY 11, 2011 (Supersedes April 7, 2010)

I. PRODUCT IDENTIFICATION

PRODUCT NAME: BALL POWDER® Propellant
SYNONYMS: Smokeless Propellant
PRODUCT CODES: WC, WAA®, WCR®, WMG®, WMR®, WRF®, WPR®, WPT®, WSX®, SPI, SHP,
WCUNI, OBP®, SMP®, M38, M47, M48

OSHA REGULATORY STATUS: This product may be considered to be a hazardous chemical under the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Applicable OSHA hazard classifications: explosive, toxic, blood toxin, skin and eye irritant.

II. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER! FLAMMABLE/EXPLOSIVE. ACCIDENTAL FIRE OR EXPLOSION COULD CAUSE SEVERE INJURY OR DEATH. AVOID IMPACT, FRICTION, HEAT, SPARKS OR FLAME.

MAY BE HARMFUL IF INHALED OR INGESTED. HARMFUL UPON CONTACT WITH SKIN OR EYES.

ROUTES OF ENTRY: Inhalation, ingestion and skin/eye contact

POTENTIAL HEALTH EFFECTS:

INHALATION: Dust or vapor is irritating to the nose, mouth, throat and lungs. Dilation of blood vessels with drop in blood pressure and headache, cyanosis, and mental confusion may result from the nitroglycerin in the product. Headache may be severe and can remain for a few hours to several days. It typically starts at the forehead preceded by a sensation of warmth and fullness in the head and may extend to the back of the neck. Nausea, vomiting and abdominal pain may also occur.

INGESTION: Irritating to the gastrointestinal tract. Additional effects would be similar to those described for acute inhalation exposure.

EYES: Irritation may occur with inflammation of the conjunctive. Effects should not result in permanent impairment of vision.

SKIN: Dermal exposure may cause irritation which would subside rapidly upon removal of material without permanent damage. Additional effects would be similar to those described for acute inhalation exposure.

CHRONIC HEALTH EFFECTS: No additional effects are known or have been reported beyond those described for inhalation exposure.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Anemia and cardiovascular disease.

CARCINOGENICITY: This product contains N-Nitrosodiphenylamine, which is reported as a possible human carcinogen by IARC.

III. PRODUCT COMPOSITION / INGREDIENT INFORMATION

COMPONENT	CAS NO.	WEIGHT %	EINECS/ELINCS #	EU CLASSIF. HAZ SYMBOL	EU CLASSIF. R-PHRASE
Nitroglycerin	55-83-0	0-42	200-240-8	E, T+, N	R 3-26/27/28-33-51-53
Dibutyl Phthalate	84-74-2	0-10	201-557-4 (REACH Registration No. 01-2118493042-44-0005)	T, N	R 50-61/62
Polyester Adipate	Supplier proprietary	0-10			
Akardite II	13114-72-2	0-3	236-039-7	None established	None established
Ethyl Centralite (diethylidiphenylurea)	85-98-3	0-10	291-645-2	Xi	R 36/37/38
Rosin	8050-09-07	0-5	232-475-7	Xi	R 43
Ethyl Acetate	141-78-6	0-2	205-500-4	F, Xi	R 11-36-66-67
Diphenylamine	122-39-4	0-1.5	204-539-4	T, N	R 23/24/25-33-50/53
N-Nitrosodiphenylamine	86-30-6	0-1.5	201-663-0	T, Xi	R 36/38-40
Potassium Nitrate	7757-79-1	0-3	231-818-8	Xi	R 8-36/38
Potassium Sulfate	7778-80-5	0-3	231-915-5	None established	None established
Tin Dioxide	18282-10-5	0-1.5	242-159-0	Xi	R 22-36/38
Graphite	7782-42-5	0.02-1	231-955-3	Xi	R 36/37
Calcium Carbonate	1317-65-3	0-1	207-439-9	Xi	R 36/37/38
Trade Secret Component 1	Proprietary	0-10		None established	None established
Trade Secret Component 2	Proprietary	0-10		None established	None established
Trade Secret Component 3	Proprietary	0-5		None established	None established
Nitrocellulose	9004-70-0	Balance to 100	Not listed	E	R 11

IV. FIRST AID MEASURES

EYES: Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation develops, call a physician.

SKIN: Immediately flush with water for at least 15 minutes. Call a physician. If clothing comes in contact with the product, the clothing should be removed immediately and should be laundered before re-use.

INGESTION: Immediately drink large quantities of water. Induce vomiting. Call a physician at once. DO NOT give anything by mouth if the person is unconscious or if having convulsions.

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(850) 925-6111

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Material Safety Data Sheet

INHALATION: If person experiences nausea, headache or dizziness, person should stop work immediately and move to fresh air until these symptoms disappear. If breathing is difficult, administer oxygen, keep the person warm and at rest. Call a physician. In the event that an individual inhales enough vapor to lose consciousness, person should be moved to fresh air at once and a physician should be called immediately. If breathing has stopped, artificial respiration should be administered immediately.

V. FIRE-FIGHTING MEASURES

FLAMMABILITY LIMITS IN AIR (% BY VOLUME): LEL - Not Applicable UEL - Not Applicable

FLASH POINT: Not Applicable

AUTOIGNITION TEMPERATURE: 190-200 °C

EXPLOSIVE: Yes

FLAMMABLE: Yes

PYROPHORIC: No

NFPA RATINGS: Not Established

HMIS RATINGS:

Health: 2 Moderate

Flammability: 4 Severe

Reactivity: 4 Severe

EXTINGUISHING MEDIA: Large volumes of water should be applied as quickly as possible from automatic sprinklers or fire hose.

SPECIAL FIRE-FIGHTING PROCEDURES: Fires involving smokeless propellant should not be fought unless extinguishing media can be applied from a well protected (e.g. behind a berm or barricade) and distant location from the point of fire.

PERSONAL PROTECTION FOR FIRE-FIGHTING: Self-contained breathing apparatus (SCBA) and protective clothing must be worn. Protective clothing includes, but is not limited to, impervious boots, gloves, hard hat and chemically impermeable suit. Wash all clothing prior to reuse.

HAZARDOUS PRODUCTS OF COMBUSTION: Combustion products vary depending on fire conditions and other combustibles present in the fire. The predominant products will be carbon dioxide and oxides of nitrogen. Under some conditions, methane, carbon monoxide, irritating aldehydes and carboxylic acids and hydrogen cyanide may be formed.

VI. ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 1-800-424-9300.

REPORTABLE QUANTITY (per 40 CFR 302.4): Nitroglycerin (10 lbs.); Dibutyl Phthalate (10 lbs.); N-Nitrosodiphenylamine (100 lbs.); Ethyl Acetate (5000 lbs.)

SPILL MITIGATION PROCEDURES:

Clean up spills immediately using non-sparking utensils. Use caution, material is sensitive to ignition from sources such as heat, flame, impact, friction or sparks. Non-flammable or flame retardant clothing should be worn at all times.

AIR RELEASE: Not Applicable

WATER RELEASE: This material is heavier than water. Create an overflow dam with filtration capabilities to retain material. Divert water flow or stop flow if possible. Gather wet material using non-sparking utensils. Keep material damp until ready for disposal.

LAND SPILL: Clean-up of spill materials may be accomplished using non-sparking utensils. Non-flammable or flame retardant clothing should be worn at all times. Wet spill materials prior to initiating clean-up.

SPILL RESIDUES: Dispose of per guidelines under Section XIII. **DISPOSAL CONSIDERATIONS**

VII. HANDLING AND STORAGE

STORAGE CONDITIONS: Store in a cool, dry, well-ventilated place away from all sources of ignition.

RECOMMENDED STORAGE CONDITIONS: 21 °C (70 °F), 50% Relative Humidity (decomposition becomes measurable above 50 °C (122 °F))

DO NOT SUBJECT TO MECHANICAL SHOCK.

AVOID EXPOSURE TO SUNLIGHT OR ARTIFICIAL ULTRAVIOLET LIGHT.

PRODUCT STABILITY AND SHELF LIFE LIMITATIONS: Smokeless powder contains stabilizers and deteriorates very slowly under proper storage conditions. Old smokeless powder should be checked for deterioration regularly. Deteriorating smokeless powder produces an acidic odor and may produce reddish-brown fumes. Dispose of deteriorating smokeless powder through, for example, controlled open burning in small quantities (product should be submerged in water until burned).

Smokeless powder should not be exposed to excessive heat, as this can accelerate deterioration. Deterioration produces an acidity that accelerates further reaction and has been known, because of heat generated by the reaction, to cause spontaneous combustion.

INCOMPATIBLE MATERIALS FOR PACKAGING: No incompatible packaging materials known. Must be stored in original shipping container.

INCOMPATIBLE MATERIALS FOR STORAGE OR TRANSPORT: This product may react with acids, alkalis, oxidizers and amines, and should not be stored with such materials.

For additional information regarding handling and storage guidelines, see "Properties and Storage of Smokeless Powder", published by the SPORTING ARMS AND AMMUNITION MANUFACTURES' INSTITUTE, INC. (SAAMI), 11 Mile High Road, Newtown, CT 06405 (www.saami.org)

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION FOR ROUTINE USE OF PRODUCT:

RESPIRATORY PROTECTION: Respiratory protection not normally needed. If significant dusting occurs, a NIOSH approved respirator with organic vapor cartridge and particulate filter should be worn.

VENTILATION: Local exhaust ventilation is recommended if significant dusting occurs. Otherwise, use general exhaust ventilation.

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SKIN PROTECTIVE EQUIPMENT: Impermeable gloves

OTHER: Safety glasses with side shields, flame retardant outerwear (e.g. coveralls or lab coat)

EXPOSURE LIMITS:

COMPONENT	CAS NO.	OSHA (PEL)	ACGIH (TLV)	INTERNATIONAL OELS
Nitroglycerin	55-63-0	2 mg/m ³ ceiling (skin)	0.05 ppm TWA (skin)	Denmark: 0.02 ppm (0.2 mg/m ³) Norway, Sweden: 0.03 ppm (0.3 mg/m ³) Austria, Belgium, Germany, The Netherlands, Poland, Switzerland: 0.05 ppm (0.47 mg/m ³) (skin) Finland, France: 0.1 ppm (0.9 mg/m ³) (skin) U.K.: 0.2 ppm (2 mg/m ³) (skin)
Dibutyl Phthalate	84-74-2	5 mg/m ³ TWA	5 mg/m ³ TWA	Sweden: 3 mg/m ³ Belgium, Denmark, France, Netherlands, Switzerland, U.K.: 5 mg/m ³
Polyester Adipate	Supplier proprietary	None established	None established	None established
Akardite II	13114-72-2	None established	None established	None established
Ethyl Centralite (diethyldiphenylurea)	85-98-3	None established	None established	None established
Rosin	8050-09-07	None established	None established	None established
Ethyl Acetate	141-78-6	400 ppm TWA	400 ppm TWA	Denmark, Norway, Sweden: 150 ppm Finland: 300 ppm Austria, Belgium, France, Germany, Switzerland, Turkey, U.K.: 400 ppm
Diphenylamine	122-39-4	None established	None established	Denmark, Norway: 5 mg/m ³ Austria, Belgium, Netherlands, Switzerland, U.K.: 10 mg/m ³
N-Nitrosodiphenylamine	86-30-6	None established	None established	None established
Potassium Nitrate	7757-79-1	None established	None established	None established
Potassium Sulfate	7778-80-5	None established	None established	None established
Tin Dioxide	18282-10-5	2 mg/m ³ TWA	2 mg/m ³ TWA	None established
Graphite	7782-42-5	5 mg/m ³ TWA	2 mg/m ³ TWA	Germany: 1.5 mg/m ³ Europe, Netherlands, Spain: 2 mg/m ³ U.K.: 4 mg/m ³ Sweden: 5 mg/m ³
Calcium Carbonate	1317-65-3	15 mg/m ³ TWA	10 mg/m ³ TWA	None established
Trade Secret Component 1	Proprietary	None established	None established	None established
Trade Secret Component 2	Proprietary	5 mg/m ³ TWA	3 mg/m ³ TWA	None established
Trade Secret Component 3	Proprietary	None established	10 mg/m ³ TWA	None established

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 SL Marks, FL 32355
 (850) 925-8111

TRANSPORTATION EMERGENCIES
 CALL CHEMTREC 1-800-424-9300

Material Safety Data Sheet

COMPONENT	CAS NO.	OSHA (PEL)	ACGIH (TLV)	INTERNATIONAL OELS
Nitrocellulose	9004-70-0	6 mg/m ³ TWA	None established	None established

IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Granular solid
FREEZING POINT:	Not Applicable
BOILING POINT:	Not Applicable
DECOMPOSITION TEMPERATURE:	Decomposition becomes measurable above 50 °C (122 °F)
AUTOIGNITION TEMPERATURE:	190-200 °C
SPECIFIC GRAVITY:	1.2-1.8
BULK DENSITY:	0.5-1 (g/cc)
pH at 25 °C:	Not Applicable
VAPOR PRESSURE at 25 °C:	< 1 mm Hg
SOLUBILITY IN WATER:	Negligible
VOLATILES, PERCENT BY VOLUME:	< 2
EVAPORATION RATE:	Negligible
VAPOR DENSITY:	Not Applicable
MOLECULAR WEIGHT:	Not Applicable - Mixture
ODOR:	None
COEFFICIENT OIL/WATER DISTR.:	No Data

X. STABILITY AND REACTIVITY

TEMPERATURES ABOVE 50 °C (122 °F):	Decomposition becomes measurable
MECHANICAL SHOCK OR IMPACT:	Yes, can ignite due to impact
ELECTRICAL (STATIC) DISCHARGE:	Yes, can ignite due to static discharge (minimum ignition energy 200 mJ)
HAZARDOUS POLYMERIZATION:	Will not occur
INCOMPATIBLE MATERIALS:	Strong acids, alkalis, oxidizers, amines
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide, oxides of nitrogen
OTHER CONDITIONS TO AVOID:	Direct sunlight and open flame

SUMMARY OF REACTIVITY:

OXIDIZER:	No
PYROPHORIC:	No
ORGANIC PEROXIDE:	No
WATER REACTIVE:	No
OTHER:	EXPLOSIVE

XI. TOXICOLOGICAL INFORMATION

Toxicological studies of the complete BALL POWDER[®] product mixture have not been conducted.

INTERACTIONS WITH OTHER CHEMICALS WHICH ENHANCE TOXICITY:

None known or reported.

ANIMAL TOXICOLOGY

ACUTE TOXICITY:

INHALATION LC 50: No available data

DERMAL LD 50: No available data

ORAL LD 50: Approximately 250 mg/kg (rat) based on acute oral toxicity of nitroglycerin

IRRITATION: Irritant to skin or eyes

ACUTE TARGET ORGAN TOXICITY:

Nitroglycerin will produce dilation of blood vessels and drop in blood pressure which may affect the heart. It has also been shown to cause methemoglobinemia (cyanosis).

CHRONIC TARGET ORGAN TOXICITY:

Diphenylamine has been shown to induce kidney damage. The low concentration of this material in, and the nature of the product, would preclude development of such an effect.

REPRODUCTIVE AND DEVELOPMENTAL TOXICITY:

There are no known or reported effects on reproductive function or fetal development.

CARCINOGENICITY:

This product contains N-Nitrosodiphenylamine, which is reported as a possible human carcinogen by IARC.

MUTAGENICITY:

This product or any of its ingredients are not known or reported to be mutagenic.

XII. ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Components of this product (Dibutyl Phthalate, Diphenylamine, Nitroglycerin) are known to be toxic to aquatic organisms.

XIII. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have EPA hazardous waste number D003.

If this product becomes a waste, it will be a hazardous waste which is subject to the Land Disposal Restrictions under 40 CFR 268 and must be managed accordingly.

If this material becomes a waste, it may be treated by controlled burning in small quantities, such as in a RCRA-permitted open burn unit (if permissible by relevant regulatory agencies). Material should be spread in thin layers and ignited from a safe distance.

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

XIV. TRANSPORT INFORMATION

THIS MATERIAL IS REGULATED AS A DOT HAZARDOUS MATERIAL.

DOT DESCRIPTION FROM THE HAZARDOUS MATERIALS TABLE 49 CFR 172.101:

LAND (U.S. DOT): POWDER, SMOKELESS, 1.3C, UN0161, PG II

WATER (IMO): POWDER, SMOKELESS, 1.3C, UN0161, PG II

AIR (IATA/ICAO): FORBIDDEN

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P.O. Box 222
St. Marks, FL 32355
(850) 925-8111

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Material Safety Data Sheet

HAZARD LABEL/PLACARD: EXPLOSIVE 1.3C
EMERGENCY GUIDE NO.: 112

XV. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT:
Components of this product are listed on the Toxic Substance Control Act inventory.

SUPERFUND AMENDMENT AND REAUTHORIZATION ACT TITLE III:
HAZARD CATEGORIES, PER 40 CFR 370.2:
HEALTH: Immediate (Acute)
PHYSICAL: Fire Hazard; Sudden Release of Pressure

EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW, PER 40 CFR 355: Not Applicable -
product contains no Appendix A Extremely Hazardous Substances

SUPPLIER NOTIFICATION REQUIREMENTS, PER 40 CFR 372.45:
This mixture or tradename product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372. Specific chemicals: Dibutyl Phthalate, Nitroglycerin, N-Nitrosodiphenylamine, Diphenylamine

EUROPEAN REGULATIONS

Hazard Classifications

Hazard Symbol:	E	Explosive
	T	Toxic
	T+	Very Toxic
	XI	Irritant
	N	Dangerous to the environment
Risk Phrases:	R 3	Extreme risk of explosion by shock, friction, fire or other sources of ignition
	R 8	Contact with combustible material may cause fire
	R 11	Highly flammable
	R 22	Harmful if swallowed
	R 23/24/25	Toxic by inhalation, in contact with skin and if swallowed
	R 26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
	R 33	Danger of cumulative effects
	R 36/37/38	Irritating to eyes, respiratory system and skin
	R 40	Limited evidence of a carcinogenic effect
	R 43	May cause sensitization by skin contact
	R 50	Very toxic to aquatic organisms
	R 51/53	Toxic to aquatic organisms; may cause long-term adverse effects in the environment
	R 61/62	May cause harm to the unborn child; risk of impaired fertility
	R 66/67	Repeated exposure may cause skin dryness or cracking; vapors may cause drowsiness and dizziness
Safety Phrases:	S 1	Keep locked up
	S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

- S 27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water.
- S 29/56 Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point
- S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection
- S 45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

XVI. OTHER INFORMATION

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. THIS INFORMATION IS BELIEVED TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT NO WARRANTY IS IMPLIED. ADDITIONALLY, IF THIS MATERIAL SAFETY DATA SHEET IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ST. MARKS POWDER, INC. AT THE PHONE NUMBER LISTED BELOW TO CONFIRM THAT THIS INFORMATION IS CURRENT.

PREPARED BY:
St. Marks Powder, Inc.
P.O. Box 222
St. Marks, FL 32355-0222
Telephone Number: (850) 925-6111
E-mail: drfriedman@stm.gd-ots.com

MATERIAL SAFETY DATA SHEET

Bullseye® SPI

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Bullseye® SPI
Synonyms: Bullseye Temp
Chemical Family: Polymeric Colorant
CAS Number: Proprietary

Company Identification

Milliken Chemical
P.O. Box 817
1440 Campton Road
Inman, SC 29349 USA
1-864-472-9041 (For questions and emergencies)
1-800-424-9300 or 1-202-483-7616 (CHEMTREC)

PRODUCT USE:

Colorant

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

The health hazards of this product should be low under normal industrial and commercial uses. May cause skin or eye irritation after repeated or prolonged contact. This material is a concentrated colorant.

HFRP Rating:

Health - 1
Flammability - 0
Reactivity - 0
Personal Protection Index - B

EYE:

May be slightly irritating. Not known to cause permanent injury to eye tissue.

SKIN:

Prolonged or repeated skin contact may cause irritation. Not expected to be a skin irritant.

INHALATION:

No information regarding inhalation available. No known hazards in normal industrial use.

INGESTION:

No information regarding ingestion available. No hazards expected in normal industrial use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

UNCONTROLLED DOCUMENT



Chemical Name	Amount	CAS Number
PROPRIETARY COLORANT	100.0 %	Proprietary

EMERGENCY OVERVIEW:

The health hazards of this product should be low under normal industrial and commercial uses. May cause skin or eye irritation after repeated or prolonged contact. This material is a concentrated colorant.

HFRP Rating:

Health - 1
Flammability - 0
Reactivity - 0
Personal Protection Index - B

EYE:

May be slightly irritating. Not known to cause permanent injury to eye tissue.

SKIN:

Prolonged or repeated skin contact may cause irritation. Not expected to be a skin irritant.

INHALATION:

No information regarding inhalation available. No known hazards in normal industrial use.

INGESTION:

No information regarding ingestion available. No hazards expected in normal industrial use.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

SKIN CONTACT FIRST AID:

Wash affected area with large amounts of soap and water. Get medical attention if irritation develops or persists.

INHALATION FIRST AID:

Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen. Get medical attention if cough or other symptoms develop.

INGESTION FIRST AID:

If swallowed, immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Contact a physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: > 260.0 C (> 500.0 F)

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

Water, carbon dioxide, foam or dry powder.

FIRE & EXPLOSION HAZARDS:

UNCONTROLLED DOCUMENT



No known unusual hazards in a fire/explosion situation.

FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid breathing smoke, fumes, and decomposition products. Contain runoff water. Contaminated extinguishing water must be disposed of in accordance with applicable regulations.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Wear appropriate personal protective equipment. Evacuate non-emergency personnel to a safe area.

SPILL PROCEDURE:

This material is a concentrated colorant. Water will increase the amount of colorant contamination. Do not allow material to enter soil or surface water. Clean up area by absorbent material. Take up and place in secure closed containers. All waste materials should be packaged, labeled, and transported in accordance with all national, state/provincial, and local requirements.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

HANDLING (PHYSICAL ASPECTS):

Avoid extreme temperatures. Keep container closed to avoid contamination.

STORAGE PRECAUTIONS:

Protect containers from physical damage. Do not stack drums more than three pallets high.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general ventilation should be sufficient to control airborne levels.

EYE / FACE PROTECTION REQUIREMENTS:

Wear safety glasses. Where contact with this material is likely, chemical goggles are recommended.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination. For brief contact, normal work attire should be sufficient. When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

RESPIRATORY PROTECTION REQUIREMENTS:

Under normal use conditions, with adequate ventilation, no special respiratory protective equipment is required.

EXPOSURE GUIDELINES:

No Information Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
COLOR:	Dark Blue
ODOR:	Slight, sweet odor
BOILING POINT:	215 C

UNCONTROLLED DOCUMENT



VAPOR PRESSURE:	N/A mm Hg
VAPOR DENSITY:	N/A (Air = 1)
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	1.116 (Water = 1)
MELTING/FREEZING POINT:	< 32 C
PH:	Mildly acidic
% VOLATILES:	40 (approx) %

10. STABILITY AND REACTIVITY

STABILITY:

This compound is stable at ambient conditions.

POLYMERIZATION:

Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with strong oxidizing agents.

DECOMPOSITION:

Decomposition will not occur if handled and stored properly.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING:

The following tests were performed on a structurally analogous material:

The acute oral toxicity (LD50) in rats for this material was determined to be greater than 5000mg/kg.

Primary Eye Irritation (Rabbit): Practically Non-Irritating.

Primary Dermal Irritation (Rabbit): Minimally Irritating.

Skin Sensitization (Guinea Pig): Not a Skin Sensitizer.

The material, as tested, was found to be **NEGATIVE** in vitro for mutagenicity by Ames assay.

12. ECOLOGICAL INFORMATION

ECOLOGICAL TESTING:

42 day biodegradability under OECD guidelines. The material, as tested, is regarded as inherently biodegradable.

48-Hour Acute Aquatic Toxicity (Ceriodaphnia dubia): 3574 mg/L.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Uncleaned empty containers should be disposed of in the same manner as the contents. Due to the highly concentrated color, avoid washing material into sewer systems without proper treatment and authorization by the treatment facility management. All waste materials should be packaged, labeled and transported in accordance with all national, state/provincial, and local requirements.

UNCONTROLLED DOCUMENT



14. TRANSPORT INFORMATION

PRODUCT LABEL: Bullseye® SPI
D.O.T. HAZARD CLASS: Non-Hazardous

15. REGULATORY INFORMATION

CHEMICAL INVENTORY INFORMATION:

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This product or some of its components meet the requirement for the polymer exemption of the European Union COUNCIL DIRECTIVE 92/32/EEC of 30 April 1992 amending for the seventh time Directive 76/548/EEC, on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances.

16. OTHER INFORMATION

PREPARED BY: Randy Petrea
APPROVED BY: Glenn Stoner
TITLE: Environmental Manager
APPROVAL DATE: April 7, 2006
SUPERCEDES DATE: March 8, 2006
MSDS NUMBER: 710192

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END OF MSDS

UNCONTROLLED DOCUMENT





ALLIANT POWDER

Technically Superior by Design

Route 114, P.O. Box 1

Radford, VA. 24141-011

Material Safety Data Sheet

Section 1. Product Information

Product Name:	Bullseye[®] Smokeless Powder
MSDS Number:	N/A
Product ID#:	N/A
Preparation Date:	Revised 05/11/2010

Business Phone/Hours:	540-639-8143
Emergency Telephone #:	540-639-7323
24 Hr. Spill (Chemtrec):	1-800-424-9300

Section 2. Composition/Information On Ingredients

Component Name	Common Name	CAS Number
Nitroglycerin	NG	55-63-0
Ethyl Centralite	EC	85-98-3
Diphenylamine	DPA	122-39-4
Nitrocellulose	NC	9004-70-0
Rosin		8050-09-7

Section 3. Hazard Identification

Emergency Overview:

DANGER! EXTREMELY FLAMMABLE - EXPLOSIVE.

ACCIDENTAL FIRE OR EXPLOSION IS LIKELY TO CAUSE SEVERE INJURY OR DEATH. DUST MAY CAUSE MODERATE TEMPORARY EYE, SKIN, RESPIRATORY, OR THROAT IRRITATION

Eye:	May cause eye irritation
Skin:	Absorption through the skin can cause severe headache. May cause allergic skin reaction (sensitization) in susceptible individuals.
Ingestion:	Ingestion may cause severe headache, nausea, vomiting, abdominal pain, fatigue, diarrhea, trembling, ringing in the ears.
Inhalation:	Inhalation of dust or vapor can cause severe headache. Avoid breathing dust, vapor, or mist.
Exposure Symptoms:	Irritation

Cancer Information:	NTP: NA	OSHA: NA	IARC: NA
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Section 4. First Aid Measures

Eyes:	Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.
Skin:	Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Render unusable and discard contaminated shoes and leather articles.
Ingestion:	Do Not Induce vomiting. Call a physician or poison control center immediately. NEVER give anything by mouth to an unconscious person. NEVER induce vomiting in an unconscious person.
Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen. Get immediate medical attention.
Doctor Notes:	NA

Section 5. Fire Fighting Measures

Flammable Properties:	Flammable EVACUATE AREA IMMEDIATELY. DO NOT fight fire.
Hazardous Decomposition Products:	Oxides of carbon and nitrogen, trace metal oxides
Extinguishing Media:	Deluge with large quantities of water as quickly as possible by automatic sprinklers or fire hose from a protected location.
Protective Equipment:	Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire clothing (includes fire fighting helmet, coat, pants, boots, and gloves).
Unusual Fire and Explosion Hazards:	Explosive hazard, may detonate under the right conditions.

Section 6. Accidental Release Measures

Spills and Leaks:	Cleanup spills with a soft bristle brush and conductive rubber pan or rubber shovel. Use conductive containers. Avoid pinching material or metal to metal contact. Avoid sharp objects, sand, glass, grit or other material that sensitizes explosives.
Waste Disposal:	Disposal (if explosive) should be carried out under the direct supervision of a qualified person. For industrial disposal, federal hazardous waste regulation allows open burning of explosive waste in permitted facilities. Check with Local authorities before disposal.

Section 7. Handling Information

DO NOT PRESSURIZE OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION

Follow appropriate D.O.D., N.F.P.A. and B.A.T.F. explosive safety measures. Local ordinances may apply.

For handling and storage requirement see 29 CFR 1910.109.

Avoid exposure to sunlight or artificial ultraviolet light.

Do not keep deteriorated or salvaged powders. Check old powders for deterioration regularly.

Destroy deteriorated powders immediately.

Section 8. Exposure Control Measures / Personal Protection

Component Name	%	CAS #	Applicable Exposure Limits
Nitroglycerin	4.0 – 40%	55-63-0	OSHA – 0.2 ppm (Skin*) ACGIH - 0.05 ppm TLV (Skin*)
Nitrocellulose	Remainder	9004-70-0	Not Established
Diphenylamine	0 – 1%	122-39-4	ACGIH Threshold Limit Value (TLV): 10 mg/m ³ OSHA (TWA) 10 mg/m ³
Ethyl Centralite	0 – 1%	85-98-3	Not Established
Rosin	0 – 4%	8050-09-7	Not Established

Engineering Controls:	Prevent build-up of static electric charges. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposures limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.
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Respiratory Protection:	Appropriate respiratory protection is required to reduce airborne contaminants, which may exceed acceptable limits. Respirators should be selected and used in accordance with OSHA, Subpart I (29 CFR 1910.134) and manufacturer's recommendations.
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Hand Protection:	Impervious gloves
Eye Protection:	Safety glasses
Hygiene Controls:	Avoid contact with eyes, skin and clothing. Avoid breathing dust, vapor, or mist. Handle in areas with adequate ventilation. Wash thoroughly after handling, and before eating, drinking, or smoking Avoid contamination of food, beverages, or smoking materials. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9. Physical And Chemical Properties

Boiling Point:	NA	Solubility:	Negligible at 20°C
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Melting Point:	NA	Specific Gravity:	1.5 (approximate)
Vapor Pressure:	Negligible at 20°C	pH:	NA
Vapor Density:	NA	Odor:	NA
Flash Point:	NA	Appearance:	Small black/gray flakes
Ignition Temp.:	NA		
UEL:	NA		
LEL:	NA		

Section 10. Stability and Reactivity

Stability:	Stable under recommended handling and storage conditions. Material is sensitive to friction, shock, impact, and electrostatic discharge.
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Incompatibilities:	Acids, oxidizing agents, alkalis and amines and strong sunlight or ultraviolet light.
Conditions to Avoid:	Avoid storing product near incompatible materials. Do not store near flammable materials. Do not keep deteriorated or salvaged product. Keep away from heat, flame sparks and other ignition sources. Do not store in direct sunlight or expose to UV radiation

Hazardous Decomposition Products:	None anticipated under normal or recommended handling and storage conditions.
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Section 11. Toxicological Information

<p>Component - Nitroglycerin: WARNING! Inhalation may cause severe headache. Ingestion may cause severe headache and blood pressure lowering. Absorption through skin may cause severe headache. Repeated skin contact may cause allergic skin reaction (skin sensitization).</p> <p><u>Medical conditions generally recognized as being aggravated by exposure:</u> Severe untreated anemia and glaucoma may be aggravated by extreme overexposure to nitroglycerin in the workplace. Aggravation of these conditions has never been reported as a consequence of workplace exposure but has been reported following protracted medicinal over dosage of nitroglycerin. Alcohol has been reported to intensify any adverse reaction to nitroglycerin.</p> <p>Not listed as a carcinogen by National Toxicity Program (NTP); not regulated as a carcinogen by Occupational Safety and Health Administration (OSHA); not evaluated by International Agency for Research on Cancer (IRAC). Rats dosed for a lifetime showed a <u>decrease</u> in the number of mammary and pituitary tumors that usually occur.</p> <p>CARCINOGENICITY/TERATOGENICITY INFORMATION</p> <p><u>Reported Human Effects:</u> The effects reported above are only ones that have been reported following workplace exposure. The following additional effects have been reported following medicinal usage or over usage: faintness, skin flush, palpitation, rapid</p>

heartbeat, dizziness, abdominal pain, retrosternal discomfort, muscle twitches, Heinz bodies (black spheres in red blood cells), methemoglobinemia, depression, confusion, skin irritation, and allergic skin reaction.

Not teratogenic in rats or rabbits. Inactive in dominant lethal mutagenicity test. No effect on fertility in reproduction test. At many times the dose that would be received following exposure at the TLV, methemoglobinemia and fibrous tissue formation in the bile ducts were seen. Testicular effects were seen in rats dosed for 3 months at over 20,000 times the dose a worker would receive working in the TLV. In lethal dose determination in rats, rapid breathing, poor muscle tone, raised hair and excessive activity were seen.

Section 12. Ecological Data

No ecological studies were found on this product.

Section 13. Disposal Considerations

Disposal of material should be in accordance with Federal, State and local regulations.

Section 14. Transportation Information

U.S. DOT Proper Shipping Name:	Smokeless powder for small arms(100 pounds or less)
UN ID No.:	NA3178
Class & Division:	4.1
Packing Group.:	I

Section 15. Regulatory Information

OSHA:			
TSCA:	Section 12(b) Listed: X	Unlisted:	Exempt:
CERCLA:	Reportable Quantity: 25 pounds (based on nitroglycerin content)		
SARA Title III:			
Section 302:	Chemical Name: NA		
	Threshold Planning Quantity: NA		
	Reportable Quantity: 25 pounds (CERCLA RQ)		
Section 311/312:	Hazard Class:		
	<input checked="" type="checkbox"/> Acute <input checked="" type="checkbox"/> Chronic <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Reactive <input checked="" type="checkbox"/> Sudden Release of Pressure		
Section 313:	Chemical Name:	CAS Number/Category Code:	Weight %:
	Nitroglycerin	55-63-0	4.0-40
	Diphenylamine	122-39-4	0-1

Other:	Wastes associated with the propellant portion of this product may be considered RCRA Hazardous Wastes (40 CFR Part 261) (a) because it is listed (P081) due to Nitroglycerin content
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Section 16. Information Sources

Label Information:

DANGER !

FLAMMABLE/EXPLOSIVE
KEEP AWAY FROM HEAT, SPARKS OR OPEN FLAME
MAY CAUSE SKIN IRRITATION

Residual dust may ignite.

Ingestion may cause nausea, vomiting and possible loss of consciousness.

FIRST AID: In case of contact, immediately flush skin with water. Remove contaminated clothing and shoes. Call physician if irritation develops and persists.

In case of spill: Use soft natural bristle brush and conductive rubber or conductive plastic shovel and dispose accordingly.

Read product-specific MSDS for more details

Abbreviation Key:

ACHIH:	American Conference of Governmental Industrial Hygienist
AICS:	Australian Inventory of Chemical Substances
AIHA WEEL:	American Industrial Hygienists Association - Workplace Environmental Exposure Level
ANSI:	American National Safety Institute
C:	Ceiling
CASRN:	Chemical Abstracts Service Registry Number
CERCLA:	Comprehensive Emergency Response, Compensation and Liability Act
DSL:	Domestic Substances List (Canadian)
EIECCS:	European Inventory of Existing Commercial Chemical Substances
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
MITI:	Ministry of International Trade and Industry (Japanese)
N/A:	Not Applicable
NDSL:	Non-domestic Substances List (Canadian)
NFPA:	National Fire Prevention Association
NOR:	Not Otherwise Regulated
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
RCRA:	Resource Conservation and Recovery Act
RQ:	Superfund Amendment Reauthorization Act
STEL:	Short Term Exposure Limit
TLV:	Threshold Limit Value (ACGIH)
TPQ:	Threshold Planning Quantity
TSCA:	Toxic Substances Control Act
TWA:	Time Weighted Average

Disclaimer:

Although the information contained in this material safety data sheet has been compiled from sources believed to be reliable, no warranty, guaranty or representation is made as to the accuracy or completeness of the information contained herein and no responsibility or liability is assumed regarding the suitability of this information for the user's intended purpose or the consequences of its use. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its obligations under any applicable federal, state, or local law or regulation.

Corporate MSDS Template Version I.doc
ANSI Z-400.2003
11/30/05

1. Chemical product and company identification

Product name Polypropylene Homopolymer
MSDS # 0000001888
Code 0000001888 (NAP)
Product use Consumer Product. Industrial applications.
Supplier INEOS USA LLC
 2600 South Shore Blvd.
 League City, Texas 77573
EMERGENCY SPILL INFORMATION: 1 (800) 424-9300
 Outside the US: +1 703-527-3887 (CHEMTREC)
OTHER PRODUCT INFORMATION 1 (800) 527-5419 Toll Free - North America

2. Composition/information on ingredients

Ingredient name	CAS #	% by weight
Polypropylene	9003-07-0	>98

3. Hazards identification

Physical state Granular solid. Pellets. Powder or flakes.
Color White, translucent or colorless.

Emergency overview

This product has been evaluated and does not require any hazard warning on the label under established regulatory criteria.
 Handling and/or processing of this material may generate dust which may cause mechanical irritation of the eyes, skin, nose and throat. High dust concentrations have a potential for combustion or explosion.

Routes of entry Dermal contact. Eye contact. Inhalation. Ingestion.

Potential health effects

Eyes No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns. When heated to decomposition it emits acrid smoke and irritating fumes.
Skin No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns.
Inhalation Dust: Exposure to airborne concentrations well above the recommended exposure limits may cause irritation of the nose, throat, and lungs. Vapor: If heated to more than 300°C, the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath.
Ingestion No significant health hazards identified.

Medical conditions aggravated by over-exposure None identified.

See toxicological information (section 11)

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4. First aid measures

Eye contact

Hot material: Flush eyes with plenty of water for at least 15 minutes. Seek medical assistance for mechanical removal of this material from the eye. The use of flush fluid, other than water, is not recommended. Cold material: flush eyes with plenty of water. Get medical attention if irritation occurs.

Skin contact

If burned by contact with hot material, flush skin immediately with large amounts of cold water. If possible, submerge area in cold water. No attempt should be made to detach polymer adhering to the skin or to remove clothing attached with molten material. Thermal burns require immediate medical attention. Cold material: Wash with soap and water.

Inhalation

If affected by fumes from heated material, remove from source of exposure and move the affected person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

5. Fire-fighting measures

Flammability of the product May be combustible at high temperature.

Auto-ignition temperature 388 °C

Flash point Above 300°C decomposition occurs and flash of fumes may occur.

Products of combustion Burning can produce carbon monoxide and/or carbon dioxide and other harmful products. The major decomposition products are low molecular weight oligomers (C6-18) of polypropylene. Degradation products may include trace amounts of acrolein, formaldehyde, aldehydes, and other organic vapors.

Unusual fire/explosion hazards This material is not explosive as defined by established regulatory criteria.

High dust concentrations have a potential for combustion or explosion.

Fire-fighting media and instructions

In case of fire, use water spray (fog), foam or dry chemicals. Do not use water jet.

Protective clothing (fire)

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

Personal precautions

IN CASE OF A LARGE SPILL: Contact emergency personnel. Eliminate all ignition sources. Granules spilled on the floor can cause slipping. Fine dust clouds may form explosive mixtures with air. Do not touch or walk through spilled material. Use suitable protective equipment (See Section: "Exposure controls/personal protection"). Follow all fire fighting procedures (See Section: "Fire-fighting measures").

Environmental precautions and clean-up methods

If emergency personnel are unavailable vacuum or carefully scoop up spilled materials and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal. Avoid contact of spilled material with soil and prevent runoff entering surface waterways. (See Section 13 for Waste Disposal Information.)

Personal protection in case of a large spill

Personnel should wear protective clothing. Chemical/Dust Goggles

7. Handling and storage

Handling

There is a risk of being splashed with molten materials. Thermal burns are the most common injury caused while processing molten material. Do not inhale fumes or vapor from molten product. Use with adequate ventilation.

When handling hot material, wear heat resistant protective gloves, clothing and face shield that are able to withstand the temperature of the molten product.

Pneumatic conveying of powder and pellets can generate large static electrical charges. Electrical discharge in presence of air can cause an explosion. Earth all equipment. High dust concentrations have a potential for combustion or explosion. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before

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Avoid strong oxidizers.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from heat and direct sunlight.

The main hazards are related to pallet stock slippage and forklift truck maneuvers, which can cause injury to personnel. It is highly recommended that adequate procedures covering storage handling of pallets are established and maintained. These procedures must be kept up to date and regularly audited. In most cases, best practice is to stack pallets no more than 2 high. However, facilities responsible for storing the material should perform a site specific risk assessment to determine whether pallets can be stacked safely.

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name

Occupational exposure limits

Polypropylene

ACGIH TLV (United States, 2005).

TWA: 10 mg/m³ 8 hour(s). Form: Inhalable fraction PNOS

TWA: 3 mg/m³ 8 hour(s). Form: Respirable fraction PNOS

Personal protection

Eyes

Safety glasses with side shields. Use dust goggles if high dust concentration is generated.

Skin and body

Hot material: Wear heat-resistant protective gloves, clothing and face shield that are able to withstand the temperature of the molten product. Cold material: None required; however, use of protective clothing is good industrial practice.

Respiratory

Product processing, heat sealing of film, or operations involving the use of wires or blades heated above 300°C may produce dust, vapor or fumes. To minimize risk of overexposure to dust, vapor or fumes it is recommended that a local exhaust system is placed above the equipment, and that the working area is properly ventilated.

If ventilation is inadequate, use certified respirator that will protect against dust/mist.

Hands

Hot material: Wear heat-resistant protective gloves that are able to withstand the temperature of molten product. Cold material: None required; however, use of gloves is good industrial practice.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Consult your supervisor or S.O.P. for special handling directions

Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

Physical state	Granular solid. Pellets. Powder or flakes.
Odor	Faint Odor
Color	White, translucent or colorless.
Melting point / Range	155 to 165 °C
Specific gravity	<1
Solubility	Insoluble

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10. Stability and reactivity

Stability and reactivity	The product is stable.
Conditions to avoid	Stable under recommended storage and handling conditions (See Section: "Handling and storage"). If heated to more than 300°C, the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.
Incompatibility with various substances	Strong oxidizing materials
Hazardous decomposition products	Burning can produce carbon monoxide and/or carbon dioxide and other harmful products. The major decomposition products are low molecular weight oligomers (C6-18) of polypropylene. Degradation products may include trace amounts of acrolein, formaldehyde, aldehydes, and other organic vapors.
Hazardous polymerization	Will not occur.

11. Toxicological information

Chronic toxicity

Carcinogenic effects	No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).
Mutagenic effects	No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.
Reproductive effects	No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.
Teratogenic effects	No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

12. Ecological information

Ecotoxicity	No testing has been performed by the manufacturer.
Persistence/degradability	Not inherently biodegradable (polymer).
Mobility	This product is lighter than water and will float on the surface. This product is not likely to move rapidly with surface or groundwater flows because of its low water solubility.
Bioaccumulative potential	This product is not expected to bioaccumulate through food chains in the environment.
Other ecological information	Wildlife may ingest plastic pellets or bags. Although not toxic, such materials may physically block the digestive system, causing starvation or death.

13. Disposal considerations

Waste information	Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities.
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Consult your local or regional authorities.

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14. Transport information

Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO)

15. Regulatory information

U.S. Federal regulations

US INVENTORY (TSCA): In compliance.

This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

This product does not contain any hazardous ingredients at or above regulated thresholds.

SARA 313

Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification

This product does not contain any hazardous ingredients at or above regulated thresholds.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):: This material is not regulated under CERCLA Sections 103 and 107.

State regulations

No products were found.

California Prop 65: No products were found

Inventories

AUSTRALIAN INVENTORY (AICS): In compliance.

CANADA INVENTORY (DSL): In compliance.

CHINA INVENTORY (IECS): In compliance.

EC INVENTORY (EINECS/ELINCS): In compliance.

JAPAN INVENTORY (ENCS): In compliance.

KOREA INVENTORY (ECL): In compliance.

PHILIPPINE INVENTORY (PICCS): In compliance.

16. Other information

Label requirements

This product has been evaluated and does not require any hazard warning on the label under established regulatory criteria.

HMIS® Rating :

Health 0
Flammability 1
Physical Hazard 0
Personal protection X

National Fire Protection Association (U.S.A.)



Date of issue 01/04/2007.

Date of previous issue 06/09/2005.

Prepared by Product Stewardship

Notice to reader

The information in this Material Safety Data Sheet is based upon data considered to be accurate at the time of its preparation. This information in no way modifies, amends, enlarges, or creates any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. This information is a recommendation for safe handling, use, processing, storage, transportation, disposal, and release and INEOS USA LLC shall not be responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices, or from hazards inherent in the nature of the product and/or material. This information relates only to the specific product and/or material designated and may not be valid for such product and/or material used in combination with any other product and/or material or in any process, unless otherwise specified.

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(ENGLISH)

Material Safety Data Sheet

REVISION NO.: 4
REVISION DATE: 04/07/2010

I. PRODUCT IDENTIFICATION

PRODUCT NAME: BALL POWDER® Propellant
SYNONYMS: Smokeless Propellant
PRODUCT CODES: WC, WAA®, WCR®, WMG®, WMR®, WRF®, WPR®, WPT®, WSX®, SPI, SHP, WCUNI, OBP®, SMP®, M38, M47, M48

OSHA REGULATORY STATUS: This product may be considered to be a hazardous chemical under the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Applicable OSHA hazard classifications: explosive, toxic, blood toxin, skin and eye irritant.

II. PRODUCT COMPOSITION / EXPOSURE LIMITS

COMPONENT	CAS NO.	WEIGHT %	OSHA (PEL)	ACGIH (TLV)
Nitroglycerin	55-63-0	0-42	2 mg/m ³ ceiling (skin)	0.05 ppm TWA (skin)
Dibutyl Phthalate	84-72-2	0-10	5 mg/m ³ TWA	5 mg/m ³ TWA
Polyester Adipate	Supplier proprietary	0-10	None established	None established
Akardite II	13114-72-2	0-3	None established	None established
Ethyl Centralite (diethyldiphenylurea)	85-98-3	0-10	None established	None established
Rosin	8050-09-07	0-5	None established	None established
Ethyl Acetate	141-78-6	0-2	400 ppm TWA	400 ppm TWA
Diphenylamine	122-39-4	0-1.5	None established	None established
N-Nitrosodiphenylamine	86-30-6	0-1.5	None established	None established
Potassium Nitrate	7757-79-1	0-3	None established	None established
Potassium Sulfate	7778-80-5	0-3	None established	None established
Tin Dioxide	18282-10-5	0-1.5	2 mg/m ³ TWA	2 mg/m ³ TWA
Graphite	7782-42-5	0.02-1	5 mg/m ³ TWA	2 mg/m ³ TWA
Calcium Carbonate	1317-65-3	0-1	15 mg/m ³ TWA	10 mg/m ³ TWA
Trade Secret Component 1	Proprietary	0-10	None established	None established
Trade Secret Component 2	Proprietary	0-10	5 mg/m ³ TWA	3 mg/m ³ TWA
Trade Secret Component 3	Proprietary	0-5	None established	10 mg/m ³ TWA
Nitrocellulose	9004-70-0	Balance to 100	None established	None established

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER! FLAMMABLE/EXPLOSIVE. ACCIDENTAL FIRE OR EXPLOSION COULD CAUSE SEVERE INJURY OR DEATH. AVOID IMPACT, FRICTION, HEAT, SPARKS OR FLAME.

MAY BE HARMFUL IF INHALED OR INGESTED. HARMFUL UPON CONTACT WITH SKIN OR EYES.

ROUTES OF ENTRY: Inhalation, ingestion and skin/eye contact

POTENTIAL HEALTH EFFECTS:

INHALATION: Dust or vapor is irritating to the nose, mouth, throat and lungs. Dilation of blood vessels with drop in blood pressure and headache, cyanosis, and mental confusion may result from the nitroglycerin in the product. Headache may be severe and can remain for a few hours to several days. It typically starts at the forehead preceded by a sensation of warmth and fullness in the head and may extend to the back of the neck. Nausea, vomiting and abdominal pain may also occur.

INGESTION: Irritating to the gastrointestinal tract. Additional effects would be similar to those described for acute inhalation exposure.

EYES: Irritation may occur with inflammation of the conjunctive. Effects should not result in permanent impairment of vision.

SKIN: Dermal exposure may cause irritation which would subside rapidly upon removal of material without permanent damage. Additional effects would be similar to those described for acute inhalation exposure.

CHRONIC HEALTH EFFECTS: No additional effects are known or have been reported beyond those described for inhalation exposure.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Anemia and cardiovascular disease.

CARCINOGENICITY: This product contains N-Nitrosodiphenylamine, which is reported as a possible human carcinogen by IARC.

IV. FIRST AID MEASURES

EYES: Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation develops, call a physician.

SKIN: Immediately flush with water for at least 15 minutes. Call a physician. If clothing comes in contact with the product, the clothing should be removed immediately and should be laundered before re-use.

INGESTION: Immediately drink large quantities of water. Induce vomiting. Call a physician at once. **DO NOT** give anything by mouth if the person is unconscious or if having convulsions.

INHALATION: If person experiences nausea, headache or dizziness, person should stop work immediately and move to fresh air until these symptoms disappear. If breathing is difficult, administer oxygen, keep the person warm and at rest. Call a physician. In the event that an individual inhales enough vapor to lose consciousness, person should be moved to fresh air at once and a physician should be called immediately. If breathing has stopped, artificial respiration should be administered immediately.

V. FIRE-FIGHTING MEASURES

FLAMMABILITY LIMITS IN AIR (% BY VOLUME): LEL - Not Applicable UEL - Not Applicable

FLASH POINT: Not Applicable

AUTOIGNITION TEMPERATURE: 190-200 °C

EXPLOSIVE: Yes

FLAMMABLE: Yes

PYROPHORIC: No

NFPA RATINGS: Not Established

HMIS RATINGS:

Health: 2 Moderate
Flammability: 4 Severe
Reactivity: 4 Severe

EXTINGUISHING MEDIA: Large volumes of water should be applied as quickly as possible from automatic sprinklers or fire hose.

SPECIAL FIRE-FIGHTING PROCEDURES: Fires involving smokeless propellant should not be fought unless extinguishing media can be applied from a well protected (e.g. behind a berm or barricade) and distant location from the point of fire.

PERSONAL PROTECTION FOR FIRE-FIGHTING: Self-contained breathing apparatus (SCBA) and protective clothing must be worn. Protective clothing includes, but is not limited to, impervious boots, gloves, hard hat and chemically impermeable suit. Wash all clothing prior to reuse.

HAZARDOUS PRODUCTS OF COMBUSTION: Combustion products vary depending on fire conditions and other combustibles present in the fire. The predominant products will be carbon dioxide and oxides of nitrogen. Under some conditions, methane, carbon monoxide, irritating aldehydes and carboxylic acids and hydrogen cyanide may be formed.

VI. ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 1-800-424-9300.

REPORTABLE QUANTITY (per 40 CFR 302.4): Nitroglycerin (10 lbs.); Dibutyl Phthalate (10 lbs.); N-Nitrosodiphenylamine (100 lbs.); Ethyl Acetate (5000 lbs.)

SPILL MITIGATION PROCEDURES:

Clean up spills immediately using non-sparking utensils. Use caution, material is sensitive to ignition from sources such as heat, flame, impact, friction or sparks. Non-flammable or flame retardant clothing should be worn at all times.

AIR RELEASE: Not Applicable

WATER RELEASE: This material is heavier than water. Create an overflow dam with filtration capabilities to retain material. Divert water flow or stop flow if possible. Gather wet material using non-sparking utensils. Keep material damp until ready for disposal.

LAND SPILL: Clean-up of spill materials may be accomplished using non-sparking utensils. Non-flammable or flame retardant clothing should be worn at all times. Wet spill materials prior to initiating clean-up.

SPILL RESIDUES: Dispose of per guidelines under Section XIII. **DISPOSAL CONSIDERATIONS**

VII. HANDLING AND STORAGE

STORAGE CONDITIONS: Store in a cool, dry, well-ventilated place away from all sources of ignition.

RECOMMENDED STORAGE CONDITIONS: 21 °C (70 °F), 50% Relative Humidity (decomposition becomes measurable above 50 °C (122 °F))

DO NOT SUBJECT TO MECHANICAL SHOCK.

AVOID EXPOSURE TO SUNLIGHT OR ARTIFICIAL ULTRAVIOLET LIGHT.

PRODUCT STABILITY AND SHELF LIFE LIMITATIONS: Smokeless powder contains stabilizers and deteriorates very slowly under proper storage conditions. Old smokeless powder should be checked for deterioration regularly. Deteriorating smokeless powder produces an acidic odor and may produce reddish-brown fumes. Dispose of deteriorating smokeless powder through, for example, controlled open burning in small quantities (product should be submerged in water until burned).

Smokeless powder should not be exposed to excessive heat, as this can accelerate deterioration. Deterioration produces an acidity that accelerates further reaction and has been known, because of heat generated by the reaction, to cause spontaneous combustion.

INCOMPATIBLE MATERIALS FOR PACKAGING: No incompatible packaging materials known. Must be stored in original shipping container.

INCOMPATIBLE MATERIALS FOR STORAGE OR TRANSPORT: This product may react with acids, alkalis, oxidizers and amines, and should not be stored with such materials.

For additional information regarding handling and storage guidelines, see "Properties and Storage of Smokeless Powder", published by the SPORTING ARMS AND AMMUNITION MANUFACTURERS' INSTITUTE, INC. (SAAMI), 11 Mile High Road, Newtown, CT 06405 (www.saami.org)

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION FOR ROUTINE USE OF PRODUCT:

RESPIRATORY PROTECTION: Respiratory protection not normally needed. If significant dusting occurs, a NIOSH approved respirator with organic vapor cartridge and particulate filter should be worn.

VENTILATION: Local exhaust ventilation is recommended if significant dusting occurs. Otherwise, use general exhaust ventilation.

SKIN PROTECTIVE EQUIPMENT: Impermeable gloves

OTHER: Safety glasses with side shields, flame retardant outerwear (e.g. coveralls or lab coat)

IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Granular solid
FREEZING POINT:	Not Applicable
BOILING POINT:	Not Applicable
DECOMPOSITION TEMPERATURE:	Decomposition becomes measurable above 50 °C (122 °F)
AUTOIGNITION TEMPERATURE:	190-200 °C
SPECIFIC GRAVITY:	1.2-1.6
BULK DENSITY:	0.5-1 (g/cc)
pH at 25 °C:	Not Applicable
VAPOR PRESSURE at 25 °C:	< 1 mm Hg
SOLUBILITY IN WATER:	Negligible
VOLATILES, PERCENT BY VOLUME:	< 2
EVAPORATION RATE:	Negligible
VAPOR DENSITY:	Not Applicable
MOLECULAR WEIGHT:	Not Applicable - Mixture
ODOR:	None
COEFFICIENT OIL/WATER DISTR.:	No Data

X. STABILITY AND REACTIVITY

TEMPERATURES ABOVE 50 °C (122 °F):	Decomposition becomes measurable
MECHANICAL SHOCK OR IMPACT:	Yes, can ignite due to impact
ELECTRICAL (STATIC) DISCHARGE:	Yes, can ignite due to static discharge (minimum ignition energy 200 mJ)
HAZARDOUS POLYMERIZATION:	Will not occur
INCOMPATIBLE MATERIALS:	Strong acids, alkalis, oxidizers, amines
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide, oxides of nitrogen
OTHER CONDITIONS TO AVOID:	Direct sunlight and open flame

SUMMARY OF REACTIVITY:

OXIDIZER:	No
PYROPHORIC:	No
ORGANIC PEROXIDE:	No
WATER REACTIVE:	No
OTHER:	EXPLOSIVE

XI. TOXICOLOGICAL INFORMATION

Toxicological studies of the complete BALL POWDER® product mixture have not been conducted.

INTERACTIONS WITH OTHER CHEMICALS WHICH ENHANCE TOXICITY:

None known or reported.

ANIMAL TOXICOLOGY

ACUTE TOXICITY:

INHALATION LC 50: No available data

DERMAL LD 50: No available data

ORAL LD 50: Approximately 250 mg/kg (rat) based on acute oral toxicity of nitroglycerin

IRRITATION: Irritant to skin or eyes

ACUTE TARGET ORGAN TOXICITY:

Nitroglycerin will produce dilation of blood vessels and drop in blood pressure which may affect the heart. It has also been shown to cause methemoglobinemia (cyanosis).

CHRONIC TARGET ORGAN TOXICITY:

Diphenylamine has been shown to induce kidney damage. The low concentration of this material in, and the nature of the product, would preclude development of such an effect.

REPRODUCTIVE AND DEVELOPMENTAL TOXICITY:

There are no known or reported effects on reproductive function or fetal development.

CARCINOGENICITY:

This product contains N-Nitrosodiphenylamine, which is reported as a possible human carcinogen by IARC.

MUTAGENICITY:

This product or any of its ingredients are not known or reported to be mutagenic.

XII. ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Components of this product (Dibutyl Phthalate, Diphenylamine, Nitroglycerin) are known to be toxic to aquatic organisms.

XIII. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have EPA hazardous waste number D003.

If this product becomes a waste, it will be a hazardous waste which is subject to the Land Disposal Restrictions under 40 CFR 268 and must be managed accordingly.

If this material becomes a waste, it may be treated by controlled burning in small quantities, such as in a RCRA-permitted open burn unit (if permissible by relevant regulatory agencies). Material should be spread in thin layers and ignited from a safe distance.

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

XIV. TRANSPORT INFORMATION

THIS MATERIAL IS REGULATED AS A DOT HAZARDOUS MATERIAL.

DOT DESCRIPTION FROM THE HAZARDOUS MATERIALS TABLE 49 CFR 172.101:

LAND (U.S. DOT): POWDER, SMOKELESS, 1.3C, UN0161, PG II

WATER (IMO): POWDER, SMOKELESS, 1.3C, UN0161, PG II

AIR (IATA/ICAO): FORBIDDEN

HAZARD LABEL/PLACARD: EXPLOSIVE 1.3C

EMERGENCY GUIDE NO.: 112

St. Marks Powder
A GENERAL DYNAMICS COMPANY

P.O. Box 222
St. Marks, FL 32355
(850) 925-6111

TRANSPORTATION EMERGENCIES
CALL CHEMTREC 1-800-424-9300

Material Safety Data Sheet

XV. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT:

Components of this product are listed on the Toxic Substance Control Act inventory.

SUPERFUND AMENDMENT AND REAUTHORIZATION ACT TITLE III:

HAZARD CATEGORIES, PER 40 CFR 370.2:

HEALTH: Immediate (Acute)

PHYSICAL: Fire Hazard; Sudden Release of Pressure

EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW, PER 40 CFR 355: Not Applicable - product contains no Appendix A Extremely Hazardous Substances

SUPPLIER NOTIFICATION REQUIREMENTS, PER 40 CFR 372.45:

This mixture or tradename product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372. Specific chemicals: Dibutyl Phthalate, Nitroglycerin, N-Nitrosodiphenylamine, Diphenylamine

XVI. OTHER INFORMATION

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. THIS INFORMATION IS BELIEVED TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT NO WARRANTY IS IMPLIED. ADDITIONALLY, IF THIS MATERIAL SAFETY DATA SHEET IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ST. MARKS POWDER, INC. AT THE PHONE NUMBER LISTED BELOW TO CONFIRM THAT THIS INFORMATION IS CURRENT.

PREPARED BY:

St. Marks Powder, Inc.

P.O. Box 222

St. Marks, FL 32355-0222

Phone Number: (850) 925-6111

MATERIAL SAFETY DATA SHEET
Tritonal Tritinol Tritonal 80/20

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5. Fire Fighting Measures

Flash Pt: No data.
Explosive Limits: LEL: No data. UEL: No data.
Autoignition Pt: 570.00 F

Fire Fighting Instructions

Do not fight fires where TNT explosive is present. Isolate area and evacuate personnel to a safe place.

Wear NIOSH/MSHA approved SCBA and full protective equipment (FP N). Evacuate the area.

Flammable Properties and Hazards

Will detonate if suitably primed by heat or flame.

Highly dangerous. Shock will explode it. Will detonate if confined and exposed to extreme heat.

Extinguishing Media

Deluge with water. Use large quantities.

Unsuitable Extinguishing Media

No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Review fire and explosion hazards before proceeding with clean up. Remove all ignition sources. Wear protective equipment during clean up. Mop with water.

Clean up spill immediately using a soft bristle brush and a conductive rubber or plastic shovel.

7. Handling and Storage

Precautions To Be Taken in Handling

Transport and storage must be in compliance with state regulations.

Other Precautions

Refer to manufacturers' instructions and warnings supplied with product.

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)

Wear filter respirator, avoid dusting by keeping wet when possible.

Eye Protection

Chemical Goggles

Protective Gloves

Impervious Gloves

Other Protective Clothing

Flame-proof coveralls and conductive shoes.

Engineering Controls (Ventilation etc.)

General ventilation with local exhaust in operation area.

9. Physical and Chemical Properties

Physical States: [] Gas [] Liquid [X] Solid
Melting Point: 176.00 F
Boiling Point: 464.00 F
Autoignition Pt: 570.00 F

MATERIAL SAFETY DATA SHEET
Tritonal Tritinol Tritonal 80/20

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Flash Pt: No data.
Explosive Limits: LEL: No data UEL: No data.
Specific Gravity (Water = 1): 1.5
Density: 1660 G/L
Vapor Pressure (vs. Air or mm Hg): 57 KPA at 178.0 F
Vapor Density (vs. Air = 1): No data.
Evaporation Rate (vs Butyl Acetate=1): No data.
Solubility in Water: No data.
Other Solubility Notes
insoluble
Percent Volatile: 0.1 % by volume.
Corrosion Rate: No data.
pH: No data.
Appearance and Odor
Yellow flakes with bitter almond odor.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability

Avoid contact with alkaline materials. Will detonate if confined and exposed to extreme heat.

Incompatibility - Materials To Avoid

Sodium hydroxide, potassium hydroxide and other highly alkaline materials

Hazardous Decomposition Or Byproducts

Hazardous gases produced in fire are nitrogen oxides.

Hazardous Polymerization: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Polymerization

No data available.

11. Toxicological Information

Toxicological Information

No data available.

Carcinogenicity/Other Information

No data available.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method

Consult an explosive expert for recommended method for destroying explosive materials.

Burn on open burning ground in accordance with state and local regulations. May also be burned in an incinerator approved for explosives. Dispose of in accordance with federal, state and local regulations (FP N).

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Tritonal Tritinol Tritonal 80/20

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14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name	Tritonal
DOT Hazard Class:	1.1D
DOT Hazard Label:	EXPLOSIVE 1.1D
UN/NA Number:	UN0390
Packing Group:	II

Additional Transport Information

Transport and storage must be in compliance with state regulations.

15. Regulatory Information

No data available.

16. Other Information

Additional Information About This Product

All information in this MSDS has been obtained from sources considered reliable, but is submitted without any warranties.



Alliant Ammunition and Powder Co.
Radford Army Ammunitions Plant
P.O. Box 1

Radford, VA. 21414-0100
{ PRIVATE }

Regular Telephone No: (540) 639-8143
Emergency Telephone No: (540) 639-7323
CHEMTREC Emergency No.: (800) 424-9300
DATE: August 26, 1999 Revised July, 20, 2005

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: Propellant M-6 Standard

APPEARANCE:	solid	HMIS RATINGS	
COLOR:	yellow/tan in color black if coated with graphite	HEALTH HAZARD:	2 moderate
ODOR:	odorless	FLAMMABILITY HAZARD:	4 severe
CASRN:	proprietary mixture	REACTIVITY HAZARD:	4 severe

CHEMICAL DESCRIPTION: propellants

SECTION 2: HAZARDOUS COMPONENT INFORMATION

Chemical Name	CAS#	PEL/TLV
nitrocellulose	proprietary	not established
dibutylphthalate	proprietary	5 mg/m ³
dinitrotoluene	proprietary	0.15 mg/m ³
diphenylamine	proprietary	10 mg/m ³
potassium sulfate	proprietary	not established

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER!

Extremely flammable

Accidental firing or explosion is likely to cause severe injury or death.

Electrostatic charges generated by emptying package in or near flammable vapor may cause flash fire. May form flammable dust-air mixtures.

May cause skin irritation.

Ingestion may cause headache, insomnia, fatigue, nausea, vomiting, seizure, convulsions, and loss of consciousness.

SECTION 4: FIRST AID PROCEDURES

EYE: Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low pressure water for at least 15 minutes. Get immediate medical attention.

SKIN: Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Render unusable and discard contaminated shoes and leather articles.

INHALATION: Remove to fresh air. Give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

INGESTION: If conscious, drink large quantities of water. Induce vomiting. Call a physician or poison control center immediately. NEVER give anything by mouth to an unconscious person. NEVER induce vomiting in an unconscious person.

SECTION 5: FIRE HAZARD:

FIRE FIGHTING PROCEDURES: EVACUATE AREA IMMEDIATELY. DO NOT fight fire.

EXTINGUISHING MEDIA: Deluge with large quantities of water as quickly as possible by automatic sprinklers or fire hose from a protected location. Product is self-oxidizing.

CONDITIONS TO AVOID: Avoid impact, friction, heat, sparks, or flame. Avoid conditions that generate dust. This product may form flammable dust-air mixtures. Avoid emptying package in or near flammable vapors. Static charges may cause flash fire.

HAZARDOUS COMBUSTION PRODUCTS:

Combustion products include: carbon dioxide, nitrogen oxides, aldehydes, carboxylic acids, methane and hydrogen cyanide.

SECTION 6: ACCIDENTAL RELEASE MEASURES:

Clean up spills immediately using soft natural bristle brush and conductive rubber or conductive plastic shovel. Use caution; material is sensitive to initiation from sources such as heat, flame, shock, friction or sparks.

In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and General Hygiene Practices.

SECTION 7: HANDLING AND STORAGE:**GENERAL MEASURES:**

Electrically ground all equipment.
Blanket vessel with inert gas when emptying bags where flammable vapors may be present.
Electrically ground operator and pour material slowly into conductive, grounded chute.
DO NOT PRESSURIZE OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION
Follow appropriate D.O.D., N.F.P.A. and B.A.T.F. explosive safety measures. Local ordinances may apply.
For handling and storage requirement see 29 CFR 1910.109.
Store in cool, dry place: approximately 68°F (20°C)
Store only in Department of Transportation approved containers.
Check old product for deterioration regularly.
Keep container closed when not in use.

MATERIALS OR CONDITIONS TO AVOID:

Avoid storing product near incompatible materials. See MSDS Section 10
Do not store near flammable materials.
Do not keep deteriorated or salvaged product.
Keep away from heat, flame sparks and other ignition sources.
Do not store in direct sunlight or expose to UV radiation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**GENERAL HYGIENIC PRACTICES:**

Avoid contact with eyes, skin and clothing.
Avoid breathing dust, vapor, or mist.

Handle in areas with adequate ventilation.
Wash thoroughly after handling, and before eating, drinking, or smoking
Avoid contamination of food, beverages, or smoking materials.
Remove contaminated clothing promptly and clean thoroughly before reuse.

PERSONAL PROTECTIVE EQUIPMENT:

Safety glasses
Impervious gloves
Appropriate respiratory protection is required to reduce airborne contaminants may exceed acceptable limits. Respirators should be selected and used in accordance with OSHA, Subpart I (29 CFR 1910.134) and manufacturer's recommendations.
Flame-retardant clothing
Static-free clothing
Wear conductive safety shoes.

WORK PRACTICES AND ENGINEERING CONTROLS:

Material is shock sensitive. Use care in handling.
Friction can cause ignition. Keep away from ignition sources.
Prevent build-up of static electric charges.
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.
DO NOT smoke in areas where powder is stored or used.
Eyewash fountains and safety showers should be easily accessible

PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE:

Completely remove product from area, and thoroughly clean all equipment, piping, or vessel before beginning maintenance or repairs.
Eliminate ignition sources and prevent build-up of static electrical charges.
Use spark-proof tools and explosion-proof equipment.
A work permit system is recommended for any preparation and clean up.
Wetting work area with water will greatly reduce hazards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:

Volatile (Wt.): By volume less than 1.90% maximum
Solubility in Water: Negligible
Specific Gravity: ($H^0 = 1$)
Vapor Pressure: Negligible
Evaporation Rate: (Butyl Acetate = 1) less than 1

SECTION 10: STABILITY AND REACTIVITY:**GENERAL STABILITY CONSIDERATIONS:**

Stable under recommended handling and storage conditions.
Material is sensitive to friction, shock, impact, and electrostatic discharge.

INCOMPATIBLE MATERIALS:

Incompatible with: acids, oxidizing agents, alkalies and amines, and strong sunlight or ultraviolet light.

HAZARDOUS DECOMPOSITION PRODUCTS:

None anticipated under normal or recommended handling and storage conditions.

HAZARDOUS POLYMERIZATION:

Not anticipated under normal or recommended handling and storage conditions

SECTION 11: TOXICOLOGICAL INFORMATION**REPORTED HUMAN EFFECTS: CARCINOGENICITY/TERATOGENICITY INFORMATION:**

2,4-Dinitrotoluene (DNT) - Harmful if inhaled or absorbed through skin; reduces blood's oxygen carrying capacity. Symptoms may be delayed. Causes skin and eye irritation. May cause cancer based on tests with laboratory animals.

2,4-DNT is a slight eye irritant, a slight to mild skin irritant, but is not a skin sensitizer in tests with laboratory animals. Toxicity described in animals from a single skin application included cyanosis, low red blood cell counts, liver and bone marrow damage, congested spleen, distended gall bladder, and edema of the brain.

Individuals with preexisting diseases of the cardiovascular system, nervous, bone marrow, or liver may have increased susceptibility to the toxicity of excessive exposures

The ACGIH has established Biological Inducers (BEI) for methemoglobin inducers of 1.5-% methemoglobin in blood.

REPORTED ANIMAL EFFECTS:

Toxic effects described in animals from a single inhalation exposure include labored breathing and irritation. By ingestion, single exposures produced cyanosis and incoordination. Repeated exposures produced changes in the liver, spleen, and kidney, and changes in blood analysis (especially methemoglobinemia), testicular degeneration with depressed spermatogenesis, and incoordination.

Tests in some animals demonstrate carcinogenic activity with the potency increasing as the level of 2,6-dinitrotoluene increases. Some tests with pure 2,4-Dinitrotoluene suggest that this isomer may not be carcinogenic. Test in animals demonstrate reproductive toxicity, but do not demonstrate developmental toxicity. The compound produced genetic damage in bacterial and mammalian cell cultures as well as in animals.

POTENTIAL HEALTH HAZARD ASSOCIATED WITH OPEN AIR BURNING OF M-6 PROPELLANTS

1. Recent studies conducted by the U. S. Army Environmental Hygiene Agency (USAEHA) have shown that the solid residue produced by the open air burning of M-6 propellant may be hazardous. This finding is specific to residues from open air burning and does not apply to residue remaining in the breach and barrel of the broad range of military weapons after firing. M-6 propellant residue composition is almost chemically identical to the M-1 residue and should be considered to present the same potential hazard.

2. Research is on going to further quantify the potential hazard of the residue and smoke as well as to characterize worker exposures at installation burning grounds and in the field.

3. Although some information remains to be gathered, we are certain that the overall effects of exposure to the potentially hazardous propellant residues are dependent upon the duration and magnitude of exposure. In an effort to minimize exposure, all activities conducting open air burning of M-6 propellant, whether in Garrison or in the field should take the following actions:

- a. Inform all potentially exposed personnel participating in open air burning of these propellants that direct skin contact with the solid residue or inhalation of the smoke may be a health hazard. Prohibit smoking, eating, or drinking in areas where propellant is being burned.
- b. Review SOP's for open air burning of these propellants to ensure they prescribe burning in a burn pan and to ensure that solid residues are treated as potentially toxic waste IAW installation disposal policies.
- c. Review SOP's to ensure that they prescribe burning and disposal methods, which preclude unprotected personnel from contacting the smoke or residues from open air burning.
- d. In those cases where direct contact with solid residue or smoke cannot be avoided, ensure that personal protective measures are used to include the appropriate use of gloves, coveralls, and respirators. Occupational health personnel from the supporting medical unit activity can assess potential exposures and recommend specific protective equipment. Require thorough handwashing before eating, smoking, or using toilet facilities.

SECTION 12: ECOLOGICAL INFORMATION:

ECOLOGICAL INFORMATION:

SECTION 13: DISPOSAL CONSIDERATIONS:

Disposal (if explosive) should be carried out under the direct supervision of a qualified person. Call Alliant Techsystems for assistance if needed. For industrial disposal, federal hazardous waste regulation allows open burning of explosive wastes in permitted facilities. Burn in the open in an isolated location in small, shallow piles not over one inch deep.

Quantity burned at any one time should not exceed one pound. Use an ignition train of slow-burning combustible material to permit retreat to a safe distance.

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT:

For information regarding transportation of this product, please contact Alliant Techsystems at 540-638-8134

SECTION 15: REGULATORY INFORMATION:

The following environmental and regulatory data are provided to assist users of this product on defining their regulatory environmental compliance.

SARA SEC. 313 Chemicals

	Sec. 302	Section 304		Sec. 313	RCRA Code
	(EHS) TPQ	EHS RQ	CERCLA RQ		
	-----	---	-----	---	----
Product or Components					
Dibutylphthalate			10	313	U069
Dinitrotoluene			10	313	U105
Diphenylamine				313	

Section 313:

This product does contain chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40CFR375.

CERCLA

This product does contain chemicals subject to reporting as a CERCLA Hazardous Substances under 40CFR302.4.

RCRA

This product exhibits the following characteristics listed in 40CFR261, Subpart C: ignitability and reactivity (D003).

SECTION 16: OTHER INFORMATION

LIST OF ACRONYMS:

ACHIH:	American Conference of Governmental Industrial Hygienist
AICS:	Australian Inventory of Chemical Substances
AIHA WEEL:	American Industrial Hygienists Association - Workplace Environmental Exposure Level
ANSI:	American National Safety Institute
C:	Ceiling
CASRN:	Chemical Abstracts Service Registry Number
CERCLA:	Comprehensive Emergency Response, Compensation and Liability Act
DSL:	Domestic Substances List (Canadian)
EIECCS:	European Inventory of Existing Commercial Chemical Substances
EMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
MITI:	Ministry of International Trade and Industry (Japanese)
N/A:	Not Applicable
NDSL:	Non-domestic Substances List (Canadian)
NOR:	Not Otherwise Regulated
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
RCRA:	Resource Conservation and Recovery Act
RQ:	Reportable Quantity
SARA:	Superfund Amendment Reauthorization Act
STEL:	Short Term Exposure Limit
TLV:	Threshold Limit Value (ACGIH)
TPQ:	Threshold Planning Quantity
TSCA:	Toxic Substances Control Act
TWA:	Time Weighted Average

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.



Alliant Ammunition & Powder Company, LLC
Radford Army Ammunitions Plant
Radford, VA. 24141

Material Safety Data Sheet

Section 1. Product Information

Product Name: Isotrioil
Trade Names and Synonyms:
LLC MSDS Number:
Preparation Date:

Business Hours: 540-639-7323
24 Hr. Spill (Chemtrec): 1-800-424-9300

Section 2. Composition/Information On Ingredients

<u>Chemical Name</u>	<u>CAS#</u>	<u>Applicable Exposure Limits</u>	
		<u>OSHA</u>	<u>ACGIH</u>
Trinitrotoluene	118-96-7	1.5 mg/m ³ (skin)	0.1 mg/m ³ (skin)
2,4-Dinitrotoluene	121-14-2	Not Listed	0.2 mg/m ³ TWA; skin - Potential for cutaneous absorption
2,6-Dinitrotoluene	606-20-2	Not Listed	
Dinitrotoluene (mixed isomers):		1.5 mg/m ³ TWA	

Section 3. Hazard Identification

Emergency Overview

Danger

Accidental firing or explosion is likely to cause severe injury or death.
Flammable or explosive when exposed to heat or flame.
Will detonate under shock.
Do not store near flammable materials.
May be fatal if inhaled. Harmful if swallowed or absorbed through the skin.
Possible risk of impaired fertility.

Section 3. Hazard Identification Continued

Eye: May cause stinging or burning irritation

Skin: Skin absorption may cause headache, skin irritant, dermatitis

Ingestion: Harmful if swallowed. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May form methemoglobin which in sufficient concentration causes cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood).

Inhalation: Causes respiratory tract irritation. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate.

Cancer Information	NTP: NA	OSHA: OSHA: Possible	IARC: IARC: Group
DNT: CAS# 606-20-2		Select carcinogen	2B carcinogen

Section 4. First Aid Measures

Eyes: Hold eyelids open and immediately flush eyes with water for 15 minutes.

Skin: Remove contaminated clothing and wash skin with a mild soap and water. Clothing should be washed prior to reuse.

Ingestion: Contact a poison control center or physician. **NEVER** induce vomiting in an unconscious person.

Inhalation: Remove affected person from exposure and into fresh air immediately. Treat symptoms accordingly.

Section 5. Fire Fighting Measures

Flammable Limits in air: LEL: UEL:

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide

Extinguishing Media: FIRE FIGHTING PROCEDURES: EVACUATE IMMEDIATELY
DO NOT FIGHT FIRE.

EXTINGUISHING MEDIA: Deluge with large quantities of water as quickly as possible by automatic sprinklers or fire hose from a protected location. Product is self-oxidizing.

Section 6. Accidental Use Measures

Spills and Leaks: Review fire and explosive hazards before proceeding with clean up.
Remove all ignition sources. Wear protective equipment during clean up.

Section 7. Handling Information

Highly dangerous, storage must conform to local, state and Federal Regulations. Store in cool, dry area. Store only in Department of Transportation approved containers. Keep containers closed when not in use

Section 8. Exposure Control Measures

Respiratory Protection: Appropriate respiratory protection required when exposure to airborne contaminant is likely to exceed acceptable limits. Respirators should be selected and used in accordance with OSHA Subpart I (29 CFR 1910.134) and manufacturer's recommendations

Hand Protection: Impervious gloves.

Eye Protection: Safety glasses with side shields.

Ventilation: Adequate ventilation should be provided to keep dust concentrations below acceptable exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.

General Hygiene Practices: Avoid contact with eyes, skin and clothing.
Avoid breathing dust, vapors or mist.
Handle in areas with adequate ventilation.
Wash thoroughly after handling, and before eating, drinking, or smoking.
Avoid contamination of food, beverages, or smoking materials
Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9. Physical And Chemical Properties

Boiling Point:	Solubility:
Melting Point:	Specific Gravity:
Vapor Pressure:	pH:
Vapor Density:	Odor:
Appearance:	

Section 10. Stability and Reactivity

Stability: Stable under normal conditions.

Incompatibilities: Nitric acid, metals e.g., lead or iron, Bases e.g., sodium hydroxide, potassium iodide.

Conditions to Avoid: PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE: Eliminate ignition sources and prevent build-up of static electric charges. Remove all explosives from the area. A permit system is recommended to control cleanup and preparation especially before any work is performed which produces impact, friction, or heat. Wetting the area with water before work, if possible, will greatly reduce hazards.

Section 11. Toxicological Information

TNT

TNT is absorbed through the digestive tract, skin, and lungs. Workers involved in the production of explosives that were exposed to high concentrations of TNT in air experienced several harmful health effects, including anemia and abnormal liver function. Similar blood and liver effects, as well as spleen enlargement and other harmful effects on the immune system, have been observed in animals that ate or breathed TNT. Other effects in humans include skin irritation after prolonged skin contact and cataract development after long-term (365 days or longer) exposure. It is not known whether TNT can cause birth defects in humans. However, male animals treated with high doses of TNT have developed serious reproductive system effects.

No epidemiological evidence is available showing an association between chronic TNT exposure and tumorigenicity in humans. In animal carcinogenicity studies, a significant increase in urinary bladder papillomas and carcinomas was seen in rats. TNT is classified in weight-of-evidence Group C, possible human carcinogen.

DNT

A3 - Confirmed animal carcinogen with unknown relevance to humans. Dinitrotoluene causes methemoglobinemia, the loss of the blood's oxygen-carrying capacity, in exposed workers. The first symptom of methemoglobinemia is headache, followed by fatigue, nausea, vomiting, and chest pain; onset may be delayed as long as 4 hours after exposure.

Chronic exposure to dinitrotoluene causes anemia and jaundice. The signs and symptoms of dinitrotoluene poisoning are intensified by alcohol ingestion. DNT can be absorbed through the skin in toxic amounts. A study of DNT's reproductive effects in workers showed decreased sperm counts, slight abnormalities in the sperm of workers

Section 12. Ecological Data

NA

Section 13. Disposal Considerations

Disposal of explosives should be carried out under the direct supervision of a qualified person. For industrial disposal, review federal hazardous waste regulations. Do not breathe products of combustion. State or local regulations may be more stringent than federal regulations. For disposal of small quantities, contact state or local environmental agencies for options.

Section 14. Transportation Information

U.S. DOT Proper Shipping Name:
 UN ID No.:
 Class & Division:
 Packing Group.:

Section 15. Regulatory Information

Environmental:

Chemical

<u>Name</u>	<u>EPCRA 313</u> <u>(Applies ?)</u>	<u>EPCRA 313</u> <u>TPO (lbs)</u>	<u>EPCRA 302</u> <u>EHS</u>	<u>EPCRA 302</u> <u>TPO (lbs.)</u>	<u>CERCLA RO</u> <u>(lbs.)</u>
Trinitrotoluene (TNT)	NA	NA	NA	NA	NA
2,4-dinitrotoluene	Yes	25,000	NA	NA	10
2,6-dinitrotoluene	NA	NA	NA	NA	100

Section 16. Information Sources

This MSDS has been prepared from information obtained from one or more of the following: the manufacturer of the components, ACGIH TLV Documentation, NIOSH/OSHA Health Guidelines for Chemical Hazards, Patty's Industrial Hygiene and Toxicology Series, the NTP Annual Report on Carcinogens, and applicable International Agency For Research on Cancer (IARC) monographs.

The information contained herein has been researched by Alliant Techsystems' Industrial Hygienist based upon current available scientific information and component manufacturer's data. Abuse or unforeseen circumstances are not addressed here. Information may be developed from time to time which may render the conclusions of the MSDS obsolete. Alliant Techsystems makes no warranties to its' agents, employees, or contractors as to the applicability of this information to the user's intended purpose or for consequences for its use or misuse.

Corporate MSDS Template Version I.doc
ANSI Z-400.1998
3/20/2002



Radford Army Ammunitions Plant
P.O. Box 1
Radford, VA. 21414-0100

Regular Telephone No.: (540) 639-8143
Emergency Telephone No.: (540) 639-7323
CHEMTREC Emergency No.: (800) 424-9300
DATE: November 2, 1999 (Revised 10/3/2010)

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: Nitrocellulose, Wet With Water

APPEARANCE: fibrous flake,

HMIS RATINGS

COLOR: white

HEALTH HAZARD: 0 slight

FLAMMABILITY HAZARD: 1 moderate

ODOR: odorless

REACTIVITY HAZARD: 1 slight

CASRN: mixture

CHEMICAL DESCRIPTION: Nitrocellulose, Wet with Water

SECTION 2: HAZARDOUS COMPONENT INFORMATION

<u>Chemical Name</u>	<u>WT%</u>	<u>PEL/TLV</u>
Nitrocellulose	75% MAX	not established
Water	25% MIN	not established

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER!

Extremely flammable when dry
Electrostatic charges generated by emptying package in or near flammable vapor may cause flash fire.
May form flammable dust-air mixtures.
May cause skin irritation.

SECTION 4: FIRST AID PROCEDURES

INHALATION: Remove victim to fresh air. Maintain open airway and restore breathing if necessary. Seek medical attention immediately.

EYE CONTACT: Hold eyelids open and flush eyes for 15 minutes with quantities of water. Seek medical attention immediately.

SKIN CONTACT: Remove contaminated clothing. Wash area with soap and water. Seek medical attention if needed.

INGESTION: If victim is conscious, provide water and induce vomiting. Seek medical attention immediately.

SECTION 5: FIRE HAZARD:

FIRE FIGHTING PROCEDURES: EVACUATE AREA IMMEDIATELY. Fight fire with caution.

EXTINGUISHING MEDIA: Deluge with large quantities of water as quickly as possible by automatic sprinklers or fire hose from a protected location.

CONDITIONS TO AVOID: Nitrocellulose should never be permitted to become dry. It is highly dangerous in the dry state since it can easily be ignited and burns rapidly with intense heat. Under certain conditions, the burning of wet nitrocellulose will result in the evolution of large volumes of toxic fumes. Any person breathing the fumes from burning nitrocellulose should be placed promptly under a physician's care.

HAZARDOUS COMBUSTION PRODUCTS:

Combustion product varies depending on fire conditions and other combustibles present on the fire. The predominant products will be carbon monoxide, carbon dioxide, and nitrogen oxides. Under some conditions, methane, irritating aldehydes and carboxylic acids and hydrogen cyanide may be formed.

SECTION 6: ACCIDENTAL RELEASE MEASURES:

Immediately soak spilled material with water and remove to covered metal containers. Add water to containers. Do not allow material to become dry.

SECTION 7: HANDLING AND STORAGE:**GENERAL MEASURES:**

Handle carefully - Do not puncture, drop or slide container
Control inventory. Use oldest material first.
This product may react with alkaline materials and strong acids and should not be stored near such material.
Electrically bond and ground the drum while emptying.
Do not allow contents to become dry.
Avoid exposure to heat; rate of deterioration will increase with increasing temperature and time.
Regardless of the wetting agent, nitrocellulose should never be permitted to become dry. When ignited in the dry state, it burns very rapidly with intense heat. Spilled material should be soaked with water and removed to a covered metal container.

MATERIALS OR CONDITIONS TO AVOID:

Avoid storing product near incompatible materials. See MSDS Section 10
Do not store near flammable materials.
Do not keep deteriorated or salvaged product.
Keep away from heat, flame sparks and other ignition sources.
Do not store in direct sunlight or expose to UV radiation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**GENERAL HYGIENIC PRACTICES:**

Avoid contact with eyes, skin and clothing.
Avoid breathing dust, vapor, or mist.
Wash thoroughly after handling, and before eating, drinking or smoking.

PERSONAL PROTECTIVE EQUIPMENT:

Safety glasses and or goggles
Impervious gloves
Respiratory protection is normally not required. However if airborne contaminants exceed acceptable limits, respirators should be selected and used in accordance with OSHA, Subpart I (29 CFR 1910.134) and manufacturer's recommendations.
Flame-retardant clothing
Static-free clothing
Wear conductive safety shoes.

WORK PRACTICES AND ENGINEERING CONTROLS:

Use care in handling.
Friction can cause ignition. Keep away from ignition sources.
Prevent build-up of static electric charges.
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.
DO NOT smoke in areas where powder is stored or used.

PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE:

Completely remove product from area, and thoroughly clean all equipment, piping, or vessel before beginning maintenance or repairs.
Eliminate ignition sources and prevent build-up of static electrical charges.
Use spark-proof tools and explosion-proof equipment.
A work permit system is recommended for any preparation and clean-up.
Wetting work area with water will greatly reduce hazards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:

Volatile (Wt.) %: 25 % nominal
Solubility in Water: 25 % nominal
Specific Gravity: N/A
Density: 1.66 this for NC not 75% nc/water
Vapor Pressure: N/A
Evaporation Rate: N/A
Boiling Point: 100 °C

Property of the wetting agent and, property of product may be different.

SECTION 10: STABILITY AND REACTIVITY:**GENERAL STABILITY CONSIDERATIONS:**

Stable. Conditions to avoid: rate of deterioration increases with increasing temperature and time. Avoid exposure to heat. Use oldest material first.

INCOMPATIBLE MATERIALS:

Alkaline materials and strong acids.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION:

Not anticipated under normal or recommended handling and storage conditions

EMPTY DRUMS:

In accordance with "CFR Title 49 para. 173.29 Empty Packaging" the following steps will be required before shipping galvanized returnable drums. Remove plastic bags, wash and/or rinse any RESIDUE nitrocellulose from the inside of the drum to the bottom of the container. Rinse a second time in the upside down position prior to air dry.

Empty drums shall not contain residue nitrocellulose that will release flammable vapors which may explode, causing severe injury or death. Keep away from heat, flames sparks or other sources of ignition. Do not cut, weld, drill, grind or puncture drum.

When non-returnable painted drums are empty, the drums should be wiped with a rag or cloth dampened with water, the cover should then be placed on and sealing ring tightened with nonsparking tools. The rags, after use, should be placed in a covered wasted container, wet down with water and disposed of at the end of the day.

Non returnable drums after being purged of all hazardous residues, should be reconditioned and tested by an approved drum reconditioned before reuse, or disposed of in an environmentally approved manner and in accordance with all legal requirements.

Any waste generated from washing or cleaning these drums should be disposed of in accordance with all Federal, State and Local Hazardous Waste Regulations.

SECTION 11: TOXICOLOGICAL INFORMATION**REPORTED HUMAN EFFECTS: CARCINOGENICITY/TERATOGENICITY INFORMATION:**

None Known

Reported Animal Effects:

None Known

SECTION 12: ECOLOGICAL INFORMATION:

ECOLOGICAL INFORMATION: NA

SECTION 13: DISPOSAL CONSIDERATIONS:

Any method of disposal must be in accordance with local, state, and federal hazardous waste regulations.

1. Large quantities - Burn in thin layers (no more than 2" deep) in an outside, open isolated location. Do not burn in a boiler firebox, incinerator, or other confining equipment.

2. Small quantities - In a well-ventilated area as a laboratory hood, denitrate in an aqueous solution of 5% sodium hydroxide. Always be certain that only small quantities of nitrocellulose that have been thoroughly wetted with water are added to the 5% sodium hydroxide solution. The slurry should be stirred until the nitrocellulose has been dissolved and the aqueous solution pH is basic. The digested material can then be flushed to a waste disposal settling pond or chemical sewer using large quantities of water.

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT:

For information regarding transportation of this product, please contact Alliant Techsystems at (540) 693-7323

D.O.T. Shipping Name	Nitrocellulose, With Water
Technical Shipping Name	Same as above
D.O.T. Hazard Classification	4.1
UN/NA No.	UN2555

SECTION 15: REGULATORY INFORMATION:

The following environmental and regulatory data are provided to assist users of this product in defining their regulatory environmental compliance.

SARA SEC> 313 Chemicals

	Sec. 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Sec. 313	RCRA Code
	-----	-----	-----	-----	-----
Product or Components	na	na	na	na	na

Section 313

This product not does contain chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40 CFR. 375.

SECTION 16: OTHER INFORMATION

LIST OF ACRONYMS:

ACHIB:	American Conference of Governmental Industrial Hygienist
AICS:	Australian Inventory of Chemical Substances
AIHA WEEL:	American Industrial Hygienists Association - Workplace Environmental Exposure Level
ANSI:	American National Safety Institute
C:	Ceiling
CASRN:	Chemical Abstracts Service Registry Number
CERCLA:	Comprehensive Emergency Response, Compensation and Liability Act
DSL:	Domestic Substances List (Canadian)
EIECCS:	European Inventory of Existing Commercial Chemical Substances
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
MITI:	Ministry of International Trade and Industry (Japanese)
N/A:	Not Applicable
NDSL:	Non-domestic Substances List (Canadian)
NOR:	Not Otherwise Regulated
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit

RCRA: Resource Conservation and Recovery Act
RQ: Reportable Quantity
SARA: Superfund Amendment Reauthorization Act
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value (ACGIH)
TFQ: Threshold Planning Quantity
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.



Alliant Ammunition and Powder Co.
Radford Army Ammunitions Plant
P.O. Box 1
Radford, VA. 21414-0100

Regular Telephone No.: (540) 639-8143
Emergency Telephone No.: (540) 639-7323
CHEMTREC Emergency No.: (800) 424-9300
DATE: September 2, 1999 Revised July 20, 2005

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: Propellant PAP 7993

APPEARANCE: small circular

HMS RATINGS

COLOR: yellowish/white

HEALTH HAZARD: 2 moderate

FLAMMABILITY HAZARD: 4 severe

ODOR: odorless

REACTIVITY HAZARD: 4 severe

CASRN: mixture

CHEMICAL DESCRIPTION: propellant

SECTION 2: HAZARDOUS COMPONENT INFORMATION

Chemical Name	CAS#	PEL/TLV
Nitrocellulose (13.15% N)	9004-70-0	Not established
Acetyl Tri-ethyl Citrate	77-89-4	Not established
Ethyl Centralite	85-98-3	Not established
Potassium Sulfate	7778-80-5	Not established

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER!

Extremely flammable

Accidental firing or explosion is likely to cause severe injury or death.

Electrostatic charges generated by emptying package in or near flammable vapor may cause flash fire.

May form flammable dust-air mixtures.

May cause skin irritation.

SECTION 4: FIRST AID PROCEDURES

EYE: Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

SKIN: Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse.

INHALATION: Remove to fresh air. Give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

INGESTION: If conscious, drink large quantities of water. Induce vomiting. Call a physician or poison control center immediately. NEVER give anything by mouth to an unconscious person. NEVER induce vomiting in an unconscious person.

SECTION 5: FIRE HAZARD:

FIRE FIGHTING PROCEDURES: EVACUATE AREA IMMEDIATELY. DO NOT fight fire.

EXTINGUISHING MEDIA: Deluge with large quantities of water as quickly as possible by automatic sprinklers or fire hose from a protected location. Product is self-

oxidizing.

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CONDITIONS TO AVOID: Avoid impact, friction, heat, sparks, or flame.
Avoid conditions that generate dust. This product may form flammable dust-air mixtures.
Avoid emptying package in or near flammable vapors. Static charges may cause flash fire.

HAZARDOUS COMBUSTION PRODUCTS:

Combustion products include: carbon dioxide, nitrogen oxides, aldehydes, carboxylic acids, methane and hydrogen cyanide.

SECTION 6: ACCIDENTAL RELEASE MEASURES:

Clean up spills immediately using soft natural bristle brush and conductive rubber or conductive plastic shovel. Use caution; material is sensitive to initiation from sources such as heat, flame, shock, friction or sparks.
In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and general Hygiene Practices.

SECTION 7: HANDLING AND STORAGE:

GENERAL MEASURES:

Electrically ground all equipment.
Blanket vessel with inert gas when emptying bags where flammable vapors may be present.
Electrically ground operator and pour material slowly into conductive, grounded chute.
DO NOT PRESSURIZE OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION
Follow appropriate DOD, N.F.P.A. and B.A.T.F. explosive safety measures. Local ordinances may apply.
For handling and storage requirement see 29 CFR 1910.109.
Store in cool, dry place: approximately 68°F (20°C)
Store only in Department of Transportation approved containers.
Check old product for deterioration regularly.
Keep container closed when not in use.

MATERIALS OR CONDITIONS TO AVOID:

Avoid storing product near incompatible materials. See MSDS Section 10
Do not store near flammable materials.
Do not keep deteriorated or salvaged product.
Keep away from heat, flame sparks and other ignition sources.
Do not store in direct sunlight or expose to UV radiation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL HYGIENIC PRACTICES:

Avoid contact with eyes, skin and clothing.
Avoid breathing dust, vapor, or mist.
Handle in areas with adequate ventilation.
Wash thoroughly after handling, and before eating, drinking, or smoking
Avoid contamination of food, beverages, or smoking materials.
Remove contaminated clothing promptly and clean thoroughly before reuse.

PERSONAL PROTECTIVE EQUIPMENT:

Safety glasses
Impervious gloves
Appropriate respiratory protection is required to reduce airborne contaminants, which may exceed acceptable limits. Respirators should be selected and used in accordance with OSHA, Subpart Y (29 CFR 1910.134) and manufacturer's recommendations.
Flame-retardant clothing
Static-free clothing
Wear conductive safety shoes.

WORK PRACTICES AND ENGINEERING CONTROLS:

Material is shock sensitive. Use care in handling.
Friction can cause ignition. Keep away from ignition sources.

Prevent build-up of static electric charges.
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.
DO NOT smoke in areas where powder is stored or used.
Eyewash fountains and safety showers should be easily accessible.

PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE:

Completely remove product from area, and thoroughly clean all equipment, piping, or vessel before beginning maintenance or repairs.
Eliminate ignition sources and prevent build-up of static electrical charges.
Use spark-proof tools and explosion-proof equipment.
A work permit system is recommended for any preparation and clean up.
Wetting work area with water will greatly reduce hazards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:

Volatile (Wt.)%: By volume less than 2.25 maximum
Solubility in Water: Negligible
Specific Gravity: ($\text{H}^2\text{O} = 1$)
Vapor Pressure: Negligible
Evaporation Rate: (Butyl Acetate = 1) less than 1

SECTION 10: STABILITY AND REACTIVITY:

GENERAL STABILITY CONSIDERATIONS:

Stable under recommended handling and storage conditions.
Material is sensitive to friction, shock, impact, and electrostatic discharge.

INCOMPATIBLE MATERIALS:

Incompatible with: acids, oxidizing agents, alkalies and amines, and strong sunlight or ultraviolet light.

HAZARDOUS DECOMPOSITION PRODUCTS:

None anticipated under normal or recommended handling and storage conditions.

HAZARDOUS POLYMERIZATION:

Not anticipated under normal or recommended handling and storage conditions

SECTION 11: TOXICOLOGICAL INFORMATION

REPORTED HUMAN EFFECTS: CARCINOGENICITY/TERATOGENICITY INFORMATION:

Moderately toxic to humans by ingestion

SECTION 12: ECOLOGICAL INFORMATION:

ECOLOGICAL INFORMATION: N/A

SECTION 13: DISPOSAL CONSIDERATIONS:

Disposal (if explosive) should be carried out under the direct supervision of a qualified person. Call Alliant Techsystems for assistance if needed. For industrial disposal, federal hazardous waste regulations allow open burning of explosive wastes in permitted facilities. Burn in the open in an isolated location in small, shallow piles not over one inch deep. Quantity burned at any one time should not exceed one pound. Use an ignition train of slow burning combustible material to permit retreat to a safe distance.

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT:

For information regarding transportation of this product, please contact Alliant Techsystems at 540-639-8743

SECTION 15: REGULATORY INFORMATION:

The following environmental and regulatory data are provided to assist users of this product in defining their regulatory environmental compliance.

SARA SEC. 313 Chemicals

Product or Components	Sec. 302	Section 304		Sec.	RCRA
	(EHS) TPQ	EHS RQ	CERCLA RQ	313	Code
	-----	---	----	----	-----
Product or Components	na	na	na	na	na

None

This product does not contain any chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40CFR375.

CERCLA

This product does not contain any chemical subject to reporting as a CERCLA Hazardous Substances under 40CFR302.4.

RCRA

This product exhibits the following characteristics listed in 40CFR261, Subpart C: ignitability and reactivity (D003).

SECTION 16: OTHER INFORMATION

LIST OF ACRONYMS:

ACGIH:	American Conference of Governmental Industrial Hygienist
AICS:	Australian Inventory of Chemical Substances
AIHA WEEL:	American Industrial Hygienists Association - Workplace Environmental Exposure Level
ANSI:	American National Safety Institute
C:	Ceiling
CASRN:	Chemical Abstracts Service Registry Number
CERCLA:	Comprehensive Emergency Response, Compensation and Liability Act
DSL:	Domestic Substances List (Canadian)
EIECCS:	European Inventory of Existing Commercial Chemical Substances
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
MITI:	Ministry of International Trade and Industry (Japanese)
N/A:	Not Applicable
NDSL:	Non-domestic Substances List (Canadian)
NOR:	Not Otherwise Regulated
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
RCRA:	Resource Conservation and Recovery Act
RQ:	Reportable Quantity
SARA:	Superfund Amendment Reauthorization Act
STEL:	Short Term Exposure Limit
TLV:	Threshold Limit Value (ACGIH)
TPQ:	Threshold Planning Quantity
TSCA:	Toxic Substances Control Act
TWA:	Time Weighted Average

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.



Alliant Ammunition & Powder Company, LLC
Radford Army Ammunitions Plant
Radford, VA. 24141

Material Safety Data Sheet

Section 1. Product Information

Product Name: TNT
Trade Names and Synonyms: 2,4,6 Trinitrotoluene, Trinitrotoluol (TNT)
LLC MSDS Number:
Preparation Date: 9/7/2005 Revised 1/10/08
Business Hours: 540-639-7323
24 Hr. Spill (Chemtec): 1-800-424-9300

Section 2. Composition/Information On Ingredients

<u>Chemical Name</u>	<u>CAS#</u>	<u>OSHA</u>	<u>Applicable Exposure Limits</u> <u>ACGIH</u>	<u>Other</u>
Trinitrotoluene Type I Flake Form	118-96-7	1.5 mg/m3 (skin)	0.1 mg/m3 (skin)	

Section 3. Hazard Identification

Emergency Overview

Danger

Accidental firing or explosion is likely to cause severe injury or death.
Flammable or explosive when exposed to heat or flame.
Will detonate under strong shock
Do not store near flammable materials.

Section 3. Hazard Identification Continued

Eye: May cause stinging or burning irritation

Skin: Skin absorption may cause headache, skin irritant, dermatitis

Ingestion: Harmful if swallowed. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May form methemoglobin which in sufficient concentration causes cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood).

Inhalation: Causes respiratory tract irritation. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate

Cancer Information:

NTP: No

OSHA: No

IARC:

Section 4. First Aid Measures

Eyes: Hold eyelids open and immediately flush eyes with water for 15 minutes.

Skin: Remove contaminated clothing and wash skin with a mild soap and water. Clothing should be washed prior to reuse.

Ingestion: Contact a poison control center or physician. **NEVER** induce vomiting in an unconscious person.

Inhalation: Remove affected person from exposure and into fresh air immediately. Treat symptoms accordingly.

Section 5. Fire Fighting Measures

Flammable Limits in air: LEL: 0.009 UEL: 0.55

Hazardous Decomposition Products: Oxides of nitrogen

Extinguishing Media: FIRE FIGHTING PROCEDURES: EVACUATE IMMEDIATELY
DO NOT FIGHT FIRE.

EXTINGUISHING MEDIA: Deluge with large quantities of water as quickly as possible by automatic sprinklers or fire hose from a protected location. Product is self-oxidizing.

Section 6. Accidental Use Measures

Spills and Leaks: Review fire and explosive hazards before proceeding with clean up.
Remove all ignition sources. Wear protective equipment during clean up.

Section 7. Handling Information

Highly dangerous, storage must conform to local, state and Federal Regulations. Store in cool, dry area. Store only in Department of Transportation approved containers. Keep containers closed when not in use

Section 8. Exposure Control Measures

Respiratory Protection: Appropriate respiratory protection required when exposure to airborne contaminant is likely to exceed acceptable limits. Respirators should be selected and used in accordance with OSHA Subpart I (29 CFR 1910.134) and manufacturer's recommendations

Hand Protection: Impervious gloves.

Eye Protection: Safety glasses with side shields.

Ventilation: Adequate ventilation should be provided to keep dust concentrations below acceptable exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.

General Hygiene Practices: Avoid contact with eyes, skin and clothing.
Avoid breathing dust, vapors or mist.
Handle in areas with adequate ventilation.
Wash thoroughly after handling, and before eating, drinking, or smoking.
Avoid contamination of food, beverages, or smoking materials
Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9. Physical And Chemical Properties

Boiling Point:	240° C (decomposes)	Solubility:	In hot water
Melting Point:	81 °C	Specific Gravity:	1.5 – 1.6
Vapor Pressure:	Pa at 20° C negligible	pH:	
Vapor Density:	(air =1) 7.85	Odor:	Slight Pine
Appearance:	Yellowish/Gold flake		

Section 10. Stability and Reactivity

Stability: Stable under normal conditions.

Incompatibilities: Nitric acid, metals e.g., lead or iron, Bases e.g., sodium hydroxide, potassium iodide.

Conditions to Avoid: PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE: Eliminate ignition sources and prevent build-up of static electric charges. Remove all explosives from the area. A permit system is recommended to control cleanup and preparation especially before any work is performed which produces impact, friction, or heat. Wetting the area with water before work, if possible, will greatly reduce hazards.

Section 11. Toxicological Information

TNT

TNT is absorbed through the digestive tract, skin, and lungs. Workers involved in the production of explosives that were exposed to high concentrations of TNT in air experienced several harmful health effects, including anemia and abnormal liver function. Similar blood and liver effects, as well as spleen enlargement and other harmful effects on the immune system, have been observed in animals that ate or breathed TNT. Other effects in humans include skin irritation after prolonged skin contact and cataract development after long-term (365 days or longer) exposure. It is not known whether TNT can cause birth defects in humans. However, male animals treated with high doses of TNT have developed serious reproductive system effects.

No epidemiological evidence is available showing an association between chronic TNT exposure and tumorigenicity in humans. In animal carcinogenicity studies, a significant increase in urinary bladder papillomas and carcinomas was seen in rats. TNT is classified in weight-of-evidence Group C, possible human carcinogen.

Section 12. Ecological Data

NA

Section 13. Disposal Considerations

Disposal of explosives should be carried out under the direct supervision of a qualified person. For industrial disposal, review federal hazardous waste regulations. Do not breathe products of combustion. State or local regulations may be more stringent than federal regulations. For disposal of small quantities, contact state or local environmental agencies for options.

Section 14. Transportation Information

U.S. DOT Proper Shipping Name:	Trinitrotoluene
UN ID No.:	0209
Class & Division:	1.1D
Packing Group.:	II

Section 15. Regulatory Information

Environmental:

Chemical

<u>Name</u>	<u>EPCRA 313</u> <u>(Applies ?)</u>	<u>EPCRA 313</u> <u>TPO (lbs)</u>	<u>EPCRA 302</u> <u>EHS</u>	<u>EPCRA 302</u> <u>TPO (lbs.)</u>	<u>CERCLA RO</u> <u>(lbs.)</u>
Trinitrotoluene (TNT)	NA	NA	NA	NA	NA

Section 16. Information Sources

This MSDS has been prepared from information obtained from one or more of the following: the manufacturer of the components, ACGIH TLV Documentation, NIOSH/OSHA Health Guidelines for Chemical Hazards, Patty's Industrial Hygiene and Toxicology Series, the NTP Annual Report on Carcinogens, and applicable International Agency For Research on Cancer (IARC) monographs.

The information contained herein has been researched by Alliant Techsystems' Industrial Hygienist based upon current available scientific information and component manufacturer's data. Abuse or unforeseen circumstances are not addressed here. Information may be developed from time to time which may render the conclusions of the MSDS obsolete. Alliant Techsystems makes no warranties to its' agents, employees, or contractors as to the applicability of this information to the user's intended purpose or for consequences for its use or misuse.

RFAAP MATERIAL PURCHASE DESCRIPTION

D. No. 397356
 Revision B
 Date 01-17-2005
 Page 1 of 4

MATERIAL: Trinitrotoluene Type III, Reclaimed

DESCRIPTION: Trinitrotoluene reclaimed in accordance with MIL-DTL-248D Dated 14 May 2002. Any deviations in manufacturing or testing must be approved by ATK.

SPECIFIC EVALUATION DATA REQUIRED TO BE PROVIDED TO ATK ON A CMTR (CERTIFIED MATERIAL TEST REPORT - see QA Requirement 13 for additional requirements) FOR EACH MANUFACTURER'S LOT AS FOLLOWS:

Evaluation prescribed by MIL-DTL-248D and related documents as defined below	Minimum Limit	Maximum Limit	Test Method Applicable Paragraph DTL-248D
Lot Number - IAW MIL-STD-1168 must be listed on the CMTR	Complies		
Form	Flake		4.4.1.1
Color	No darker than No. 30257		4.4.1.2
Solidification point Degree centigrade (°C)	80.20		4.4.2
Moisture, percent		0.10	4.4.3
Acidity (as sulphuric acid), %		0.02	4.4.4
Alkalinity		None	4.4.5
Insoluble matter, percent		0.05	4.4.6
Tar and Wax Insolubles, percent		Average 0.05	4.4.6 Use Methanol as the solvent during analysis. Filter size less than equal to 15µ. Run analysis in triplicate and report the average value. Collect sample for analysis as in 4.3.3
Sodium, percent		0.001	4.4.7
Thickness of flake average, inch		0.025	4.4.8
Thickness of flake individual, inch		0.04	4.4.8
Flake/Granule Size	Not required		N/A
Explosive safety and performance tests: ERL impact ABL friction sensitivity Vacuum thermal stability Large scale gap test Detonation velocity Test data shall be evaluated by ARDEC.	Samples for reclaimed TNT tested side-by-side with virgin TNT as control samples. The test results for reclaimed must be equivalent to the results for the control samples		4.4.12 4.4.13 4.4.14 4.4.15 4.4.16

Packaging: IAW drawing 7548645	Complies	
Net weight per container	55 pounds	
Marking (labeling): IAW drawing 7548645 marking instructions with the exception of the POP Marking (instruction M14) The POP marking shall utilize the supplier's testing agency designations.	Complies	
Boxes must be serialized	Complies	
Shipments must be unitized on pallets and secured with stretch net	Complies	Drawing 19-48-4177/1

Packing and Labeling Requirements: See packaging and labeling requirements in the CMTR table.

APPLICABLE Q.A. REQUIREMENTS:

The following provides Quality Assurance Requirements for Suppliers of Chemicals, Components, Packaging Materials or Services. They concern supplier control of raw materials, manufacturing process controls, inspection and testing, equipment calibration and control, and product handling and protection.

THE FOLLOWING SPECIFIC QUALITY ASSURANCE CLAUSES APPLY TO YOU AS A SUPPLIER OF THE MATERIAL OR SERVICE CITED ON THIS PROCUREMENT DOCUMENT.

1. OVERALL RESPONSIBILITY

You must assure that all materials or services provided conform to the requirements of this Purchase Description, including subcontracted work.

2. CONFLICT IN INSTRUCTIONS

In the event of apparent conflict within the provisions of this Purchase Description, and documents referenced herein, obtain clarification through Alliant Techsystems Purchasing. Failure to obtain clarification may subject the procured material to rejection.

3. RIGHT TO ACCESS

Alliant Techsystems may subject all work/material to inspection and test. If done on your premises, you shall provide facilities, equipment and assistance to Alliant Techsystems in accomplishing these inspections and tests.

4. ALLIANT TECHSYSTEMS AUDIT

Your manufacturing facility may be subjected to an on-site audit by Alliant Techsystems to verify your compliance with product quality elements, operations and documents.

5. PACKAGING AND SHIPPING

You shall assure control of packaging and shipping to positively prevent damage in transit. Check this Purchase Description or the material specification for specific instructions relating to packing and shipping.

6. FINAL ACCEPTANCE

Final material acceptance will be based upon Alliant Techsystems review of CMTR data provided by EXPLO along with performance and thermal stability testing by ATK. Discrepant material may be returned to you as a result of these inspections. You may be asked to perform an analysis to determine cause and corrective action for discrepant material; in this case an Alliant Techsystems letter will be forwarded to you requesting you to determine the cause and corrective action, and to report your findings to Alliant Techsystems within a specific time frame.

7. SUBCONTRACTED WORK

15. **QUALITY ASSURANCE SYSTEM**

You shall maintain a quality system such as ISO 9000, MIL-Q-9858A, MIL-I-45208, or equivalent.

16. **WORK INSTRUCTIONS**

You shall have written work instructions that provide for consistent manufacturing operations, thereby minimizing item-to-item variation.

17. **GAGE/INSTRUMENTATION CALIBRATION SYSTEM**

You shall maintain a gage/instrument calibration system to assure accuracy of measuring/analysis/testing results.

18. **FIRST ARTICLE INSPECTION OR EVALUATION OF PRODCUTION OPERATION**

Ten days prior to your inspection of the first production item, notify Alliant Techsystems Purchasing, in order for a representative, if deemed necessary by Alliant Techsystems, to be present at that time.

*19. **PILOT LOT**

A pilot lot may be required for evaluation prior to your approval as a supplier. Notify Purchasing when the pilot lot is shipped; the pilot lot size will be determined at time of order placement.

20. **STATISTCAL PROCESS CONTROL (SPC)**

SPC data and documentation pertaining to the manufacture of the supplied items shall be provided to ATK. This information shall include; but, not be limited to process capability (Cp) studies and the process capability indices (CpKs) for selected parameters. ATK is specifically interested in in-process data on key process parameters. Key parameters are those processing conditions that must be maintained to ensure your product meets all acceptance criteria. In the absence of an SPC program, you shall supply evidence demonstrating other process control methods.

* QA requirement 19 does not apply to this PD.

SOURCE:

Procure from Qualified Suppliers listed in HXD-4-8905.

DOCUMENTS/DRAWINGS REQUIRED: MIL-DTL-248D, drawing 7548645

REASON FOR REVISION: To remove the requirement for flake/granule size on CMTR. To remove the requirement for 2D Bar Coding. To add requirement for Tar and Wax Insolubles analysis.

QUALITY ENGINEERING REVIEW:

Quality Control Inspection Required - CMTR review (ATK internal)

SIP Title - this PD (ATK internal)

Certificate of Compliance (CMTR) Required - **YES - supplier must provide CMTR IAW CMTR table and QA requirement 13.**

Other Vendor Inspection Data or Procedures Required - **no**

PREPARED BY Lisa Snider/Mark Cook
Quality Control/Quality Engineering

MOC approval

RFAAP MATERIAL PURCHASE DESCRIPTION

D. No. 397356
 Revision B
 Date 01-17-2005
 Page 1 of 4

update?

MATERIAL: Trinitrotoluene Type III, Reclaimed

DESCRIPTION: Trinitrotoluene reclaimed in accordance with MIL-DTL-248D Dated 14 May 2002. Any deviations in manufacturing or testing must be approved by ATK.

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Color	No darker than No. 30257		4.4.1.2
Solidification point Degree centigrade (°C)	80.20		4.4.2
Moisture, percent		0.10	4.4.3
Acidity (as sulphuric acid), %		0.02	4.4.4
Alkalinity		None	4.4.5
Insoluble matter, percent		0.05	4.4.6
Tar and Wax Insolubles, percent		Average 0.05	4.4.6 Use Methanol as the solvent during analysis. Filter size less than equal to 15µ. Run analysis in triplicate and report the average value. Collect sample for analysis as in 4.3.3
Sodium, percent		0.001	4.4.7
Thickness of flake average, inch		0.025	4.4.8
Thickness of flake individual, inch		0.04	4.4.8
Flake/Granule Size	Not required		N/A
Explosive safety and performance tests: ERL impact ABL friction sensitivity Vacuum thermal stability Large scale gap test Detonation velocity Test data shall be evaluated by ARDEC.	Samples for reclaimed TNT tested side-by-side with virgin TNT as control samples. The test results for reclaimed must be equivalent to the results for the control samples		4.4.12 4.4.13 4.4.14 4.4.15 4.4.16

Packaging: IAW drawing 7548645	Complies	
Net weight per container	55 pounds	
Marking (labeling): IAW drawing 7548645 marking instructions with the exception of the POP Marking (instruction M14) The POP marking shall utilize the supplier's testing agency designations.	Complies	
Boxes must be serialized	Complies	
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SOURCE:

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DOCUMENTS/DRAWINGS REQUIRED: MIL-DTL-248D, drawing 7548645

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Quality Control Inspection Required - CMTR review (ATK internal)

SIP Title - this PD (ATK internal)

Certificate of Compliance (CMTR) Required - **YES** - supplier must provide CMTR IAW CMTR table and QA requirement 13.

Other Vendor Inspection Data or Procedures Required - **no**

PREPARED BY Lisa Snider/Mark Cook
Quality Control/Quality Engineering

MOC approval

**VACUUM THERMAL STABILITY TEST RESULTS
RECLAIMED TNT**

ATK proposed to furnish Trinitrotoluene (TNT) reclaimed from Tritonal as part of contract DAAA09-03-D-0014. Due to a lack of testing facilities, ATK submitted samples to RDECOM-ARDEC for vacuum thermal stability (VTS) test to comply with specification requirements on 5 lots (350,000 lbs) of reclaimed product. All other testing requirements, e.g., solidification point, acidity, moisture, sodium, insoluble, sensitivity and performance, have been performed by ATK. All five test samples along with the control sample, Nitro-Chem, proved to be stable as indicated in Table 1 below:

Sample	ml gas at STP	Result
Nitro-Chem TNT (Poland)	0.09	Stable
EXP03-M001-001	0.11	Stable
EXP03-M001-002	0.13	Stable
EXP03-M001-003	0.11	Stable
EXP03-M001-004	0.10	Stable
EXP03-M001-005	0.09	Stable

Table 1: First Set of VTS Results

However, it was observed that a metallic residue was present at the completion of the VTS tests. This metallic residue was confirmed to be aluminum by atomic absorption spectroscopy. As a result, these samples were subject to insoluble testing, per MIL-DTL-248D. The results (Table 2) show that the samples contain insoluble material at a level exceeding specification limit of 0.05% max.

Sample	Insolubles (wt%)	
	Run 1	Run 2
TNT Polish/Nitro-Chem	0.004	0.008
EXP03M001-001	0.060	0.068
EXP03M001-002	0.058	0.055
EXP03M001-003	0.061	0.066
EXP03M001-004	0.057	0.060
EXP03M001-005	0.054	0.046

Table 2: First Set of Insolubles Results

Due to the uncertainty on the source of these samples, and a lack of confidence on how well represented these samples were to their respective lots, it was agreed by ATK, JMC, and RDECOM-ARDEC, that new samples to be representative of

the reclaimed TNT lots be collected and analyzed for VTS by RDECOM-ARDEC for lot acceptance testing and insoluble matters by both ATK (Valentec) and RDECOM-ARDEC. A local DCMA (Shreveport, LA) representative witnessed the collection of 15 TNT test samples - three samples per lot.

Additionally, it was also decided that both ATK (Valentec) and RDECOM-ARDEC laboratories would utilize the same test procedures on these 15 samples. Previously, the differences between the two laboratories were as follows:

1. At ATK (Valentec), samples were ground with a porcelain mortar and pestle prior to the analyses. While this practice was used to obtain a homogeneous sample, it was also possible that some aluminum could be embedded into the mortar and pestle and, in turn, could produce a false low insolubles result. It was decided that the samples would not be ground prior to the analyses.

2. MIL-DTL-248D does not specify the porosity of the filter, only that a filtering crucible, Gooch type or equivalent, is to be used. RDECOM-ARDEC uses a Gooch type crucible with a removable filter mat with a 1.5 μ m pore size, while ATK (Valentec) utilizes a medium porosity (10-15 μ m) Gooch filtering crucible. RDECOM-ARDEC previously used the medium porosity Gooch crucible in support of other reclaimed TNT testing, but found that much faster filtering could be accomplished with the 1.5 μ m filter mat. Use of the filter mat also eliminated the need for extensive cleaning that the fixed filter in the Gooch crucible requires. It was decided that both filters would be used for lot acceptance testing.

3. It was agreed that the filtering crucible would be dried at 100 \pm 5 $^{\circ}$ C IAW MIL-DTL-248D. RDECOM-ARDEC had been using a drying temperature of 70 $^{\circ}$ C.

As shown in Table 3, results of the VTS on all 15 samples from the 5 lots of reclaimed TNT indicate that the product is stable. The test results on insolubles are given in Table 4. As seen, some individual samples exceed the specification limit of 0.05% maximum. On the other hand, ATK (Valentec) was able to show that all 15 samples individually passed the insoluble requirement as shown in Figure 1.

Sample	ml gas at STP	Result
EXP03-M001-001-box-385	0.15	Stable
EXP03-M001-001-box-687	0.12	Stable
EXP03-M001-001-box-835	0.17	Stable
EXP03-M001-002-box-357	0.13	Stable
EXP03-M001-002-box-387	0.13	Stable
EXP03-M001-002-box-1375	0.13	Stable
EXP03-M001-003-box-895	0.05	Stable
EXP03-M001-003-box-925	0.15	Stable
EXP03-M001-003-box-1320	0.13	Stable
EXP03-M001-004-box-58	0.05	Stable
EXP03-M001-004-box-390	0.03	Stable
EXP03-M001-004-box-450	0.05	Stable
EXP03-M001-005-box-120	0.10	Stable
EXP03-M001-005-box-295	0.05	Stable
EXP03-M001-005-box-1399	0.01	Stable

Table 3: Second Set of VTS Results

Sample	1.5 μ m filter mat		10-15 μ m glass fritted crucible		
	Run 1	Run 2	Run 1	Run 2	Run 3
EXP03-M001-001-box-385	0.005	0.005	0.022	0.000	0.002
EXP03-M001-001-box-687	0.000	0.002	0.007	0.002	0.000
EXP03-M001-001-box-835	0.016	0.003	0.014	0.002	0.005
EXP03-M001-002-box-357	0.035	0.014	0.023	0.020	0.001
EXP03-M001-002-box-387	0.048	0.032	0.056	0.037	0.030
EXP03-M001-002-box-1375	0.014	0.001	0.034	0.016	0.002
EXP03-M001-003-box-895	0.052	0.013	0.050	0.032	0.003
EXP03-M001-003-box-925	0.043	0.030	0.054	0.037	0.008
EXP03-M001-003-box-1320	0.031	0.028	0.011	0.042	0.007
EXP03-M001-004-box-58	0.041	0.030	0.052	0.042	0.029
EXP03-M001-004-box-390	0.056	0.015	0.027	0.012	0.012
EXP03-M001-004-box-450	0.027	0.002	0.043	0.012	0.000
EXP03-M001-005-box-120	0.058	0.026	0.054	0.023	0.012
EXP03-M001-005-box-295	0.051	0.003	0.031	0.026	0.022
EXP03-M001-005-box-1399	0.014	0.007	0.017	0.040	0.004

Table 4: Second Set of Insolubles Results

Since other test results generated by ATK (Valentec) have been accepted by the Government for product acceptance, it is therefore recommended that the ATK (Valentec) results on insolubles be also accepted. These combined with those on VTS generated at RDECOM-ARDEC will provide all the necessary data to demonstrate specification compliance for all the 5 lots. It is further recommended that ATK exercise better control of the recovery process because there is a good

indication that there are localized areas within the process that yields product with higher insoluble content than the permissible level.

Review

Row these are the results from Valentec.

Account UTS

							SAMPLE LOG	
DATE	LOT	BOX	LAB	A	B	AVG	Comments	a
10-Mar-04	EXP03M001-001	385-A	TO PICA					
10-Mar-04	EXP03M001-001	385B	To Val	0.014	0.012	0.01		
10-Mar-04	EXP03M001-001	887A	Pica					
10-Mar-04	EXP03M001-001	887B	Val	0.011	0.012	0.01		
10-Mar-04	EXP03M001-001	835A	Pica					
10-Mar-04	EXP03M001-001	835B	Val	0.004	0	0		0.002
10-Mar-04	EXP03M001-002	357A	Pica					
10-Mar-04	EXP03M001-002	357B	Val	0.02	0.02	0.02	contacted west change decimal	
10-Mar-04	EXP03M001-002	387A	Pica					
10-Mar-04	EXP03M001-002	387B	Val	0.042	0.05	0.06		
10-Mar-04	EXP03M001-002	1375A	Pica					
10-Mar-04	EXP03M001-002	1375B	Val	0.016	0.012	0.01		
10-Mar-04	EXP03M001-003	895A	Pica					
10-Mar-04	EXP03M001-003	895B	Val	0.034	0.036	0.04		
10-Mar-04	EXP03M001-003	925A	Pica					
10-Mar-04	EXP03M001-003	925B	Val	0.039	0.042	0.04		
10-Mar-04	EXP03M001-003	1320A	Pica					
10-Mar-04	EXP03M001-003	1320B	Val	0.025	0.022	0.02		
10-Mar-04	EXP03M001-004	58A	Pica					
10-Mar-04	EXP03M001-004	58B	Val	0.036	0.028	0.03		
10-Mar-04	EXP03M001-004	390A	Pica					
10-Mar-04	EXP03M001-004	390B	Val	0	0.006	0		0.003
10-Mar-04	EXP03M001-004	460A	Pica					
10-Mar-04	EXP03M001-004	460B	Val	0.007	0	0		0.004
10-Mar-04	EXP03M001-005	120A	Pica					
10-Mar-04	EXP03M001-005	120B	Val	0.028	0.033	0.03		
10-Mar-04	EXP03M001-005	285A	Pica					
10-Mar-04	EXP03M001-005	285B	Val	0.043	0.05	0.05		
10-Mar-04	EXP03M001-005	1398A	Pica					
10-Mar-04	EXP03M001-005	1398B	Val	0.022	0.019	0.02		

UTS

Mar 24 04 10:38a Minden, LA

318-382-8434

P.2

19 Products 18 MAR 04

FIGURE 1: Insolubles Results As Provided by ATK (Valentec)

RFAAP MATERIAL PURCHASE DESCRIPTION

D. No. 397596
 Revision: C
 Date November 19, 2004
 Page 1 of 4

MATERIAL: Tritonal

DESCRIPTION: Materials removed from M117 bombs furnished by the United States Government. Any deviations in processing methods or testing must be approved by ATK.

SPECIFIC EVALUATION DATA REQUIRED TO BE PROVIDED TO ATK ON A CMTR (CERTIFIED MATERIAL TEST REPORT) FOR EACH MANUFACTURER'S LOT AS FOLLOWS:

Evaluation prescribed by this Purchase Description and referenced documents	Minimum Limit	Maximum Limit	Test Method
Packaged in box Longview Fibre Co. P/N's SF-9076 BTM and SF-9078 TOP and American Poly Corp bag P/N S56705/1	Complies		Visual
Net Explosive Weight per box 50 LBS +/-2 ozs	Complies		Visual
Unitized IAW Drawing # 19-48-4177/1	Complies		Visual
Lot Numbering	Complies		MIL-STD-1168
Lot Size, NEW pounds		118,800	
Moisture, percent	0	0.60	MIL-STD-650 Method 101.2
Marking and Labeling IAW SOP DZHC-F114-1-027 Operation 8	Complies		Visual DZHC-F114-1-027
Serialized Number on each box of autoclaved material	Complies		Visual
Tar and Wax, for "Cut and Punch" materials, no more than visual standards	Complies		Tritonal Visual Standards 1 thru 13
Sodium, percent-info only	0	0.001	MIL-DTL-248D 4.4.7
Size of individual piece, for "Cut and Punch" materials, inches	0	8	No Go Gage
Melt Point, for Autoclave Materials, °C	80.20		MIL-STD-650 Method 210.1
Workmanship: Material shall be free of dirt, chips and other foreign matter that are present as a result of Seller's workmanship and prevent the material from being suitable feedstock for the recycling process.	Complies		MIL-DTL-248D 4.3.2.1

**Packing and Labeling Requirements:
APPLICABLE Q.A. REQUIREMENTS:**

The following provides Quality Assurance Requirements for Suppliers of Chemicals, Components, Packaging Materials or Services. They concern supplier control of raw materials, manufacturing process controls, inspection and testing, equipment calibration and control, and product handling and protection.

THE FOLLOWING SPECIFIC QUALITY ASSURANCE CLAUSES APPLY TO YOU AS A SUPPLIER OF THE MATERIAL OR SERVICE CITED ON THIS PROCUREMENT DOCUMENT.

1. OVERALL RESPONSIBILITY

You must assure that all material or services provided conform to the requirements of this Purchase Description, including subcontracted work.

2. CONFLICT IN INSTRUCTIONS

Terms and conditions of the contract take precedence over clauses of this purchase description. In the event of apparent conflict within the provisions of this Purchase Description, and documents referenced herein, obtain clarification through Alliant Techsystems. Failure to obtain clarification may subject the procured material to rejection.

3. RIGHT TO ACCESS

Alliant Techsystems may subject all work/material to inspection and test. If done on your premises, you shall provide facilities, equipment and assistance to Alliant Techsystems in accomplishing these inspections and tests. We understand that Hawthorne Army Depot (where this work is expected to take place) is owned by the Army, and that access to the Depot is subject to Army control. We will ensure that all persons we send to premises you own or operate comply with all safety, security and other rules that you or the Army may establish, from time to time, governing the premises we wish to visit.

4. ALLIANT TECHSYSTEMS AUDIT

Your manufacturing facility may be subjected to an on-site audit by Alliant Techsystems to verify your compliance with product quality elements, operations and documents.

5. PACKAGING AND SHIPPING

You shall assure control of packaging and shipping to prevent damage in transit. Check this Purchase Description or the material specification for the instruction relating to packing and shipping.

6. RIGHT TO INSPECTION OF SUPPLIES

Material acceptance may be based upon Alliant Techsystems' inspection at Hawthorne Army Depot or another mutually acceptable location. If the materials are discovered, upon inspection or during any Warranty Period established in this Order, not to meet the Purchase Description, and such discrepancy is shown to be the result of errors or omissions in the subcontractor's workmanship or in materials procured for use in the performance of processing and packaging services, the subcontractor may be required, at their election and expense, to (a) promptly rework such discrepant material so that it becomes suitable for use as a recycling feedstock, or (b) refund the price paid for the processing and on-site screening of such discrepant material, take possession of, and properly dispose of it. You may be asked to perform an analysis to determine cause and corrective action for discrepant material; in this case an Alliant Techsystems letter will be forwarded to you requesting you to determine the cause and corrective action, and to report your findings to Alliant Techsystems within a reasonably specified time frame.

7. SUBCONTRACTED WORK

If you subcontract all or part of this order, you are still responsible for the quality of all materials/services required by this Purchase Description. The order shall not be transferred to another company or to another plant within your company, without prior Alliant Techsystems approval.

8. SPECIFICATION REVISIONS

For drawings, specifications or other documents cited in this Purchase Description, you must produce this material to the revision listed herein. If no specific revisions are cited, use the issue in effect when you accepted the order. This applies to your subcontractors, if you subcontract any or part of this work.

9. EVIDENCE OF INSPECTION AND RECORDS

You shall have on file all certifications; incoming, in-process, and final inspection records; test results; and other manufacturing data to show compliance to all requirements of the Purchase Description. All such data shall be available for review upon request for a period of up to three years after completion of contract requirements.

10. CHANGES IN APPROVED PROCESSES OR MATERIALS

You shall notify, and obtain written approval from Alliant Techsystems, prior to making changes in the methods used to process and package the product being supplied on this Purchase Description.

11. DOCUMENTATION CONTROL

For documents that contain requirements that affect product quality, you shall maintain a system of documentation control, which assures that only current up-to-date documents are at point of use.

12. NON-CONFORMING MATERIAL

You shall maintain a system for control of non-conforming material, which prevents shipment or intermingling with conforming supplies. You shall be entitled to dispose of non-conforming material in any lawful manner.

13. CERTIFICATION OF COMPLIANCE/ANALYSIS (CMTR)

You shall furnish two copies of your certification (CMTR) - one copy to the Quality Control Engineer, the other included with the packing slip in the shipment. The following items are to be included in the CMTR:

1. Name and Address of the Supplier
2. Purchase Order Number
3. Identification of Material by
 - a. Name
 - b. Purchase Description Number
 - c. Amendment indicator and date
 - d. Size
4. Quantity of material by lot number.
5. **Actual test results referencing specification**
6. Quantity tested
7. Sample size
8. Specimen type
9. Signature and Date
10. Title of signing representative.

14. TRACEABILITY

You shall maintain records (by lot, serial number, batch, specification etc., as appropriate) of all materials/components used in the manufacture of this furnished product, assuring traceability to acceptance and processing records, and to the delivered item. Bomb lot numbers shall be provided on each CMTR for each lot of Tritonal.

15. QUALITY ASSURANCE SYSTEM

You shall maintain a quality system such as ISO 9000, MIL-Q-9858A, MIL-I-45208, or equivalent.

16. WORK INSTRUCTIONS

You shall have written work instructions that provide for consistent manufacturing operations, thereby minimizing item-to-item variation.

17. GAGE/INSTRUMENTATION CALIBRATION SYSTEM

You shall maintain a gage/instrument calibration system to assure accuracy of measuring/analysis/testing results.

18. FIRST ARTICLE INSPECTION OR EVALUATION OF PRODCUTION OPERATION

Ten days prior to your inspection of the first production item, notify Alliant Techsystems Purchasing, in order for a representative, if deemed necessary by Alliant Techsystems, to be present at that time.

19. PILOT LOT

A pilot lot may be required for evaluation prior to your approval as a supplier. Notify Purchasing when the pilot lot is shipped; the pilot lot size will be determined at time of order placement.

20. STATISTICAL PROCESS CONTROL (SPC)

SPC data and documentation pertaining to the manufacture of the supplied items shall be provided to ATK. This information shall include; but, not be limited to process capability (Cp) studies and the process capability indices (CpKs) for selected parameters. ATK is specifically interested in in-process data on key process parameters. Key parameters are those processing conditions that must be maintained to ensure your product meets all acceptance criteria. In the absence of an SPC program, you shall supply evidence demonstrating other process control methods.

SOURCE:

Procure from Qualified Suppliers listed in HXD-4-8905.

DOCUMENTS/DRAWINGS REQUIRED:

MIL-DTL-248D
MIL-STD-1168
MIL-STD-650
DWG. 19-48-4177/1
DZHC-F114-1-027

REASON FOR REVISION: To clarify requirement for serialized box numbers on autoclaved material.

QUALITY ENGINEERING REVIEW:

Quality Control Inspection Required at Source
Certificate of Compliance (CMTR) Required Two (2) copies. One to accompany shipment and the other forwarded to QE-TNT Radford, VA.
Other Vendor Inspection Data or Procedures Required - Bomb Lot Numbers (See note 14)

PREPARED BY Mark A. Cook
Quality Engineering

APPROVED BY Matt Rinehardt
Program Engineer



Spezialtechnik Dresden GmbH
Postfach 800101, 01101 Dresden

Advance Payment Guarantee

We have been informed that our 100% subsidiary, Industriepark Spreewerk LÜbben GmbH, hereinafter called the SELLER, has received from you – Alliant Ammunition and Powder Company, the BUYER an order Number AT1544 concerning the

Delaboration of bombs and Tritonal recovering

The total value of this contract shall be \$3,184,929 U.S. Dollars (three million one hundred eighty four thousand nine hundred twenty nine).

In accordance with the payment conditions agreed upon, an advance payment amounting to \$1,000,000 (one million dollars USD) will be made by you (Buyer) to SELLER. In return, Spezialtechnik Dresden GmbH shall issue BUYER an Advance Payment Corporate Guarantee for the amount of \$750,000 (seven hundred fifty thousand dollars USD) in your favour. Payment(s) of \$1,000,000 advanced payment shall hereby be distributed in accordance to previously agreed schedule. Said payment schedule shall be detailed in Purchase Order issued from BUYER to SELLER.

In consideration of the aforesaid, we, Spezialtechnik Dresden GmbH hereby irrevocably undertake to repay to you any amount up to the maximum of \$750,000 U.S. Dollars should SELLER fail to render service(s) stated in Purchase Order. The liability shall be reduced based on the following schedule:

Delivery of 1,000,000 lbs of Tritonal, Reduction of \$150,000, Liability \$600,000
Delivery of 2,000,000 lbs of Tritonal, Reduction of \$300,000, Liability \$450,000
Delivery of 3,000,000 lbs of Tritonal, Reduction of \$450,000, Liability \$300,000
Delivery of 4,000,000 lbs of Tritonal, Total Release of Liability

The maximum shall not exceed \$750,000 U.S. Dollars.

Repayment would occur upon receipt of your demand in writing wherein you declare simultaneously that the SELLER failed to render the above services.

Our liability under this guaranty shall expire upon fulfilling the services obligation mentioned above. If SELLER fails to complete services in full, on February 1, 2007, BUYER shall submit claim for repayment in full to Spezialtechnik Dresden GmbH for the amount of \$750,000.00USD. Spezialtechnik Dresden GmbH hereby guarantees payment to BUYER via electronic bank transfer. BUYER shall hereby provide transfer details within claim. Both BUYER and SELLER shall hereby agree that this Advance payment Corporate Guarantee shall expire and/or become null and void immediately upon the delivery of 4,000,000 lbs of Tritonal.

Dresden, 24. August 2005

Spezialtechnik Dresden GmbH

Dr. Eichhorn Dr. Petzold

Spezialtechnik Dresden GmbH
Sitz: Zum Windkanal 21, 01109 Dresden · Postadresse: Postfach 800101, 01101 Dresden
Telefon: +49 (0) 351 886-5000 · Fax: +49 (0) 351 886-5443
E-Mail: info@spezialtechnik.de · Internet: www.spezialtechnik.de
Aufsichtsrat: Neal Blue, Vorsitzender: Dr. Hanna Arnt Vogels, Stellvertretender Vorsitzender
Geschäftsführer: Karsten Blue, Linden Blue, Dr. Rainer Eichhorn, Dr. Wolfgang Petzold
Handelsregister: Amtsgericht Dresden, HRB 6721 · Ust-Id-Nr.: DE152437431
Bankverbindung: Dresdner Bank AG, BLZ 85080000, Konto: 410419500
Commerzbank AG, BLZ 85040000, Konto: 800039000

 Ein Unternehmen
der Spezialtechnik-Gruppe
Dresden

RFAAP MATERIAL PURCHASE DESCRIPTION

D. No. 397596
 Revision: D
 Date
 Page 1 of 4

MATERIAL: Tritonal

DESCRIPTION: Materials removed from M117 bombs furnished by the United States Government. Any deviations in processing methods or testing must be approved by ATK.

SPECIFIC EVALUATION DATA REQUIRED TO BE PROVIDED TO ATK ON A CMTR (CERTIFIED MATERIAL TEST REPORT) FOR EACH MANUFACTURER'S LOT AS FOLLOWS:

Evaluation prescribed by this Purchase Description and referenced documents	Minimum Limit	Maximum Limit	Test Method
Lot Numbering	Complies		MIL-STD-1168
Lot Size		One week of Production	
Moisture, percent: Representative sample each lot	0	0.60	MIL-STD-650 Method 101.2
Marking and Labeling: Material shall be labeled to positively identify it during all stages of processing	Complies		Visual
Sodium, percent: Representative sample each lot	0	0.001	MIL-DTL-248D 4.4.7
Traceability: Weekly report detailing number of bombs demilled, lot numbers of bombs, quantities of recovered tritonal, quantities tar and wax removed.	Complies		Report
Workmanship: Material shall be free of dirt, chips and other foreign matter that are present as a result of Seller's workmanship and prevent the material from being suitable feedstock for the recycling process.	Complies		MIL-DTL-248D 4.3.2.1

Packing and Labeling Requirements: Include the ATK purchase order number and the purchase description number on all paperwork. Packing shall be IAW commercial practices.

APPLICABLE Q.A. REQUIREMENTS:

The following provides Quality Assurance Requirements for Suppliers of Chemicals, Components, Packaging Materials or Services. They concern supplier control of raw materials, manufacturing process controls, inspection and testing, equipment calibration and control, and product handling and protection.

THE FOLLOWING SPECIFIC QUALITY ASSURANCE CLAUSES APPLY TO YOU AS A SUPPLIER OF THE MATERIAL OR SERVICE CITED ON THIS PROCUREMENT DOCUMENT.

1. OVERALL RESPONSIBILITY

You must assure that all materials or services provided conform to the requirements of this Purchase Description, including subcontracted work.

2. CONFLICT IN INSTRUCTIONS

In the event of apparent conflict within the provisions of this Purchase Description, and documents referenced herein, obtain clarification through Alliant Techsystems Purchasing. Failure to obtain clarification may subject the procured material to rejection.

3. RIGHT TO ACCESS

Alliant Techsystems may subject all work/material to inspection and test. If done on your premises, you shall provide facilities, equipment and assistance to Alliant Techsystems in accomplishing these inspections and tests.

4. ALLIANT TECHSYSTEMS AUDIT

Your manufacturing facility may be subjected to an on-site audit by Alliant Techsystems to verify your compliance with product quality elements, operations and documents.

5. PACKAGING AND SHIPPING

You shall assure control of packaging and shipping to positively prevent damage in transit. Check this Purchase Description or the material specification for specific instructions relating to packing and shipping.

6. FINAL ACCEPTANCE

Final material acceptance will be based upon Alliant Techsystems inspection, and discrepant material may be returned to you as a result of these inspections. You may be asked to perform an analysis to determine cause and corrective action for discrepant material; in this case an Alliant Techsystems letter will be forwarded to you requesting you to determine the cause and corrective action, and to report your findings to Alliant Techsystems within a specific time frame.

7. SUBCONTRACTED WORK

If you subcontract all or part of this order, you are still

Page 3 of 6

responsible for the quality of all materials/services required by this Purchase Description. The order shall not be transferred to another company or to another plant within your company, without prior Alliant Techsystems approval.

8. SPECIFICATION REVISIONS

For drawings, specifications or other documents cited in this Purchase Description, you must produce this material to the revision listed herein. If no specific revisions are cited, use the issue in effect when you accepted the order. This applies to your subcontractors, if you subcontract any or part of this work.

9. EVIDENCE OF INSPECTION AND RECORDS

You shall have on file all certifications; incoming, in-process, and final inspection records; test results; and other manufacturing data to show compliance to all requirements of the Purchase Description. All such data shall be available for review upon request.

10. CHANGES IN APPROVED PROCESSES OR MATERIALS

You shall notify, and obtain written approval from Alliant Techsystems, prior to making changes in the composition, design or manufacture of the product being supplied on this Purchase Description.

11. DOCUMENTATION CONTROL

For documents that contain requirements that affect product quality, you shall maintain a system of documentation control, which assures that only current up-to-date documents are at point of use.

12. NON-CONFORMING MATERIAL

You shall maintain a system for control of non-conforming material, which prevents use, shipment or intermingling with conforming supplies.

13. CERTIFICATION OF COMPLIANCE/ANALYSIS (CMTR)

14.

You shall furnish two copies of your certification (CMTR) - one copy to the Quality Control Engineer, the other included with the packing slip in the shipment. The following items are to be included in the CMTR:

1. Name and Address of the Supplier
2. Purchase Order Number
3. Identification of Material by
 - a. Name
 - b. Specification & revision
 - c. amendment indicator and date
 - d. type
 - e. grade
 - f. size.
4. Quantity of material by lot number.
5. **Actual test results referencing specification**
6. Quantity tested
7. Sample size
8. Specimen type
9. Signature and Date
10. Title of signing representative.

14. TRACEABILITY

You shall maintain records (by lot, serial number, batch, specification etc., as appropriate) of all materials/components used in the manufacture of this furnished product, assuring traceability to acceptance and processing records, and to the delivered item. In the event that marking of the bomb lot number on the bomb body is either missing or illegible a unique lot number will be assigned to provide traceability for the material to be removed from the bomb.

15. QUALITY ASSURANCE SYSTEM

You shall maintain a quality system such as ISO 9000, MIL-Q-9858A, MIL-I-45208, or equivalent.

16. WORK INSTRUCTIONS

You shall have written work instructions that provide for consistent manufacturing operations, thereby minimizing item-to-item variation.

17. GAGE/INSTRUMENTATION CALIBRATION SYSTEM

You shall maintain a gage/instrument calibration system to assure accuracy of measuring/analysis/testing results.

***18. FIRST ARTICLE INSPECTION OR EVALUATION OF PRODCUTION OPERATION**

Ten days prior to your inspection of the first production item, notify Alliant Techsystems Purchasing, in order for a representative, if deemed necessary by Alliant Techsystems, to be present at that time.

***19. PILOT LOT**

A pilot lot may be required for evaluation prior to your approval as a supplier. Notify Purchasing when the pilot lot is shipped; the pilot lot size will be determined at time of order placement.

***20. STATISTCAL PROCESS CONTROL (SPC)**

SPC data and documentation pertaining to the manufacture of the supplied items shall be provided to ATK. This information shall include; but, not be limited to process capability (Cp) studies and the process capability indices (CpKs) for selected parameters. ATK is specifically interested in in-process data on key process parameters. Key parameters are those processing conditions that must be maintained to ensure your product meets all acceptance criteria. In the absence of an SPC program, you shall supply evidence demonstrating other process control methods.

***QA requirements 18, 19 and 20 do not apply to this purchase description.**

SOURCE:

Procure from Qualified Suppliers listed in HXD-4-8905.

DOCUMENTS/DRAWINGS REQUIRED:

MIL-DTL-248D

MIL-STD-1168

MIL-STD-650

REASON FOR REVISION: Removal of Autoclave Process. Packaging no longer required. Process now performed at same site as TNT Reclamation."

QUALITY ENGINEERING REVIEW:

Quality Control Inspection Required at Source
Certificate of Compliance (CMTR) Required Two (2) copies. One to accompany shipment and the other forwarded to QE-TNT Radford, VA.
Other Vendor Inspection Data or Procedures Required - Bomb Lot Numbers (See note 14)

PREPARED BY Mark A. Cook
Quality Engineering

APPROVED BY Matt Rinehardt
Program Engineer

Federal Firearms License
(18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number 5-43-095-06-4E-08713
Chief, Federal Firearms Licensing Center (FFLC) <i>Satman</i>	Expiration Date May 1, 2014

Name
SMALL CALIBER SYSTEMS DIVISION

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**HWY 7 & 78
INDEPENDENCE, MO 64057**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS OPERATIONS LLC
SMALL CALIBER SYSTEMS DIVISION
7480 FLYING CLOUD DRIVE ATTN: SECURITY ATF
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature
Printed Name
Date

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

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Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS OPERATIONS LLC**

Business Name: **SMALL CALIBER SYSTEMS DIVISION**

License Number: **5-43-095-06-4E-08713**

License Type: **06-MANUFACTURER OF AMMUNITION FOR FIREARMS**

Expiration: **May 1, 2014**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

Federal Firearms License (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	5-43-095-06-2G-04002
Chief, Federal Firearms Licensing Center (FFLC)		Expiration Date	July 1, 2012

Name
SMALL CALIBER SYSTEMS

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**RR7 & MO HIGHWAY 78
INDEPENDENCE, MO 64057-**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS INC
SMALL CALIBER SYSTEMS
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature	Position/Title
Printed Name	Date

Previous Edition is Obsolete ALLIANT TECHSYSTEMS INC RR7 & MO HIGHWAY 78 INDEPENDENCE, MO 64057-0001, TYPE 06-MANUFACTURER OF AMMUNITION FOR FIREARMS ATF Form 8 (5310,11) Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflccheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

Cut Here ✂

Federal Firearms License (FFL) Information Card	
License Name:	ALLIANT TECHSYSTEMS INC
Business Name:	SMALL CALIBER SYSTEMS
License Number:	5-43-095-06-2G-04002
License Type:	06-MANUFACTURER OF AMMUNITION FOR FIREARMS
Expiration:	July 1, 2012
Please Note: Not Valid for the Sale or Other Disposition of Firearms.	

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

**Federal Firearms License
(18 U.S.C. Chapter 44)**

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	5-43-095-06-9G-04002
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	July 1, 2009

Name
LAKE CITY AMMUNITION DIVISION

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**RR7 & MO HIGHWAY 78
INDEPENDENCE, MO 64057**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS INC
LAKE CITY AMMUNITION DIVISION
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344**

Licensee/Responsible Person Signature _____ Position/Title _____
Printed Name _____ Date _____

Previous Edition is Obsolete ALLIANT TECHSYSTEMS INC RR7 & MO HIGHWAY 78 INDEPENDENCE, MO 64057-0000 July 1, 2008-06-MANUFACTURER OF AMMUNITION FOR FIREARMS ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflecheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

Cut Here ✂

Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS INC**

Business Name: **LAKE CITY AMMUNITION DIVISION**

License Number: **5-43-095-06-9G-04002**

License Type: **06-MANUFACTURER OF AMMUNITION FOR FIREARMS**

Expiration: **July 1, 2009**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title 1, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

sent to Larry Smith on 07/10/09

DIRECT ATF CORRESPONDENCE TO	Chief, Federal Firearms Licensing Center (FFLC) Bureau of Alcohol, Tobacco, Firearms and Explosives 2600 Century Parkway NE, Suite 110 Atlanta, Georgia 30345-3104 Telephone: 1-866-662-2750 Fax: 1-866-257-2749 E-mail: NLC@atf.gov ATF website: http://www.atf.gov	LICENSE NUMBER 5-43-095-06-9G-04002
		EXPIRATION DATE July 1, 2009

NAME LAKE CITY AMMUNITION DIVISION	Premises Address CHANGES? You must notify the FFLC at least 30 days before the move RR7 & MO HIGHWAY 78 INDEPENDENCE, MO 64057-
--	---

TYPE OF LICENSE 06-MANUFACTURER OF AMMUNITION FOR FIREARMS
--

CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC) <i>Kimberly H. Irwin</i> Kimberly H. Irwin
--

PURCHASING CERTIFICATION I certify that this is a true copy of a license issued to me to engage in the business specified. _____ (SIGNATURE OF LICENSEE) The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 478. The signature on each reproduction must be an ORIGINAL signature.	Mailing Address: CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes. ALLIANT TECHSYSTEMS INC LAKE CITY AMMUNITION DIVISION 5050 LINCOLN DR. ATTN:SECURITY- ATF EDINA, MN 55436-
--	--

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

Note you have received only one original license. DO NOT SIGN THE ORIGINAL LICENSE prior to making copies, as the signature on each certified copy must be an original.

A Federal Firearms License does not permit you to receive, sell, or transfer firearms or ammunition without first obtaining the proper State and/or local license, if any. Please check with your local authorities.

ATF Federal Firearms Licensing Center



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

To Larry Smith 04/04/06

DIRECT ATF CORRESPONDENCE TO: Chief, Federal Firearms Licensing Center (FFLC), Bureau of Alcohol, Tobacco, Firearms and Explosives, 2600 Century Parkway NE, Suite 110, Atlanta, Georgia 30345-3104. Telephone: 1-866-562-2750, Fax: 1-866-257-2749, E-mail: NLC@atf.gov, ATF website: http://www.atf.gov

LICENSE NUMBER: 5-43-095-06-9E-00169

EXPIRATION DATE: May 1, 2009

NAME: LAKE CITY ARMY AMMO PLANT

Premises Address CHANGES? You must notify the FFLC at least 30 days before the move: RR7 & HWY 78, INDEPENDENCE, MO 64051-

TYPE OF LICENSE: 06-MANUFACTURER OF AMMUNITION FOR FIREARMS

CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC): Kimberly H. Irwin

PURCHASING CERTIFICATION: I certify that this is a true copy of a license issued to me to engage in the business specified. (SIGNATURE OF LICENSEE)

Mailing Address CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes: ALLIANT LAKE CITY SMALL CALIBER AMMUNITION CO LLC, LAKE CITY ARMY AMMO PLANT, 5050 LINCOLN DR ATTN:SECURITY-ATF, EDINA, MN 55436-

The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 478. The signature on each reproduction must be an ORIGINAL signature.

ATF FORM 8 (5310.11) (8/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY BUREAU OF ALCOHOL, TOBACCO AND FIREARMS ATLANTA, GEORGIA 30345-3104

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

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A Federal Firearms License does not permit you to receive, sell, or transfer firearms or ammunition without first obtaining the proper State and/or local license, if any. Please check with your local authorities.

ATF Federal Firearms Licensing Center



LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title 18, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 178), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

DIRECT ATF
CORRESPONDENCE
TO

**CHIEF, NATIONAL LICENSING CENTER
ATF
2600 CENTURY PKWY NE STE 110
ATLANTA, GA 30345-3104**

LICENSE
NUMBER

5-43-095-06-6E-00169

EXPIRATION
DATE

May 1, 2006

NAME

LAKE CITY ARMY AMMO PLANT

PREMISES ADDRESS

**RR 7 & HWY 78
INDEPENDENCE, MO 64051-**

TYPE OF
LICENSE

06-MANUFACTURER OF AMMUNITION FOR FIREARMS

CHIEF, NATIONAL
LICENSING CENTER

PURCHASING CERTIFICATION

I certify that this is a true copy of a license issued to me to engage in the business specified.

LICENSEE

**ALLIANT LAKE CITY SMALL CALIBER
AMMUNITION CO LLC
LAKE CITY ARMY AMMO PLANT
5050 LINCOLN DR ATTN:SECURITY-ATF
EDINA, MN 55436-**

(SIGNATURE OF LICENSEE)

The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 178. The signature on each reproduction must be an ORIGINAL signature.

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE

Sent to Larry Smith on 11/16/04



**DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104**

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

Note you have received only one original license. DO NOT SIGN THE ORIGINAL LICENSE prior to making copies, as the signature on each certified copy must be an original.

A Federal Firearms License does not permit you to receive, sell, or transfer firearms or ammunition without first obtaining the proper State and/or local license, if any. Please check with your local authorities.

ATF National Licensing Center

**Federal Firearms License
(18 U.S.C. Chapter 44)**

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	5-43-095-08-9G-04003
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	July 1, 2009

Name
LAKE CITY AMMUNITION DIVISION

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)

**RR 7 & MO HIGHWAY 78
INDEPENDENCE, MO 64057-**

Type of License

08-IMPORTER OF FIREARMS OTHER THAN DESTRUCTIVE DEVICES

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)

**ALLIANT TECHSYSTEMS INC
LAKE CITY AMMUNITION DIVISION
7489 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344**

Licensee/Responsible Person Signature

Position/Title

Printed Name

Date

Previous Edition is Obsolete ALLIANT TECHSYSTEMS INC RR 7 & MO HIGHWAY 78 INDEPENDENCE, MO 64057-5431; 08-9G-04003; July 1, 2009; 08-IMPORTER OF FIREARMS OTHER THAN DESTRUCTIVE DEVICES

ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov

ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflezcheck

Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

Cut Here ✂

Federal Firearms License (FFL) Information Card	
License Name:	ALLIANT TECHSYSTEMS INC
Business Name:	LAKE CITY AMMUNITION DIVISION
License Number:	5-43-095-08-9G-04003
License Type:	08-IMPORTER OF FIREARMS OTHER THAN DESTRUCTIVE DEVICES
Expiration:	July 1, 2009
Please Note: Not Valid for the Sale or Other Disposition of Firearms.	

FFL Newsletter - Electronic Version Available

Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

Sent to Larry Smith on 7/10/06

DIRECT ATF CORRESPONDENCE TO	Chief, Federal Firearms Licensing Center (FFLC) Bureau of Alcohol, Tobacco, Firearms and Explosives 2600 Century Parkway NE, Suite 110 Atlanta, Georgia 30345-3104 Telephone: 1-866-662-2750 Fax: 1-866-257-2749 E-mail: NLC@atf.gov ATF website: http://www.atf.gov	LICENSE NUMBER 5-43-095-08-9G-04003
		EXPIRATION DATE July 1, 2009
NAME LAKE CITY AMMUNITION DIVISION		Premises Address CHANGES? You must notify the FFLC at least 30 days before the mo RR 7 & MO HIGHWAY 78 INDEPENDENCE, MO 64057-
TYPE OF LICENSE 08-IMPORTER OF FIREARMS OTHER THAN DESTRUCTIVE DEVICES		
CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC) <i>Kimberly H. Arwin</i> Kimberly H. Arwin		
PURCHASING CERTIFICATION I certify that this is a true copy of a license issued to me to engage in the business specified. (SIGNATURE OF LICENSEE)		Mailing Address CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes. ALLIANT TECHSYSTEMS INC LAKE CITY AMMUNITION DIVISION 5050 LINCOLN DR ATTN:SECURITY-ATF EDINA, MN 55436-
The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 478. The signature on each reproduction must be an ORIGINAL signature.		

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

Note you have received only one original license. DO NOT SIGN THE ORIGINAL LICENSE prior to making copies, as the signature on each certified copy must be an original.

A Federal Firearms License does not permit you to receive, sell, or transfer firearms or ammunition without first obtaining the proper State and/or local license, if any. Please check with your local authorities.

ATF Federal Firearms Licensing Center



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

To Larry Smith 04104106

DIRECT ATF CORRESPONDENCE TO	Chief, Federal Firearms Licensing Center (FFLC) Bureau of Alcohol, Tobacco, Firearms and Explosives 2600 Century Parkway NE, Suite 110 Atlanta, Georgia 30345-3104 Telephone: 1-866-662-2750 Fax: 1-866-257-2749 E-mail: NLC@atf.gov ATF website: http://www.atf.gov	LICENSE NUMBER	5-43-095-08-9D-00162
		EXPIRATION DATE	April 1, 2009
NAME	LAKE CITY ARMY AMMO PLANT	Premises Address CHANGES? You must notify the FFLC at least 30 days before the mo	RR 7 & HWY 78 INDEPENDENCE, MO 64051-0330
TYPE OF LICENSE	08-IMPORTER OF FIREARMS OTHER THAN DESTRUCTIVE DEVICES		
CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC)	 Kimberly H. Swin		
PURCHASING CERTIFICATION	Mailing Address CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes.		
I certify that this is a true copy of a license issued to me to engage in the business specified.	ALLIANT LAKE CITY SMALL CALIBER AMMUNITION CO LLC LAKE CITY ARMY AMMO PLANT 5050 LINCOLN DR ATTN:SECURITY-ATF EDINA, MN 55436-		
(SIGNATURE OF LICENSEE)	The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 478. The signature on each reproduction must be an ORIGINAL signature.		

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

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ATF Federal Firearms Licensing Center



LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968 and the regulations issued thereunder (27 CFR Part 178), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

DIRECT ATF
CORRESPONDENCE
TO

CHIEF, NATIONAL LICENSING CENTER
ATF
2600 CENTURY PKWY NE STE 110
ATLANTA, GA 30345-3104

LICENSE NUMBER
5-43-095-08-6D-00162

EXPIRATION DATE
April 1, 2006

NAME

LAKE CITY ARMY AMMO PLANT

FIREARMS ADDRESS
RR 7 & HWY 78
INDEPENDENCE, MO 64051-0330

TYPE OF
LICENSE

08-IMPORTER OF FIREARMS OTHER THAN DESTRUCTIVE DEVICES

CHIEF, NATIONAL
LICENSING CENTER

PURCHASING CERTIFICATION

I certify that this is a true copy of a license issued to me to engage in the business specified

LICENSEE

ALLIANT LAKE CITY SMALL CALIBER
AMMUNITION CO LLC
LAKE CITY ARMY AMMO PLANT
5050 LINCOLN DR ATTN:SECURITY-ATF
EDINA, MN 55436-

(SIGNATURE OF LICENSEE)

The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 178. The signature on each reproduction must be an ORIGINAL signature.

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE

Sent to Larry Smith on 11/16/04



**DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104**

Dear Licensee:

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If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

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ATF National Licensing Center

Federal Firearms License
(18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number 5-43-095-10-4E-08717
Chief, Federal Firearms Licensing Center (FFLC) <i>[Signature]</i>	Expiration Date May 1, 2014

Name
SMALL CALIBER SYSTEMS DIVISION

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**HWY 7 & 78
INDEPENDENCE, MO 64057**

Type of License
10-MANUFACTURER OF DESTRUCTIVE DEVICES

Purchasing Certification Statement

The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)

**ALLIANT TECHSYSTEMS OPERATIONS LLC
SMALL CALIBER SYSTEMS DIVISION
7480 FLYING CLOUD DRIVE ATTN: SECURITY ATF
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature

Position/Title

Printed Name

Date

Previous Edition is Obsolete

ALLIANT TECHSYSTEMS OPERATIONS LLC/HWY 7 & 78/40573-43-095-10-4E-08717/May 1, 2014/10-MANUFACTURER OF DESTRUCTIVE DEVICES

ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov

ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflezcheck

Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

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Federal Firearms License (FFL) Information Card	
License Name:	ALLIANT TECHSYSTEMS OPERATIONS LLC
Business Name:	SMALL CALIBER SYSTEMS DIVISION
License Number:	5-43-095-10-4E-08717
License Type:	10-MANUFACTURER OF DESTRUCTIVE DEVICES
Expiration:	May 1, 2014
Please Note: Not Valid for the Sale or Other Disposition of Firearms.	

FFL Newsletter - Electronic Version Available

Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

**Federal Firearms License
(18 U.S.C. Chapter 44)**

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	5-43-095-10-2G-04004
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	July 1, 2012

Name

SMALL CALIBER SYSTEMS

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)

**RR 7 & MO HIGHWAY 78
INDEPENDENCE, MO 64057-**

Type of License

10-MANUFACTURER OF DESTRUCTIVE DEVICES

Purchasing Certification Statement

The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)

**ALLIANT TECHSYSTEMS INC
SMALL CALIBER SYSTEMS
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature

Position/Title

Printed Name

Date

ATF Form 8 (5310.11)
Revised September 2008

Previous Edition is Obsolete

ALLIANT TECHSYSTEMS INC RR 7 & MO HIGHWAY 78 INDEPENDENCE, MO 64057-0000 July 1, 2012 10-MANUFACTURER OF DESTRUCTIVE DEVICES

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov

ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflezcheck

Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

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(Continued on reverse side)

Cut Here

Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS INC**
Business Name: **SMALL CALIBER SYSTEMS**
License Number: **6-43-095-10-2G-04004**
License Type: **10-MANUFACTURER OF DESTRUCTIVE DEVICES**
Expiration: **July 1, 2012**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available

Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

**Federal Firearms License
(18 U.S.C. Chapter 44)**

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	5-43-095-10-9G-04004
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	July 1, 2009

Name
LAKE CITY AMMUNITION DIVISION

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**RR 7 & MO HIGHWAY 78
INDEPENDENCE, MO 64057**

Type of License
10-MANUFACTURER OF DESTRUCTIVE DEVICES

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS INC
LAKE CITY AMMUNITION DIVISION
7200 FLYING CLOUD DR
EDEN PRATIE, MN 55344**

Licensee/Responsible Person Signature	Position/Title
Printed Name	Date

Previous Edition is Obsolete ALLIANT TECHSYSTEMS INC RR 7 & MO HIGHWAY 78 INDEPENDENCE, MO 64057-4305 July 1, 2009 10-MANUFACTURER OF DESTRUCTIVE DEVICES ATF Form 8 (5310.11) Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

Cut Here ✂

Federal Firearms License (FFL) Information Card	
License Name:	ALLIANT TECHSYSTEMS INC
Business Name:	LAKE CITY AMMUNITION DIVISION
License Number:	5-43-095-10-9G-04004
License Type:	10-MANUFACTURER OF DESTRUCTIVE DEVICES
Expiration:	July 1, 2009
Please Note: Not Valid for the Sale or Other Disposition of Firearms.	

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

Sent to Larry Smith on 07/10/06

DIRECT ATF CORRESPONDENCE TO	Chief, Federal Firearms Licensing Center (FFLC) Bureau of Alcohol, Tobacco, Firearms and Explosives 2600 Century Parkway NE, Suite 110 Atlanta, Georgia 30345-3104 Telephone: 1-866-662-2750 Fax: 1-866-257-2749 E-mail: NLC@atf.gov ATF website: http://www.atf.gov	LICENSE NUMBER 5-43-095-10-9G-04004
NAME LAKE CITY AMMUNITION DIVISION		EXPIRATION DATE July 1, 2009
TYPE OF LICENSE 10-MANUFACTURER OF DESTRUCTIVE DEVICES		Premises Address CHANGES? You must notify the FFLC at least 30 days before the mo RR 7 & MO HIGHWAY 78 INDEPENDENCE, MO 64057-
CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC)	<i>Kimberly H. Irwin</i> Kimberly H. Irwin	
PURCHASING CERTIFICATION I certify that this is a true copy of a license issued to me to engage in the business specified.		Mailing Address CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes. ALLIANT TECHSYSTEMS INC LAKE CITY AMMUNITION DIVISION 5050 LINCOLN DR ATTN:SECURITY-ATF EDINA, MN 55436-
(SIGNATURE OF LICENSEE)		
The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 478. The signature on each reproduction must be an ORIGINAL signature.		

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

Note you have received only one original license. DO NOT SIGN THE ORIGINAL LICENSE prior to making copies, as the signature on each certified copy must be an original.

A Federal Firearms License does not permit you to receive, sell, or transfer firearms or ammunition without first obtaining the proper State and/or local license, if any. Please check with your local authorities.

ATF Federal Firearms Licensing Center

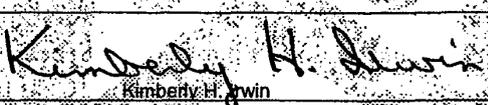


DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

to Larry 04-04-06

DIRECT ATF CORRESPONDENCE TO	Chief, Federal Firearms Licensing Center (FFLC) Bureau of Alcohol, Tobacco, Firearms and Explosives 2600 Century Parkway NE, Suite 110 Atlanta, Georgia 30345-3104 Telephone: 1-866-662-2750 Fax: 1-866-257-2749 E-mail: NLC@atf.gov ATF website: http://www.atf.gov	LICENSE NUMBER	5-43-095-10-9D-00160
		EXPIRATION DATE	April 1, 2009
NAME	LAKE CITY ARMY AMMO PLANT	Premises Address CHANGES? You must notify the FFLC at least 30 days before the mo	RR 7 & HWY 78 INDEPENDENCE, MO 64051-0330
TYPE OF LICENSE	10-MANUFACTURER OF DESTRUCTIVE DEVICES		
CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC)	 Kimberly H. Swin		
PURCHASING CERTIFICATION	I certify that this is a true copy of a license issued to me to engage in the business specified. (SIGNATURE OF LICENSEE) The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 478. The signature on each reproduction must be an ORIGINAL signature.		
	Mailing Address CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes. ALLIANT LAKE CITY SMALL CALIBER AMMUNITION CO LLC LAKE CITY ARMY AMMO PLANT 5050 LINCOLN DR ATTN:SECURITY-ATF EDINA, MN 55436-		

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

Note you have received only one original license. DO NOT SIGN THE ORIGINAL LICENSE prior to making copies, as the signature on each certified copy must be an original.

A Federal Firearms License does not permit you to receive, sell, or transfer firearms or ammunition without first obtaining the proper State and/or local license, if any. Please check with your local authorities.

ATF Federal Firearms Licensing Center



LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 C.F.R. Part 178), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

DIRECT ATF CORRESPONDENCE TO	CHIEF, NATIONAL LICENSING CENTER ATF 2600 CENTURY PKWY NE STE 110 ATLANTA, GA 30345-3104	LICENSE NUMBER 5-43-095-10-6D-00160
NAME	LAKE CITY ARMY AMMO PLANT	EXPIRATION DATE April 1, 2006
TYPE OF LICENSE	10-MANUFACTURER OF DESTRUCTIVE DEVICES	PREMISES ADDRESS RR 7 & HWY 78 INDEPENDENCE, MO 64051-0330
CHIEF, NATIONAL LICENSING CENTER		
PURCHASING CERTIFICATION I certify that this is a true copy of a license issued to me to engage in the business specified.	(SIGNATURE OF LICENSEE)	LICENSEE ALLIANT LAKE CITY SMALL CALIBER AMMUNITION CO LLC LAKE CITY ARMY AMMO PLANT 5050 LINCOLN DR ATTN:SECURITY-ATF EDINA, MN 55436
The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 178. The signature on each reproduction must be an ORIGINAL signature.		

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE

Sent to Lurry Smith on 11/16/04



DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104

Dear Licensee:

Enclosed you will find your Federal Firearms License.

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ATF National Licensing Center

Federal Firearms License
(18 U.S.C. Chapter 44)

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Direct ATF Correspondence To ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number 5-43-095-11-4E-08719
Chief, Federal Firearms Licensing Center (FFLC) <i>[Signature]</i>	Expiration Date May 1, 2014

Name
SMALL CALIBER SYSTEMS DIVISION

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**HWY 7 & 78
INDEPENDENCE, MO 64057**

Type of License
11-IMPORTER OF DESTRUCTIVE DEVICES

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above, to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS OPERATIONS LLC
SMALL CALIBER SYSTEMS DIVISION
7480 FLYING CLOUD DRIVE ATTN: SECURITY ATF
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature
[Signature]
Printed Name
ALLIANT TECHSYSTEMS OPERATIONS LLC/HWY 7 & 78-64057-43-095-11-4E-08719
Date

Previous Edition is Obsolete
ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

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(Continued on reverse side)

Cut Here ✂

Federal Firearms License (FFL) Information Card	
License Name:	ALLIANT TECHSYSTEMS OPERATIONS LLC
Business Name:	SMALL CALIBER SYSTEMS DIVISION
License Number:	5-43-095-11-4E-08719
License Type:	11-IMPORTER OF DESTRUCTIVE DEVICES
Expiration:	May 1, 2014
Please Note: Not Valid for the Sale or Other Disposition of Firearms.	

FFL Newsletter - Electronic Version Available
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The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

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(18 U.S.C. Chapter 44)**

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Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	5-43-095-11-2G-04005
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	July 1, 2012

Name
SMALL CALIBER SYSTEMS

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**RR 7 & MO HIGHWAY 78
INDEPENDENCE, MO 64057-**

Type of License
11-IMPORTER OF DESTRUCTIVE DEVICES

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)

**ALLIANT TECHSYSTEMS INC
SMALL CALIBER SYSTEMS
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature	Position/Title
Printed Name	Date

ATF Form 8 (5310.11)
Revised September 2008

Previous Edition is Obsolete ALLIANT TECHSYSTEMS INC RR 7 & MO HIGHWAY 78 INDEPENDENCE, MO 64057-0001, 11-IMPORTER OF DESTRUCTIVE DEVICES

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflzcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

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(Continued on reverse side)

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Federal Firearms License (FFL) Information Card	
License Name:	ALLIANT TECHSYSTEMS INC
Business Name:	SMALL CALIBER SYSTEMS
License Number:	5-43-095-11-2G-04005
License Type:	11-IMPORTER OF DESTRUCTIVE DEVICES
Expiration:	July 1, 2012
Please Note: Not Valid for the Sale or Other Disposition of Firearms.	

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(18 U.S.C. Chapter 44)**

According to the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	5-43-095-11-9G-04005
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	July 1, 2009

Name
LAKE CITY AMMUNITION DIVISION

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**RR 7 & MO HIGHWAY 78
INDEPENDENCE, MO 64057**

Type of License
11-IMPORTER OF DESTRUCTIVE DEVICES

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS INC
LAKE CITY AMMUNITION DIVISION
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344**

Licensee/Responsible Person Signature	Position/Title
Printed Name	Date

Previous Edition is Obsolete ALLIANT TECHSYSTEMS INC-RR 7 & MO HIGHWAY 78-64057-5-43-095-11-9G-04005-July 1, 2009-11-IMPORTER OF DESTRUCTIVE DEVICES

ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

Cut Here ✂

Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS INC**

Business Name: **LAKE CITY AMMUNITION DIVISION**

License Number: **5-43-095-11-9G-04005**

License Type: **11-IMPORTER OF DESTRUCTIVE DEVICES**

Expiration: **July 1, 2009**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

Sent to Larry Smith on 07/10/09

DIRECT ATF CORRESPONDENCE TO	Chief, Federal Firearms Licensing Center (FFLC) Bureau of Alcohol, Tobacco, Firearms and Explosives 2600 Century Parkway NE, Suite 110 Atlanta, Georgia 30345-3104 Telephone: 1-866-662-2750 Fax: 1-866-257-2749 E-mail: NLC@atf.gov ATF website: http://www.atf.gov	LICENSE NUMBER	5-43-095-11-9G-04005
NAME	LAKE CITY AMMUNITION DIVISION	EXPIRATION DATE	July 1, 2009
TYPE OF LICENSE	11-IMPORTER OF DESTRUCTIVE DEVICES	Premises Address CHANGES? You must notify the FFLC at least 30 days before the move	RR 7 & MO HIGHWAY 78 INDEPENDENCE, MO 64057-
CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC)	<i>Kimberly H. Arwin</i> Kimberly H. Arwin	Mailing Address CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes.	ALLIANT TECHSYSTEMS INC LAKE CITY AMMUNITION DIVISION 5050 LINCOLN DR ATTN:SECURITY-ATF EDINA, MN 55436-
PURCHASING CERTIFICATION I certify that this is a true copy of a license issued to me to engage in the business specified		(SIGNATURE OF LICENSEE)	
The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 478. The signature on each reproduction must be an ORIGINAL signature.			

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

Note you have received only one original license. DO NOT SIGN THE ORIGINAL LICENSE prior to making copies, as the signature on each certified copy must be an original.

A Federal Firearms License does not permit you to receive, sell, or transfer firearms or ammunition without first obtaining the proper State and/or local license, if any. Please check with your local authorities.

ATF Federal Firearms Licensing Center



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

To Larry Smith 04104706

DIRECT ATF CORRESPONDENCE TO	Chief, Federal Firearms Licensing Center (FFLC) Bureau of Alcohol, Tobacco, Firearms and Explosives 2600 Century Parkway NE Suite 110 Atlanta, Georgia 30345-3104 Telephone: 1-866-662-2750 Fax: 1-866-257-2749 E-mail: NLC@atf.gov ATF website: http://www.atf.gov	LICENSE NUMBER 5-43-095-11-9D-00161
NAME	LAKE CITY ARMY AMMO PLANT	EXPIRATION DATE April 1, 2009
TYPE OF LICENSE	11-IMPORTER OF DESTRUCTIVE DEVICES	Premises Address CHANGES? You must notify the FFLC at least 30 days before the move RR 7 & HWY 78 INDEPENDENCE, MO 64051-0330
CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC)	<i>Kimberly H. Swin</i> Kimberly H. Swin	Mailing Address CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes. ALLIANT LAKE CITY SMALL CALIBER AMMUNITION CO LLC LAKE CITY ARMY AMMO PLANT 5050 LINCOLN DR ATTN:SECURITY-ATF EDINA, MN 55436-
PURCHASING CERTIFICATION I certify that this is a true copy of a license issued to me to engage in the business specified.		(SIGNATURE OF LICENSEE)
The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 478. The signature on each reproduction must be an ORIGINAL signature.		

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

Note you have received only one original license. **DO NOT SIGN THE ORIGINAL LICENSE** prior to making copies, as the signature on each certified copy must be an original.

A Federal Firearms License does not permit you to receive, sell, or transfer firearms or ammunition without first obtaining the proper State and/or local license, if any. Please check with your local authorities.

ATF Federal Firearms Licensing Center



LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title 18, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 178), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

DIRECT ATF
CORRESPONDENCE
TO

CHIEF, NATIONAL LICENSING CENTER
ATF
2600 CENTURY PKWY NE STE 110
ATLANTA, GA 30345-3104

LICENSE
NUMBER

5-43-095-11-6D-00161

EXPIRATION
DATE

April 1, 2006

NAME

LAKE CITY ARMY AMMO PLANT

PREMISES ADDRESS

RR 7 & HWY 78
INDEPENDENCE, MO 64051-0330

TYPE OF
LICENSE

11-IMPORTER OF DESTRUCTIVE DEVICES

CHIEF, NATIONAL
LICENSING CENTER

PURCHASING CERTIFICATION

I certify that this is a true copy of a license issued to me to engage in the business specified.

LICENSEE

ALLIANT LAKE CITY SMALL CALIBER
AMMUNITION CO LLC
LAKE CITY ARMY AMMO PLANT
5050 LINCOLN DR ATTN:SECURITY-ATF
EDINA, MN 55436-

(SIGNATURE OF LICENSEE)

The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 178. The signature on each reproduction must be an ORIGINAL signature.

ATF FORM 8 (5310.11) (8/91) PREVIOUS EDITION IS OBSOLETE

Sent to Larry Smith on 11/16/04



**DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104**

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

Note you have received only one original license. DO NOT SIGN THE ORIGINAL LICENSE prior to making copies, as the signature on each certified copy must be an original.

A Federal Firearms License does not permit you to receive, sell, or transfer firearms or ammunition without first obtaining the proper State and/or local license, if any. Please check with your local authorities.

ATF National Licensing Center



5-10-11 to
Ren Baker

LICENSE/PERMIT (18 U.S.C. CHAPTER 40, EXPLOSIVES)

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555) you may engage in the activity specified in this license/permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. See "WARNING" and "NOTICES" on back.

DIRECT ATF CORRESPONDENCE TO	Christopher R. Reeves Chief, Federal Explosives Licensing Center (FELC) Bureau of Alcohol, Tobacco, Firearms and Explosives 244 Needy Road Martinsburg, West Virginia 25405 Telephone: 1-877-283-3552 Fax: 1-304-816-4401	LICENSE PERMIT NUMBER	5-MO-095-20-4E-01317
		EXPIRATION DATE	May 1, 2014
NAME	SMALL CALIBER SYSTEMS DIVISION	Premises Address CHANGES? You must notify the FELC at least 10 days before the mov	HWYS 7 & 7a
		INDEPENDENCE, MO 64057-	
TYPE OF LICENSE OR PERMIT	20-MANUFACTURER OF HIGH EXPLOSIVES		
CHIEF, FEDERAL EXPLOSIVES LICENSING CENTER (FELC)	<i>Christopher R. Reeves</i> Christopher R. Reeves		
PURCHASING CERTIFICATION I certify that this is a true copy of a license/permit issued to me to engage in the activity specified.	(SIGNATURE OF LICENSEE/PERMITTEE)	Mailing Address CHANGES? You must notify the FELC at least 10 days before the change	ALLIANT TECHSYSTEMS OPERATIONS LLC SMALL CALIBER SYSTEMS DIVISION 7486 FLYING CLOUD DRIVE ATTN: SECURITY ATF EDEN PRAIRIE, MN 55344-
The licensee/permittee named herein shall use a reproduction of this license/permit to assist a transferor of explosives to verify the identity and status of the licensee/permittee as provided in 27 CFR Part 555. The signature on each reproduction must be an ORIGINAL signature.			



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE/PERMIT (18 U.S.C. CHAPTER 40, EXPLOSIVES)

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555) you may engage in the activity specified in this license/permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. See "WARNING" and "NOTICES" on back.

DIRECT ATF CORRESPONDENCE TO	Christopher R. Reeves Chief, Federal Explosives Licensing Center (FELC) Bureau of Alcohol, Tobacco, Firearms and Explosives 244 Needy Road Martinsburg, West Virginia 25405 Telephone: 1-877-263-3962 (Fax) 1-304-516-4401	LICENSE PERMIT NUMBER	5-MO-095-20-2G-01053
NAME	LAKE CITY AMMUNITION DIVISION	EXPIRATION DATE	July 1, 2012
TYPE OF LICENSE OR PERMIT	20-MANUFACTURER OF HIGH EXPLOSIVES	Premises Address CHANGES? You must notify the FELC at least 10 days before the move.	RR 7 & MO HIGHWAY 78 INDEPENDENCE, MO 64057-
CHIEF, FEDERAL EXPLOSIVES LICENSING CENTER (FELC)	<i>Christopher R. Reeves</i> Christopher R. Reeves	MAILING ADDRESS CHANGES? You must notify the FELC at least 10 days before the change.	ALLIANTEC SYSTEMS INC LAKE CITY AMMUNITION DIVISION 7480 FLYING CLOUD DR ATTN: LARRY SMITH EDEN PRAIRIE, MIN 55344-
PURCHASING CERTIFICATION I certify that this is a true copy of a license/permit issued to me to engage in the activity specified.		(SIGNATURE OF LICENSEE/PERMITTEE)	
The licensee/permittee named herein shall use a reproduction of this license/permit to assist a transferor of explosives to verify the identity and status of the licensee/permittee as provided in 27 CFR Part 555. The signature on each reproduction must be an ORIGINAL signature.			



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

Handwritten: Fed Ex 01-11-2010

LICENSE / PERMIT (18 U.S.C. CHAPTER 40, EXPLOSIVES)

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555) you may engage in the activity specified in this license/permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. See "WARNING" and "NOTICES" on back.

DIRECT ATF CORRESPONDENCE TO	Christopher R. Reeves Chief, Federal Explosives Licensing Center Bureau of Alcohol, Tobacco, Firearms and Explosives 244 Neady Road Martinsburg, West Virginia 25405 Telephone: 1-877-253-3052 Fax: 1-877-616-4431	PERMIT NUMBER	5-MO-095-20-2G-01053
		EXPIRATION DATE	July 1, 2012

NAME	LAKE CITY AMMUNITION DIVISION	Premises Address CHANGES? You must notify the FELC at least 10 days before the mo	RR 7 & MO HIGHWAY 78 INDEPENDENCE, MO 64057-
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TYPE OF LICENSE OR PERMIT	20-MANUFACTURER OF HIGH EXPLOSIVES
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CHIEF, FEDERAL EXPLOSIVES LICENSING CENTER	<i>Christopher R. Reeves</i> Christopher R. Reeves
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PURCHASING CERTIFICATION	Mailing Address CHANGES? You must notify the FELC at least 10 days before the chang
I certify that this is a true copy of a license/permit issued to me to engage in the activity specified.	ALLIANT TECH SYSTEMS INC LAKE CITY AMMUNITION DIVISION 7430 FLYING CLOUD DR ATTN: LARRY SMITH EDEN PRAIRIE, MN 55344-
(SIGNATURE OF LICENSEE/PERMITTEE)	

The licensee/permittee named herein shall use a reproduction of this license/permit to assist a transferor of explosives to verify the identity and status of the licensee/permittee as provided in 27 CFR Part 555. The signature on each reproduction must be an ORIGINAL signature.



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSURE/PERMIT (18 U.S.C. CHAPTER 40, EXCEPTIVES)

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555) you may engage in the activity specified in this license/permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. See "WARNING" and "NOTICES" on back.

marked & mailed to Larry Smith on 07/25/06

DIRECT ATF CORRESPONDENCE TO	Christopher R. Reeves Chief, Federal Explosives Licensing Center (FELC) Bureau of Alcohol, Tobacco, Firearms and Explosives 244 Needy Road Martinsburg, West Virginia 25401-9481 Telephone: 1-877-263-3352 Fax: 1-804-260-1441	LICENSE/ PERMIT NUMBER	5-MO-095-20-9G-01053
		EXPIRATION DATE	July 1, 2009
NAME LAKE CITY AMMUNITION DIVISION		Premises Address CHANGES? You must notify the FELC at least 10 days before the RR7 & MO HIGHWAY 78 INDEPENDENCE, MO 64057	
TYPE OF LICENSE OR PERMIT 20-MANUFACTURER OF HIGH EXPLOSIVES			
CHIEF, FEDERAL EXPLOSIVES LICENSING CENTER (FELC) <i>Christopher R. Reeves</i> Christopher R. Reeves			
PURCHASING CERTIFICATION I certify that this is a true copy of a license/permit issued to me to engage in the activity specified. (SIGNATURE OF LICENSEE/PERMITTEE)		Mailing Address CHANGES? You must notify the FELC at least 10 days before the ch ALLIANT TECHSYSTEMS INC LAKE CITY AMMUNITION DIVISION 5050 LINCOLN DR ATTN: SECURITY-ATF EDINA, MN 55436-	
The licensee/permittee named herein shall use a reproduction of this license/permit to assist a transferor of explosives to verify the identity and status of the licensee/permittee as provided in 27 CFR Part 555. The signature on each reproduction must be an ORIGINAL signature.			

Federal Firearms License
(18 U.S.C. Chapter 44)

LOUANA VAIAHQ
EXPIRES 4-5-12

U.S. GOVERNMENT PRINTING OFFICE: 2008 O 450000

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date hereon. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 478.51.** See "WARNINGS" and "NOTICES" on reverse.

Director, ATF Correspondence To 244 Needy Road Martinsburg, WV 25405-9431	Chief, Federal Firearms Licensing Center (FFLC)	License Number 9-82-069-01-5E-01917
Name <i>Tracy Roberts</i> ATK AMMUNITION - CCI/SPEER		Expiration Date May 1, 2015

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
2299 SNAKE RIVER AVE
LEWISTON, ID 83501-

Type of License
01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES

Purchasing Certification Statement
 The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
 FEDERAL CARTRIDGE COMPANY
 ATK AMMUNITION - CCI/SPEER
 7480 FLYING CLOUD DR
 EDEN PRAIRIE, MN 55344-3720

Licensee/Responsible Person Signature 	Position/Title
Printed Name	Date

ATF Form 8 (5310.11)
Revised October 2011

Previous Edition is Obsolete FEDERAL CARTRIDGE COMPANY 2299 SNAKE RIVER AVE 83501-9-82-069-01-5E-01917 May 1, 2015 01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/flezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C. 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. **(The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)**

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

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Federal Firearms License (FFL) Information Card

License Name: **FEDERAL CARTRIDGE COMPANY**

Business Name: **ATK AMMUNITION - CCI/SPEER**

License Number: **9-82-069-01-5E-01917**

License Type: **01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES**

Expiration: **May 1, 2015**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available

Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

Federal Firearms License
(18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number 9-82-069-01-4D-00243
Chief, Federal Firearms Licensing Center (FFLC) <i>[Signature]</i>	Expiration Date April 1, 2014

Name
CCI/SPEER OPERATIONS

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**2299 SNAKE RIVER AVENUE
LEWISTON, ID 83501-**

Type of License
01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
AMMUNITION ACCESSORIES INC
CCI/SPEER OPERATIONS
7480 FLYING CLOUD DRIVE
EDEN PRAIRIE, MN 55344-

Licensee/Responsible Person Signature	Position/Title
Printed Name	Date

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

Cut Here ✂

Federal Firearms License (FFL) Information Card

License Name: **AMMUNITION ACCESSORIES INC**

Business Name: **CCI/SPEER OPERATIONS**

License Number: **9-82-069-01-4D-00243**

License Type: **01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES**

Expiration: **April 1, 2014**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

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**Federal Firearms License
(18 U.S.C. Chapter 44)**

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	9-82-069-01-1D-00243
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	April 1, 2011

Name
CCI/SPEER OPERATIONS

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**2299 SNAKE RIVER AVENUE
LEWISTON, ID 83501-**

Type of License
01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)

**AMMUNITION ACCESSORIES INC
CCI/SPEER OPERATIONS
7430 FLYING CLOUD DRIVE
EDEN PRAIRIE, MN 55344**

Licensee/Responsible Person Signature

Position/Title

Printed Name

Date

Previous Edition is Obsolete

AMMUNITION ACCESSORIES INC-2299 SNAKE RIVER AVENUE-83501-9-82-069-01-1D-00243-Apr 1, 2011-01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES

ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov

ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflezcheck

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Sent 04/16/08

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Direct ATF Correspondence To ATF - Chief, FFLC 2600 Century Parkway, NE Suite 110 Atlanta, Georgia 30345-3104	License Number 9-82-069-01-1D-00243
Chief, Federal Firearms Licensing Center (FFLC) <i>James J. Min</i>	Expiration Date April 1, 2011

Name
CCI/SPEER OPERATIONS

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)

**2299 SNAKE RIVER AVENUE
LEWISTON, ID 83501-**

Type of License

01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES

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Mailing Address (Changes? Notify the FFLC of any changes.)

**AMMUNITION ACCESSORIES INC
CCI/SPEER OPERATIONS
5050 LINCOLN DR ATTN:SECURITY-ATF
EDINA, MN 55436-**

Licensee/Responsible Person Signature

Position/Title

Printed Name

Date

ATF Form 8 (5310.11)
Revised December 2007

Previous Edition is Obsolete

AMMUNITION ACCESSORIES INC-2299 SNAKE RIVER AVENUE-83501-9-82-069-01-1D-00243-APR 1, 2011-01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC)
2600 Century Parkway NE Suite 110
Atlanta, Georgia 30345-3104

Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov

ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflezcheck

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License Number: **9-82-069-01-1D-00243**
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DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

Atlanta, Georgia 30345-3125

March 5, 2008

Ammunition Accessories Inc
CCI/Speer Operations
5050 Lincoln Dr Attn:Security-ATF
Edina, MN 55436-

901020:PP/IDH
5300
File Number: 9-82-00243

Premises Address: 2299 Snake River Avenue, Lewiston, ID 83501-

Dear Sir/Madam:

This letter acknowledges receipt of your timely application to renew your Federal firearms license (9-82-00243) as a Dealer In Firearms Other Than Destructive Devices which you filed for under Title 18, USC, Chapter 44, and the Code of Federal Regulations, 27 CFR §478.45.

Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) Ruling 75-27 allows you to continue operations under your current license until such time as ATF completes processing your application to renew your Federal firearms license. This letter (or as explained below, a follow-up letter) will serve as your license until we complete action on your renewal. It is referred to as a Letter of Authorization (LOA).

Since we have not completed processing your application to renew your license, you may supply a copy of this letter to other licensees, e.g., your distributors, for the next six months (or until we complete action on your renewal, if that occurs in less than six months) as evidence of your licensed status. If we have not completed processing your application for renewal within six months of the date of this letter, we will send you another letter, which will also be valid for six months (or until we complete action on your renewal, if that occurs in less than six months). This is of course contingent upon your remaining entitled to continue operations under your current license.

If at the end of the six months you have not received your renewed license or another LOA to continue operations, please contact Ingrid Hasamoh at (404)417-2770.

Sincerely,

Patricia Power
Chief, Federal Firearms Licensing Center

FFL eZ Check: <https://www.atfonline.gov/FFLeZCheck>

ATF web address: www.atf.gov



DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

Atlanta, Georgia 30345-3125

March 4, 2008

Ammunition Accessories Inc
CCI/Speer Operations
5050 Lincoln Dr Attn:Security-ATF
Edina, MN 55436-

901020:PP/IDH
5340
File Number: 9-82-00243

Dear Sir/Madam:

We are unable to process your Renewal Application for a Federal Firearms License for the following reasons:

The renewal applications submitted are required to be signed and dated by an appropriate responsible person. We do not show that Martin Zacha is listed as a Responsible person for the five firearms license renewals submitted nor are the other individuals who completed the ATF F 5330.20, Citizenship Certification forms. In the case of a corporation, association, or similar organization, any person owning 10% or more of the outstanding shares of stock issued by the applicant; and the officers and directors thereof. Also, in the case of a corporation, partnership, or association, any individual possessing, directly or indirectly, the power to direct or cause the direction of the management, policies, and practices of the corporation, partnership, or association, insofar as they pertain to firearms.

Please provide us with an updated list of Responsible Persons. The list should include their full Name, Position held in company, their Social Security Number, Date of Birth, Place of Birth, Residence Address, Race and Ethnicity, Sex, and Residence Telephone Number. They will also need to submit a photo and fingerprint card as well as. We will also need to know if any Responsible Persons currently listed, need to be deleted.

We need to have items 7 (a) and 7 (b) completed on the attached renewal form.

If the requested item(s) or information is not returned to this office, ATF, 2600 Century Parkway, Suite 110, Atlanta, GA 30345, within 30 days, your renewal applications for a Federal firearms licenses will be considered abandoned and your fees, if submitted, will be refunded. If you have questions regarding this letter, you may call Ingrid Hasamoh at 404-417-2770.

Sincerely,


Ingrid Hasamoh

Legal Instruments Examiner

Federal Firearms License
(18 U.S.C. Chapt. 44)

30 LOUANA 4/12/12
INDEX 4-5-12

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date of this license. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 478.51.** See "WARNINGS" and "NOTICES" on reverse.

Director, ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	9-82-069-06-5E-01924
Chief, Federal Firearms Licensing Center (FFLC)	<i>Tracy Robertson</i>	Expiration Date	May 1, 2015

Name
ATK AMMUNITION - CCI/SPEER

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**1023 SNAKE RIVER AVE
LEWISTON, ID 83501-**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**FEDERAL CARTRIDGE COMPANY
ATK AMMUNITION - CCI/SPEER
7480 FLYING CLOUD DRIVE
EDEN PRAIRIE, MN 55344-3720**

Licensee/Responsible Person Signature	Position/Title
<i>[Signature]</i>	
Printed Name	Date

Previous Edition is Obsolete FEDERAL CARTRIDGE COMPANY: 1023 SNAKE RIVER AVE: 83501-9-82-069-06-5E-01924: May 1, 2015: 06-MANUFACTURER OF AMMUNITION FOR FIREARMS ATF Form 8 (5310.11) Revised October 2011

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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(Continued on reverse side)

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Federal Firearms License (FFL) Information Card	
License Name:	FEDERAL CARTRIDGE COMPANY
Business Name:	ATK AMMUNITION - CCI/SPEER
Phone Number:	9-82-069-06-5E-01924
License Type:	06-MANUFACTURER OF AMMUNITION FOR FIREARMS
Expiration:	May 1, 2015
Please Note: Not Valid for the Sale or Other Disposition of Firearms.	

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28 Corona Reading
3-21-11

U.S. Department of Justice
Bureau of Alcohol, Tobacco, Firearms and Explosives

Federal Firearms License (18 U.S.C. Chapter 44)

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Direct ATF Correspondence To ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number 9-82-069-06-4D-00248
Chief, Federal Firearms Licensing Center (FFLC) <i>Patricia Ann</i>	Expiration Date April 1, 2014

Name
CCI/SPEER OPERATIONS

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**1023 SNAKE RIVER AVENUE
LEWISTON, ID 83501-**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
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Mailing Address (Changes? Notify the FFLC of any changes.)
AMMUNITION ACCESSORIES INC
CCI/SPEER OPERATIONS
7480 FLYING CLOUD DRIVE
EDEN PRAIRIE, MN 55344-

Licensee/Responsible Person Signature	Position/Title
Printed Name	Date

Previous Edition is Obsolete
AMMUNITION ACCESSORIES INC-1023 SNAKE RIVER AVENUE-83501-9-82-069-06-4D-00248-April 1, 2014-06-MANUFACTURER OF AMMUNITION FOR FIREARMS
ATF Form 8 (5310.11)
Revised September 2008

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Business Name: **CCI/SPEER OPERATIONS**

License Number: **9-82-069-06-4D-00248**

License Type: **06-MANUFACTURER OF AMMUNITION FOR FIREARMS**

Expiration: **April 1, 2014**

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Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	April 1, 2011

Name
CCI/SPEER OPERATIONS

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7480 FLYING CLOUD DRIVE
EDEN PRAIRIE, MN 55344**

Licensee/Responsible Person Signature _____ Position/Title _____
Printed Name _____ Date _____

Previous Edition is Obsolete AMMUNITION ACCESSORIES INC:1023 SNAKE RIVER AVENUE:83501:9-82-069-06-1D-00248:April 1, 2011:06-MANUFACTURER OF AMMUNITION FOR FIREARMS

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Revised September 2008

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Federal Firearms License
(18 U.S.C. Chapter 44)

Seat 04/16/08

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To ATF - Chief, FFLC 2600 Century Parkway, NE Suite 110 Atlanta, Georgia 30345-3104	License Number 9-82-069-06-1D-00248
Chief, Federal Firearms Licensing Center (FFLC) <i>[Signature]</i>	Expiration Date April 1, 2011

Name
CCI/SPEER OPERATIONS

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**1023 SNAKE RIVER AVENUE
LEWISTON, ID 83501**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**AMMUNITION ACCESSORIES INC
CCI/SPEER OPERATIONS
5050 LINCOLN DR ATTN:SECURITY-ATF
EDINA, MN 55436-**

Licensee/Responsible Person Signature	Position/Title
Printed Name	Date

Previous Edition is Obsolete AMMUNITION ACCESSORIES INC 1023 SNAKE RIVER AVENUE-83501-9-82-069-06-1D-00248 April 1, 2011 06-MANUFACTURER OF AMMUNITION FOR FIREARMS

ATF Form 8 (5310.11)
Revised December 2007

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 2600 Century Parkway NE Suite 110 Atlanta, Georgia 30345-3104	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

Cut Here ✂

Federal Firearms License (FFL) Information Card	
License Name:	AMMUNITION ACCESSORIES INC
Business Name:	CCI/SPEER OPERATIONS
License Number:	9-82-069-06-1D-00248
License Type:	06-MANUFACTURER OF AMMUNITION FOR FIREARMS
Expiration:	April 1, 2011
Please Note: Not Valid for the Sale or Other Disposition of Firearms.	

FFL Newsletter - Electronic Version Available
Sign-Up Today!

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The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.



DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

Atlanta, Georgia 30345-3125

March 5, 2008

Ammunition Accessories Inc
CCI/Speer Operations
5050 Lincoln Dr Attn:Security-ATF
Edina, MN 55436-

901020:PP/IDH
5300
File Number: 9-82-00248

Premises Address: 1023 Snake River Avenue, Lewiston, ID 83501-

Dear Sir/Madam:

This letter acknowledges receipt of your timely application to renew your Federal firearms license (9-82-00248) as a Manufacturer Of Ammunition For Firearms which you filed for under Title 18, USC, Chapter 44, and the Code of Federal Regulations, 27 CFR §478.45.

Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) Ruling 75-27 allows you to continue operations under your current license until such time as ATF completes processing your application to renew your Federal firearms license. This letter (or as explained below, a follow-up letter) will serve as your license until we complete action on your renewal. It is referred to as a Letter of Authorization (LOA).

Since we have not completed processing your application to renew your license, you may supply a copy of this letter to other licensees, e.g., your distributors, for the next six months (or until we complete action on your renewal, if that occurs in less than six months) as evidence of your licensed status. If we have not completed processing your application for renewal within six months of the date of this letter, we will send you another letter, which will also be valid for six months (or until we complete action on your renewal, if that occurs in less than six months). This is of course contingent upon your remaining entitled to continue operations under your current license.

If at the end of the six months you have not received your renewed license or another LOA to continue operations, please contact Ingrid Hasamoh at (404)417-2770.

Sincerely,

Patricia Power
Chief, Federal Firearms Licensing Center

FFL eZ Check: <https://www.atfonline.gov/FFLeZCheck>

ATF web address: www.atf.gov

Federal Firearms License
(18 U.S.C. Chapter 44)

TO LAUNA WARDING
INDEX 4-5-12

SEE REVERSE SIDE FOR INFORMATION ON FFLS, INCLUDING THE REQUIREMENTS FOR FFLS

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date of this license. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 478.51.** See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	9-82-069-06-5E-01924
Chief, Federal Firearms Licensing Center (FFLC)	<i>Tracy Robertson</i>	Expiration Date	May 1, 2015
Name	ATK AMMUNITION - CCI/SPEER		

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**1023 SNAKE RIVER AVE
 LEWISTON, ID 83501-**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
 The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**FEDERAL CARTRIDGE COMPANY
 ATK AMMUNITION - CCI/SPEER
 7480 FLYING CLOUD DRIVE
 EDEN PRAIRIE, MN 55344-9720**

Licensee/Responsible Person Signature	Position/Title	Date	ATF Form 8 (5310.11) Revised October 2011
<i>[Signature]</i>			
Printed Name			

Previous Edition is Obsolete FEDERAL CARTRIDGE COMPANY:1023 SNAKE RIVER AVE:83501-9-82-069-06-5E-01924-May 1, 2015-06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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(Continued on reverse side)

Federal Firearms License (FFL) Information Card

License Name: **FEDERAL CARTRIDGE COMPANY**

Business Name: **ATK AMMUNITION - CCI/SPEER**

License Number: **9-82-069-06-5E-01924**

License Type: **06-MANUFACTURER OF AMMUNITION FOR FIREARMS**

Expiration: **May 1, 2015**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available

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The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

Elouana Harding
3-21-11

U.S. Department of Justice
Bureau of Alcohol, Tobacco, Firearms and Explosives

Federal Firearms License (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF ATF - Chief, FFLC
Correspondence To 244 Needy Road
 Martinsburg, WV 25405-9431

License Number **9-82-069-06-4D-00248**

Chief, Federal Firearms Licensing Center (FFLC)

Expiration Date **April 1, 2014**

Name
CCI/SPEER OPERATIONS

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)

**1023 SNAKE RIVER AVENUE
LEWISTON, ID 83501-**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement

The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)

**AMMUNITION ACCESSORIES INC
CCI/SPEER OPERATIONS
7480 FLYING CLOUD DRIVE
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature

Position/Title

Printed Name

Date

ATF Form 8 (5310.11)
Revised September 2008

Previous Edition is Obsolete AMMUNITION ACCESSORIES INC-1023 SNAKE RIVER AVENUE-83501-9-82-069-06-4D-00248-Apr 1, 2014-06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov

ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflezcheck

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(Continued on reverse side)

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Federal Firearms License (FFL) Information Card

License Name: **AMMUNITION ACCESSORIES INC**
Business Name: **CCI/SPEER OPERATIONS**
License Number: **9-82-069-06-4D-00248**
License Type: **06-MANUFACTURER OF AMMUNITION FOR FIREARMS**
Expiration: **April 1, 2014**



Please Note: Not Valid for the Sale or Other Disposition of Firearms.

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(18 U.S.C. Chapter 44)**

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Direct ATF Correspondence To ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number 9-82-069-06-1D-00244
Chief, Federal Firearms Licensing Center (FFLC) <i>[Signature]</i>	Expiration Date April 1, 2011

Name
CCI/SPEER OPERATIONS

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**2299 SNAKE RIVER AVENUE
LEWISTON, ID 83501**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
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Mailing Address (Changes? Notify the FFLC of any changes.)
AMMUNITION ACCESSORIES INC
CCI/SPEER OPERATIONS
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344

Licensee/Responsible Person Signature	Position/Title	Date	ATF Form 8 (5310.11) Revised September 2008
Printed Name			

Previous Edition is Obsolete AMMUNITION ACCESSORIES INC-2299 SNAKE RIVER AVENUE-83501-9-82-069-06-1D-00244-04/01/11-06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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(Continued on reverse side)

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Federal Firearms License (FFL) Information Card

License Name: **AMMUNITION ACCESSORIES INC**

Business Name: **CCI/SPEER OPERATIONS**

License Number: **9-82-069-06-1D-00244**

License Type: **06-MANUFACTURER OF AMMUNITION FOR FIREARMS**

Expiration: **April 1, 2011**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
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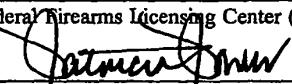
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Federal Firearms License
(18 U.S.C. Chapter 44)

Sent 04/16/08

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Direct ATF Correspondence To	ATF - Chief, FFLC 2600 Century Parkway, NE Suite 110 Atlanta, Georgia 30345-3104	License Number	9-82-069-06-1D-00244
Chief, Federal Firearms Licensing Center (FFLC)		Expiration Date	April 1, 2011

Name
CCI/SPEER OPERATIONS

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
2299 SNAKE RIVER AVENUE
LEWISTON, ID 83501-

Type of License
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Mailing Address (Changes? Notify the FFLC of any changes.)
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 CCI/SPEER OPERATIONS
 5050 LINCOLN DR ATTN:SECURITY-ATF
 EDINA, MN 55436-

Licensee/Responsible Person Signature	Position/Title
Printed Name	Date

ATF Form 8 (5310.11)
Revised December 2007

Previous Edition is Obsolete AMMUNITION ACCESSORIES INC-2299 SNAKE RIVER AVENUE-83501-9-82-069-06-1D-00244 April 1, 2011-06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 2600 Century Parkway NE Suite 110 Atlanta, Georgia 30345-3104	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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(Continued on reverse side)

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Federal Firearms License (FFL) Information Card	
License Name:	AMMUNITION ACCESSORIES INC
Business Name:	CCI/SPEER OPERATIONS
License Number:	9-82-069-06-1D-00244
License Type:	06-MANUFACTURER OF AMMUNITION FOR FIREARMS
Expiration:	April 1, 2011
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DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

Atlanta, Georgia 30345-3125

March 5, 2008

Ammunition Accessories Inc
CCI/Speer Operations
5050 Lincoln Dr Attn:Security-ATF
Edina, MN 55436-

901020:PP/IDH
5300
File Number: 9-82-00244

Premises Address: 2299 Snake River Avenue, Lewiston, ID 83501-

Dear Sir/Madam:

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If at the end of the six months you have not received your renewed license or another LOA to continue operations, please contact Ingrid Hasamoh at (404)417-2770.

Sincerely,

Patricia Power
Chief, Federal Firearms Licensing Center

FFL eZ Check: <https://www.atfonline.gov/FFLeZCheck>

ATF web address: www.atf.gov

Federal Firearms License
(18 U.S.C. Chapter 44)

20110114 00009
Fede X 4-5-12

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ATF Correspondence To ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number 9-82-069-06-5E-01921
Chief, Federal Firearms Licensing Center (FFLC) <i>Tracy Robertson</i>	Expiration Date May 1, 2015
Name ATK AMMUNITION - CCI/SPEER	

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
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LEWISTON, ID 83501-**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

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Mailing Address (Changes? Notify the FFLC of any changes.)
**FEDERAL CARTRIDGE COMPANY
ATK AMMUNITION - CCI/SPEER
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344-3720**

Licensee/Responsible Person Signature	Position/Title
Printed Name	Date

Condition is Obsolete FEDERAL CARTRIDGE COMPANY 2299 SNAKE RIVER AVE, LEWISTON, ID 83501-9431 9-82-069-06-5E-01921 May 1, 2015 06-MANUFACTURER OF AMMUNITION FOR FIREARMS

ATF Form 8 (5310.11)
Revised October 2011

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431
 Toll-free Telephone Number: (866) 662-2750
 Toll-free Fax Number: (866) 257-2749
 E-mail: NLC@atf.gov
 ATF Homepage: www.atf.gov
 FFL eZ Check: www.atfonline.gov/fflezcheck

Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C. 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

Get Here X

Federal Firearms License (FFL) Information Card

License Name: **FEDERAL CARTRIDGE COMPANY**

Business Name: **ATK AMMUNITION - CCI/SPEER**

License Number: **9-82-069-06-5E-01921**

License Type: **06-MANUFACTURER OF AMMUNITION FOR FIREARMS**

Expiration: **May 1, 2015**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available

Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

Federal Firearms License
(18 U.S.C. Chapter 44)

*3 Column Handing
3-21-11*

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date specified below. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	9-82-069-06-4D-00247
Chief, Federal Firearms Licensing Center (FFLC)	<i>Satman</i>	Expiration Date	April 1, 2014

Name
CCI/SPEER OPERATIONS

Premises Address (Changes? Notify the FFLC at least 30 days before the move)
**180 SOUTHPORT AVENUE
LEWISTON, ID 83501-**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement: The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. Certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**AMMUNITION ACCESSORIES INC
CCI/SPEER OPERATIONS
480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature: _____
Printed Name: _____
Date: _____

Position/Title: _____

AMMUNITION ACCESSORIES INC-180 SOUTHPORT AVENUE-LEWISTON-83501-9-82-069-06-4D-00247-April 1, 2014-06-MANUFACTURER OF AMMUNITION FOR FIREARMS

ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflzcheck
--	---	--

Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

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(Continued on reverse side)

Cut Here ✂

Federal Firearms License (FFL) Information Card

License Name: **AMMUNITION ACCESSORIES INC**

Business Name: **CCI/SPEER OPERATIONS**

License Number: **9-82-069-06-4D-00247**

License Type: **06-MANUFACTURER OF AMMUNITION FOR FIREARMS**

Expiration: **April 1, 2014**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

**Federal Firearms License
(18 U.S.C. Chapter 44)**

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number 9-82-069-06-1D-00247
Chief, Federal Firearms Licensing Center (FFLC) <i>[Signature]</i>	Expiration Date April 1, 2011

Name
CCI/SPEER OPERATIONS

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)

**180 SOUTHPORT AVENUE
LEWISTON, ID 83501**

Type of License

06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement

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Mailing Address (Changes? Notify the FFLC of any changes.)

**AMMUNITION ACCESSORIES INC
CCI/SPEER OPERATIONS
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344**

Licensee/Responsible Person Signature

Position/Title

Printed Name

Date

Previous Edition is Obsolete

AMMUNITION ACCESSORIES INC-180 SOUTHPORT AVENUE-LEWISTON ID 83501-92-069-06-1D-00247-April 1, 2011-06-MANUFACTURER OF AMMUNITION FOR FIREARMS

ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov

ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflecheck

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(Continued on reverse side)

Cut Here ✂

Federal Firearms License (FFL) Information Card

License Name: **AMMUNITION ACCESSORIES INC**
Business Name: **CCI/SPEER OPERATIONS**
License Number: **9-82-069-06-1D-00247**
License Type: **06-MANUFACTURER OF AMMUNITION FOR FIREARMS**
Expiration: **April 1, 2011**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available

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The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.



DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

Atlanta, Georgia 30345-3125

March 5, 2008

Ammunition Accessories Inc
CCI/Speer Operations
5050 Lincoln Dr Attn:Security-ATF
Edina, MN 55436-

901020:PP/IDH
5300
File Number: 9-82-00247

Premises Address: 180 Southport Avenue, Lewiston, ID 83501-

Dear Sir/Madam:

This letter acknowledges receipt of your timely application to renew your Federal firearms license (9-82-00247) as a Manufacturer Of Ammunition For Firearms which you filed for under Title 18, USC, Chapter 44, and the Code of Federal Regulations, 27 CFR §478.45.

Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) Ruling 75-27 allows you to continue operations under your current license until such time as ATF completes processing your application to renew your Federal firearms license. This letter (or as explained below, a follow-up letter) will serve as your license until we complete action on your renewal. It is referred to as a Letter of Authorization (LOA).

Since we have not completed processing your application to renew your license, you may supply a copy of this letter to other licensees, e.g., your distributors, for the next six months (or until we complete action on your renewal, if that occurs in less than six months) as evidence of your licensed status. If we have not completed processing your application for renewal within six months of the date of this letter, we will send you another letter, which will also be valid for six months (or until we complete action on your renewal, if that occurs in less than six months). This is of course contingent upon your remaining entitled to continue operations under your current license.

If at the end of the six months you have not received your renewed license or another LOA to continue operations, please contact Ingrid Hasamoh at (404)417-2770.

Sincerely,

Patricia Power
Chief, Federal Firearms Licensing Center

FFL eZ Check: <https://www.atfonline.gov/FFLeZCheck>

ATF web address: www.atf.gov

Federal Firearms License
(18 U.S.C. Chapter 44)

*Substantive Reading
Letter 9-5-12*

BE FORWARDED TO BUREAU BY OWNER OF FEDERAL FIREARMS LICENSE

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date of **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 478.51.** See "WARNINGS" and "NOTICES" on reverse.

ATF - Chief, FFLC
Correspondence To: 244 Needy Road
Martinsburg, WV 25405-9431

License Number: **9-82-069-06-5E-01925**

Chief, Federal Firearms Licensing Center (FFLC)

Expiration Date: **May 1, 2015**

Name: *Tracy Robertson*
ATK AMMUNITION - CCI/SPEER

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)

**180 SOUTHPORT AVE
LEWISTON, ID 83501-**

Type of License

06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement

The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFLC) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)

FEDERAL CARTRIDGE COMPANY
ATK AMMUNITION - CCI/SPEER
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344-3720

Licensee/Responsible Person Signature

Position/Title

Printed Name

Date

Previous Edition is Obsolete

FEDERAL CARTRIDGE COMPANY 180 SOUTHPORT AVE 83501-9-82-069-06-5E-01925 May 1, 2015 06-MANUFACTURER OF AMMUNITION FOR FIREARMS

ATF Form 8 (5310.11)
Revised October 2011

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov

ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflezcheck

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Federal Firearms License (FFL) Information Card

License Name: **FEDERAL CARTRIDGE COMPANY**

Business Name: **ATK AMMUNITION - CCI/SPEER**

License Number: **9-82-069-06-5E-01925**

License Type: **06-MANUFACTURER OF AMMUNITION FOR FIREARMS**

Expiration: **May 1, 2015**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available

Sign-Up Today!

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(18 U.S.C. Chapter 44)**

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Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	9-82-069-06-1D-00247
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	April 1, 2011

Name
CCI/SPEER OPERATIONS

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)

**180 SOUTHPORT AVENUE
LEWISTON, ID 83501**

Type of License

06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement

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Mailing Address (Changes? Notify the FFLC of any changes.)

**AMMUNITION ACCESSORIES INC
CCI/SPEER OPERATIONS
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344**

Licensee/Responsible Person Signature

Position/Title

Printed Name

Date

Previous Edition is Obsolete

AMMUNITION ACCESSORIES INC 180 SOUTHPORT AVENUE, LEWISTON, ID 83501-0000 April 1, 2011: 06-MANUFACTURER OF AMMUNITION FOR FIREARMS

ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov

ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflezcheck

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(Continued on reverse side)

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Federal Firearms License (FFL) Information Card	
License Name:	AMMUNITION ACCESSORIES INC
Business Name:	CCI/SPEER OPERATIONS
License Number:	9-82-069-06-1D-00247
License Type:	06-MANUFACTURER OF AMMUNITION FOR FIREARMS
Expiration:	April 1, 2011
Please Note: Not Valid for the Sale or Other Disposition of Firearms.	

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Federal Firearms License
(18 U.S.C. Chapter 44)

Sent 04/16/08

According to the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 2600 Century Parkway, NE Suite 110 Atlanta, Georgia 30345-3104	License Number	9-82-069-06-1D-00247
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	April 1, 2011

Name
CCI/SPEER OPERATIONS

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**180 SOUTHPORT AVENUE
LEWISTON, ID 83501**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
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Mailing Address (Changes? Notify the FFLC of any changes.)

**AMMUNITION ACCESSORIES INC
CCI/SPEER OPERATIONS
5050 LINCOLN DR ATTN:SECURITY-ATF
EDINA, MN 55436-**

_____ Licensee/Responsible Person Signature	_____ Position/Title
_____ Printed Name	_____ Date

Previous Edition is Obsolete AMMUNITION ACCESSORIES INC: 180 SOUTHPORT AVENUE, LEWISTON, ID 83501; 9-82-069-06-1D-00247; 04/01/11, 281136-MANUFACTURER OF AMMUNITION FOR FIREARMS

ATF Form 8 (5310.11)
Revised December 2007

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC)
2600 Century Parkway NE Suite 110
Atlanta, Georgia 30345-3104

Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov

ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflezcheck

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(Continued on reverse side)

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Federal Firearms License (FFL) Information Card	
License Name:	AMMUNITION ACCESSORIES INC
Business Name:	CCI/SPEER OPERATIONS
License Number:	9-82-069-06-1D-00247
License Type:	06-MANUFACTURER OF AMMUNITION FOR FIREARMS
Expiration:	April 1, 2011
Please Note: Not Valid for the Sale or Other Disposition of Firearms.	

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DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

Atlanta, Georgia 30345-3125

March 5, 2008

Ammunition Accessories Inc
CCI/Speer Operations
5050 Lincoln Dr Attn:Security-ATF
Edina, MN 55436-

901020:PP/IDH
5300
File Number: 9-82-00245

Premises Address: 2299 Snake River Avenue, Lewiston, ID 83501-

Dear Sir/Madam:

This letter acknowledges receipt of your timely application to renew your Federal firearms license (9-82-00245) as a Importer Of Firearms Other Than Destructive Devices which you filed for under Title 18, USC, Chapter 44, and the Code of Federal Regulations, 27 CFR §478.45.

Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) Ruling 75-27 allows you to continue operations under your current license until such time as ATF completes processing your application to renew your Federal firearms license. This letter (or as explained below, a follow-up letter) will serve as your license until we complete action on your renewal. It is referred to as a Letter of Authorization (LOA).

Since we have not completed processing your application to renew your license, you may supply a copy of this letter to other licensees, e.g., your distributors, for the next six months (or until we complete action on your renewal, if that occurs in less than six months) as evidence of your licensed status. If we have not completed processing your application for renewal within six months of the date of this letter, we will send you another letter, which will also be valid for six months (or until we complete action on your renewal, if that occurs in less than six months). This is of course contingent upon your remaining entitled to continue operations under your current license.

If at the end of the six months you have not received your renewed license or another LOA to continue operations, please contact Ingrid Hasamoh at (404)417-2770.

Sincerely,

Patricia Power
Chief, Federal Firearms Licensing Center

FFL eZ Check: <https://www.atfonline.gov/FFLeZCheck>

ATF web address: www.atf.gov

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555), you may engage in the activity specified in this license or permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 555.53.** See "WARNINGS" and "NOTICES" on reverse.

ATF Correspondence To ATF - Chief, FELC 244 Needy Road Martinsburg, WV 25405-9431	License/Permit Number 9-ID-069-20-5D-00383
Chief, Federal Explosives Licensing Center (FELC) <i>Christopher R. Peers</i>	Expiration Date April 1, 2015
Name ATK AMMUNITION-CCI/SPEER	

Premises Address (Changes? Notify the FELC at least 10 days before the move.)
**180 SOUTHPORT AVENUE
LEWISTON, ID 83501-**

Type of License or Permit
20-MANUFACTURER OF EXPLOSIVES

Purchasing Certification Statement
The licensee or permittee named above shall use a copy of this license or permit to assist a transferor of explosives to verify the identity and the licensed status of the licensee or permittee as provided by 27 CFR Part 555. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license or permit with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Explosives Licensee (FEL) or a responsible person of the FEL. I certify that this is a true copy of a license or permit issued to the licensee or permittee named above to engage in the business or operations specified above under "Type of License or Permit."

Mailing Address (Changes? Notify the FELC of any changes.)
FEDERAL CARTRIDGE COMPANY
ATK AMMUNITION-CCI/SPEER
7480 FLYING CLOUD DRIVE
EDEN PRAIRIE, MN 55344-3720

Licensee/Permittee Responsible Person Signature	Position/Title
Printed Name	Date

Federal Explosives License (FEL) Customer Service Information

Federal Explosives Licensing Center (FELC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (877) 283-3352 Fax Number: (304) 616-4401 E-mail: FELC@atf.gov	ATF Homepage: www.atf.gov
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Change of Address (27 CFR 555.54(a)(1)). Licensees or permittees may during the term of their current license or permit remove their business or operations to a new location at which they intend regularly to carry on such business or operations. The licensee or permittee is required to give notification of the new location of the business or operations not less than 10 days prior to such removal with the Chief, Federal Explosives Licensing Center. The license or permit will be valid for the remainder of the term of the original license or permit. (The Chief, FELC, shall, if the licensee or permittee is not qualified, refer the request for amended license or permit to the Director of Industry Operations for denial in accordance with § 555.54.)

Right of Succession (27 CFR 555.59). (a) Certain persons other than the licensee or permittee may secure the right to carry on the same explosive materials business or operations at the same address shown on, and for the remainder of the term of, a current license or permit. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee or permittee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business or operations shall furnish the license or permit for that business or operations for endorsement of such succession to the Chief, FELC, within 30 days from the date on which the successor begins to carry on the business or operations.

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Federal Explosives License/Permit (FEL) Information Card

License/Permit Name: **FEDERAL CARTRIDGE COMPANY**

Business Name: **ATK AMMUNITION-CCI/SPEER**

License/Permit Number: **9-ID-069-20-5D-00383**

License/Permit Type: **20-MANUFACTURER OF EXPLOSIVES**

Expiration: **April 1, 2015**

Please Note: Not Valid for the Sale or Other Disposition of Explosives.



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS

LICENSE/PERMIT (18 U.S.C. CHAPTER 40, EXPLOSIVES)

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555) you may engage in the activity specified in this license/permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. See "WARNING" and "NOTICES" on back.

DIRECT ATF CORRESPONDENCE TO:	Christopher R. Reeves Chief, Federal Explosives Licensing Center (FELC) Bureau of Alcohol, Tobacco, Firearms and Explosives 244 Needy Road Martinsburg, West Virginia 25405 Telephone: 1-877-283-3352 Fax: 1-304-616-4401	LICENSE/PERMIT NUMBER	9-ID-069-20-3M-00207
		EXPIRATION DATE	December 1, 2013

NAME	CCI/SPEER OPERATIONS	Address	180 SOUTHPORT AVE LEWISTON, ID 83501
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TYPE OF LICENSE OR PERMIT
20-MANUFACTURER OF HIGH EXPLOSIVES

CHIEF, FEDERAL EXPLOSIVES LICENSING CENTER (FELC)
Christopher R. Reeves
Christopher H. Reeves

PURCHASING CERTIFICATION
I certify that this is a true copy of a license/permit issued to me to engage in the activity specified.

CRH
(SIGNATURE OF LICENSEE/PERMITEE)

Mailing Address CHANGES? You must notify the FELC at least 10 days before the change.

AMMUNITION ACCESSORIES INC
CCI/SPEER OPERATIONS
PO BOX 856, ATTN: KELLY KOLB
LEWISTON, ID 83501-

The licensee/permittee named herein shall use a reproduction of this license/permit to assist a transferor of explosives to verify the identity and status of the licensee/permittee as provided in 27 CFR Part 555. The signature on each reproduction must be an ORIGINAL signature.



DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

Martinsburg, WV 25405

November 24, 2010

Ammunition Accessories Inc
CCI/Speer Operations
PO Box 856
Lewiston, ID 83501

901090:CRR/KCU
5400
File Number: 9-ID-0020733

Premises Address: 2299 Snake River Ave, Lewiston, ID 83501-9685

Dear Sir/Madam:

This letter acknowledges receipt of your timely application to renew your Federal explosives license/permit.

The Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) is not able to process your application prior to the expiration date of your license/permit. However, Federal law allows you to continue operations under your current license/permit until such time as ATF completes processing your application. See 5 U.S.C. § 558. This letter, or as explained below, a follow-up letter, will serve as your license/permit until we complete action on your renewal. It is referred to as a Letter of Authorization (LOA).

Since we have not completed processing your application, you may supply a copy of this letter to other licensees/permittees, e.g., your distributors, for the next six months (or until we complete action on your renewal, if that occurs in less than six months) as evidence of your licensed/permitted status. If we have not completed processing your application for renewal within six months of the date of this letter, we will send you another letter, which will also be valid for six months (or until we complete action on your renewal, if that occurs in less than six months). This is of course contingent upon your remaining entitled to continue operations under your current license/permit.

Please direct questions or concerns regarding this letter to Susan Clark at 877-283-3352.

Sincerely,

Christopher R. Reeves
Chief, Federal Explosives Licensing Center

ATF web address: www.atf.gov

10 CRAW 12107108

U.S. Department of Justice
Bureau of Alcohol, Tobacco, Firearms and Explosives

Federal Firearms License (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	3-41-003-06-1F-01548
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	June 1, 2011

Name
FEDERAL CARTRIDGE COMPANY

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**900 EHLEN DR
ANOKA, MN 55303-**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
FEDERAL CARTRIDGE COMPANY
ATTN:SECURITY 7480 FLYING CLOUDS DR
EDEN PRAIRIE, MN 55344-

Licensee/Responsible Person Signature	Position/Title
<i>[Signature]</i>	
Printed Name	Date

Previous Edition is Obsolete
FEDERAL CARTRIDGE COMPANY 900 EHLEN DR 55303-241-003-06-1F-01548-0001 1. 06-1F-01548-0001

ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

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Federal Firearms License (FFL) Information Card	
License Name:	FEDERAL CARTRIDGE COMPANY
Business Name:	
License Number:	3-41-003-06-1F-01548
License Type:	06-MANUFACTURER OF AMMUNITION FOR FIREARMS
Expiration:	June 1, 2011
Please Note: Not Valid for the Sale or Other Disposition of Firearms.	

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

**Federal Firearms License
(18 U.S.C. Chapter 44)**

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	3-41-003-06-1F-01548
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	June 1, 2011

Name
FEDERAL CARTRIDGE COMPANY

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**900 EHLEN DR
ANOKA, MN 55303-**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**FEDERAL CARTRIDGE COMPANY
7480 FLYING CLOUDS DR
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature	Position/Title
Printed Name	Date

Previous Edition is Obsolete FEDERAL CARTRIDGE COMPANY-900 EHLEN DR-55303-3-41-003-06-1F-01548-Ann 1, 2011-06-MANUFACTURER OF AMMUNITION FOR FIREARMS ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

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Federal Firearms License (FFL) Information Card

License Name: **FEDERAL CARTRIDGE COMPANY**

Business Name:

License Number: **3-41-003-06-1F-01548**

License Type: **06-MANUFACTURER OF AMMUNITION FOR FIREARMS**

Expiration: **June 1, 2011**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

Federal Firearms License
(18 U.S.C. Chapter 44)

*Sent to
Craig Harwell
FedEx 6-9-11*

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	3-41-003-06-4F-01548
Chief, Federal Firearms Licensing Center (FFLC)	<i>Satman</i>	Expiration Date	June 1, 2014

Name
FEDERAL CARTRIDGE COMPANY

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**900 EHLEN DR
ANOKA, MN 55303-**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**FEDERAL CARTRIDGE COMPANY
7480 FLYING CLOUDS DR
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature
Position/Title

Printed Name
FEDERAL CARTRIDGE COMPANY 900 EHLEN DR 55303-2-41-003-06-4F-01548 June 1, 2014-06-MANUFACTURER OF AMMUNITION FOR FIREARMS

ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

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Federal Firearms License (FFL) Information Card

License Name: **FEDERAL CARTRIDGE COMPANY**

Business Name:

License Number: **3-41-003-06-4F-01548**

License Type: **06-MANUFACTURER OF AMMUNITION FOR FIREARMS**

Expiration: **June 1, 2014**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

Federal Firearms License
(18 U.S.C. Chapter 44)

see Craig Harlow letter dated 6-9-11

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	3-41-003-08-4F-01546
Chief, Federal Firearms Licensing Center (FFLC)	<i>Patricia J. Smith</i>	Expiration Date	June 1, 2014

Name
FEDERAL CARTRIDGE COMPANY

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**900 EHLEN DR
ANOKA, MN 55303-**

Type of License
08-IMPORTER OF FIREARMS OTHER THAN DESTRUCTIVE DEVICES

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. Certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**FEDERAL CARTRIDGE COMPANY
780 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature	Position/Title	Date	ATF Form 8 (5310.11) Revised September 2008
<i>[Signature]</i>			
Printed Name			
FEDERAL CARTRIDGE COMPANY-900 EHLEN DR-55303-3-41-003-08-4F-01546-June 1, 2014-08-IMPORTER OF FIREARMS OTHER THAN DESTRUCTIVE DEVICES			

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

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Federal Firearms License (FFL) Information Card

License Name: **FEDERAL CARTRIDGE COMPANY**

Business Name: 

License Number: **3-41-003-08-4F-01546**

License Type: **08-IMPORTER OF FIREARMS OTHER THAN DESTRUCTIVE DEVICES**

Expiration: **June 1, 2014**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.



DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

Martinsburg, WV 25403

June 2, 2011

Federal Cartridge Company

7480 Flying Cloud Dr
Eden Prairie, MN 55344-

901020:PP/BSM

5300

File Number: 3-41-01546

Premises Address: 900 Ehlen Dr, Anoka, MN 55303-

Dear Sir/Madam:

This letter acknowledges receipt of your timely application to renew your Federal firearms license which you filed for under Title 18, USC, Chapter 44, and the Code of Federal Regulations, 27 CFR §478.45.

Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) Ruling 75-27 allows you to continue operations under your current license until such time as ATF completes processing your application to renew your Federal firearms license. This letter (or as explained below, a follow-up letter) will serve as your license until we complete action on your renewal. It is referred to as a Letter of Authorization (LOA).

Since we have not completed processing your application to renew your license, you may supply a copy of this letter to other licensees, e.g., your distributors, for the next six months (or until we complete action on your renewal, if that occurs in less than six months) as evidence of your licensed status. If we have not completed processing your application for renewal within six months of the date of this letter, we will send you another letter, which will also be valid for six months (or until we complete action on your renewal, if that occurs in less than six months). This is of course contingent upon your remaining entitled to continue operations under your current license.

If at the end of the six months you have not received your renewed license or another LOA to continue operations, please contact Ms Midthune at 304-616-4644

Sincerely,

Chief, Federal Firearms Licensing Center

FPL eZ Check: <https://www.atfonline.gov/FFLeZCheck>

ATF web address: www.atf.gov

**Federal Firearms License
(18 U.S.C. Chapter 44)**

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF	ATF - Chief, FFLC	License Number	3-41-003-08-1F-01546
Correspondence To	2600 Century Parkway, NE Suite 110 Atlanta, Georgia 30345-3104	Expiration Date	June 1, 2011
Chief, Federal Firearms Licensing Center (FFLC)			

Name
FEDERAL CARTRIDGE COMPANY

Premises Address (Changes? Notify the FFLC within 30 days of the change.)
**900 EHLEN DR
ANOKA, MN 55303**

Type of License
08-IMPORTER OF FIREARMS OTHER THAN DESTRUCTIVE DEVICES

The licensee named above shall use a copy of this license as evidence of transfer of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be a true copy of the original signature or a scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. This is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**FEDERAL CARTRIDGE COMPANY
6650 LINCOLN DR ATTN: SECURITY-ATF
EDINA, MN 55436**

Licensee/Responsible Person Signature
Printed Name

Position Title
Date

ATF Form 8 (5310.11)
Revised December 2007

Previous Edition is Obsolete

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 2600 Century Parkway NE Suite 110 Atlanta, Georgia 30345-3104	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflicheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C. 924. This application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

Cut Here X

Federal Firearms License (FFL) Information Card

License Name: **FEDERAL CARTRIDGE COMPANY**

Business Name:

License Number: **3-41-003-08-1F-01546**

License Type: **08-IMPORTER OF FIREARMS OTHER THAN DESTRUCTIVE DEVICES**

Expiration: **June 1, 2011**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

**Federal Firearms License
(18 U.S.C. Chapter 44)**

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	3-41-003-08-1F-01546
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	June 1, 2011

Name
FEDERAL CARTRIDGE COMPANY

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**900 EHLEN DR
ANOKA, MN 55303-**

Type of License
08-IMPORTER OF FIREARMS OTHER THAN DESTRUCTIVE DEVICES

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**FEDERAL CARTRIDGE COMPANY
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature	Position/Title	Date	ATF Form 8 (5310.11) Revised September 2008
Printed Name			

Previous Edition is Obsolete FEDERAL CARTRIDGE COMPANY 900 EHLEN DR 55303-2-41-003-08-1F-01546 June 1, 2011 08-IMPORTER OF FIREARMS OTHER THAN DESTRUCTIVE DEVICES

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

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Federal Firearms License (FFL) Information Card

License Name: **FEDERAL CARTRIDGE COMPANY**

Business Name:

License Number: **3-41-003-08-1F-01546**

License Type: **08-IMPORTER OF FIREARMS OTHER THAN DESTRUCTIVE DEVICES**

Expiration: **June 1, 2011**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

Federal Firearms License
(18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF	ATF - Chief, FFLC	License Number	3-41-003-09-1K-02644
Correspondence To	2600 Century Parkway, NE Suite 110 Atlanta, Georgia 30345-3104	Expiration Date	October 1, 2011
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>		

Name: **FEDERAL CARTRIDGE COMPANY**

Premises Address (Changes? Notify the FFLC at least 30 days before the move):
**900 EHLEN DR
ANOKA, MN 55303-**

Type of License: **09-DEALER IN DESTRUCTIVE DEVICES**

Purchasing Certification Statement: The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I hereby certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Change? Notify the FFLC of any changes.):
**ALLIANT TECH SYSTEMS INC
FEDERAL CARTRIDGE COMPANY
900 EHLEN DR
ANOKA, MN 55303**

Licensee/Responsible Person Signature: _____ Position/Title: _____

Printed Name: _____ Date: _____

ATF Form 8 (5310.11) Revised December 2007

Previous Edition is Obsolete. ALLIANT TECH SYSTEMS INC 900 EHLEN DR 55303-21 003-09-1K-02644-01001-1, FFL 09-DEALER IN DESTRUCTIVE DEVICES

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC): 2600 Century Parkway NE Suite 110 Atlanta, Georgia 30345-3104
Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov
ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflezcheck

Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

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Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS INC**

Business Name: **FEDERAL CARTRIDGE COMPANY**

License Number: **3-41-003-09-1K-02644**

License Type: **09-DEALER IN DESTRUCTIVE DEVICES**

Expiration: **October 1, 2011**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

Federal Firearms License
(18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To
ATF - Chief, FFLC
244 Needy Road
Martinsburg, WV 25405-9431
Chief, Federal Firearms Licensing Center (FFLC)

License Number
Expiration Date

3-41-003-09-1K-02644

October 1, 2011

Name
FEDERAL CARTRIDGE COMPANY

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
900 EHLEN DR
ANOKA, MN 55303-

Type of License
09-DEALER IN DESTRUCTIVE DEVICES

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)

ALLIANT TECHSYSTEMS INC
FEDERAL CARTRIDGE COMPANY
7480 FLYING CLOUD DRIVE
EDEN PRAIRIE, MN 55344-

Licensee/Responsible Person Signature

Position/Title

Printed Name

Date

Previous Edition is Obsolete

ALLIANT TECHSYSTEMS INC 900 EHLEN DR 55303-41-003-09-1K-02644 October 1, 2011 09-DEALER IN DESTRUCTIVE DEVICES

ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov

ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflezcheck

Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

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Federal Firearms License (FFL) Information Card

License Name: ALLIANT TECHSYSTEMS INC
Business Name: FEDERAL CARTRIDGE COMPANY
License Number: 3-41-003-09-1K-02644
License Type: 09-DEALER IN DESTRUCTIVE DEVICES
Expiration: October 1, 2011

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available

Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.



DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

Martinburg, WV 25405-9491

June 1, 2011

Federal Cartridge Company
7480 Flying Clouds Dr
Eden Prairie, MN 55344

901020:PP/LEE
5300
File Number: 3-41-01548

Premises Address: 900 Ehlen Dr, Anoka, MN 55303

Dear Sir/Madam:

This letter acknowledges receipt of your timely application to renew your Federal firearms license which you filed for under Title 18, USC, Chapter 44, and the Code of Federal Regulations, 27 CFR §478.45.

Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) Ruling 75-27 allows you to continue operations under your current license until such time as ATF completes processing your application to renew your Federal firearms license. This letter (or as explained below, a follow-up letter) will serve as your license until we complete action on your renewal. It is referred to as a Letter of Authorization (LOA).

Since we have not completed processing your application to renew your license, you may supply a copy of this letter to other licensees, e.g., your distributors, for the next six months (or until we complete action on your renewal, if that occurs in less than six months) as evidence of your licensed status. If we have not completed processing your application for renewal within six months of the date of this letter, we will send you another letter, which will also be valid for six months (or until we complete action on your renewal, if that occurs in less than six months). This is of course contingent upon your remaining entitled to continue operations under your current license.

If at the end of the six months you have not received your renewed license or another LOA to continue operations, please contact Ms. Midthune at (304) 616-4644.

Sincerely,

Patricia Power
Chief, Federal Firearms Licensing Center

FFL eZ Check: <https://www.atfonline.gov/FFLeZCheck>

ATF web address: www.atf.gov

**Federal Firearms License
(18 U.S.C. Chapter 44)**

According to the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	3-41-003-10-9K-02071
Chief, Federal Firearms Licensing Center (FFLC)	<i>Patricia J. ...</i>	Expiration Date	October 1, 2009

Name
FEDERAL CARTRIDGE COMPANY

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**900 EHLEN DR
ANOKA, MN 55303-**

Type of License
10-MANUFACTURER OF DESTRUCTIVE DEVICES

Purchasing Certification Statement:
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS INC
FEDERAL CARTRIDGE COMPANY
7480 FLYING CLOUD DRIVE
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature	Position/Title
Printed Name	Date

Previous Edition is Obsolete ALLIANT TECHSYSTEMS INC/900 EHLEN DR/55303-41-003-10-9K-02071/1 October 1, 2009/10-MANUFACTURER OF DESTRUCTIVE DEVICES ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

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Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS INC**

Business Name: **FEDERAL CARTRIDGE COMPANY**

License Number: **3-41-003-10-9K-02071**

License Type: **10-MANUFACTURER OF DESTRUCTIVE DEVICES**

Expiration: **October 1, 2009**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555), you may engage in the activity specified in this license or permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 555.53.** See "WARNINGS" and "NOTICES" on reverse.

Contact ATF Correspondence To ATF - Chief, FELC 244 Needy Road Martinsburg, WV 25405-9431	License/Permit Number 3-MN-003-20-4M-00127
Chief, Federal Explosives Licensing Center (FELC) <i>Christopher R. Peers</i>	Expiration Date December 1, 2014

Name
FEDERAL CARTRIDGE COMPANY

Premises Address (Changes? Notify the FELC at least 10 days before the move.)
**900 EHLEN DRIVE
 ANOKA, MN 55303-**

Type of License or Permit
20-MANUFACTURER OF EXPLOSIVES

Purchasing Certification Statement: The licensee or permittee named above shall use a copy of this license or permit to assist a transferee or transferee of explosives to verify the identity and the licensed status of the licensee or permittee as provided by 27 CFR Part 555. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license or permit with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Explosives Licensee (FEL) or a responsible person of the FELC. I certify that this is a true copy of a license or permit issued to the licensee or permittee named above to engage in the business or operations specified above under "Type of License or Permit."

Mailing Address (Changes? Notify the FELC of any changes.)
**ALLIANT TECHSYSTEMS INC
 FEDERAL CARTRIDGE COMPANY
 7480 FLYING CLOUD DR
 EDEN PRAIRIE, MN 55344-**

Licensee/Permittee Responsible Person Signature	Position/Title
Printed Name	Date

ATF Form 5400.14/5400.15 Part I
Revised October 2011

Federal Explosives License (FEL) Customer Service Information

Federal Explosives Licensing Center (FELC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (877) 283-3352
Fax Number: (304) 616-4401
E-mail: FELC@atf.gov

ATF Homepage: www.atf.gov

Change of Address (27 CFR 555.54(a)(1)). Licensees or permittees may during the term of their current license or permit remove their business or operations to a new location at which they intend regularly to carry on such business or operations. The licensee or permittee is required to give notification of the new location of the business or operations not less than 10 days prior to such removal with the Chief, Federal Explosives Licensing Center. The license or permit will be valid for the remainder of the term of the original license or permit. (The Chief, FELC, shall, if the licensee or permittee is not qualified, refer the request for amended license or permit to the Director of Industry Operations for denial in accordance with § 555.54.)

Right of Succession (27 CFR 555.59). (a) Certain persons other than the licensee or permittee may secure the right to carry on the same explosive materials business or operations at the same address shown on, and for the remainder of the term of, a current license or permit. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee or permittee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business or operations shall furnish the license or permit for for that business or operations for endorsement of such succession to the Chief, FELC, within 30 days from the date on which the successor begins to carry on the business or operations.

(Continued on reverse side)

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Federal Explosives License/Permit (FEL) Information Card

License/Permit Name: **ALLIANT TECHSYSTEMS INC**

Business Name: **FEDERAL CARTRIDGE COMPANY**

License/Permit Number: **3-MN-003-20-4M-00127**

License/Permit Type: **20-MANUFACTURER OF EXPLOSIVES**

Expiration: **December 1, 2014**

Please Note: Not Valid for the Sale or Other Disposition of Explosives.



DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

Martinsburg, WV 25405

December 2, 2011

Alliant Techsystems Inc
Federal Cartridge Company
7480 Flying Cloud Dr
Eden Prairie, MN 55344

901090:CRR/KCU
5400
File Number: 3-MN-00127
June 30

Premises Address: 900 Ehlén Drive, Anoka, MN 55303

Dear Sir/Madam:

This letter acknowledges receipt of your timely application to renew your Federal explosives license/permit.

The Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) is not able to process your application prior to the expiration date of your license/permit. However, Federal law allows you to continue operations under your current license/permit until such time as ATF completes processing your application. See 5 U.S.C. § 558. This letter, or as explained below, a follow-up letter, will serve as your license/permit until we complete action on your renewal. It is referred to as a Letter of Authorization (LOA).

Since we have not completed processing your application, you may supply a copy of this letter to other licensees/permittees, e.g., your distributors, for the next six months (or until we complete action on your renewal, if that occurs in less than six months) as evidence of your licensed/permitted status. If we have not completed processing your application for renewal within six months of the date of this letter, we will send you another letter, which will also be valid for six months (or until we complete action on your renewal, if that occurs in less than six months). This is of course contingent upon your remaining entitled to continue operations under your current license/permit.

Please direct questions or concerns regarding this letter to Susan Clark at 877-283-3352.

2-28-12
Picked up by Dan Pearson
and they have a
Letter of Continuation
and the ATF has a
review they are
reviewing

Sincerely,

Christopher R. Reeves

Christopher R. Reeves
Federal Explosives Licensing Center

ATF web address: www.atf.gov



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

US Mail
4209

LIC. SE/PERMIT (18 U.S.C. CHAPTER 40, E) OSIVES)

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555) you may engage in the activity specified in this license/permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. See "WARNING" and "NOTICES" on back.

DIRECT ATF CORRESPONDENCE TO	Christopher R. Reeves Chief, Federal Explosives Licensing Center (FELC) Bureau of Alcohol, Tobacco, Firearms and Explosives 244 Needy Road Martinsburg, West Virginia 25405 Telephone: 1-877-263-9862 Fax: 1-304-639-4401	LICENSE PERMIT NUMBER	3-MN-003-20-1M-00127
		EXPIRATION DATE	December 1, 2011
NAME FEDERAL CARTRIDGE COMPANY	Premises Address CHANGES? You must notify the FELC at least 10 days before the 900 EHLEN DRIVE ANOKA, MN 55303		
TYPE OF LICENSE OR PERMIT 20-MANUFACTURER OF HIGH EXPLOSIVES			
CHIEF, FEDERAL EXPLOSIVES LICENSING CENTER (FELC)	<i>Christopher R. Reeves</i> Christopher R. Reeves		
PURCHASING CERTIFICATION I certify that this is a true copy of a license/permit issued to me to engage in the activity specified. (SIGNATURE OF LICENSEE/PERMITTEE)	Mailing Address CHANGES? You must notify the FELC at least 10 days before the ALLIANT TECHSYSTEMS INC FEDERAL CARTRIDGE COMPANY 7480 FLYING CLOUD DR EDEN PRAIRIE, MN 55344-		
The licensee/permittee named herein shall use a reproduction of this license/permit to assist a transferor of explosives to verify the identity and status of the licensee/permittee as provided in 27 CFR Part 555. The signature on each reproduction must be an ORIGINAL signature.			

ATF F 5400.14/5400.15, Part 1 (8/89)

Sandberg, Linda

From: Kurvers, Craig
Sent: Thursday, February 05, 2009 9:37 AM
To: Sandberg, Linda
Subject: RE: P.S.

3-MN-00127

EXPIRES
06-01-2009

That's correct!

Craig Kurvers, Security Manager, Export/Import Compliance Officer/AT
900 Ehlen Drive, Anoka, MN 55303 / phone (763) 323 3744 / fax (763) 323
Craig.Kurvers@ATK.com

*Confidentiality Notice:

This e-mail is intended only for the person or entity to which it is addressed and may contain information that is confidential or otherwise protected from disclosure. If you are not the named addressee or an employee or agent responsible for delivering this message to the named addressee, you are not authorized to read, print, retain, copy or disseminate this message or any part of it. If you have received this message in error, please notify us immediately by e-mail, discard any paper copies and delete all electronic files of the message.

From: Sandberg, Linda
Sent: Thursday, February 05, 2009 9:29 AM
To: Kurvers, Craig
Subject: P.S.

I'm assuming the extension is good until 06-01-09? Right?

Linda

From: Kurvers, Craig
Sent: Wednesday, February 04, 2009 6:21 PM
To: Sandberg, Linda; Persoon, Jim
Subject: Re: Question on Explosive License for Federal

We have received a 6 month extension letter from ATF.

From: Sandberg, Linda
To: Kurvers, Craig; Persoon, Jim
Sent: Wed Feb 04 15:51:57 2009
Subject: Question on Explosive License for Federal
Craig & Jim –

When I was checking the Federal files I noticed that the Explosive Licenses had expired for Federal as of 12-01-08. Have you received any current licenses that we might not have in the corporate file? Or, I suppose, they are just late in sending it in or finding the right address to send it to.



LICENSE/PERMIT (18 U.S.C. CHAPTER 40, EXPLOSIVES)

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555) you may engage in the activity specified in this license/permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. See "WARNING" and "NOTICES" on back.

Sent to Jim Persons 11/2/08

DIRECT ATF CORRESPONDENCE TO	Christopher R. Reeves Chief, Federal Explosives Licensing Center (FELC) Bureau of Alcohol, Tobacco, Firearms and Explosives 244 Needy Road Martinsburg, West Virginia 25401-9431 Telephone: 1-877-263-3352 Fax: 1-304-269-1141	LICENSE PERMIT NUMBER	3-MN-003-20-8M-00127
		EXPIRATION DATE	December 1, 2008

NAME FEDERAL CARTRIDGE COMPANY	Premises Address CHANGES? You must notify the FELC at least 10 days before the change. 900 EHLEN DRIVE ANOKA, MN 55303
-----------------------------------	--

TYPE OF LICENSE OR PERMIT
20-MANUFACTURER OF HIGH EXPLOSIVES

CHIEF, FEDERAL EXPLOSIVES LICENSING CENTER (FELC)

Christopher R. Reeves
Christopher R. Reeves

PURCHASING CERTIFICATION I certify that this is a true copy of a license/permit issued to me to engage in the activity specified.	Mailing Address CHANGES? you must notify the FELC at least 10 days before the change. ALLIANT TECHSYSTEMS INC FEDERAL CARTRIDGE COMPANY 5050 LINCOLN DR ATTN:SECURITY-ATF EDINA, MN 55436-
(SIGNATURE OF LICENSEE/PERMITTEE)	

The licensee/permittee named herein shall use a reproduction of this license/permit to assist a transferor of explosives to verify the identity and status of the licensee/permittee as provided in 27 CFR Part 555. The signature on each reproduction must be an ORIGINAL signature.



2-28-11

LICENSE/PERMIT (18 U.S.C. CHAPTER 40, EXPL (IVES)

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555) you may engage in the activity specified in this license/permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder; until the expiration date shown. See "WARNING" and "NOTICES" on back.

DIRECT ATF
CORRESPONDENCE
TO

Christopher R. Reeves
Chief, Federal Explosives Licensing Center (FELC)
Bureau of Alcohol, Tobacco, Firearms and Explosives
244 Needy Road
Martinsburg, West Virginia 25405
Telephone: 1-877-253-3352 Fax: 1-800-816-4401

LICENSE
NUMBER

3-MN-003-23-4C-00502

EXPIRATION
DATE

March 1, 2014

NAME

FEDERAL CARTRIDGE COMPANY

Premises Address CHANGES? You must notify the FELC at least 10 days before the mov
900 EHLEN DRIVE
ANOKA, MN 55303

TYPE OF LICENSE OR PERMIT

23-IMPORTER OF HIGH EXPLOSIVES

CHIEF, FEDERAL EXPLOSIVES LICENSING CENTER (FELC)

Christopher R. Reeves
Christopher R. Reeves

PURCHASING CERTIFICATION

I certify that this is a true copy of a license/permit
issued to me to engage in the activity specified.

Mailing Address CHANGES? You must notify the FELC at least 10 days before the chang

ALLIANT TECH SYSTEMS INC
FEDERAL CARTRIDGE COMPANY
7480 FLYING CLOUD DRIVE
EDEN PRAIRIE, MN 55344

(SIGNATURE OF LICENSEE/PERMITEE)

The licensee/permittee named herein shall use a reproduction of the
license/permit to assist a transferor of explosives to verify the identity
and status of the licensee/permittee as provided in 27 CFR Part 555.
The signature on each reproduction must be an ORIGINAL signature.

**Federal Firearms License
(18 U.S.C. Chapter 44)**

*Sent email 8/17/09
FedEx 8/18/09
to Dick Powell*

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number 1-54-750-01-2H-03459
Chief, Federal Firearms Licensing Center (FFLC) <i>[Signature]</i>	Expiration Date August 1, 2012

Name
ALLIANT TECHSYSTEMS INC

Premises Address (Changes? Notify the FFLC at least 30 days before the move)
**RAAP ROUTE 114
RADFORD, VA 24143**

Type of License
01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. Verify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS INC
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344**

Licensee/Responsible Person Signature <i>[Signature]</i>	Position/Title <i>[Signature]</i>	Date <i>[Signature]</i>
---	--------------------------------------	----------------------------

Printed Name: **ALLIANT TECHSYSTEMS INC RAAP ROUTE 114 RADFORD VA 24143 1-54-750-01-2H-03459 August 1, 2012 01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES**

ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

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Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS INC**

Business Name: *[Signature]*

License Number: **1-54-750-01-2H-03459**

License Type: **01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES**

Expiration: **August 1, 2012**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

**Federal Firearms License
(18 U.S.C. Chapter 44)**

According to the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number 1-54-750-01-9H-03459
Chief, Federal Firearms Licensing Center (FFLC) <i>[Signature]</i>	Expiration Date August 1, 2009

Name
ALLIANT TECHSYSTEMS INC

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**RAAP ROUTE 114#
RADFORD, VA 24143-**

Type of License
01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS INC
730 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature

Position/Title

Printed Name

Date

Previous Edition is Obsolete ALLIANT TECHSYSTEMS INC RAAP ROUTE 114# RADFORD VA 24143-1144 August 1, 2009-01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

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Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS INC**

Business Name:

License Number: **1-54-750-01-9H-03459**

License Type: **01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES**

Expiration: **August 1, 2009**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

Enclosed/mailed to D. Huff 01/16/07

DIRECT ATF
CORRESPONDENCE
TO

Chief, Federal Firearms Licensing Center (FFLC)
Bureau of Alcohol, Tobacco, Firearms and Explosives
2600 Century Parkway NE, Suite 110
Atlanta, Georgia 30345-3104

Telephone: 1-866-662-2750 Fax: 1-866-257-2749
E-mail: NLC@atf.gov ATF website: http://www.atf.gov

LICENSE
NUMBER

1-54-750-01-9H-03459

EXPIRATION
DATE

August 1, 2009

NAME

ALLIANT TECHSYSTEMS INC

Premises Address CHANGES? You must notify the FFLC at least 30 days before the mo

RAAP ROUTE 114
RADFORD, VA 24143

TYPE OF LICENSE

01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES

CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC)

Patricia Power

PURCHASING CERTIFICATION

I certify that this is a true copy of a license
issued to me to engage in the business specified.

(SIGNATURE OF LICENSEE)

The licensee named herein shall use a reproduction of
this license to assist a transferor of firearms to verify
the identity and the licensed status of the licensee as
provided in 27 CFR Part 478. The signature on each
reproduction must be an ORIGINAL signature.

Mailing Address CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes.

ALLIANT TECHSYSTEMS INC
5050 LINCOLN DR ATTN: SECURITY-ATF
EDINA, MN 55436

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

Note you have received only one original license. DO NOT SIGN THE ORIGINAL LICENSE prior to making copies, as the signature on each certified copy must be an original.

A Federal Firearms License does not permit you to receive, sell, or transfer firearms or ammunition without first obtaining the proper State and/or local license, if any. Please check with your local authorities.

ATF Federal Firearms Licensing Center

Federal Firearm License
(18 U.S.C. Chapter 44)

REPRODUCTION OF THIS LICENSE IS PROHIBITED

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 478.51.** See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To
ATF - Chief, FFLC
244 Needy Road
Martinsburg, WV 25405-9431

License Number
1-54-750-10-5C-09040

Chief, Federal Firearms Licensing Center (FFLC)

Expiration Date
March 1, 2015

Name
Tracy Roberts
ALLIANT TECHSYSTEMS OPERATIONS LLC

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)

**ROUTE 114
RADFORD, VA 24141-**

Type of License

10-MANUFACTURER OF DESTRUCTIVE DEVICES

Purchasing Certification Statement

The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)

**ALLIANT TECHSYSTEMS OPERATIONS LLC
ROUTE 114 CALLER SERVICE 1
RADFORD, VA 24143-0100**

Licensee/Responsible Person Signature

Position/Title

Printed Name

Date

Previous Edition is Obsolete ALLIANT TECHSYSTEMS OPERATIONS LLC ROUTE 114 24141-0100 1-54-750-10-5C-09040 March 1, 2015 10-MANUFACTURER OF DESTRUCTIVE DEVICES

ATF Form 8 (5310.11)
Revised October 2011

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov

ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflezcheck

Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C. 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

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Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS OPERATIONS LLC**

Business Name:

License Number: **1-54-750-10-5C-09040**

License Type: **10-MANUFACTURER OF DESTRUCTIVE DEVICES**

Expiration: **March 1, 2015**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available

Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

**Federal Firearms License
(18 U.S.C. Chapter 44)**

*sent email
9/8/09
USMail 9-9-09*

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	1-54-750-10-2H-03462
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	August 1, 2012

Name
ALLIANT TECHSYSTEMS INC

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**RAAP, ROUTE 114
RADFORD, VA 24143-**

Type of License
10-MANUFACTURER OF DESTRUCTIVE DEVICES

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS INC
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344-**

Licensee/Responsible Person Signature _____ Position/Title _____
Printed Name _____ Date _____

ALLIANT TECHSYSTEMS INC-RAAP, ROUTE 114-24143-1-54-750-10-2H-03462-08/01/11, 2012-10-MANUFACTURER OF DESTRUCTIVE DEVICES
Previous Edition is Obsolete

ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

Cut Here ✂

Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS INC**

Business Name:

License Number: **1-54-750-10-2H-03462**

License Type: **10-MANUFACTURER OF DESTRUCTIVE DEVICES**

Expiration: **August 1, 2012**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

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The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

**Federal Firearms License
(18 U.S.C. Chapter 44)**

*sent email 8-11-01
Fed Ex 8-18-09
to Dick Powell*

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	1-54-750-06-2H-03460
Chief, Federal Firearms Licensing Center (FFLC)	<i>Satman</i>	Expiration Date	August 1, 2012

Name
ALLIANT TECHSYSTEMS INC

Premises Address (Changes? Notify the FFLC at least 30 days before the move)
**RAAP, ROUTE 114
RADFORD, VA 24143**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. Certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS INC
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344**

Licensee/Responsible Person Signature
Position/Title

Printed Name
Date

Previous Edition is Obsolete
ALLIANT TECHSYSTEMS INC-RAAP, ROUTE 114-24143-1-54-750-06-2H-03460-August 1, 2012-06-MANUFACTURER OF AMMUNITION FOR FIREARMS
ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
--	---	---

Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

Cut Here ✂

Federal Firearms License (FFL) Information Card	
License Name:	ALLIANT TECHSYSTEMS INC
Business Name:	
License Number:	1-54-750-06-2H-03460
License Type:	06-MANUFACTURER OF AMMUNITION FOR FIREARMS
Expiration:	August 1, 2012
Please Note: Not Valid for the Sale or Other Disposition of Firearms.	

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

**Federal Firearms License
(18 U.S.C. Chapter 44)**

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Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	1-54-750-06-9H-03460
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	August 1, 2009

Name
ALLIANT TECHSYSTEMS INC

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**RAAP, ROUTE 114
RADFORD, VA 24143**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
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Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS INC
7430 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344**

Licensee/Responsible Person Signature	Position/Title
Printed Name	Date

Previous Edition is Obsolete ALLIANT TECHSYSTEMS INC RAAP, ROUTE 114 24143-1-54-750-06-9H-03460 August 1, 2009-06-MANUFACTURER OF AMMUNITION FOR FIREARMS ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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(Continued on reverse side)

Cut Here <-----

Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS INC**

Business Name:

License Number: **1-54-750-06-9H-03460**

License Type: **06-MANUFACTURER OF AMMUNITION FOR FIREARMS**

Expiration: **August 1, 2009**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
Sign-Up Today!

FFLs interested in receiving the electronic version of the FFL Newsletter, along with occasional additional information, should submit name, FFL number, and e-mail address to: FFLNewsletter@atf.gov.

The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

MAIL ROOM
PLEASE MAIL
01/16/07

DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

DIRECT ATF CORRESPONDENCE TO	Chief, Federal Firearms Licensing Center (FFLC) Bureau of Alcohol, Tobacco, Firearms and Explosives 2600 Century Parkway NE Suite 110 Atlanta, Georgia 30345-3104 Telephone: 1-866-662-2750 Fax: 1-866-257-2749 E-mail: NLC@atf.gov ATF website: http://www.atf.gov	LICENSE NUMBER 1-54-750-06-9H-03460
		EXPIRATION DATE August 1, 2009
NAME ALLIANT TECHSYSTEMS INC	Premises Address CHANGES? You must notify the FFLC at least 30 days before the mo RAAP, ROUTE 114 RADFORD, VA 24143	
TYPE OF LICENSE 06-MANUFACTURER OF AMMUNITION FOR FIREARMS		
CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC)  Patricia Power		
PURCHASING CERTIFICATION I certify that this is a true copy of a license issued to me to engage in the business specified. _____ (SIGNATURE OF LICENSEE)	Mailing Address CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes. ALLIANT TECHSYSTEMS INC 5050 LINCOLN D ATTN: SECURITY-ATF EDINA, MN 55436	
The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 478. The signature on each reproduction must be an ORIGINAL signature.		

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

Note you have received only one original license. DO NOT SIGN THE ORIGINAL LICENSE prior to making copies, as the signature on each certified copy must be an original.

A Federal Firearms License does not permit you to receive, sell, or transfer firearms or ammunition without first obtaining the proper State and/or local license, if any. Please check with your local authorities.

ATF Federal Firearms Licensing Center

**Federal Firearms License
(18 U.S.C. Chapter 44)**

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Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	1-54-750-06-9H-03460
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	August 1, 2009

Name
ALLIANT TECHSYSTEMS INC

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**RAAP, ROUTE 114
RADFORD, VA 24143**

Type of License
06-MANUFACTURER OF AMMUNITION FOR FIREARMS

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)

**ALLIANT TECHSYSTEMS INC
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344**

Licensee/Responsible Person Signature

Position/Title

Printed Name

Date

Previous Edition is Obsolete

ALLIANT TECHSYSTEMS INC RAAP, ROUTE 114 24143-1-54-750-06-01-02-08 August 1, 2009 06-MANUFACTURER OF AMMUNITION FOR FIREARMS

ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov

ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflezcheck

Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C. 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

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(Continued on reverse side)

Cut Here ><

Federal Firearms License (FFL) Information Card	
License Name:	ALLIANT TECHSYSTEMS INC
Business Name:	
License Number:	1-54-750-06-9H-03460
License Type:	06-MANUFACTURER OF AMMUNITION FOR FIREARMS
Expiration:	August 1, 2009
Please Note: Not Valid for the Sale or Other Disposition of Firearms.	

FFL Newsletter - Electronic Version Available

Sign-Up Today!

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The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

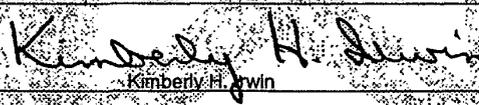
mailed and returned to Lynch Russell on 07/31/09



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

DIRECT ATF CORRESPONDENCE TO	Chief, Federal Firearms Licensing Center (FFLC) Bureau of Alcohol, Tobacco, Firearms and Explosives 2600 Century Parkway NE, Suite 110 Atlanta, Georgia 30345-3104 Telephone: 1-866-662-2750 Fax: 1-866-257-2749 E-mail: NLC@atf.gov ATF website: http://www.atf.gov	LICENSE NUMBER	1-54-750-01-9H-03459
		EXPIRATION DATE	August 1, 2009
NAME	Premises Address CHANGES? You must notify the FFLC at least 30 days before the mo RAAP ROUTE 114 RADFORD, VA 24149		
ALLIANT TECHSYSTEMS INC			
TYPE OF LICENSE	01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES		
CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC)	 Kimberly H. Erwin		
PURCHASING CERTIFICATION	Mailing Address CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes.		
I certify that this is a true copy of a license issued to me to engage in the business specified.	ALLIANT TECHSYSTEMS INC 5050 LINCOLN DR ATTN: SECURITY-ATF EDINA, MN 55436		
(SIGNATURE OF LICENSEE)			
The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 478. The signature on each reproduction must be an ORIGINAL signature.			

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

Note you have received only one original license. DO NOT SIGN THE ORIGINAL LICENSE prior to making copies, as the signature on each certified copy must be an original.

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ATF Federal Firearms Licensing Center



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

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DIRECT ATF CORRESPONDENCE TO

Chief, Federal Firearms Licensing Center (FFLC)
Bureau of Alcohol, Tobacco, Firearms and Explosives
2600 Century Parkway NE Suite 110
Atlanta, Georgia 30345-3104

Telephone: 1-866-662-2750 Fax: 1-866-257-2749
E-mail: NLC@atf.gov ATF website: http://www.atf.gov

LICENSE NUMBER

1-54-750-06-9H-03460

EXPIRATION DATE

August 1, 2009

NAME

ALLIANT TECHSYSTEMS INC

Premises Address CHANGES? You must notify the FFLC at least 30 days before the mov

RAAP, ROUTE 114
RADFORD, VA 24143

TYPE OF LICENSE

06-MANUFACTURER OF AMMUNITION FOR FIREARMS

CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC)

Handwritten signature of Kimberly H. Swin

Kimberly H. Swin

PURCHASING CERTIFICATION

I certify that this is a true copy of a license issued to me to engage in the business specified.

Mailing Address CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes.

ALLIANT TECHSYSTEMS INC
5050 LINCOLN D ATTN:SECURITY-ATF
EDINA, MN 55436

(SIGNATURE OF LICENSEE)

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ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104

Dear Licensee:

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ATF Federal Firearms Licensing Center



DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

FICA 7-27-09
Sent email
FedEx
7-27-09

Martinsburg, West Virginia 25405

July 21, 2009

Alliant Techsystems Inc
7480 Flying Cloud Dr
Eden Prairie, MN 55344-

901020:PP/MCS
5300
File Number: 1-54-03462

Dear Sir:

We are unable to process your Renewal Application for a Federal Firearms License for the following reasons:

Item 7 needs to be completed. Please submit the number of firearms that you have acquired over the past 3 year period. Under item 7(b), please submit the number of firearms that you have disposed of (sold, etc...) over the past 3 year period.

If the requested item(s) or information is not returned to this office, **ATF-FFLC, Attn: Michelle Shepard, 244 Needy Road, Martinsburg, West Virginia 25405**, within 30 days, your application for a Federal firearms license will be considered abandoned and your fee, if submitted, will be refunded. If you have questions regarding this letter, you may call your corporate examiner, Michelle Shepard at 304-616-4625.

Sincerely,

Legal Instruments Examiner



DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

Martinsburg, West Virginia 25405

July 21, 2009

Alliant Techsystems Inc

7480 Flying Cloud Dr
Eden Prairie, MN 55344-

901020:PP/MCS

5300

File Number: 1-54-03462

Premises Address: Raap, Route 114, Radford, VA 24143-

Dear Sir:

This letter acknowledges receipt of your timely application to renew your Federal firearms license which you filed for under Title 18, USC, Chapter 44, and the Code of Federal Regulations, 27 CFR §478.45.

Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) Ruling 75-27 allows you to continue operations under your current license until such time as ATF completes processing your application to renew your Federal firearms license. This letter (or as explained below, a follow-up letter) will serve as your license until we complete action on your renewal. It is referred to as a Letter of Authorization (LOA).

Since we have not completed processing your application to renew your license, you may supply a copy of this letter to other licensees, e.g., your distributors, for the next six months (or until we complete action on your renewal, if that occurs in less than six months) as evidence of your licensed status. If we have not completed processing your application for renewal within six months of the date of this letter, we will send you another letter, which will also be valid for six months (or until we complete action on your renewal, if that occurs in less than six months). This is of course contingent upon your remaining entitled to continue operations under your current license.

If at the end of the six months you have not received your renewed license or another LOA to continue operations, please contact your corporate examiner, Michelle Shepard at 304-616-4625.

Sincerely,

Chief, Federal Firearms Licensing Center

FFL eZ Check: <https://www.atfonline.gov/FFLeZCheck>

ATF web address: www.atf.gov



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE (18 U.S.C. Chapter 44)

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Enclosed/mailed to D. Huff 01/16/07

DIRECT ATF CORRESPONDENCE TO Chief, Federal Firearms Licensing Center (FFLC) Bureau of Alcohol, Tobacco, Firearms and Explosives 2600 Century Parkway NE, Suite 110 Atlanta, Georgia 30345-3104 Telephone: 1-866-662-2750 Fax: 1-866-257-2749 E-mail: NLC@atf.gov ATF website: http://www.atf.gov

LICENSE NUMBER: 1-54-750-10-9H-03462 EXPIRATION DATE: August 1, 2009

NAME: ALLIANT TECHSYSTEMS INC Premises Address: CHANGES? You must notify the FFLC at least 30 days before the mo RAAP, ROUTE 114 RADFORD, VA 24143

TYPE OF LICENSE: 10-MANUFACTURER OF DESTRUCTIVE DEVICES

CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC)

Signature of Patricia Power

Patricia Power

PURCHASING CERTIFICATION

I certify that this is a true copy of a license issued to me to engage in the business specified.

(SIGNATURE OF LICENSEE)

Mailing Address: CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes.

ALLIANT TECHSYSTEMS INC 5050 LINCOLN DR ATTN: SECURITY-ATF EDINA, MN 55436

The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 478. The signature on each reproduction must be an ORIGINAL signature.

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY BUREAU OF ALCOHOL, TOBACCO AND FIREARMS ATLANTA, GEORGIA 30345-3104

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ATF Federal Firearms Licensing Center

EMAILED TO LINDA KUCIENSKI ON 11-11-09
and mailed



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE (18 U.S.C. Chapter 44)

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DIRECT ATF
CORRESPONDENCE
TO

Chief, Federal Firearms Licensing Center (FFLC)
Bureau of Alcohol, Tobacco, Firearms and Explosives
2600 Century Parkway NE Suite 110
Atlanta, Georgia 30345-3104

Telephone: 1-866-662-2750 Fax: 1-866-257-2749
E-mail: NLC@atf.gov ATF website: http://www.atf.gov

LICENSE
NUMBER

1-54-750-10-9H-03462

EXPIRATION
DATE

August 1, 2009

NAME

ALLIANT TECHSYSTEMS INC

Premises Address CHANGES? You must notify the FFLC at least 30 days before the move
RAAP, ROUTE 114
RADFORD, VA 24143

TYPE OF LICENSE

10-MANUFACTURER OF DESTRUCTIVE DEVICES

CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC)

Kimberly H. Arwin
Kimberly H. Arwin

PURCHASING CERTIFICATION

I certify that this is a true copy of a license issued to me to engage in the business specified.

Mailing Address CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes.

ALLIANT TECHSYSTEMS INC
5050 LINCOLN DR ATTN: SECURITY-ATF
EDINA, MN 55436

(SIGNATURE OF LICENSEE)

The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 478. The signature on each reproduction must be an ORIGINAL signature.

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY
BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

Note you have received only one original license. DO NOT SIGN THE ORIGINAL LICENSE prior to making copies, as the signature on each certified copy must be an original.

A Federal Firearms License does not permit you to receive, sell, or transfer firearms or ammunition without first obtaining the proper State and/or local license, if any. Please check with your local authorities.

ATF Federal Firearms Licensing Center

Federal Firearm License
(18 U.S.C. Chapter 44)

REPRODUCTION OF THIS FORM WITHOUT PERMISSION IS PROHIBITED

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 478.51.** See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9491	License Number	1-54-750-11-5C-09041
Chief, Federal Firearms Licensing Center (FFLC)	<i>Tracy Robertson</i>	Expiration Date	March 1, 2015

Name: **ALLIANT TECHSYSTEMS OPERATIONS LLC**

Premises Address (Changes? Notify the FFLC within 30 days before the move.)
**ROUTE 114
RADFORD, VA 24141-**

Type of License: **11-IMPORTER OF DESTRUCTIVE DEVICES**

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the license status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS OPERATIONS LLC
ROUTE 114, CALLER SERVICE 1
RADFORD, VA 24143-0100**

Licensee/Responsible Person Signature	Position/Title
Printed Name	Date

Previous Edition is Obsolete ALLIANT TECHSYSTEMS OPERATIONS LLC ROUTE 114 24141-11 54-750-11-5C-09041 March 1, 2015 11-IMPORTER OF DESTRUCTIVE DEVICES ATF Form 8 (5310.11) Revised October 2011

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
--	---	---

Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C. 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

Right of Succession (27 CFR 478.56). (a) Certain persons other than the licensee may secure the right to carry on the same firearms or ammunition business at the same address shown on, and for the remainder of the term of, a current license. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business shall furnish the license for that business for endorsement of such succession to the Chief, FFLC, within 30 days from the date on which the successor begins to carry on the business.

(Continued on reverse side)

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Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS OPERATIONS LLC**

Business Name:

License Number: **1-54-750-11-5C-09041**

License Type: **11-IMPORTER OF DESTRUCTIVE DEVICES**

Expiration: **March 1, 2015**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available

Sign-Up Today!

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The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

Federal Firearms License
(18 U.S.C. Chapter 44)

DICK [unclear]
3-14-11
7ed Ex

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Direct ATF Correspondence To ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number 1-54-750-10-2H-03462
Chief, Federal Firearms Licensing Center (FFLC) <i>[Signature]</i>	Expiration Date August 1, 2012

Name
ENERGETIC SYSTEMS DIVISION

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**RAAP, ROUTE 114
RADFORD, VA 24143**

Type of License
10-MANUFACTURER OF DESTRUCTIVE DEVICES

Purchasing Certification Statement:
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Mailing Address (Changes? Notify the FFLC of any changes.)
ALLIANT TECHSYSTEMS INC
ENERGETIC SYSTEMS DIVISION
7480 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344

Licensee/Responsible Person Signature	Position/Title
---------------------------------------	----------------

Printed Name ALLIANT TECHSYSTEMS INC-RAAP, ROUTE 114 RADFORD VA 24143	Date August 1, 2012	ATF Form 8 (5310.11) Revised September 2008
--	------------------------	--

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
--	---	---

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(Continued on reverse side)

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Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS INC**

Business Name: **ENERGETIC SYSTEMS DIVISION**

License Number: **1-54-750-10-2H-03462**

License Type: **10-MANUFACTURER OF DESTRUCTIVE DEVICES**

Expiration: **August 1, 2012**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

FFL Newsletter - Electronic Version Available
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The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.

**Federal Firearms License
(18 U.S.C. Chapter 44)**

*sent email to
US Mail to
Duke Powell
12-22-09*

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Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	1-54-750-11-2H-03463
Chief, Federal Firearms Licensing Center (FFLC)	<i>Patricia Brown</i>	Expiration Date	August 1, 2012

Name
ALLIANT TECHSYSTEMS INC

Premises Address (Changes? Notify the FFLC at least 30 days before the move)
**RAAP, ROUTE 114
RADFORD, VA 24143**

Type of License
11-IMPORTER OF DESTRUCTIVE DEVICES

Purchasing Certification Statement
The licensee named above shall use a copy of this license to assist a transferor of firearms to verify the identity and the license status of the licensee as provided by 27 CFR Part 478. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Firearms Licensee (FFL) or a responsible person of the FFL. I certify that this is a true copy of a license issued to the licensee named above to engage in the business specified above under "Type of License."

Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS INC
7486 FLYING CLOUD DR
EDEN PRAIRIE, MN 55344**

Licensee/Responsible Person Signature
Printed Name
Date

ATF Form 8 (5310.11)
Revised September 2008

Federal Firearms License (FFL) Customer Service Information
Federal Firearms Licensing Center (FFLC)
244 Needy Road
Martinsburg, WV 25405-9431
Toll-free Telephone Number: (866) 662-2750
Toll-free Fax Number: (866) 257-2749
E-mail: NLC@atf.gov
ATF Homepage: www.atf.gov
FFL eZ Check: www.atfonline.gov/fflezcheck

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(Continued on reverse side)

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Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS INC**

Business Name:

License Number: **1-54-750-11-2H-03463**

License Type: **11-IMPORTER OF DESTRUCTIVE DEVICES**

Expiration: **August 1, 2012**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

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The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.



DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

11000 11-11-01
by email
FedEx
7-27-09

Martinsburg, West Virginia 25405

July 21, 2009

Alliant Techsystems Inc
7480 Flying Cloud Dr
Eden Prairie, MN 55344-

901020:PP/MCS
5300
File Number: 154-03463-7

Dear Sir:

We are unable to process your Renewal Application for a Federal Firearms License for the following reasons:

Item 7 needs to be completed. Please submit the number of firearms that you have acquired over the past 3 year period. Under item 7(b), please submit the number of firearms that you have disposed of (sold, etc...) over the past 3 year period.

If the requested item(s) or information is not returned to this office, **ATF-FFLC, Attn: Michelle Shepard, 244 Needy Road, Martinsburg, West Virginia 25428**, within 30 days, your application for a Federal firearms license will be considered abandoned and your fee, if submitted, will be refunded. If you have questions regarding this letter, you may call your corporate examiner, Michelle Shepard at 304-616-4625.

Sincerely,

Legal Instruments Examiner



DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

Martinsburg, West Virginia 25405

July 21, 2009

Alliant Techsystems Inc

7480 Flying Cloud Dr
Eden Prairie, MN 55344-

901020:PP/MCS

5300

File Number: 1-54-03463

Premises Address: Raap, Route 114, Radford, VA 24143-

Dear Sir:

This letter acknowledges receipt of your timely application to renew your Federal firearms license which you filed for under Title 18, USC, Chapter 44, and the Code of Federal Regulations, 27 CFR §478.45.

Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) Ruling 75-27 allows you to continue operations under your current license until such time as ATF completes processing your application to renew your Federal firearms license. This letter (or as explained below, a follow-up letter) will serve as your license until we complete action on your renewal. It is referred to as a Letter of Authorization (LOA).

Since we have not completed processing your application to renew your license, you may supply a copy of this letter to other licensees, e.g., your distributors, for the next six months (or until we complete action on your renewal, if that occurs in less than six months) as evidence of your licensed status. If we have not completed processing your application for renewal within six months of the date of this letter, we will send you another letter, which will also be valid for six months (or until we complete action on your renewal, if that occurs in less than six months). This is of course contingent upon your remaining entitled to continue operations under your current license.

If at the end of the six months you have not received your renewed license or another LOA to continue operations, please contact your corporate examiner, Michelle Shepard at 304-616-4625.

Sincerely,

Chief, Federal Firearms Licensing Center

FFL eZ Check: <https://www.atfonline.gov/FFLeZCheck>

ATF web address: www.atf.gov

**Federal Firearms License
(18 U.S.C. Chapter 44)**

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FFLC 244 Needy Road Martinsburg, WV 25405-9431	License Number	1-54-750-11-9H-03463
Chief, Federal Firearms Licensing Center (FFLC)	<i>[Signature]</i>	Expiration Date	August 1, 2009

Name
ALLIANT TECHSYSTEMS INC

Premises Address (Changes? Notify the FFLC at least 30 days before the move.)
**RAAP, ROUTE 114
RADFORD, VA 24143**

Type of License
11-IMPORTER OF DESTRUCTIVE DEVICES

Purchasing Certification Statement
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Mailing Address (Changes? Notify the FFLC of any changes.)
**ALLIANT TECHSYSTEMS INC
7450 FLYING CLOUD DR
EDEN PRAIRIE, MN 56344**

Licensee/Responsible Person Signature	Position/Title	Date	ATF Form 8 (5310.11) Revised September 2008
Printed Name			

Previous Edition is Obsolete

ALLIANT TECHSYSTEMS INC-RAAP, ROUTE 114 24143-1144-03463-0001 1, 2008-11-IMPORTER OF DESTRUCTIVE DEVICES

Federal Firearms License (FFL) Customer Service Information

Federal Firearms Licensing Center (FFLC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (866) 662-2750 Toll-free Fax Number: (866) 257-2749 E-mail: NLC@atf.gov	ATF Homepage: www.atf.gov FFL eZ Check: www.atfonline.gov/fflezcheck
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Change of Address (27 CFR 478.52). Licensees may during the term of their current license remove their business or activity to a new location at which they intend regularly to carry on such business or activity by filing an Application for an Amended Federal Firearms License, ATF Form 5300.38, in duplicate, not less than 30 days prior to such removal with the Chief, Federal Firearms Licensing Center. The application must be executed under the penalties of perjury and penalties imposed by 18 U.S.C 924. The application shall be accompanied by the licensee's original license. The license will be valid for the remainder of the term of the original license. (The Chief, FFLC, shall, if the applicant is not qualified, refer the application for amended license to the Director of Industry Operations for denial in accordance with § 478.71.)

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(Continued on reverse side)

Cut Here ✂

Federal Firearms License (FFL) Information Card

License Name: **ALLIANT TECHSYSTEMS INC**

Business Name:

License Number: **1-54-750-11-9H-03463**

License Type: **11-IMPORTER OF DESTRUCTIVE DEVICES**

Expiration: **August 1, 2009**

Please Note: Not Valid for the Sale or Other Disposition of Firearms.

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The electronic FFL Newsletter will enable ATF to communicate information to licensees on a periodic basis.



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I, Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 478), you are licensed to engage in the business specified in this license, within the limitations of Chapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown. See "WARNINGS" and "NOTICE" on reverse.

Emailed (mailed to D. Huff 8/16/07)

DIRECT ATF CORRESPONDENCE TO: Chief, Federal Firearms Licensing Center (FFLC) Bureau of Alcohol, Tobacco, Firearms and Explosives 2600 Century Parkway NE Suite 110 Atlanta, Georgia 30345-3104 Telephone: 1-866-662-2750 Fax: 1-866-257-2749 E-mail: NLC@atf.gov ATF website: http://www.atf.gov

LICENSE NUMBER: 1-54-750-11-9H-03463

EXPIRATION DATE: August 1, 2009

NAME: ALLIANT TECHSYSTEMS INC Premises Address: CHANGES? You must notify the FFLC at least 30 days before the move RAAP, ROUTE 114 RADFORD, VA 24143

TYPE OF LICENSE: 11-IMPORTER OF DESTRUCTIVE DEVICES

CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC): Patricia Power

PURCHASING CERTIFICATION: I certify that this is a true copy of a license issued to me to engage in the business specified. (SIGNATURE OF LICENSEE)

Mailing Address: CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes. ALLIANT TECHSYSTEMS INC 5050 LINCOLN DR ATTN:SECUR-ATF EDINA, MN 55436

The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 478. The signature on each reproduction must be an ORIGINAL signature.

ATF FORM 8 (5310.11) (6/91) PREVIOUS EDITION IS OBSOLETE



DEPARTMENT OF THE TREASURY BUREAU OF ALCOHOL, TOBACCO AND FIREARMS ATLANTA, GEORGIA 30345-3104

Dear Licensee:

Enclosed you will find your Federal Firearms License.

If this is your first license, publications and an initial supply of forms which relate to the conduct of business as a federal licensee will be mailed from the ATF Distribution Center, P.O. Box 5950, Springfield, Virginia, 22150-5950. Upon receipt of the packet, please use ATF F 1600.8 to order additional forms. Please allow ten days for delivery of your packet. After reviewing the information, if you have questions or problems concerning recordkeeping requirements or other information, contact your local ATF Area Office or you may call the Licensing Center in Atlanta, Georgia at (866) 662-2750.

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ATF Federal Firearms Licensing Center

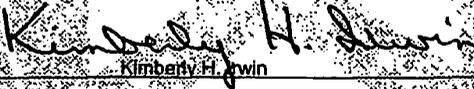
Mailed & tracked to license holder on 01/13/10

DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS



LICENSE (18 U.S.C. Chapter 44)

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DIRECT ATF CORRESPONDENCE TO	Chief, Federal Firearms Licensing Center (FFLC) Bureau of Alcohol, Tobacco, Firearms and Explosives 2600 Century Parkway NE, Suite 110 Atlanta, Georgia 30345-3104 Telephone: 1-866-662-2750 Fax: 1-866-257-2749 E-mail: NLC@atf.gov ATF website: http://www.atf.gov	LICENSE NUMBER	1-54-750-11-9H-03463
		EXPIRATION DATE	August 1, 2009
NAME	Premises Address CHANGES? You must notify the FFLC at least 30 days before the mo		
ALLIANT TECHSYSTEMS INC	RAAP, ROUTE 174 RADFORD, VA 24143		
TYPE OF LICENSE	11-IMPORTER OF DESTRUCTIVE DEVICES		
CHIEF, FEDERAL FIREARMS LICENSING CENTER (FFLC)	 Kimberly H. Irwin		
PURCHASING CERTIFICATION	Mailing Address CHANGES? Mail is NOT forwarded. Notify the FFLC of any changes.		
I certify that this is a true copy of a license issued to me to engage in the business specified.	ALLIANT TECHSYSTEMS INC 5050 LINCOLN DR ATTN:SECUR-ATF EDINA, MN 55436		
(SIGNATURE OF LICENSEE)			
The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 478. The signature on each reproduction must be an ORIGINAL signature.			

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BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
ATLANTA, GEORGIA 30345-3104

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A Federal Firearms License does not permit you to receive, sell, or transfer firearms or ammunition without first obtaining the proper State and/or local license, if any. Please check with your local authorities.

ATF Federal Firearms Licensing Center

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555), you may engage in the activity specified in this license or permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 555.53.** See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FELC 244 Needy Road Martinsburg, WV 25405-9431	License/Permit Number	1-VA-750-20-5C-00808
Chief, Federal Explosives Licensing Center (FELC)	<i>Christopher R. Heers</i>	Expiration Date	March 1, 2015

Name: **ALLIANT TECHSYSTEMS OPERATIONS LLC**

Premises Address (Changes? Notify the FELC of any changes 10 days before the move.):
**ROUTE 114
RADFORD, VA 24141-**

Type of License or Permit: **20-MANUFACTURER OF EXPLOSIVES**

Purchasing Certification Statement: The licensee or permittee named above shall use a copy of this license or permit to assist a transferor of explosives to verify the identity and the licensed status of the licensee or permittee as provided by 27 CFR Part 555. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license or permit with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Explosives Licensee (FEL) or a responsible person of the FEL. I certify that this is a true copy of a license or permit issued to the licensee or permittee named above to engage in the business or operations specified above under "Type of License or Permit."

Mailing Address (Changes? Notify the FELC of any changes.)
ALLIANT TECHSYSTEMS OPERATIONS LLC
ROUTE 114 CALLER SERVICE 1
RADFORD, VA 24143-0100

Licensee/Permittee Responsible Person Signature	Position/Title	Date	ATF Form 5400.14/5400.15 Part I Revised October 2011
Printed Name			

Federal Explosives License (FEL) Customer Service Information

Federal Explosives Licensing Center (FELC): 244 Needy Road, Martinsburg, WV 25405-9431
Toll-free Telephone Number: (877) 283-3352
Fax Number: (304) 616-4401
E-mail: FELC@atf.gov
ATF Homepage: www.atf.gov

Change of Address (27 CFR 555.54(a)(1)). Licensees or permittees may during the term of their current license or permit remove their business or operations to a new location at which they intend regularly to carry on such business or operations. The licensee or permittee is required to give notification of the new location of the business or operations not less than 10 days prior to such removal with the Chief, Federal Explosives Licensing Center. The license or permit will be valid for the remainder of the term of the original license or permit. (The Chief, FELC, shall, if the licensee or permittee is not qualified, refer the request for amended license or permit to the Director of Industry Operations for denial in accordance with § 555.54.)

Right of Succession (27 CFR 555.59). (a) Certain persons other than the licensee or permittee may secure the right to carry on the same explosive materials business or operations at the same address shown on, and for the remainder of the term of, a current license or permit. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee or permittee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business or operations shall furnish the license or permit for that business or operations for endorsement of such succession to the Chief, FELC, within 30 days from the date on which the successor begins to carry on the business or operations.

(Continued on reverse side)

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Federal Explosives License/Permit (FEL) Information Card

License/Permit Name: **ALLIANT TECHSYSTEMS OPERATIONS LLC**

Business Name:

License/Permit Number: **1-VA-750-20-5C-00808**

License/Permit Type: **20-MANUFACTURER OF EXPLOSIVES**

Expiration: **March 1, 2015**

Please Note: Not Valid for the Sale or Other Disposition of Explosives.

Federal Explosive License/Permit
(18 U.S.C. Chapter 40)

REF ID: A66666

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555), you may engage in the activity specified in this license or permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 555.53.** See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To	ATF - Chief, FELC 244 Needy Road Martinsburg, WV 25405-9431	License/Permit Number	1-VA-750-20-5C-00808
Chief, Federal Explosives Licensing Center (FELC)	<i>Christopher R. Keers</i>	Expiration Date	March 1, 2015

Name: **ALLIANT TECHSYSTEMS OPERATIONS LLC**

Premises Address (Changes? Notify the FELC at least 10 days before the move):
**ROUTE 114
RADFORD, VA 24141-**

Type of License or Permit: **20-MANUFACTURER OF EXPLOSIVES**

Purchasing Certification Statement: The licensee or permittee named above shall use a copy of this license or permit to assist a transferor of explosives to verify the identity and the licensed status of the licensee or permittee as provided by 27 CFR Part 555. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license or permit with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Explosives Licensee (FEL) or a responsible person of the FEL. For a true copy of a license or permit issued to the licensee or permittee named above to engage in the business or operations specified above under "Type of License or Permit."

Mailing Address (Changes? Notify the FELC of any changes.):
**ALLIANT TECHSYSTEMS OPERATIONS LLC
ROUTE 114, CALLER SERVICE 1
RADFORD, VA 24143-0100**

Licensee/Permittee Responsible Person Signature	Position/Title	Printed Name	Date

ATF Form 5400.14/5400.15 Part 1
Revised October 2011

Federal Explosives License (FEL) Customer Service Information

Federal Explosives Licensing Center (FELC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (877) 283-3352 Fax Number: (304) 616-4401 E-mail: FELC@atf.gov	ATF Homepage: www.atf.gov
--	--	---------------------------

Change of Address (27 CFR 555.54(a)(1)). Licensees or permittees may during the term of their current license or permit remove their business or operations to a new location at which they intend regularly to carry on such business or operations. The licensee or permittee is required to give notification of the new location of the business or operations not less than 10 days prior to such removal with the Chief, Federal Explosives Licensing Center. The license or permit will be valid for the remainder of the term of the original license or permit. (The Chief, FELC, shall, if the licensee or permittee is not qualified, refer the request for amended license or permit to the Director of Industry Operations for denial in accordance with § 555.54.)

Right of Succession (27 CFR 555.59). (a) Certain persons other than the licensee or permittee may secure the right to carry on the same explosive materials business or operations at the same address shown on, and for the remainder of the term of, a current license or permit. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee or permittee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business or operations shall furnish the license or permit for that business or operations for endorsement of such succession to the Chief, FELC, within 30 days from the date on which the successor begins to carry on the business or operations.

(Continued on reverse side)

Cut Here ✂

Federal Explosives License/Permit (FEL) Information Card

License/Permit Name: **ALLIANT TECHSYSTEMS OPERATIONS LLC**

Business Name:

License/Permit Number: **1-VA-750-20-5C-00808**

License/Permit Type: **20-MANUFACTURER OF EXPLOSIVES**

Expiration: **March 1, 2015**

Please Note: Not Valid for the Sale or Other Disposition of Explosives.



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO, FIREARMS AND EXPLOSIVES

LICENSE/PERMIT (18 U.S.C. CHAPTER 40, EXPLOSIVES)

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555) you may engage in the activity specified in this license/permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. See "WARNING" and "NOTICES" on back.

DIRECT ATF
CORRESPONDENCE
TO

Christopher R. Reeves
Chief, Federal Explosives Licensing Center (FELC)
Bureau of Alcohol, Tobacco, Firearms and Explosives
244 Needy Road
Martinsburg, West Virginia 25405
Telephone: 1-877-283-3352 Fax: 1-304-616-4481

LICENSE
PERMIT
NUMBER

1-VA-750-20-2H-00673

EXPIRATION
DATE

August 1, 2012

NAME

AMMUNITION & ENERGETICS DIVISION

Premises Address CHANGES? You must notify the FELC at least 10 days before the move
ROUTE 114
RADFORD, VA 24143

TYPE OF LICENSE OR PERMIT

20-MANUFACTURER OF HIGH EXPLOSIVES

CHIEF, FEDERAL EXPLOSIVES LICENSING CENTER (FELC)

Christopher R. Reeves
Christopher R. Reeves

PURCHASING CERTIFICATION

I certify that this is a true copy of a license/permit issued to me to engage in the activity specified.

Mailing Address CHANGES? You must notify the FELC at least 10 days before the change

ALLIANT TECHSYSTEMS INC
AMMUNITION & ENERGETICS DIVISION
PO BOX 1
RADFORD, VA 24143

(SIGNATURE OF LICENSEE/PERMITTEE)

The licensee/permittee named herein shall use a reproduction of this license/permit to assist a transferor of explosives to verify the identity and status of the licensee/permittee as provided in 27 CFR Part 555. The signature on each reproduction must be an ORIGINAL signature.

ATF F 5400.14/5400.15, Part 1 (8/89)



DEPARTMENT OF TREASURY - BUREAU OF ALCOHOL, TOBACCO & FIREARMS

LICENSE/PERMIT (18 U.S.C. CHAPTER 40, EXPLOSIVES)

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555) you may engage in the activity specified in this license/permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. See "WARNING" and "NOTICES" on back.

DIRECT ATF
CORRESPONDENCE
TO
Christopher R. Reeves
Chief, Federal Explosives Licensing Center (FELC)
Bureau of Alcohol, Tobacco, Firearms and Explosives
244 Needy Road
Martinsburg, West Virginia 25401-9431
Telephone: 1-877-283-3352 Fax: 1-304-260-1141

LICENSE/
PERMIT
NUMBER

1-VA-750-20-9H-00673

EXPIRATION
DATE

August 1, 2009

NAME
AMMUNITION & ENEGETICS DIVISION

Premises Address CHANGES? You must notify the FELC at least 10 days before the move.
RT 114
RADFORD, VA 24143-

TYPE OF LICENSE OR PERMIT
20-MANUFACTURER OF HIGH EXPLOSIVES

CHIEF, FEDERAL EXPLOSIVES LICENSING CENTER (FELC)

Christopher R. Reeves
Christopher R. Reeves

PURCHASING CERTIFICATION

I certify that this is a true copy of a license/permit issued to me to engage in the activity specified:

Mailing Address CHANGES? You must notify the FELC at least 10 days before the change.

ALLIANT TECHSYSTEMS INC
AMMUNITION & ENEGETICS DIVISION
PO BOX 1
RADFORD, VA 24143-

(SIGNATURE OF LICENSEE/PERMITEE)

The licensee/permittee named herein shall use a reproduction of this license/permit to assist a transferor of explosives to verify the identity and status of the licensee/permittee as provided in 27 CFR Part 555. The signature on each reproduction must be an ORIGINAL signature.

Federal Explosive License/Permit
(18 U.S.C. Chapter 40)

ATF FORM 5400 (14-54)(01) 15 Part I
REVISED OCTOBER 2011

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555), you may engage in the activity specified in this license or permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 555.53.** See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To
ATF - Chief, FELC
244 Needy Road
Martinsburg, WV 25405-9431

License/Permit Number
1-VA-750-23-5C-00809

Chief, Federal Explosives Licensing Center (FELC)

Expiration Date
March 1, 2015

Christopher L. Reers

Name
ALLIANT TECHSYSTEMS OPERATIONS LLC

Premises Address (Changes? Notify the FELC at least 10 days before the move.)
**ROUTE 114
RADFORD, VA 24141-**

Type of License or Permit
23-IMPORTER OF EXPLOSIVES

Purchasing Certification Statement

Mailing Address (Changes? Notify the FELC of any changes.)

The licensee or permittee named above shall use a copy of this license or permit to assist a transferor of explosives to verify the identity and the licensed status of the licensee or permittee as provided by 27 CFR Part 555. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license or permit with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Explosives Licensee (FEL) or a responsible person of the FEL. I certify that this is a true copy of a license or permit issued to the licensee or permittee named above to engage in the business or operations specified above under "Type of License or Permit."

**ALLIANT TECHSYSTEMS OPERATIONS LLC
ROUTE 114 CALLER SERVICE 1
RADFORD, VA 24143-0100**

Licensee/Permittee Responsible Person Signature

Position/Title

Printed Name

Date

ATF Form 5400 (14-54)(01) 15 Part I
Revised October 2011

Previous Edition is Obsolete ALLIANT TECHSYSTEMS OPERATIONS LLC ROUTE 114 RADFORD VA 24141-1-VA-750-23-5C-00809 March 1, 2015 23-IMPORTER OF EXPLOSIVES

Federal Explosives License (FEL) Customer Service Information

Federal Explosives Licensing Center (FELC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (877) 283-3352
Fax Number: (304) 616-4401
E-mail: FELC@atf.gov

ATF Homepage: www.atf.gov

Change of Address (27 CFR 555.54(a)(1)). Licensees or permittees may during the term of their current license or permit remove their business or operations to a new location at which they intend regularly to carry on such business or operations. The licensee or permittee is required to give notification of the new location of the business or operations not less than 10 days prior to such removal with the Chief, Federal Explosives Licensing Center. The license or permit will be valid for the remainder of the term of the original license or permit. (The Chief, FELC, shall, if the licensee or permittee is not qualified, refer the request for amended license or permit to the Director of Industry Operations for denial in accordance with § 555.54.)

Right of Succession (27 CFR 555.59). (a) Certain persons other than the licensee or permittee may secure the right to carry on the same explosive materials business or operations at the same address shown on, and for the remainder of the term of, a current license or permit. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee or permittee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business or operations shall furnish the license or permit for that business or operations for endorsement of such succession to the Chief, FELC, within 30 days from the date on which the successor begins to carry on the business or operations.

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Federal Explosives License/Permit (FEL) Information Card

License/Permit Name: **ALLIANT TECHSYSTEMS OPERATIONS LLC**

Business Name:

License/Permit Number: **1-VA-750-23-5C-00809**

License/Permit Type: **23-IMPORTER OF EXPLOSIVES**

Expiration: **March 1, 2015**

Please Note: Not Valid for the Sale or Other Disposition of Explosives.

Federal Explosive License/Permit
(18 U.S.C. Chapter 40)

ATF FORM 5400-14 (5400-15 Part I)
REVISED OCTOBER 2011

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555), you may engage in the activity specified in this license or permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 555.53.** See "WARNINGS" and "NOTICES" on reverse.

Direct ATF ATF - Chief, FELC
Correspondence To 244 Needy Road
Martinsburg, WV 25405-9431

License/Permit Number **1-VA-750-23-5C-00809**

Chief, Federal Explosives Licensing Center (FELC)

Expiration Date **March 1, 2015**

Christopher L. Reers

Name
ALLIANT TECHSYSTEMS OPERATIONS LLC

Premises Address (Changes? Notify the FELC of any changes 10 days before the move.)
**ROUTE 114
RADFORD, VA 24141-**

Type of License or Permit
23-IMPORTER OF EXPLOSIVES

Purchasing Certification Statement
The licensee or permittee named above shall use a copy of this license or permit to assist a transferor of explosives to verify the identity and the licensed status of the licensee or permittee as provided by 27 CFR Part 555. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license or permit with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Explosives Licensee (FEL) or a responsible person of the FEL. I certify that this is a true copy of a license or permit issued to the licensee or permittee named above to engage in the business or operations specified above under "Type of License or Permit."

Mailing Address (Changes? Notify the FELC of any changes.)
ALLIANT TECHSYSTEMS OPERATIONS LLC
ROUTE 114 GALLERY SERVICE 1
RADFORD, VA 24143-0100

Licensee/Permittee Responsible Person Signature

Position/Title

Printed Name

Date

ATF Form 5400-14 (5400-15 Part I)
Revised October 2011

Previous Edition is Obsolete ALLIANT TECHSYSTEMS OPERATIONS LLC ROUTE 114 RADFORD VA 24141-0100 March 1, 2015 23-IMPORTER OF EXPLOSIVES

Federal Explosives License (FEL) Customer Service Information

Federal Explosives Licensing Center (FELC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (877) 283-3352
Fax Number: (304) 616-4401
E-mail: FELC@atf.gov

ATF Homepage: www.atf.gov

Change of Address (27 CFR 555.54(a)(1)). Licensees or permittees may during the term of their current license or permit remove their business or operations to a new location at which they intend regularly to carry on such business or operations. The licensee or permittee is required to give notification of the new location of the business or operations not less than 10 days prior to such removal with the Chief, Federal Explosives Licensing Center. The license or permit will be valid for the remainder of the term of the original license or permit. (The Chief, FELC, shall, if the licensee or permittee is not qualified, refer the request for amended license or permit to the Director of Industry Operations for denial in accordance with § 555.54.)

Right of Succession (27 CFR 555.59). (a) Certain persons other than the licensee or permittee may secure the right to carry on the same explosive materials business or operations at the same address shown on, and for the remainder of the term of, a current license or permit. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee or permittee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business or operations shall furnish the license or permit for that business or operations for endorsement of such succession to the Chief, FELC, within 30 days from the date on which the successor begins to carry on the business or operations.

(Continued on reverse side)

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Federal Explosives License/Permit (FEL) Information Card	
License/Permit Name: ALLIANT TECHSYSTEMS OPERATIONS LLC	
Business Name:	
License/Permit Number:	1-VA-750-23-5C-00809
License/Permit Type:	23-IMPORTER OF EXPLOSIVES
Expiration:	March 1, 2015
Please Note: Not Valid for the Sale or Other Disposition of Explosives.	



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE/PERMIT (18 U.S.C. CHAPTER 40, EXPLOSIVES)

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555) you may engage in the activity specified in this license/permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. See "WARNING" and "NOTICES" on back.

DIRECT ATF CORRESPONDENCE TO	Christopher R. Reeves Chief, Federal Explosives Licensing Center (FELC) Bureau of Alcohol, Tobacco, Firearms and Explosives 244 Needy Road Martinsburg, West Virginia 25405 Telephone: 1-877-265-3362 Fax: 1-304-916-4401	LICENSE PERMIT NUMBER	1-VA-750-23-2H-00674
		EXPIRATION DATE	August 1, 2012

NAME AMMUNITION & ENERGETICS DIVISION	Premises Address CHANGES? You must notify the FELC at least 10 days before the move ROUTE 114 RADFORD, VA 24143
--	---

TYPE OF LICENSE OR PERMIT 23-IMPORTER OF HIGH EXPLOSIVES

CHIEF, FEDERAL EXPLOSIVES LICENSING CENTER (FELC) <i>Christopher R. Reeves</i> Christopher R. Reeves
--

PURCHASING CERTIFICATION I certify that this is a true copy of a license/permit issued to me to engage in the activity specified.	Mailing Address CHANGES? You must notify the FELC at least 10 days before the change ALLIANT TECHSYSTEMS INC AMMUNITION & ENERGETICS DIVISION PO BOX 1 RADFORD, VA 24143
--	--

The licensee/permittee named herein shall use a reproduction of this license/permit to assist a transferor of explosives to verify the identity and status of the licensee/permittee as provided in 27 CFR Part 555. The signature on each reproduction must be an ORIGINAL signature.



LICENSE/PERMIT (18 U.S.C. CHAPTER 40, EXPLOSIVES)

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555) you may engage in the activity specified in this license/permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. See "WARNING" and "NOTICES" on back.

DIRECT ATF
CORRESPONDENCE
TO
Christopher R. Reeves
Chief, Federal Explosives Licensing Center (FELC)
Bureau of Alcohol, Tobacco, Firearms and Explosives
244 Needy Road
Martinsburg, West Virginia 25401-9431
Telephone: 1-877-263-3352 Fax: 1-304-260-1141

LICENSE/
PERMIT
NUMBER
1-VA-750-23-9H-00674

EXPIRATION
DATE
August 1, 2009

NAME
ALLIANT TECHSYSTEMS INC
Premises Address CHANGES? You must notify the FELC at least 10 days before the move.
RT 114
RADFORD, VA 24143-

TYPE OF LICENSE OR PERMIT
23-IMPORTER OF HIGH EXPLOSIVES

CHIEF, FEDERAL EXPLOSIVES LICENSING CENTER (FELC)
Christopher R. Reeves
Christopher R. Reeves

PURCHASING CERTIFICATION
I certify that this is a true copy of a license/permit issued to me to engage in the activity specified.

Mailing Address CHANGES? You must notify the FELC at least 10 days before the change.

ALLIANT TECHSYSTEMS INC
PO BOX 1
RADFORD, VA 24143-

(SIGNATURE OF LICENSEE/PERMITEE)

The licensee/permittee named herein shall use a reproduction of this license/permit to assist a transferor of explosives to verify the identity and status of the licensee/permittee as provided in 27 CFR Part 555. The signature on each reproduction must be an ORIGINAL signature.



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE/PERMIT (18 U.S.C. CHAPTER 40, EXPLOSIVES)

In accordance with the provisions of Title X, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555) you may engage in the activity specified in this license/permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. See "WARNING" and "NOTICES" on back.

DIRECTOR'S CORRESPONDENCE TO	Christopher R. Reeves Chief, Federal Explosives Licensing Center (FELC) Bureau of Alcohol, Tobacco, Firearms and Explosives 244 Needy Road Martinsburg, West Virginia 25405 Telephone: 1-877-293-3352 Fax: 1-304-261-4201	<div style="background-color: black; color: white; padding: 5px; text-align: center;">5-LA-119-20-1A-00057</div> <div style="background-color: black; color: white; padding: 5px; text-align: center;">January 1, 2011</div>
NAME	EXPLO SYSTEMS INC Premises Address CHANGES: You must notify the FELC at least 10 days before the move. 1600 JAVA RD MINDEN, LA 71055	
TYPE OF LICENSE OR PERMIT	20-MANUFACTURER OF HIGH EXPLOSIVES	
CHIEF FEDERAL EXPLOSIVES LICENSING CENTER (FELC)	 Christopher R. Reeves	
PURCHASING CERTIFICATION	I certify that this is a true copy of the license/permit issued to me to engage in the activity specified.  SIGNATURE OF LICENSEE/PERMITTEE	Mailing Address CHANGES: You must notify the FELC at least 10 days before the change. EXPLO SYSTEMS INC 1600 JAVA RD MINDEN, LA 71055
The licensee/permittee named herein shall use a reproduction of this license/permit to assist a transfer of explosives for use in the territory and states of the licensee/permittee as provided in 27 CFR Part 555. The signature on each reproduction must be an ORIGINAL signature.		



DEPARTMENT OF THE TREASURY - BUREAU OF ALCOHOL, TOBACCO AND FIREARMS

LICENSE/PERMIT (18 U.S.C. CHAPTER 40, EXPLOSIVES)

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555) you may engage in the activity specified in this license/permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. See "WARNING" and "NOTICES" on back.

DIRECT ATF CORRESPONDENCE TO	Christopher R. Reeves Chief, Federal Explosives Licensing Center (FELC) Bureau of Alcohol, Tobacco, Firearms and Explosives 244 Needy Road Martinsburg, West Virginia 25405 Telephone: 1-877-283-3352 Fax: 1-304-616-4401	LICENSE/ PERMIT NUMBER	5-LA-119-23-1A-00059
		EXPIRATION DATE	January 1, 2011
NAME	EXPLO SYSTEMS INC	Premises Address CHANGES? You must notify the FELC at least 10 days before the date. 1800 JAVA MINDEN, LA 71055	
TYPE OF LICENSE OR PERMIT	23-IMPORTER OF HIGH EXPLOSIVES		
CHIEF, FEDERAL EXPLOSIVES LICENSING CENTER (FELC)	<i>Christopher R. Reeves</i> Christopher R. Reeves		
PURCHASING CERTIFICATION I certify that this is a true copy of a license/permit issued to me to engage in the activity specified.	Mailing Address CHANGES? You must notify the FELC at least 10 days before the date. EXPLO SYSTEMS INC 1800 JAVA MINDEN, LA 71055		
(SIGNATURE OF LICENSEE/PERMITTEE)	The licensee/permittee named herein shall use a reproduction of this license/permit to assist a transferor of explosives to verify the identity and status of the licensee/permittee as provided in 27 CFR Part 555. The signature on each reproduction must be an ORIGINAL signature.		



Bureau of Alcohol, Tobacco, Firearms & Explosives
Federal Explosives Licensing Center (FELC)
www.atf.gov

Federal Explosives Licensing Center
344 Needy Road 08/20/2010
Martinsburg, West Virginia 25405
Telephone: (877)283-3352 Fax: (304)616-4401

NOTICE OF CLEARANCE

for individuals transporting, shipping, receiving, or possessing explosive materials.

ISSUED TO: EXPLOSYSTEMS INC

Federal Explosives License/Permit No: 5-LA-119-20-1A-00057

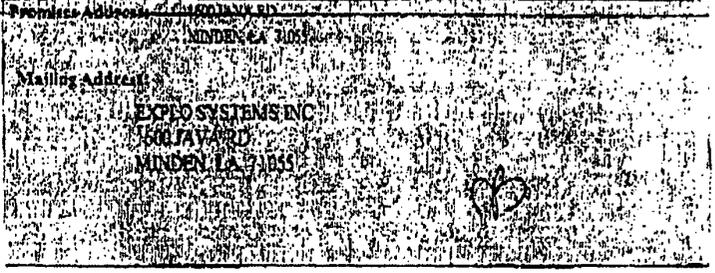
NOTICE DATE: 09/20/2010

Expiration Date: January 1, 2011

EXPIRATION DATE: This Notice expires when superseded by a newer Notice which will list all current responsible persons and employee possessors, or when the license or permit expires - whichever comes first.

Explosives License/Permit Type: 20-MANUFACTURER OF HIGH EXPLOSIVES

- 1 WARNING.** Only those individuals listed below as RESPONSIBLE PERSONS and EMPLOYEE POSSESSORS with a background clearance status of "CLEARED" or "PENDING" are authorized to transport, ship, receive, or possess explosive materials in the course of employment with you.
- 2 "DENIED" STATUS.** If an employee possessor has a background clearance status of "DENIED", you MUST take immediate steps to remove the employee from a position requiring the transporting, shipping, receiving, or possessing of explosive materials. Also, if the employee has been listed as a person authorized to accept delivery of explosive materials, you MUST remove the employee from such list and immediately, and in no event later than the second business day after such change, notify distributors of such change, as stated in 27 CFR 555.33(a).
- 3 CHANGE IN RESPONSIBLE PERSONS.** You MUST report any change in responsible persons to the Chief, Federal Explosives Licensing Center, within 30 days of the change and new responsible persons MUST include "appropriate identifying information" as defined in 27 CFR 555.11. Fingerprints and photos are NOT required, however they will be required upon renewal of the license or permit.
- 4 CHANGE OF EMPLOYEES.** You MUST report any change of employee/possessors to the Chief, FELC, within 30 days. Reports relating to newly hired employees must be submitted on ATF Form 5406.28 for EACH employee.



This 'Notice of Clearance' is provided to you as required by 18 U.S.C. 843(h) and MUST be retained as part of your permanent records and be made available for examination or inspection by ATF officers as required by 27 CFR 555.121. If you receive a Notice subsequent to this Notice, this Notice will no longer be valid.

In accordance with 27 CFR 555.33, Background Checks and Clearances, and 27 CFR 555.57, Change of Control, Change in Responsible Persons, and Change of Employees, ATF's Federal Explosives Licensing Center (FELC) has conducted background checks on the individual(s) you identified as a responsible person(s) and an employee/possessor(s) on your application, or reported after the issuance of your license/permit.

The following is a SUMMARY of the results of the background checks conducted on the individuals you reported as responsible persons and employee/possessors. ATF will be notifying ALL individuals listed on this document of their respective status by separate letter mailed to their residence address.

PLEASE BE ADVISED THAT IT IS UNLAWFUL FOR ANY PERSON REFLECTING A STATUS OF "DENIED" TO TRANSPORT, SHIP, RECEIVE, OR POSSESS EXPLOSIVE MATERIALS.

Please carefully review this Notice to ensure that all the information is accurate. If this Notice is incorrect, please return the Notice to the Chief, FELC, with a statement showing the nature of the error(s). The Chief, FELC, shall correct the error, and return a corrected Notice.

Number of RESPONSIBLE PERSON(S) : 8
Number of EMPLOYEE POSSESSOR(S) : 87

continued

LAST NAME, First Name, Middle Name	Clearance Status	LAST NAME, First Name, Middle Name	Clearance Status
RESPONSIBLE PERSONS:		EMPLOYEE POSSESSORS:	
0001 BURGE, WILBURN THOMAS	Cleared	[REDACTED]	Cleared
0002 CALLINAN, CHARLES FERRIS JR	Cleared	[REDACTED]	Cleared
0003 FINCHER, BARBARA ROBERTS	Cleared	[REDACTED]	Cleared
0004 FINCHER, DAVID PERRY	Cleared	[REDACTED]	Cleared
0005 LAMPKIN, KENNETH WAYNE	Cleared	[REDACTED]	Cleared
0006 LIGGINS, MARTY HARNIAN	Cleared	[REDACTED]	Cleared
0007 SMITH, DAVID ALAN	Cleared	[REDACTED]	Cleared
0008 WOOD, DAVID MORRIS	Cleared	[REDACTED]	Cleared



BOBBY JINDAL
GOVERNOR

MICHAEL D. EDMONSON, COLONEL
DEPUTY SECRETARY

State of Louisiana
Department of Public Safety and Corrections
Public Safety Services

08/26/2009

Explo Systems Inc
1600 Java Rd
Minden LA 71055-0000

EXPLOSIVES LICENSE

LICENSE TYPE: Manufacturer
ISSUED TO: David P Fincher
SSN #:

LICENSE NUMBER: M00000044
COMPANY #: C10000109

In consideration of a regulatory fee of \$ 550 dollars:
Permission is granted to engage in the business of manufacturer of explosives in accordance with the rules and regulations promulgated pursuant thereto and the conditions of the approved application on file with the Department of Public Safety for the period from hereof to and including the last day of August, 2012 .

This license is not transferable and is revocable for cause.

Other Matters: [unclear]



M00000044



TYPE: MANUFACTURER
EXPIRATION: 08/31/2012
DLID#: 067835391
DLID STATE : TN
DAVID FINCHER
226 SPICER ROAD
BURNS, TN 37029

RECEIVED
AUG 29 2009
[Signature]

* SERVICE
employer"
LOUISIANA 70896

Hampton-Alderman, Curenda

From: David Smith [davidalansmith@bellsouth.net]
Date: Wednesday, September 15, 2010 12:22 PM
From: Hampton-Alderman, Curenda
Subject: RE: Proposal 10-615-252 for TNT

Curenda: Explo's Tax ID is 72-1510954, our intended use is in commercial booster explosives.
David Smith

From: Hampton-Alderman, Curenda [mailto:Curenda.Hampton-Alderman@ATK.COM]
Sent: Wednesday, September 15, 2010 10:22 AM
To: davidalansmith@bellsouth.net
Cc: Dulaney, JD; Warner, Christine
Subject: Proposal 10-615-252 for TNT

Good morning David,

Please find attached the subject proposal. Thank you!

Warmest regards,

Curenda Hampton-Alderman
Manager, Contracts

Alliant Techsystems Inc.
RFAAP

Office: (540) 639-8248
Cell: (540) 230-8948