United States Environmental Protection Agency

EPA-530-R-23-027

COMPENDIUM OF ALTERNATIVE TECHNOLOGIES TO OPEN BURNING AND OPEN DETONATION OF ENERGETIC HAZARDOUS WASTES

This compendium is intended for use by open burning/open detonation (OB/OD) facility owners and operators and state and federal permit agencies. The identified alternative treatment technologies are facility- and waste-specific. A technology that has been identified or implemented for a particular waste stream at one facility may not be suitable for another facility with a similar waste stream. This may be encountered across all OB/OD facilities, and more likely at Research, Development, Test, and Evaluation facilities where standard formulations may have been modified resulting in increased sensitivity and explosive risk and perform stress testing that reduces explosives and munitions stability.

This compendium documents when and, in most cases, where alternative technologies have been identified and implemented by facilities. It serves as a supplemental guide both for facilities initiating an alternative technology evaluation and for permit agencies reviewing an alternative technology evaluation. The primary purpose is to allow for comparison of waste streams being evaluated to the waste streams that may be or have been treated in the listed technologies and thereby, inform decisions and promote dialogue between facilities and permit agencies. The compendium is a living document and is expected be updated in the future as more information or new technologies are identified.

The tables below are organized according to the munition or explosive item that either has a documented identified technology or an implemented technology. For the tables, the **column header** notes are as follows:

NEW[A] Per Treatment Event where A = Net explosive weight

Throughput of Unit[B] where B = Throughput is included for example purposes only, as neither the size of the unit nor the source of the rate (design versus permit versus actual) is included.

Treatment Technology[C] where C = Technology vendor and manufacturer names are included when available in the source documents.

Waste Type may include reference numbers where [1, 2, 3] =

1—Pyrotechnic substance or article containing both an explosive substance and an illuminating, incendiary, tear-producing, or smoke-producing substance. Flares or signals.

2—Propellant explosive substance or other deflagrating explosive substance or article containing such explosive substance.

3—Secondary detonating explosive substance or black powder article without a means of initiation and without a propelling charge. Typically contains nitroglycerine, dichloromethane, or nitrodiphenylamine.

Source Documents denoted by [ ] and corresponding number:

[1] US Army. 2021. "Aberdeen Proving Ground—J-Field OD Unit and OBF OB/OD Units—Evaluation of Alternatives to OB/OD, Revision 2." March 26.

[2] US Air Force Material Command. 2020. "Alternative Technologies to Open Burn/Open Detonation Explosive Ordnance Disposal Range Open Burn/Open Detonation Units Edwards Air Force Base, California." November.

[3] US Environmental Protection Agency. 2019. "Alternative Treatment Technologies to Open Burning and Open Detonation of Energetic Hazardous Wastes, Final Report." Office of Resource Conservation and Recovery, EPA 530-R-19-007. December. https://www.epa.gov/hwpermitting/report-about-alternative-technologies-open-burning-and-open-detonation-energetic

[4] Southwest Research Group. 2017. "Final Review Report: Alternatives for the Disposal of Energetic Waste at the Clean Harbors Colfax LLC Open Burn Open Detonation Facility, Colfax, Louisiana." April.

[5] Southwest Research Group. 2017. “Final Review Report: Alternatives for the Disposal of Energetic Waste at the Clean Harbor's Colfax LLC Open Burn Open Detonation Facility, Colfax, Louisiana.” June.

[6] Northrop Grumman. 2022. “Energetic Waste Stream and Alternative Technology Evaluation ATK Launch Systems LLC Bacchus Facility NIROP.” March.

[7] National Aeronautics and Space Administration (NASA). 2017 and 2023. “Goddard Space Flight Center Wallops Flight Facility Wallops Island, Virginia.”

[8] TLI Solutions. 2020. “Open Burning and Open Detonation Re-evaluation of Alternative Technologies, Blue Grass Army Depot.” December.

[9] US Department of Army. Undated. “Alternative Technologies to Open Burning of Propellants, Radford Army Ammunition Plant.”

[10] National Academies of Sciences, Engineering, and Medicine. 2019. “Alternatives for the Demilitarization of Conventional Munitions.” January.

[11] US Army Defense Ammunition Center. 2012. “Hazard Classification of United States Military Explosives and Munitions, Revision 15.” June.

[12] BAE Systems, Ordnance Systems Inc. 2018. “Evaluation of Open Burning at HSAAP Phase One.” December.

[13] US Department of the Army. 2019. “Final Report Thermal/Non-Thermal Solutions to Open Burning Holston Army Ammunition Plant (HSAAP).” March 28.

[14] US Navy. 2020. “Revised Evaluation of Alternative Technologies to Open Detonation for Treatment of Energetic Wastes at the Burro Canyon Naval Air Weapons Station, China Lake, CA.” April 28.

[15] US Navy. 2022. “Updated Evaluation of Alternative Technologies to Open Detonation for Treatment of Energetic Wastes at the Burro Canyon Naval Air Weapons Station, China Lake, CA, Revised Report.” April 26.

[16] Missouri Division of Environmental Quality. 2021. “Missouri Hazardous Waste Management Facility Permit for EBV Explosives Environmental Company dba General Dynamics Ordnance and Tactical Systems Munitions Services, Permit Number MOD985798164, May 26.”

[17] Louisiana Department of Environmental Quality. 2023. “Revised Draft Hazardous Waste Operating Renewal Permit for Clean Harbors Colfax, LLC, Permit Number LAD981055791-OP-RN-2.” March.

[18] Kentucky Department for Environmental Protection. 2020. “Class 3 Hazardous Waste Storage & Treatment Permit Modification Request, Change in Rocket Management and Miscellaneous Permit Updates for the Blue Grass Chemical Agent-Destruction Pilot Plant Blue Grass Army Depot, Richmond, Kentucky.” November.

[19] Maryland Department of the Environment. 2022. “Solid Waste Program Controlled Hazardous Substance Permit, U.S. Army Garrison Aberdeen Proving Ground, Maryland.” May.

[20] General Dynamics-EBV Explosives Treatability Response. 2022. “EBV Explosives Environmental Company, Joplin Missouri.” October.

[21] Clean Harbors Colfax, LLC. 2022. “Revisions to Responses to NOD #1, RCRA Hazardous Waste Permit Renewal Application.” January.

[22] US EPA. 2015. “Request for Approval of an Amended Time-Critical Removal for M6 and CBI Propellant at the Explo Systems, Inc. Site, Minden, Webster Parish, Louisiana Memorandum.” March.

[23] Pennsylvania Department of Environmental Protection. 2022. “US Army Letterkenny Depot Air Quality Program.” October.

[24] Dynasafe Demil Systems. 2023. “Dynasafe Capabilities PowerPoint Presentation.” May.

[25] PIKA International, Inc. “Fort Wingate Depot Disposition of Energetics and MEC.” http://www.pikainc.com/case-histories/fort-wingate-depot-activity-mec/

[26] PIKA International, Inc. “Thermal Convection.” http://www.pikainc.com/innovative-technologies/thermal-convection-system/

[27] PIKA International, Inc. “Pine Bluff Time-Critical White Phosphorus Clean-up.” http://www.pikainc.com/case-histories/pine-bluff-tc-wp-clean-up/

[28] PIKA International, Inc. “Equipment D&D at Lake City AAP.” http://www.pikainc.com/case-histories/lake-city-aap-atk-scrap-decontamination/

[29] PIKA International, Inc. “Indiana AAP Building and Equipment D&D.” http://www.pikainc.com/case-histories/indiana-aap-dd-of-explosives-contaminated-buildingsequipment/

[30] PIKA International, Inc. “In Situ Thermal Decontamination Operations.” http://www.pikainc.com/case-histories/in-situ-thermal-decontamination-of-energetics-contaminated-structures/

[31] PIKA International, Inc. “Small Arms Ammunition Demilitarizing and Recycling.” http://www.pikainc.com/services/small-arms-ammo-demilitarization-and-recycling/

[32] Missouri Department of Natural Resources. “EBV Explosives Environmental Co. Class 2 Hazardous Waste Permit Modification Request Public Comment Period, July 18, 2022, to Sept. 16, 2022.” https://dnr.mo.gov/content/ebv-explosives-environmental-co-class-2-hazardous-waste-permit-modification-request-public-comment-period-july-18-2022-sept-16-2022

[33] Indiana Department of Environmental Management. 2014. “Hazardous Waste Management Permit, Crane Naval Surface Warfare Center, Class 1 Modification.” January.

[34] Indiana Department of Environmental Management. 2018. “Hazardous Waste Management Permit, Draft Class 3 Permit Modification.” August.

[35] First Lieutenant Marshall Z Howell, U.S. Army. 2014. “Crane Army’s Conversion Plant Recycles Munitions Into New Products.” July. https://www.army.mil/article/130652/crane_armys_conversion_plant_recycles_munitions_into_new_products#:~:text=Crane%20Army%27s%20white%20phosphorus-to-phosphoric%20acid%20conversion%20plant%20is,can%20then%20be%20sold%20on%20the%20open%20market

[36] Raenna Morgan, U.S. Army. 2017. “Pioneering New Ways to Destroy Old Ammunition.” September. https://www.army.mil/article/193222/pioneering_new_ways_to_destroy_old_ammunition

[37] U.S. Department of Transportation. (49 CFR 173.52([b]). August 14, 2023.

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Large-cased munitions contain more than 45 kg (100 lb) of energetic material per item. Casings for these items may be thick or thin. This category includes bombs, rocket motors, warheads, large projectiles, sectioned munitions, and all-up missiles.											
60 mm Projectile			1.2	None	Controlled Detonation Chamber (transportable model T-60)	Implemented [3]	No [3]	<40 lb [3]		Reactive bed, porous ceramic filter, and a catalytic oxidizer operating at 1095 °C	[2] [3] [5] [7] [8] [18] [24]
				None	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Implemented [18]	Yes [18]	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents [ ]
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Medium-cased munitions contain between 227g to 45 kg (0.5 and 100 lb) of energetic materials per item. The casings for these items may be thick or thin. This category includes bomblets, warheads, rocket motors, medium projectiles, propellant charges for projectiles, grenades, mines, flares, sectioned munitions, all-up missiles, and numerous other types of munitions.											
20 mm High-Explosive-Incendiary (HEI) Cartridge				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [17]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and the air pollution control system (APCS) stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents [ ]
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
40 mm HEI Cartridge				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
66 mm Rocket or Missile			1.1E	Disassembly by robotic implements	Controlled Detonation Chamber	Implemented [3]	No	T-60: <40 lb [3]		Reactive bed, porous ceramic filter, and	[1] [2] [3] [5] [8] [18] [19] [24]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents [ ]
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Components (1.5 – 12 lb NEW)				Cryofracturing to remove explosive material	(transportable models T-10, T-25, T-30, T-60)					catalytic oxidizer operating at 1095 °C	
				Water jet slurry to remove explosive material							
				Mechanical cutting to remove explosive material	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Identified [1]	No [19]	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	
				Water washout to remove explosive material							
81 mm Large Caliber Cartridge				Disassembly by robotic implements	Controlled Detonation Chamber	Implemented [3]	No	<40 lb [3]		Reactive bed, porous ceramic filter, and	[1] [2] [3] [5] [7] [8] [18] [24]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents [ ]
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
or Projectile (1.5 lb NEW)				Cryofracturing to remove explosive material	(transportable model T-60)					catalytic oxidizer operating at 1095 °C	
				Water jet slurry to remove explosive material							
				Mechanical cutting to remove explosive material	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Implemented [18]	Yes [18]	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	
				Water washout to remove explosive material							

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
84 mm Large Caliber Cartridge or Projectile (1 lb NEW)		HC	1.2	Disassembly by robotic implements	Controlled Detonation Chamber (transportable model T-60)	Implemented [3]	No	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [5] [7] [8] [18] [24]
				Cryofracturing to remove explosive material							
				Water jet slurry to remove explosive material							
				Mechanical cutting to remove explosive material	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Implemented [18]	Yes [18]	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	
				Water washout to remove explosive material							

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
90 mm Large Caliber Cartridge or Projectile (17 lb NEW)		HC	1.2	Disassembly by robotic implements	Controlled Detonation Chamber (transportable model T-60)	Implemented [3]	No	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [5] [7] [8] [18] [24]
				Cryofracturing to remove explosive material							
				Water jet slurry to remove explosive material							
				Mechanical cutting to remove explosive material	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Implemented [18]	Yes [18]	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	
				Water washout to remove explosive material							

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
105 mm Large Caliber Cartridge or Projectile (4.5 lb NEW)		HC	1.1E	Disassembly by robotic implements	Controlled Detonation Chamber (transportable model T-60)	Implemented [3]	No	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [5] [7] [8] [18] [24]
				Cryofracturing to remove explosive material							
				Water jet slurry to remove explosive material							
				Mechanical cutting to remove explosive material	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Implemented [18]	Yes [18]	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	
				Water washout to remove explosive material							

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
107 mm Rocket or Missile Component (1.5 to 12 lb NEW)		HM, HR		Disassembly by robotic implements	Controlled Detonation Chamber (transportable model T-60)	Implemented [3]	No	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [5] [7] [8] [18] [24]
				Cryofracturing to remove explosive material							
				Water jet slurry to remove explosive material							
				Mechanical cutting to remove explosive material	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Implemented [18]	Yes [18]	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	
				Water washout to remove explosive material							

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
120 mm Large Caliber Cartridges or Projectiles (6 to 21 lb NEW)		HC	1.1E	Disassembly by robotic implements	Controlled Detonation Chamber (transportable model T-60)	Implemented [3]	No	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [5] [7] [8] [18] [24]
				Cryofracturing to remove explosive material							
				Water jet slurry to remove explosive material							
				Mechanical cutting to remove explosive material	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Implemented [18]	Yes [18]	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	
				Water washout to remove explosive material							

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
122 mm Large Caliber Cartridges or Projectiles (3 lb NEW)		HC		Disassembly by robotic implements	Controlled Detonation Chamber (transportable model T-60)	Implemented [3]	No	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [5] [8] [18] [24]
				Cryofracturing to remove explosive material							
				Water jet slurry to remove explosive material							
				Mechanical cutting to remove explosive material	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Implemented [18]	Yes [18]	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	
				Water washout to remove explosive material							

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
155 mm Large Caliber Cartridges or Projectiles (2 to 25 lb NEW)			1.2.D	Disassembly by robotic implements	Controlled Detonation Chamber (transportable model T-60)	Implemented [3]	No	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [5] [8] [18] [24]
				Cryofracturing to remove explosive material							
				Water jet slurry to remove explosive material							
				Mechanical cutting to remove explosive material	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Implemented [18]	Yes [18]	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	
				Water washout to remove explosive material							

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
165 mm Large Caliber Cartridges or Projectiles (2 to 25 lb NEW)		HC, HP	1.1F	Disassembly by robotic implements	Controlled Detonation Chamber (transportable model T-60)	Implemented [3]	No	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[2] [3] [5] [8] [18] [24]
				Cryofracturing to remove explosive material							
				Water jet slurry to remove explosive material							
				Mechanical cutting to remove explosive material	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Implemented [18]	Yes [18]	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	
				Water washout to remove explosive material							

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Airdropped Cluster Bomb Units		HB	1.1D	Reverse assembly (manually or by robotic implements) Cryofracturing to remove explosive material	Controlled Detonation Chamber D-100 (fixed)	Implemented	Yes [18]	<20 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[2] [3] [18]
Airdropped Projectiles or Warheads		HB	1.1D	Reverse assembly (manually or by robotic implements) Cryofracturing to remove explosive material	Controlled Detonation Chamber D-100 (fixed)	Implemented	Yes [18]	<20 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[2] [3] [18]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Fixed Ammunition				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [20]
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Anti-Tank Mines		HI	1.1D	Reverse assembly (manually or by robotic implements)	Controlled Detonation Chamber (fixed models: D-100, D-200)	Identified [3]	No	<100 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[2] [3]
				Cryofracturing to remove explosive material							

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Anti-Personnel/ Material Grenades (Hand Incendiary Grenade AN M14—11.91 lb)		HI	1.1E	Reverse assembly (manually or by robotic implements) Cryofracturing to remove explosive material	Controlled Detonation Chamber (fixed models: D-100, D-200)	Identified [3]	No	<100 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[2] [3]
Anti-Personnel/ Material Bomb Loaded Units		HI	1.1D	Reverse assembly (manually or by robotic implements) Cryofracturing to remove explosive material	Controlled Detonation Chamber D-100 (fixed)	Identified [3]	No	<20 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[2] [3] [8]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Anti-Tank Guided Missile (ATGM) Flight Motors (1.5 to 12 lb NEW)		HR	1.3C	Disassembly by robotic implements	Controlled Detonation Chamber D-100(fixed)	Identified [3]	No	<20 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [7] [8] [10]
				Cryofracturing to remove explosive material							
				Water jet slurry cutting to remove explosive material							
				Mechanical cutting (band saws) to remove explosive material	Contained Burn Chamber in static burn/static firing configuration (fixed)	Identified [3]	No	805 lb [10]	2415 lb/hr [10]	Spray tower, venturi scrubber, packed bed scrubber tower, HEPA filter, and induced-draft fan	
				Water washout to remove explosive material							

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
AN-M43A2, Signal, Illumination Flare				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [21]	Yes [17]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	DODIC [11]	MIDAS Family Code [3]	UN Hazard Class/ Division Number [11]								
ATGM Initiators (1.5 to 12 lb NEW)			1.4S	Disassembly by robotic implements	Controlled Detonation Chamber (transportable model T-60)	Identified [3]	No	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [7] [8] [10]
				Cryofracturing to remove explosive material							
				Water jet slurry cutting to remove explosive material							
				Mechanical cutting (band saws) to remove explosive material	Contained Burn Chamber in static burn/static firing configuration (fixed)	Identified [3]	No	805 lb [10]	2415 lb/hr [10]	Spray tower, venturi scrubber, a packed bed scrubber tower, HEPA filter, and induced-draft fan	
				Water washout to remove explosive material							

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
ATGM Warheads (1.5 to 12 lb NEW)			1.1D	Disassembly by robotic implements	Controlled Detonation Chamber	Identified	No	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [7] [8] [10]
				Cryofracturing to remove explosive material							
				Water jet slurry cutting to remove explosive material							
				Mechanical cutting (band saws) to remove explosive material	Contained Burn Chamber in static burn/static firing configuration (fixed)	Identified	No	805 lb [10]	2415 lb/hr [10]	Spray tower, venturi scrubber, packed bed scrubber tower, HEPA filter, and induced-draft fan	
				Water washout to remove explosive material							

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Fireworks			1.1G [20]	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [10] [16]
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Fireworks			1.3G [20]	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [17]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [10] [16] [17]
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Fireworks			1.4G [20]	None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Fireworks (continued)			1.4G [20]	None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Hellfire Eject and Flight Motors (1.5 to 12 lb NEW)			1.3C	None	Contained Burn Chamber in static burn/static firing configuration (fixed)	Identified [1]	No [3]	805 lb [10]	2415 lb/hr [10]	Spray tower, venturi scrubber, packed bed scrubber tower, HEPA filter, and induced-draft fan	[1] [2] [3] [10]
Hellfire Initiators (1.5 to 12 lb NEW)				Disassembly by robotic implements	Controlled Detonation Chamber (transportable models T-10, T-25, T-30, T-60)	Identified [1]	No [3]	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [10]
Hellfire Warheads (1.5 to 12 lb NEW)				None	Controlled Detonation Chamber (transportable model T-60)	Identified [1]	No [3]	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [5] [8] [10] [24]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
					Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Identified [3]	No	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Incendiary Ammunition (Liquid or Gel)				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [7] [10] [16]
				None	Static Kiln	Implemented [16]	Yes [16]	805 lb [2]	22-88 lb/hr [2]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	
L8A3 Red Phosphorus Grenade				Drilling into round to remove red phosphorus	Red/White Phosphorous to Phosphoric Acid Conversion Plant at Crane Army Ammunition Activity	Implemented [36]	Permitted [34]	100 lb [34]	750 lb/hr [34]	Wet dust collector, dry cartridge filtering system, venturi wet scrubber, cartridge baghouse, and a jet pulse	[2] [3] [33] [34] [35] [36]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
L8A3 White Phosphorus Grenade				Drilling into round to remove red white phosphorus	Red/White Phosphorous to Phosphoric Acid Conversion Plant at Crane Army Ammunition Activity	Implemented [35]	Permitted [34]	100 lb [34]	750 lb/hr [34]	Wet dust collector, dry cartridge filtering system, venturi wet scrubber, cartridge baghouse, and a jet pulse	[2] [3] [33] [34] [35] [36]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
M18A1, Claymore Mine				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]	805 lb [2]	22-88 lb/hr [2]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
M-37 Spin Double–based Motors (Composed Primarily of Nitroglycerine (NG) and Nitrocellulose (NC))			1.3C	Ultra-high pressure water jet technology to disassemble motor	ARCTECH Actodemil Hydrolysis (semi-portable)	Identified [3]	No		100 lb/20-day work month [3]	NOx gas controlled with wet scrubber and proprietary ActoHAX reagent	[2] [3] [4] [7]
				High pressure washout to remove explosive material	MuniRem neutralization (portable)	Identified [3]	No		Process is slow with results achieved in hours to days [3]	Vendor claims no emissions	
				Cryogenic washout to remove explosive material							
M825 White Phosphorus Canisters				None	PIKA International Thermal Convection System	Implemented [27]	No				[27]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Nike Double–Based Motors (Composed Primarily of Nitroglycerine, Nitrocellulose, and Lead)			1.3, 1.4	Slurry preparation	General Dynamics Industrial Supercritical Water Oxidation (iSCWO) (fixed)	Identified [10]	No		130-240 lb/hr	Vendor claims no emissions	[2] [3] [7] [10]
				Cryogenic washout to remove explosive material							
				High pressure washout to remove explosive material							
				Ultra-high pressure water jet technology to disassemble motor	Contained Burn Chamber in static burn/static firing configuration (fixed)	Identified [10]	No	805 lb [10]	2415 lb/hr [10]	Spray tower, venturi scrubber, packed bed scrubber tower, HEPA filter, and induced-draft fan	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Orion Composite Motors (Composed Primarily of Ammonium Perchlorate, Aluminum, and a Rubberized Binder)		HM, LR	1.3C	Ultra-high pressure water jet technology to disassemble motor	ATK Launch Systems Ammonium Perchlorate Washout Removal System	Identified	No			Venturi scrubber with packed bed scrubber, paired with magnesium hydroxide to neutralize HCl off-gas	[2] [6] [7] [10]
				High pressure washout to remove explosive material							
				Cryogenic washout to remove explosive material							
				Removal of explosive material with washout	Contained Burn Chamber in static burn/static firing configuration (fixed)	Identified	No	805 lb [10]	2415 lb/hr [10]	Spray tower, venturi scrubber, packed bed scrubber tower, HEPA filter, and induced-draft fan	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Rocket Motors				If >6 lbs NEW, demil by cutting required	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [10] [16] [17]
				If >6 lbs NEW, demil by cutting required	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Rocket Motor, Chaparral			1.3C	None	Contained Burn Chamber in static burn/static firing configuration (fixed)	Identified [10]	No	805 lb [10]	2415 lb/hr [10]	Spray tower, venturi scrubber, packed bed scrubber tower, HEPA filter, and induced-draft fan	[2] [6] [7] [10]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	DODIC [11]	MIDAS Family Code [3]	UN Hazard Class/ Division Number [11]								
Rocket Motor 5 in. MK22-2/3/4F, Liner Demo Charge			1.3C	None	Contained Burn Chamber in static burn/static firing configuration (fixed)	Identified [10]	No	805 lb [10]	2415 lb/hr [10]	Spray tower, venturi scrubber, packed bed scrubber tower, HEPA filter, and induced-draft fan	[2] [7] [8] [10]
Rocket Motor, 2.75 in. MK40 Mod 5			1.3C	None	Contained Burn Chamber in static burn/static firing configuration D-100 (fixed)	Implemented [8]	Yes [8]	805 lb [10]	2415 lb/hr [10]	Spray tower, venturi scrubber, packed bed scrubber tower, HEPA filter, and induced-draft fan	[2] [7] [8] [10]
Rocket Motor, 2.75 in. MK66-2			1.3C	None	Contained Burn Chamber in static burn/static firing configuration (fixed)	Implemented [8]	Yes [8]	805 lb [10]	2415 lb/hr [10]	Spray tower, venturi scrubber, packed bed scrubber tower, HEPA filter, and induced-draft fan	[2] [7] [8] [10]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Safety Device, Electrically Initiated (Airbags, Seatbelt Pretensioners)			9	None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [5] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]	805 lb [2]	22-88 lb/hr [2]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Safety Device, Chemically Initiated				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [5] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Safety Device, Chemically Initiated (continued)				None	Static Kiln	Implemented	Yes [16]	805 lb [2]	22-88 lb/hr [2]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	
Shaped Charges				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [10] [16]
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Shaped Charges without Detonators				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [10] [16]
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Smoke Grenades				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [10] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Smoke Signals				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [10] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
T45E7 Adapter Booster				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [10] [16] [17] [20] [21]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	DODIC [11]	MIDAS Family Code [3]	UN Hazard Class/ Division Number [11]								
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Taurus Double based Motors (Composed Primarily of NC, NG, Lead, and Carbon Black)			1.3C	Ultra-high pressure water jet technology to disassemble motor High pressure washout to remove explosive material	Contained Burn Chamber in static burn/static firing configuration (fixed)	Identified [7]	No	805 lb [10]	2415 lb/hr [10]	Spray tower, venturi scrubber, packed bed scrubber tower, HEPA filter, and induced-draft fan	[2] [3] [7] [8] [10]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
				Cryogenic washout to remove explosive material							
TOW Eject and Flight Motors (1.5 to 12 lb NEW)			1.3C	None	Contained Burn Chamber in static burn/static firing configuration (fixed)	Identified [10]	No	805 lb [10]	2415 lb/hr [10]	Spray tower, venturi scrubber, a packed bed scrubber tower, HEPA filter, and induced-draft fan	[1] [2] [10]
TOW Initiators (1.5 to 12 lb NEW)				Disassembly by robotic implements	Controlled Detonation Chamber (transportable models T-10, T-25, T-30, T-60)	Identified [3]	No [3]	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [10]
TOW Warheads (1.5 to 12 lb NEW)				None	Controlled Detonation Chamber D-100	Identified [3]	No [3]	>20 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [5] [8] [10] [24]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	DODIC [11]	MIDAS Family Code [3]	UN Hazard Class/ Division Number [11]								
					Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Identified [3]	No	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	
Viper Eject and Flight Motors (1.5 to 12 lb NEW)			1.3C	None	Contained Burn Chamber in static burn/static firing configuration (fixed)	Identified [3]	No	805 lb [10]	2415 lb/hr [10]	Spray tower, venturi scrubber, packed bed scrubber tower, HEPA filter, and induced-draft fan	[1] [2] [3] [10]
Viper Initiators (1.5 to 12 lb NEW)				Disassembly by robotic implements	Controlled Detonation Chamber (transportable models T-10, T-25, T-30, T-60)	Identified [3]	No	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [10]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Viper Warheads (1.5 to 12 lb NEW)				None	Controlled Detonation Chamber (transportable models T-10, T-25, T-30, T-60)	Identified [3]	No	<40 lb [3]		Reactive bed, porous ceramic filter, and catalytic oxidizer operating at 1095 °C	[1] [2] [3] [5] [8] [10] [24]
					Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Identified [3]	No	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Small thin-cased munitions contain 227 g (0.5 lb) or less of energetic material per item. This category includes cartridge-actuated devices, propellant-actuated devices, exploding bolts, fuzes, small projectiles, bullets, bomblets, booster pellets, detonators, igniters, leads, thermal batteries, and numerous other small munitions.											
Bag Charges				Cut open to remove NC Propellant	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [10] [16]
				Cut open to remove NC propellant	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Black Powder Charges		PC	1.1D	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [10] [16]
					Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Blasting Caps (Less than 1 lb NEW)	ML45	HX	1.4B	None	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21] [24]
					El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	
					Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Identified [3]	No	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Detonators/ Blasting Caps (Less than 1 lb NEW)		HX	1.4B	None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [8] [10] [16] [17] [21] [24]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Implemented [16]	Yes [16]	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Detonating Train				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Flares and Flare Waste				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [8] [10] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
UN0478, Substances explosive, not otherwise specified (N.O.S.) [1]			1.3G	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack induced-draft fan, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [9] [10] [16] [37]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
UN0485, Substances Explosive, N.O.S.[1]			1.4G	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [9] [10] [16] [37]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Flexible Detonating Cord				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	DODIC [11]	MIDAS Family Code [3]	UN Hazard Class/ Division Number [11]								
Flight and Launch Motors				None	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[2] [3] [4] [5] [8] [10] [16] [17] [21]
				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				Slurry preparation	Decineration	Identified [3]	No	45 lb [5]	550 lb/hr [5]	Wet scrubber, electrically preheated catalytic thermal oxidizer, induced-draft fan, and stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
FMU-54A/B Fuze, Bomb, Inertia Tail				None	Rotary Kiln Incinerator (fixed)	Implemented [3]	Yes [17]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [10] [16] [17]
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
FMU-139A/B Fuze, Bomb, Inertia Tail				None	Rotary Kiln Incinerator (fixed)	Implemented [3]	Yes [17]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [10] [16] [17]
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Fuzes		HX		None	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [17]
					Contained Burn Chamber	Identified [3]	No	410 lb/hr per burn event [17]	410 lb/hr [17]		

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
GGU-2/A Gas Prss Prop. Act. Gen.				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [8] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
GGU-2/A Gas Prss Prop. Act. Gen. (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Hexachloroethane smokes				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [8] [10] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Hexachloroethane smokes (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Igniters Less than 1 lb NEW)				None	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Ignition Cartridges (Less than 1 lb NEW)				None	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Identified [3]	No	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	[1] [2] [3] [4] [5] [10] [17] [21] [24]
					El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Impulse Cartridge BBU-368				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [5] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Impulse Cartridge ARD 446-1				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [5] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Impulse Cartridge, MK107 MOD01				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [5] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	DODIC [11]	MIDAS Family Code [3]	UN Hazard Class/ Division Number [11]								
Infrared Aircraft Flares				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [10] [16] [32]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
M158, Ground Illuminating Red Star Flares	L306		1.3G	None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
M206 Aircraft Countermeasure Flare	L410			None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	
				None	Contained Thermal Treatment Chamber	Implemented	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Mechanical Time Fuzes (Less than 1 lb NEW)		HX	1.1D	Disassembly by robotic implements	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [17]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
				None	Contained Burn Chamber	Identified [3]	No		410 lb/hr [17]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Mortar Charges			1.1C	None	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Identified [3]	No	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	[1] [2] [3] [4] [5] [9] [10] [17] [21] [24]
					El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	
Point-Detonating Fuzes (Less than 1 lb NEW)				Disassembly by robotic implements	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Power Device, Explosive			1.4S	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [10] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Primers (Less than 1 lb NEW)		PB		None	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Propelling Charges			1.2C	Cut open to remove nitrocellulose (NC) propellant	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [8] [10] [16]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	DODIC [11]	MIDAS Family Code [3]	UN Hazard Class/ Division Number [11]								
Propelling Charges for Cannon				Cut open to remove NC propellant	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [10] [16] [17]
				Cut open to remove NC propellant	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Residues and Floor Sweepings from Reactive Armor Tile Testing				Slurry preparation	Decineration	Identified [3]	No	45 lb [5]	550 lb/hr [5]	Wet scrubber, electrically preheated catalytic thermal oxidizer, induced-draft fan, and stack	[1] [2] [3] [5] [10]
Black Powder Contaminated Equipment				None	Thermal Convection System	Implemented [25]	No			Secondary combustion, HEPA particulate filter	[25] [28] [29]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Sporting Ammunition			1.4S	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[2] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Tracers				None	Rotary Kiln Incinerator (fixed)	Identified [5]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [4] [5] [10] [17] [21] [24]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	DODIC [11]	MIDAS Family Code [3]	UN Hazard Class/ Division Number [11]								
					El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	
					Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Identified [3]	No	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Tracers (continued)				Slurry preparation	Decineration	Identified [3]	No	45 lb [5]	550 lb/hr [5]	Wet scrubber, electrically preheated catalytic thermal oxidizer, induced-draft fan, and stack	
Bulk explosives and propellants include "unconfined" energetic materials (e.g., grains of propellant).											
AN/AI				None	Rotary Kiln Incinerator (fixed)	Identified [1]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [9] [10] [18] [24]
				None	Dynasafe Static Detonation Chamber (SDC-1200: semi-portable, SDC-2000: fixed)	Identified [1]	No [18]	805 lb [2]	SDC-1200C: 3703 lb/hr [24] SDC-2000C: 6172 lb/hr [24]	Cyclone, thermal oxidizer, quench, aqueous scrubbers, and carbon filters	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Amatol (50% TNT, 50% Ammonium Nitrate)				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Amatol (50% TNT, 50% Ammonium Nitrate) (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Ammonium Nitrate Emulsion			5.1	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [10] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Ammonium Perchlorate (AP) (Non-Aluminum)		HE	5.1	None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [5] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Ammonium Perchlorate (AP) (Non-Aluminum) (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
AP (Aluminum)				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [5] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
AP (Aluminum) (continued)				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
AP Composite Propellant (MK-6)				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [5] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
AP Composite Propellant (MK-6) (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
AP Contaminated Equipment				None	Thermal Convection System	Implemented [25]	No			Secondary combustion, HEPA particulate filter	[25] [28] [30]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Black Powder		HE	1.1D	None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [5] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack,, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Black Powder (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Boosters without Detonators				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [10] [16]
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
C-4		HE	1.1D	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [9] [10] [16]
Composition A-3		HE	1.1D	None	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[2] [3] [9] [10]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Composition B		HE	1.1D	None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Composition B (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Composition C-3				None	Thermal Convection System	Implemented [25]	No			Secondary combustion, HEPA particulate filter	[25] [28]
Nitrate salt-based Eutectic (DEMN)			1.5	None	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [9] [10]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Double Base (50% Nitrocellulose)				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Double Base (50% Nitrocellulose) (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Dynamite		HE	1.1D	None	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [9] [10]
Emgel			1.1D	None	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [9] [10]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	DODIC [11]	MIDAS Family Code [3]	UN Hazard Class/ Division Number [11]								
Explosive D (Ammonium Picrate)				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
HBX (48/31/17/4 RDX-TNT-A1-WAX)		HE	1.1D	None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[2] [3] [9] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
HBX (48/31/17/4 RDX-TNT-A1-WAX) (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Hexolite (Dry or Wet <15%)				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [10] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	DODIC [11]	MIDAS Family Code [3]	UN Hazard Class/ Division Number [11]								
High Explosives				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[2] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
HMX			1.1D	None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[2] [3] [9] [10] [12] [16] [17] [21] [25] [28]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
HMX (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Thermal Convection System	Implemented [25]	No			Secondary combustion, HEPA particulate filter	
HMX, Desensitized				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[2] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
HMX, Desensitized (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
LF-2 Sheet Explosive			1.1D	None	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [9] [10]
LX-14 Plastic Bonded Explosive (PBX)			1.1D	None	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [9] [10]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
M1 (85% Nitrocellulose)	M035	HE	1.1D	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[2] [3] [9] [10] [16] [17] [25]
					Contained Burn Chamber	Implemented [16]	Yes [16]		410 lb/hr [17]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Thermal Convection System	Implemented [25]	No			Secondary combustion, HEPA particulate filter	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
M-3 Propellant				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [10] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
M6 (87.7% Nitrocellulose)	M130	HE	1.4B	None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[2] [3] [5] [9] [10] [16] [17] [20] [21] [22]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
M6 (87.7% Nitrocellulose) (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	ARCTECH Actodemil Hydrolysis (semi-portable)	Implemented [5]	No [22]		100 lb/20-day work month	NOx gas controlled with wet scrubber and proprietary ActoHAX reagent	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
M-9 Propellant	M256	HE	1.3C	None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[2] [3] [9] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
M-9 Propellant (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
M32A1E1 Propellant				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
M32A1E1 Propellant (continued)				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
M-43 Propellant				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
M-43 Propellant (continued)				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
MK-23 Propellant				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
MK-23 Propellant (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Nitroguanidine or Picrite <20% by Weight Water				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [10] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Nitroglycerine Mixture, Desensitized <30%				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [10] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Octol (75% HMX, 25% TNT)			1.1D	None	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [9] [10] [16]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
PBXN-110 Propellant				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
PBXN-110 Propellant (continued)				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Pentolite			1.1D	None	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [9] [10]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
PETN	MM26-MM29	HE	1.1D	None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [9] [10] [16] [17] [21] [25] [28]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
PETN (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Thermal Convection System	Implemented [25]	No			Secondary combustion, HEPA particulate filter	
PETN with >15% Phlegmatizer				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [10] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
PETN with >15% Phlegmatizer (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Picric Acid					Thermal Convection System	Implemented [25]	No			Secondary combustion, HEPA particulate filter	[25] [28]
Primasheet 1000 (PETN-Based Flexible Sheet Explosive		HX	1.1D	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [9] [10] [16]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
RDX (Cyclonite/ Hexogen)	MM31-MM40	HE	1.1D	None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21] [25] [28]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
RDX (Cyclonite/ Hexogen) (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
					Thermal Convection System	Implemented [25]	No			Secondary combustion, HEPA particulate filter	
Smokeless Powder				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Smokeless Powder (continued)				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Smokey Sam, Propellant				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [5] [10] [16] [17] [21]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Solid Propellant				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [10] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
UN0473, HMX or RDX, Dry or Unphlegmatized			1.1A	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [9] [10] [16] [37]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
UN0475, Diethylene Glycol Dinitrate[3]			1.1D	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [9] [10] [16] [37]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
UN0477, Substances Explosive, N.O.S.[2]			1.3C	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [9] [10] [16] [37]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
UN0479, Substances Explosive, N.O.S.[2]			1.4C	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [9] [10] [16] [37]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
UN0480, Substances Explosive, N.O.S.[3]			1.4D	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack induced-draft fan, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [9] [10] [16] [37]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
UN0482, Substances, Explosive, Very Insensitive, N.O.S.[3]			1.5D	None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [9] [10] [16] [37]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Tetranitromethane Waste (P112)				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [9] [10] [17] [21]
TNT (2,4,6-Trinitrotoluene)	M030	HE	1.1D	None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [9] [10] [16] [17] [21] [25] [28]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack , primary cartridge filter, HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
TNT (2,4,6-Trinitrotoluene) (continued)				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Thermal Convection System	Implemented [25]	No			Secondary combustion, HEPA particulate filter	
TNT Mixed with Aluminum				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack Induced-draft fan, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [10] [16]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
TNT Mixed with Aluminum (continued)				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
TOVEX	MY77	HE	1.1D	None	Rotary Kiln Incinerator (fixed)	Identified [3]	No		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack	[1] [2] [3] [9] [10]
Triple Base (M30-28% Nitrocellulose)				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Triple Base (M30-28% Nitrocellulose) (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Tritonal (79% TNT, 21% Aluminum)				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Tritonal (79% TNT, 21% Aluminum) (continued)				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Tritonal (with 2.5% Calcium Stearate)				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [17] [21]

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Potentially explosive-contaminated materials are other wastes associated with explosives and munitions manufacturing, testing, and use (such as cotton rags, gloves, and post-test debris) and energetic-contaminated containers (such as wood crates, cardboard boxes, velostat bags, and cellulose drums).											
Cartridge Case, Empty Primer				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	[1] [2] [3] [4] [5] [10] [16]
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Diesel and Dunnage				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [21]
				None	Car Bottom Furnace	Implemented [16]	Yes [16]			Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	
				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Diesel and Dunnage (continued)				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Manufacturer's Waste (65% Propellant)				None	El Dorado Engineering Contained Burn Chamber (fixed)	Implemented [21]	Yes [17]	410 lb/hr per burn event [17]	410 lb/hr [17]	Thermal oxidizer, cyclone gas chamber, gas cooler, dry sorbent injection, baghouse, HEPA filter, induced-draft fan, and stack	[1] [2] [3] [4] [10] [16] [17] [20] [21]
				None	Rotary Kiln Incinerator (fixed)	Implemented [16]	Yes [16]		600 lb/hr [2]	Dry scrubber, afterburner, cyclone particle separator, gas cooling system, high-efficiency filter baghouse, induced-draft fan, and stack, primary cartridge filter, HEPA filter, and APCS stack	

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Manufacturer's Waste (65% Propellant) (continued)				None	Contained Thermal Treatment Chamber	Implemented [16]	Yes [16]		79.4 lb/hr [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
				None	Static Kiln	Implemented [16]	Yes [16]		0.24 lb/hr combined D003 and D008 [16]	Induced-draft fan, primary cartridge filter, 99.99 percent efficient HEPA filter, and APCS stack	
Reactive Armor Tile and Residue (Excess Armor Tiles, Used or Impacted Tiles, Residues, or Floor Sweepings from Tile Testing)		HA		Water jet slurry cutting to reduce size	MuniRem neutralization (Portable)	Identified [1]	No			Vendor claims no emissions	[1] [2] [3] [10] [17]
				Mechanical cutting to reduce size							
				Slurry preparation							

Waste Description				Pretreatment Technology	Treatment Technology[C]	Identified or Implemented Technology	Permitted Technology (Yes/No)	NEW[A] Per Treatment Event	Throughput of Unit[B]	Air Pollution Control Device(s)	Source Documents
Type	**DODIC [11]**	**MIDAS Family Code [3]**	**UN Hazard Class/ Division Number [11]**								
Reactive Armor Tile and Residue (Excess Armor Tiles, Used or Impacted Tiles, Residues, or Floor Sweepings from Tile Testing) (continued)				None	El Dorado Engineering Contained Burn Chamber (fixed)	Identified [1]	No	410 lb/hr per burn event [17]	410 lb/hr [17]	High temperature afterburner, selective non-catalytic reduction system for NOx, wet scrubber, induced-draft fan, and stack	