

Modified Ohio Hazardous Waste Facility Installation and Operation Permit

Division of Environmental Response and Revitalization

Permittee: Aust	in Powder Company	U.S. EPA ID:	OHD004293775				
Facility Name: Austin Powder Company – Red Diamond Plant							
Mailing Address:	P.O. Box 317						
City: McArthur		State:	ОН	Zip:	45651		
Operator Name:	Austin Powder Con	npany					
Mailing Address:	P.O Box 317					-	
City: McArthur		State:	ОН	Zip:	45651		
Facility Street Add	ress: 430 Powde	r Plant	Road				
City: McArthur		State:	ОН	_ Zip:	45651	2	
Permit Modification	on						
by the Ohio Enviro modified herein. The Installation and Op The Permittee shall 2018. The informativitien statements safety devices or p	nmental Protection A his modification of the peration Permit is rend I comply with all requition contained in the segarding the specif	gency, e perm ewed, i uiremer modifi ications tters m	is here it shal modifients of the ed per s, loca nade b	eby in I rema ed, wi the mo rmit ap tions, y the a	corporated by reference in in effect until such to thdrawn, suspended, co odified permit applicat pplication is incorporate or capabilities of the pa pplicant in the permit	ce in its entirety, ex time as the Ohio Ha or revoked. ion as amended or red herein by refere rocesses, equipmen	supplemented on May 3, ence. Specifically, all nt, containment devices,
Permit Modification					Date: 7/	12/18	
Craig W. Butler, Dir Ohio Environmenta	ector Il Protection Agency					7	

OHIO ENVIRONMENTAL PROTECTION AGENCY

DEC 30 2811

OHIO HAZARDOUS WASTE FACILITY INSTALLATION AND OPERATION PERMIT RENEWAL

CHILRED DIRECTOR'S JOURNAL

Permittee:

Austin Powder Company

Mailing

Address:

Austin Powder Company

Red Diamond Plant

P.O. Box 317

McArthur, Ohio 45651

Owner:

Austin Powder Company 25800 Science Park Drive Cleveland, Ohio 44122-7386

Operator:

Austin Powder Company

Red Diamond Plant 430 Powder Plant Road McArthur, Ohio 45651

Location:

Austin Powder Red Diamond Plant 430 Powder Plant Road McArthur, Ohio 45651

Ohio Permit No.: 04-82-0643

US EPA ID:

OHD 004 293 775

Issue Date:

December 30, 2011

Effective Date:

December 30, 2011

Expiration Date:

December 30, 2021

official documents as filed in the records of the Ohio

Environmental Protection Agency.

AUTHORIZED ACTIVITIES

In reference to the application of Austin Powder Company Red Diamond Plant for an Ohio Hazardous Waste Facility Installation and Operation Renewal Permit under Ohio Revised Code (ORC) Chapter 3734 and the record in this matter, you are authorized to conduct at the above-named facility the following hazardous waste management activities:

Treatment of reactive hazardous waste by open burning in the designated open burning area at the Red Diamond Plant.

PERMIT, APPROVAL

Scott J. Nally, Director

Ohio Environmental Protection Agency

This permit approval is based upon the record in this matter which is maintained at the offices of the Ohio Environmental Protection Agency. The Director has considered the application, accompanying information, inspection reports of the facility, a report regarding the facility's compliance or noncompliance with the terms and conditions of its permit and rules adopted by the Director under this chapter, and such other information as is relevant to the operation of the facility. The Director has determined that the facility under the existing permit has a history of compliance with ORC Chapter 3734, rules adopted under it, the existing permit, or orders entered to enforce such requirements that demonstrate sufficient reliability, expertise, and competency to operate the facility henceforth under this chapter, rules adopted under it, and the renewal permit.

Entered into the Journal of the Director this 30 day of December 2011.

of the Ohio Environmental Protection Agency.

MODULE A - GENERAL PERMIT CONDITIONS

A. GENERAL PERMIT CONDITIONS

A.1 <u>Effect of Permit</u> ORC Sections 3734.02 (E) and (F) and 3734.05 OAC Rule 3745-50-58(G)

- (a) The Permittee is authorized to treat hazardous waste by open burning in accordance with the terms and conditions of this Ohio hazardous waste permit (hereinafter "permit"), ORC Chapter 3734, all applicable Ohio hazardous waste rules, all applicable regulations promulgated under the Resource Conservation and Recovery Act (RCRA), as amended, and the permit application. The permit application, as submitted to Ohio EPA on June 8, 2011, and last updated on August 4, 2011, is hereby incorporated into this permit. In the instance of inconsistent language or discrepancies between the above, the language of the more stringent provision shall govern.
- (b) Any management of hazardous waste not authorized by this permit is prohibited, unless otherwise expressly authorized or specifically exempted by law. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, or invasion of other private rights. Compliance with the terms and conditions of this permit does not obviate the Permittee's obligation to comply with other applicable provisions of law governing protection of public health or the environment including but not limited to the Community Right to Know law under ORC Chapter 3750.
- (c) Off-specification/out-of-date explosives, detonation cord, contaminated packaging and materials (D003), waste water treatment sludge from manufacturing and processing of explosives (K044), and spent carbon from treatment of waste water containing explosives (K045) may be treated by open burning. In addition, empty packaging that contained reactive materials and which meets the definition of an empty container pursuant to OAC Rule 3745-51-07, and waste shock star tubing may be treated by open burning.

A.2 <u>Permit Actions</u> OAC Rule 3745-50-58(F)

This permit may be modified or revoked as specified by Ohio law. The filing of a request by the Permittee for a permit modification, or the notification of planned

changes or anticipated noncompliance on the part of the Permittee, does not stay any permit term or condition.

A.3 Permit Effective/Expiration Date OAC Rule 3745-50-54

The effective date of this permit is the date the permit is entered into the Director's Journal. The permit expiration date is ten years after the date of journalization of this permit.

A.4 <u>Severability</u>

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

A.5 <u>Duty to Comply</u> OAC Rule 3745-50-58(A)

The Permittee must comply with all applicable provisions of ORC Chapter 3734, all applicable Ohio hazardous waste rules, and all terms and conditions of this permit, except to the extent and for the duration such noncompliance is authorized by the laws of the State of Ohio. Any permit noncompliance, other than noncompliance authorized by the laws of the State of Ohio, constitutes a violation of ORC Chapter 3734 and is grounds for enforcement action, revocation, modification, denial of a permit renewal application, or other appropriate action.

A.6 <u>Duty to Reapply and Permit Expiration</u> OAC Rules 3745-50-40(D), 3745-50-58(B), and 3745-50-56 and ORC Section 3734.05(H)

- (a) If the Permittee wishes to continue an activity allowed by this permit after the expiration date of this permit, the Permittee must submit a completed permit application for a hazardous waste facility installation and operation permit renewal and any necessary accompanying general plans, detailed plans, specifications, and such information as the Director may require, to the Director no later than one hundred eighty (180) days prior to the expiration date of this permit, unless a later submittal date has been authorized by the Director upon a showing of good cause.
- (b) The Permittee may continue to operate in accordance with the terms and conditions of the expired permit until a renewal permit is issued or denied if:

- (i) the Permittee has submitted a timely and complete permit application for a renewal permit under OAC Rule 3745-50-40; and
- (ii) through no fault of the Permittee, a new permit has not been issued pursuant to OAC Rule 3745-50-40 on or before the expiration date of this permit.
- (c) The Corrective Action obligations contained in this permit will continue regardless of whether the facility continues to operate or ceases operation and closes. The Permittee is obligated to complete facility-wide Corrective Action under the conditions of this permit regardless of the operational status of the facility. The Permittee must submit an application for permit renewal at least 180 days before the expiration date of this permit pursuant to OAC Rule 3745-50-40(D) unless a) the permit has been modified to terminate the Corrective Action schedule of compliance and the Permittee has been released from the requirements for financial assurance for Corrective Action; or b) a later submittal date has been authorized by the Director.

A.7 <u>Need to Halt or Reduce Activity Not a Defense</u> OAC Rule 3745-50-58(C)

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce a permitted activity in order to maintain compliance with the conditions of this permit.

A.8 <u>Duty to Mitigate</u> OAC Rule 3745-50-58(D)

The Permittee must take all reasonable steps to minimize releases to the environment and must carry out such measures as are reasonable to prevent significant adverse impact on human health or the environment resulting from noncompliance with this permit.

A.9 <u>Proper Operation and Maintenance</u> OAC Rule 3745-50-58(E)

The Permittee must at all times properly operate and maintain the facility (and related appurtenances) to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes effective management practices, adequate funding, adequate operator staffing and training, and where appropriate, adequate laboratory and process controls, including appropriate quality assurance/quality control procedures. This provision requires the operation of

back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the terms and conditions of this permit.

A.10 <u>Duty to Provide Information</u> OAC Rule 3745-50-58(H)

The Permittee must furnish to the Director, within a reasonable time, any relevant information which the Director may request to determine whether cause exists for modifying or revoking, or to determine compliance with, this permit. The Permittee must also furnish to the Director, upon request, copies of records required to be kept by this permit.

A.11 Inspection and Entry

OAC Rules 3745-50-58(I) and 3745-50-30 and ORC Section 3734.07

- (a) The Permittee must allow the Director, or an authorized representative, upon stating the purpose and necessity of the inspection and upon proper identification, to:
 - (i) enter at reasonable times upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the terms and conditions of this permit;
 - (ii) have access to and copy, at reasonable times, any records required to be kept under the terms and conditions of this permit;
 - (iii) inspect and photograph, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the terms and conditions of this permit; and
 - (iv) sample, document, or monitor, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by ORC Chapter 3734 and the rules adopted thereunder, any substances or parameter at any location.
- (b) Any record, report, or other information obtained under the hazardous waste rules or Chapter 3734 of the Revised Code shall not be available to the public upon the Permittee's satisfactory showing to Ohio EPA that all or part of the information would divulge methods or processes entitled to protection as trade secrets pursuant to Ohio Trade Secret Law and OAC Rule 3745-50-30.

A.12 Monitoring and Records OAC Rule 3745-50-58(J)

- (a) Any sample and measurement taken for the purpose of monitoring must be representative of the monitored activity. Further, a sample must be a representative sample, as such term is defined and used in the Ohio hazardous waste rules. The method used to obtain a representative sample of the waste to be analyzed must be the appropriate method from Appendix I of OAC Rule 3745-51-20, Laboratory Methods. Laboratory methods must be those specified in Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods, EPA Publication SW-846, Third Edition (November 1986), and additional supplements or editions thereof; Standard Methods for the Examination of Water and Wastewater: Twentieth Edition, 1999; or an equivalent method as specified in the approved waste analysis plan, or as this term is defined and used in the Ohio hazardous waste rules.
- (b) Records of monitoring information must specify the:
 - (i) date(s), exact place(s), and time(s) of sampling or measurements;
 - (ii) individual(s) who performed the sampling or measurements;
 - (iii) date(s) analyses were performed;
 - (iv) individual(s) who performed the analyses;
 - (v) analytical technique(s) or method(s) used; and
 - (vi) results of such analyses.

A.13 <u>Signatory Requirement and Certification of Records</u> OAC Rules 3745-50-58(K) and 3745-50-42

All applications, reports, or information must be properly signed and certified in accordance with OAC Rule 3745-50-58(K).

A.14 <u>Retention of Records and Information Repository</u> OAC Rules 3745-50-40(G), 3745-50-58(J), 3745-50-58(M), and 3745-50-58(N)

(a) The Permittee must retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports and records required by this permit, the certification required by OAC Rule 3745-54-

73(B)(9), and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report, certification, or application.

- (b) The record retention period may be extended by request of the Director at any time and is automatically extended during the course of any unresolved enforcement action regarding the facility.
- (c) The Permittee must maintain, in accordance with the Ohio hazardous waste rules, records of all data used to complete the permit application and any amendments, supplements, or modifications of such application. The Permittee must retain a complete copy of the current application for the effective life of the permit as indicated in Permit Condition A.3.
- (d) The Permittee must maintain records from all ground water monitoring wells and associated ground water surface elevations for the active life of the facility, and for disposal facilities for the post-closure care period as well.
- (e) The director may require the Permittee to establish and maintain an information repository at any time, based on the factors set forth in OAC rule 3745-50-39(C)(2). The information repository will be governed by the provisions in OAC Rules 3745-50-39(C)(3) through (C)(6).
- (f) Corrective Action records must be maintained at least three (3) years after all Corrective Action activities have been completed.

A.15 Planned Changes

OAC Rules 3745-50-51 and 3745-50-58(L)(1)

The Permittee must give notice to the Director as soon as possible of any planned physical alterations or additions to the facility. All such changes must be made in accordance with OAC Rule 3745-50-51.

A.16 Waste Shipments

OAC Rule 3745-53-11 and ORC Section 3734.15(C)

The Permittee must only use properly registered transporters of hazardous waste to remove hazardous waste from the facility, in accordance with all applicable laws and rules.

A.17 <u>Anticipated Noncompliance</u> OAC Rule 3745-50-58(L)(2)

The Permittee must give advance notice to the Director of any planned changes in the permitted facility or operations which may result in noncompliance with the terms and conditions of this permit. Such notification does not waive the Permittee's duty to comply with this permit pursuant to Permit Condition A.5.

A.18 <u>Transfer of Permits</u>

OAC Rules 3745-50-52, 3745-50-58(L)(3), and 3745-54-12

- (a) This permit may be transferred to a new owner or operator only if such transfer is conducted in accordance with ORC Chapter 3734 and the rules adopted thereunder. This permit may be transferred by the Permittee to a new owner or operator only if the permit has been modified under OAC Rule 3745-50-51. Before transferring ownership or operation of the facility, the Permittee must notify the new owner or operator in writing of the requirements of ORC Chapter 3734 and the rules adopted thereunder (including all applicable Corrective Action requirements).
- (b) The Permittee's failure to notify the new owner or operator of the requirements of the applicable Ohio law or hazardous waste rules does not relieve the new owner or operator of its obligation to comply with all applicable requirements.

A.19 Compliance Reports

OAC Rules 3745-50-58(L)(5) and 3745-50-50

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule (developed in accordance with OAC Rule 3745-50-50) of this permit must be submitted to the Director no later than fourteen (14) days following each scheduled date.

A.20 <u>Immediate Reporting of Noncompliance</u> OAC Rule 3745-50-58(L)(6)

(a) The Permittee must report orally to Ohio EPA's Division of Environmental Response and Revitalization within twenty-four (24) hours from the time the Permittee becomes aware of any noncompliance with this permit, ORC Chapter 3734, or the rules adopted thereunder which may endanger human health or the environment, including:

- (i) information concerning the release of any hazardous waste that may cause an endangerment to public drinking water supplies; and
- (ii) any information of a release or discharge of hazardous waste or a fire or explosion from the hazardous waste facility which could threaten the environment or human health outside the facility.
- (b) The report must consist of the following information (if such information is available at the time of the oral report):
 - (i) name, address, and telephone number of the owner or operator;
 - (ii) name, address, and telephone number of the facility;
 - (iii) date, time, and type of incident;
 - (iv) name and quantity of material(s) involved;
 - (v) the extent of injuries, if any;
 - (vi) an assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and
 - (vii) estimated quantity and disposition of recovered material that resulted from the incident.

A.21 Follow-Up Written Report of Noncompliance OAC Rule 3745-50-58(L)(6)(c)

- (a) A written report must also be provided to Ohio EPA's Division of Environmental Response and Revitalization and the Division of Materials and Waste Management Southeast District Office within five (5) days of the time the Permittee becomes aware of the circumstances reported in Permit Condition A.20. The written report must address the items in Permit Condition A.20 and must contain a description of such noncompliance and its cause; the period(s) of noncompliance (including exact dates and times); whether the noncompliance has been corrected; and, if not, the anticipated time it is expected to continue; and steps taken or planned to minimize the impact on human health and the environment and to reduce, eliminate, and prevent recurrence of the noncompliance.
- (b) The Permittee need not comply with the five (5) day written report requirement if the Director, upon good cause shown by the Permittee, waives

that requirement and the Permittee submits a written report within fifteen (15) days of the time the Permittee becomes aware of the circumstances.

A.22 Other Noncompliance

OAC Rules 3745-50-58(L)(10) and 3745-50-58(L)(4)

The Permittee must report to the Director all other instances of noncompliance not provided for in Permit Conditions A.19 and A.20. These reports must be submitted within thirty (30) days of the time at which the Permittee is aware of such noncompliance. Such reports must contain all information set forth within Permit Condition A.20.

A.23 Reserved.

A.24 Other Information

OAC Rule 3745-50-58(L)(11)

If at any time the Permittee becomes aware that it failed to submit any relevant facts, or submitted incorrect information to the Director, the Permittee must promptly submit such facts, information, or corrected information to the Director.

A.25 <u>Confidential Information</u>

OAC Rule 3745-50-30

In accordance with ORC Chapter 3734 and the rules adopted thereunder, the Permittee may request confidentiality for any information required to be submitted by the terms and conditions of this permit, or any information obtained by the Director, or an authorized representative, pursuant to the authority provided under Permit Condition A.11.

A.26 Ohio Annual Permit, Disposal, and Treatment Fees OAC Rules 3745-50-33 through 3745-50-36

The annual permit fee, calculated pursuant to OAC Rule 3745-50-36 and payable to the Treasurer of the State, must be submitted to the Director on or before the anniversary of the date of issuance during the term of the permit. For the purpose of the payment of the Ohio Annual Permit Fee, the date of issuance is the date the permit was entered into the Journal of the Director of Ohio EPA.

A.27 Compliance Schedule - Documents OAC Rules 3745-50-50 and 3745-50-51

(a) Unless specified otherwise, the Permittee must submit the documents listed below to:

Ohio EPA, Director c/o Division of Materials and Waste Management Engineering, Remediation, and Authorizations Section P.O. Box 1049
Columbus, Ohio 43216-1049

with a copy sent to:

Ohio EPA, Southeast District Office c/o Division of Materials and Waste Management 2195 Front Street Logan, Ohio 43138-8687

- (b) The Permittee must submit to Ohio EPA within sixty (60) days after permit journalization, in accordance with Ohio's hazardous waste rules, the following information to be incorporated in the permit application:
 - (i) <u>Updated Closure Cost Estimate</u> OAC Rule 3745-55-42

Section I of the permit application containing the financial assurance mechanism for closure must be updated to include a copy of the current closure cost estimate as set forth in OAC Rule 3745-55-42. Since the Permittee has been adjusting the closure cost estimate for inflation in accordance with OAC Rule 3745-55-42(B) for the duration of the previous 10 year permit period, the Permittee must provide a detailed written estimate, in <u>current</u> dollars, of the cost of closing the facility in accordance with OAC Rule 3745-55-42(A).

(ii) <u>Updated Financial Assurance Mechanism for Closure</u> OAC Rule 3745-55-43

Section I of the permit application containing the financial assurance mechanism for closure must be updated to include a copy of the current financial assurance mechanism, as set forth in OAC Rule 3745-55-43, and as specified by the wording requirements of OAC

Rule 3745-55-51. The value of the financial assurance mechanism must reflect at least the current amount of the closure cost estimate.

During the life of the permit, the facility may change the financial assurance mechanism as stated in OAC Rule 3745-55-43. The facility must submit the financial assurance mechanism documentation to the Director of Ohio EPA in accordance with the parameters set forth in OAC Rule 3745-55-43.

(iii) <u>Updated Liability Requirements</u> OAC Rule 3745-55-47

Section I of the permit application containing the mechanism used to demonstrate third party liability coverage must be updated to include a copy of the current liability mechanism as set forth in OAC Rule 3745-55-47 and as specified by the wording requirements of OAC Rule 3745-55-51.

During the life of the permit, the facility may change the mechanism used to demonstrate liability coverage as stated in OAC Rule 3745-55-47. The facility must submit the liability mechanism documentation to the Director of Ohio EPA in accordance with the parameters set forth in OAC Rule 3745-55-47.

A.28 Information to be Maintained at the Facility OAC Rule 3745-54-74

- (a) Unless otherwise specified by the hazardous waste rules, the Permittee must maintain at the facility, until closure is completed and certified by an independent, registered professional engineer, pursuant to OAC Rule 3745-55-15, and until the Director releases the Permittee from financial assurance requirements pursuant to OAC Rule 3745-55-43, the following documents (including amendments, revisions, and modifications):
 - (i) waste analysis plan, developed and maintained in accordance with OAC Rule 3745-54-13 and the terms and conditions of this permit;
 - (ii) contingency plan, developed and maintained in accordance with OAC Rule 3745-54-53 and the terms and conditions of this permit;
 - (iii) closure plan, developed and maintained in accordance with OAC Rule 3745-55-12 and the terms and conditions of this permit;

- (iv) cost estimate for facility closure, developed and maintained in accordance with OAC Rule 3745-55-42 and the terms and conditions of this permit;
- (v) personnel training plan and the training records, developed and maintained in accordance with OAC Rule 3745-54-16 and the terms and conditions of this permit;
- (vi) operating record, required by OAC Rule 3745-54-73 and the terms and conditions of this permit;
- (vii) inspection schedules, developed in accordance with OAC Rules 3745-54-15, 3745-55-74, and 3745-55-95 and the terms and conditions of this permit;
- (viii) post-closure plan, as required by OAC Rule 3745-55-18(A) and the terms and conditions of this permit;
- (ix) annually-adjusted cost estimate for facility closure, as required by OAC Rules 3745-55-42 and 3745-55-44 and the terms and conditions of this permit; and
- (x) all other documents required by Module A, Permit Conditions A.12 and A.14, and the terms and conditions of this permit.
- (b) The Permittee must maintain copies of all inspection logs at the facility for a period of not less than three (3) years from the date of inspection.

A.29 <u>Waste Minimization Report</u> OAC Rules 3745-54-73 and 3745-54-75

- (a) The Permittee must submit a Waste Minimization Report describing the waste minimization program required by OAC Rules 3745-54-75(H), (I), and (J); 3745-54-73(B)(9); and 3745-52-20(A) at least once every five years. The provisions of OAC Rules 3745-54-75(H), (I), and (J) and 3745-54-73(B)(9) must be satisfied annually.
- (b) The Permittee must submit the Waste Minimization Report to Ohio EPA's Office of Compliance Assistance and Pollution Prevention within one hundred eighty (180) days of the effective date of this permit and must submit updates to this report once every five years thereafter.

MODULE B - GENERAL FACILITY CONDITIONS

B. GENERAL FACILITY CONDITIONS

B.1 Design and Operation of Facility OAC Rule 3745-54-31

The Permittee must design, construct, maintain, and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, ground water, or surface waters which could threaten human health or the environment.

B.2 Required Notices OAC Rule 3745-54-12

The Permittee shall not receive hazardous waste from any foreign sources or from any off-site sources.

B.3 General Waste Analysis Plan OAC Rule 3745-54-13

- (a) Before an owner or operator treats, stores, or disposes of any hazardous wastes, or nonhazardous wastes if applicable under OAC Rule 3745-55-13(D), he must obtain a detailed chemical and physical analysis of a representative sample of the wastes. At a minimum, this analysis must contain all the information which must be known to treat, store, or dispose of the waste in accordance with the requirements of OAC Chapters 3745-54 to 3745-57, 3745-205, and 3745-270.
- (b) The Permittee must follow the procedures described in the waste analysis plan found in Section C of the permit application, and the terms and conditions of this permit.
- (c) The Permittee must verify the analysis of each waste stream annually as part of its quality assurance program, in accordance with Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA Publication SW-846, or equivalent methods approved by the Director. At a minimum, the Permittee must maintain proper functional instruments, use approved sampling and analytical methods, verify the validity of sampling and analytical procedures, and perform correct calculations. If the Permittee uses a contract laboratory to perform analyses, then the Permittee must

inform the laboratory in writing that it must operate under the waste analysis conditions set forth in this permit.

B.4 <u>Security</u> OAC Rule 3745-54-14

The Permittee must comply with the security provisions of OAC Rule 3745-54-14(B)(2), OAC Rule 3745-54-14 (C), and Section F of the permit application.

B.5 <u>General Inspection Requirements</u> OAC Rules 3745-54-15 and 3745-54-73

The Permittee must inspect the facility in accordance with OAC Rule 3745-54-15 and the inspection schedule set forth in Section F of the permit application. The Permittee must remedy any deterioration or malfunction discovered by an inspection, as required by OAC Rule 3745-54-15(C). Records of inspection must be kept for a minimum of three years from the date of inspection. These records must be a part of the facility's operating record as required by OAC Rule 3745-54-73.

B.6 <u>Personnel Training</u> OAC Rule 3745-54-16

The Permittee must conduct personnel training, as required by OAC Rule 3745-54-16. This training program must contain at least the elements set forth in Section H of the permit application. The Permittee must maintain training documents and records as required by OAC Rule 3745-54-16(D) and (E).

B.7 <u>General Requirements for Ignitable, Reactive, or Incompatible Wastes</u> OAC Rule 3745-54-17

- (a) The Permittee must comply with the requirements of OAC Rule 3745-54-17 and must follow the procedures for handling ignitable, reactive, and incompatible wastes set forth in Section F of the permit application.
- (b) The Permittee must provide electrical grounding for all containers, tanks, and transport vehicles during all operations involving the handling of ignitable or reactive wastes.
- (c) The Permittee must provide, and require the use of, spark proof tools during all operations involving the handling of all ignitable or reactive wastes.
- (d) The Permittee must prohibit smoking and open flames in each area where ignitable, reactive, or incompatible hazardous wastes are managed and must post appropriate signs.

- (e) All wiring and electrical equipment in any new construction at the Austin Powder Company Red Diamond Plant must meet the National Fire Protection Association's standards for hazardous locations (See National Fire Protection Association, "National Electric Code" National Fire Codes, 1985 Edition, Vol. 3, Chapter 5, Special Occupancies, Articles 500-503, pp.176 through 189).
- B.8 Reserved.
- B.9 Required Equipment
 OAC Rule 3745-54-32

At a minimum, the Permittee must maintain at the facility all the equipment required by OAC Rule 3745-54-32 and the equipment set forth in the contingency plan contained in Section G of the permit application.

B.10 <u>Testing and Maintenance of Equipment</u> OAC Rule 3745-54-33

The Permittee must inspect, test, and maintain the equipment required by Permit Condition B.9 as necessary to assure its proper operation in time of emergency, as specified in OAC Rule 3745-54-33, Sections F and G of the permit application, and the terms and conditions of this permit.

B.11 Access to Communications and Alarm Systems
OAC Rule 3745-54-34

The Permittee must maintain access to the communications and alarm systems, as required by OAC Rule 3745-54-34, Sections F and G of the permit application, and the terms and conditions of this permit.

B.12 Required Aisle Space OAC Rule 3745-54-35

At a minimum, the Permittee must maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, as required by OAC Rule 3745-54-35.

B.13 Arrangements with Local Authorities OAC Rule 3745-54-37

- (a) The Permittee must comply with the requirements of OAC Rule 3745-54-37 (A) by making a diligent effort to:
 - (i) make arrangements and familiarize all emergency response agencies which are likely to respond in an emergency with the location and layout of the facility, properties of hazardous waste managed at the facility and associated hazards, places where facility personnel will normally be working, entrances to and roads inside the facility, and possible evacuation routes as depicted and explained in Section G of the permit application;
 - (ii) make arrangements with Ohio EPA emergency response teams, emergency response contractors, and equipment suppliers;
 - (iii) make arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and types of injuries or illnesses which could result from fires, explosions, or releases at the facility; and
 - (iv) make agreements designating primary emergency authority to a specific police department and a specific fire department and make agreements with any others to provide support to the primary emergency authority, where more than one police and fire department may respond to an emergency.
- (b) Where authorities decline to enter into such agreements or arrangements set forth in OAC Rule 3745-54-37(A), the Permittee must document the refusal in the operating record as required by OAC Rule 3745-54-37(B).

B.14 Implementation of Contingency Plan OAC Rules 3745-54-51 and 3745-54-56

The Permittee must immediately carry out the provisions of the contingency plan and follow the emergency procedures described in OAC Rule 3745-54-56, whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which threatens or could threaten human health or the environment.

In regard to spills and related toxic gas releases, the plan must describe the criteria to be used by the emergency coordinator to determine when the plan will be

implemented. At a minimum, the plan must be implemented in the following situations:

- (a) Any fire involving hazardous waste which threatens or could threaten human health or the environment and is not occurring in accordance with the permit application; or
- (b) Any explosion involving hazardous waste which threatens or could threaten human health or the environment and is not occurring in accordance with the permit application; or
- (c) Any uncontrolled hazardous waste reaction that produces or has the potential to produce hazardous conditions, including noxious, poisonous, flammable and/or explosive gases, fumes, or vapors; harmful dust; or explosive conditions; or
- (d) Any hazardous waste release, outside of a secondary containment system, that causes or has the potential to cause off-site soil and/or surface water contamination; or
- (e) Any hazardous waste release that produces or has the potential to produce hazardous conditions, including noxious, poisonous, flammable and/or explosive gases, fumes, or vapors; harmful dust; or explosive conditions.

B.15 Content of the Contingency Plan OAC Rule 3745-54-52

The Permittee must comply with OAC Rule 3745-54-52 and the contingency plan, as set forth in Section G of the permit application.

B.16 <u>Contingency Plan - Released Material and Emergency Response Material and By-products</u>

OAC Rule 3745-54-56(G)

- (a) Immediately after an emergency, the emergency coordinator must provide for treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material that results from a release, fire, or explosion at the facility.
- (b) All liquid or solid material resulting from fire or explosion, released material, or emergency response material and by-products that the Permittee is required to evaluate to determine whether such material is hazardous waste in accordance with OAC Rule 3745-52-11 must be collected and managed

as a hazardous waste unless the Permittee can demonstrate that such waste is not hazardous in accordance with OAC Rule 3745-51-03(C) and (D).

B.17 <u>Amendments to Plan</u> OAC Rule 3745-54-54

The Permittee must review the contingency plan at least annually and upon the occurrence of any event listed in OAC Rule 3745-54-54. If necessary or appropriate, the Permittee must amend the contingency plan as required by OAC Rule 3745-54-54 in accordance with OAC Rule 3745-50-51.

B.18 <u>Copies of Plan</u> OAC Rule 3745-54-53

- (a) The Permittee must comply with the requirements set forth in OAC Rule 3745-54-53 regarding contingency plan distribution. The Permittee must maintain at the facility a copy of the contingency plan and all revisions to the plan.
- (b) The Permittee must, in accordance with OAC Rule 3745-54-53, submit a copy of the contingency plan to all local police departments, fire departments, hospitals, and local emergency response teams that may be called upon to provide emergency services. The Permittee must notify such agencies and the local authorities, in writing, within ten (10) days of the effective date of any amendments of, revisions to, or modifications to the contingency plan.
- (c) The Permittee must, in accordance with OAC Rule 3745-54-53, submit a copy of the contingency plan to the Ohio Environmental Protection Agency's Division of Environmental Response and Revitalization.

B.19 Emergency Coordinator OAC Rule 3745-54-55

The Permittee must comply with the requirements set forth in OAC Rule 3745-54-55 regarding the emergency coordinator.

B.20 Emergency Procedures OAC Rule 3745-54-56

The Permittee must comply with the requirements regarding emergency procedures set forth in OAC Rule 3745-54-56, Sections F and G of the permit application, and the terms and conditions of this permit.

B.21 Availability, Retention, and Disposition of Records OAC Rule 3745-54-74

All records shall be furnished by the Permittee upon request, and made available at all reasonable times for inspection, by Ohio EPA, in accordance with OAC Rule 3745-54-74.

B.22 Operating Record OAC Rule 3745-54-73

The Permittee must comply with the requirements set forth in OAC Rule 3745-54-73 regarding an operating record, including information to be recorded and the maintenance thereof. The operating record must include a log that contains information on the meterological conditions occurring on the day and time of each waste treatment event.

B.23 Contingency Plan Records OAC Rule 3745-54-56(J)

The Permittee must note in the operating record the time, date, and details of any incident that requires the implementation of the contingency plan. Within fifteen (15) days after any such incident the Permittee must submit to the Director a written report of the incident containing the elements set forth in OAC Rule 3745-54-56(J).

B.24 <u>Manifest System</u>

OAC Rules 3745-54-70, 3745-54-71, 3745-54-72, and 3745-54-76

In managing waste at the facility, the Permittee must comply with OAC Chapter 3745-52 and OAC Rules 3745-54-71, 3745-54-72, and 3745-54-76 with regard to the manifest system.

B.25 Annual Reports and Additional Reports OAC Rules 3745-54-75 and 3745-54-77

The Permittee must comply with the annual report requirements set forth in OAC Rule 3745-54-75 and the additional report requirements set forth in OAC Rule 3745-54-77.

B.26 <u>Closure Performance Standard</u>

OAC Rule 3745-55-11

During facility closure, the Permittee must implement the provisions of the closure plan found in Section I of the permit application in such a manner as to achieve compliance with OAC Rule 3745-55-11.

B.27 Closure Plan

OAC Rules 3745-55-10, 3745-55-11, and 3745-55-13

The Permittee must implement those procedures detailed within Section I of the permit application, in accordance with OAC Rules 3745-55-10 through 3745-55-20.

B.28 Amendment of Closure Plan

OAC Rules 3745-55-12 and 3745-50-51

Should a change in the facility closure plan become necessary, the Permittee must amend the closure plan in accordance with OAC Rule 3745-55-12(C).

B.29 Content of Closure Plan

OAC Rule 3745-55-12

The Permittee must maintain the closure plan at the facility which contains the elements set forth in OAC Rule 3745-55-12 and all elements required by the terms and conditions of this permit.

B.30 Notification of Closure

OAC Rule 3745-55-12

The Permittee must notify the Director in writing at least sixty (60) days prior to the date on which he expects to begin closure of the hazardous waste open burning area, or final closure of the facility, as required by OAC Rule 3745-55-12(D).

B.31 <u>Time Allowed For Closure</u>

OAC Rule 3745-55-13

Within ninety (90) days after receiving the final volume of hazardous waste, the Permittee must remove from the facility, or treat or dispose of on-site, all hazardous waste in accordance with the closure plan. The Director may approve a longer closure period if the Permittee complies with all applicable requirements for requesting a modification to the permit as set forth in OAC Rule 3745-55-13(A). The Permittee must complete all closure activities within one hundred eighty (180) days after receiving the final volume of hazardous waste in accordance with OAC Rule 3745-55-13. The Director may approve a longer closure period if the

Permittee complies with all applicable requirements for requesting a modification to the permit as set forth in OAC Rule 3745-55-13(B).

B.32 <u>Disposal or Decontamination of Equipment, Structures, and Soils</u> OAC Rule 3745-55-14

- (a) The Permittee must decontaminate or dispose of all contaminated facility equipment, structures, and soils, as required by OAC Rule 3745-55-14, the closure plan, and the terms and conditions of this permit.
- (b) The Permittee must notify the Ohio EPA, Southeast District Office within five (5) working days prior to all rinseate and soil sampling.

B.33 <u>Certification of Closure</u> OAC Rule 3745-55-15

The Permittee and a qualified professional engineer must certify that each hazardous waste management unit or the facility has been closed in accordance with the specifications in the closure plan and the terms and conditions of this permit, as required by OAC Rule 3745-55-15. The Permittee must furnish to the Director, upon request, documentation supporting the certification.

- B.34 Reserved.
- B.35 Reserved.

B.36 Cost Estimate for Facility Closure OAC Rule 3745-55-42

- (a) The Permittee's most recent closure cost estimate, prepared in accordance with OAC Rule 3745-55-42, is specified in Section I of the permit application.
- (b) The Permittee must adjust the closure cost estimate for inflation at least sixty (60) days prior to the anniversary date of the establishment of the financial instrument(s) used to comply with OAC Rule 3745-55-43.
- (c) The Permittee must revise the closure cost estimate whenever there is a change in the facility's closure plan that increases the cost of closure, as required by OAC Rule 3745-55-42(C).
- (d) The Permittee must submit to Ohio EPA and keep at the facility the latest closure cost estimate as required by OAC Rule 3745-55-42(D) and (E).

B.37 Financial Assurance for Facility Closure

The Permittee must maintain continuous compliance with OAC Rule 3745-55-43 and 3745-55-46 and provide documentation of financial assurance, which meets the requirements of OAC Rule 3745-55-51, in at least the amount of the cost estimates required by Permit Condition B.36.

B.38 Liability Requirements

The Permittee must maintain continuous compliance with the requirements of OAC Rule 3745-55-47 and the documentation of liability by providing liability coverage which meets the requirements of OAC Rule 3745-55-51 for sudden accidental occurrences in the amount of at least \$1 million per occurrence, with an annual aggregate of at least \$2 million, exclusive of legal defense costs.

B.39 <u>Incapacity of Owners or Operators, Guarantors, or Financial Institutions</u> OAC Rule 3745-55-48

The Permittee must comply with requirements set forth in OAC Rule 3745-55-48 regarding the incapacity of owners, operators, guarantors, or financial institutions.

B.40 General Requirements for Land Disposal Restrictions OAC Chapter 3745-270

The Permittee must comply with all applicable regulations regarding land disposal prohibitions and restrictions as required by OAC Chapter 3745-270.

MODULE C – HAZARDOUS WASTE TREATMENT

C.1 Open Burning of Hazardous Wastes OAC Rules 3745-57-90 through 3745-57-93

The Permittee is authorized to treat hazardous waste via open burning in the permitted open burning area designated for this activity. The Permittee must conduct treatment via open burning in the manner described in Sections C and D of the permit application.

C.2 <u>Limitations on Treatment of Hazardous Waste by Open Burning</u>

- (a) Not more than one thousand (1000) pounds of explosives or explosivecontaminated materials shall be allowed on the open burning facility at any one time.
- (b) Not more than one hundred (100) pounds of explosives; or two hundred (200) pounds of detonating cord waste; or two hundred (200) pounds of emulsion-plastic bag waste shall be open burned on any single burn pan at a time.
- (c) Open burning of waste explosives must occur only in the burn pans located at the existing designated open burning area.

C.3 <u>Permitted and Prohibited Waste Identification</u> ORC 3734.02(F)(3)

(a) The Permittee may conduct treatment via open burning of the following wastes, subject to the terms and conditions of this permit and as described below:

Unit Description	Description of Hazardous Waste	Hazardous Waste No.	Annual Quantity
Open Burn Area	Off-spec/out-of-date explosives, detonation cord, contaminated packaging and materials.	D003	62 Tons (124,000 lbs.)
Open Burn Area	Waste water treatment sludge from manufacturing and processing of explosives.	K044	4 Tons (8,000 lbs.)
Open Burn Area	Spent carbon from treatment of waste water containing explosives.	K045	5 Tons (10,000 lbs.)

- (b) The Permittee must not, for the total amount of hazardous waste treated, exceed the maximum annual quantity established under this condition.
- (c) The Permittee is prohibited from treating hazardous waste and other wastes that are not identified in Permit Conditions C.2. or A.1.(c) of the permit.

C.4 <u>Design, Construction, and Operating Requirements</u> OAC Rule 3745-57-91

(a) Hazardous Waste Treatment Area - Open Burn Area and Burn Pad

The Permittee must operate and maintain the open burning pad in accordance with the operating procedures contained in Section F, General Hazard Prevention, and Section F, Prevention of Unintended Ignition or Reaction of Waste, of the permit application and the following permit terms and conditions:

- (i) The Permittee must open burn D003 hazardous waste and the empty packaging as outlined in Condition A.1.(c) separately from K044 and K045 hazardous waste.
- (ii) Open burning must not occur during rain events and/or periods of wind speed greater than 15 mph. A log recording the meteorological conditions, including wind direction, shall be maintained as part of the facility's operating record for each treatment event at the facility.
- (iii) The Permittee shall utilize the type of open burning unit as described in Section D of the permit application.

- (iv) Ash and/or residues from the open burning pad shall be collected immediately and managed in accordance with the permit application.
- (v) Ash and/or residues from separately treated D003 (reactive), K044, and K045 (listed) wastes may be mixed together prior to sampling, analysis, and disposal.
- (vi) The Permittee shall operate and maintain run on and run off control systems in accordance with the operating practices contained in Section F of the permit application.

C.5 Management and Accumulation Requirements

- (a) The Permittee must manage energetic waste in accordance with the Preparedness and Prevention, Contingency Plan, General Hazard Prevention, Prevention of Unintended Ignition or Reaction of Waste and Traffic Pattern, Volume and Control Sections [Sections (F), (G), and (H)] of the permit application.
- (b) The Permittee must accumulate energetic wastes in accordance with the General Hazard Prevention Section (Section H) of the permit application.

C.6 <u>Inspection Schedules and Procedures</u> OAC Rule 3745-50-44(A)(9)

The Permittee must inspect the open burning unit in accordance with the inspection schedule contained in Section F of the permit application.

C.7 <u>Prevention of Unintended Ignition or Reaction of Wastes</u>

The Permittee must follow the procedures contained in Section F, Prevention of Unintended Ignition or Reaction of Waste Section, of the permit application.

C.8 <u>Closure</u> OAC Rule 3745-57-93

- (a) At final closure of the open burning unit, the Permittee must follow the procedures in the approved closure plan, in Section I of the permit application.
- (b) If, after closure, the Permittee finds that not all contaminated soils and debris can be removed or decontaminated in accordance with the closure plan, then

the Permittee must close the open burning unit and perform post-closure care in accordance with OAC Rule 3745-57-93.

C.9 Recordkeeping OAC Rule 3745-54-73

- (a) The Permittee must comply with all recordkeeping requirements of OAC Rule 3745-54-73 as part of the facility operating record.
- (b) The Permittee must develop and maintain all records required to comply with OAC Rule 3745-57-92 and all other terms and conditions of this permit.

MODULE D - RESERVED

MODULE E - CORRECTIVE ACTION REQUIREMENTS

Corrective Action Summary

At U.S. EPA's request, Austin Powder Company's Red Diamond Plant completed a RCRA Facility Assessment (RFA) in 1991. The RFA was followed by a RCRA Facility Investigation (RFI), which identified 24 Solid Waste Management Units (SWMUs). U.S. EPA requested corrective action at 6 of those SWMUs, which are shown in the table in Condition E.3 below. Ohio EPA retained oversight of corrective actions for these 6 SWMUs upon renewal of the facility's hazardous waste permit in December 2001.

Note: The initial 24 SWMUs are listed and described in the <u>Final Preliminary Review/Visual Inspection Report</u>, for the RCRA Facility Assessment of the <u>Austin Powder Co. Red Diamond Plant in McArthur</u>, Ohio, dated November 1990.

To address these SWMUs, Austin Powder developed a Corrective Measures Study work plan in April 2003. The work plan was revised and approved with modifications by Ohio EPA in March 2004. As part of the Corrective Measures Study process, a Human Health and Ecological Risk Assessment was submitted to Ohio EPA in March 2005. Based on information in this report, Ohio EPA requested the Permittee to submit an Interim Measures work plan. The plan was submitted by the Permittee in September 2005 and approved by Ohio EPA in November 2005.

The Interim Measures work plan called for removal of soil in a drainage ditch at SWMU 17 (Booster Line) as well as excavation of sediments from a pooled location in the creek at the base of the SWMU 6 (Landfill). In addition, soil samples were collected at SWMUs 9, 10, 11, and 12 (PETN Dryer Houses and Storage House) to determine the presence and extent of PETN explosive residue.

Evaluation of soil sampling data from SWMUs 9, 10, 11, and 12 determined that the pre-identified risk goals were met, and corrective action was determined complete for these SWMUs. In March 2006, approximately 2 cubic yards of sediment were removed from the creek at the base of the SWMU 6 (Landfill) and disposed as solid waste. Confirmatory samples indicated that levels of metals were below Ohio's sediment criteria, and corrective action was determined complete in this area. Soils containing the explosive RDX were excavated in the SWMU 17 (Booster Line) area. Confirmatory samples indicated that identified risk goals were met at this SWMU and corrective action was determined complete in this area.

In December 2006, Ohio EPA determined that the above-described remedies performed by the facility constituted completion of Corrective Measures and that no further action was needed. Currently there are no corrective actions at the facility.

E.1 Corrective Action at the Facility OAC Rules 3745-50-10 and 3745-54-101

In accordance with OAC Rule 3745-50-10, "waste management unit" means any discernible unit at which solid waste, hazardous waste, infectious waste (as those terms are defined in ORC Chapter 3734), construction and demolition debris (as defined in ORC Chapter 3714), industrial waste, or other waste (as those terms are defined in ORC Chapter 6111), has been placed at any time, irrespective of whether the unit was intended for the management of waste or hazardous waste. Such units include any area at a facility at which wastes have been routinely and systematically released. For the purpose of Corrective Action, facility is defined as all contiguous property under the control of the owner or operator seeking a permit under Subtitle C of RCRA. The terms Interim Measure (IM), RCRA Facility Investigation (RFI), Corrective Measures Study (CMS), and Corrective Measure Implementation (CMI) are defined in U.S. EPA's Corrective Action Plan (CAP) (OSWER Directive 9902.3-2A, May 1994).

The Permittee must institute Corrective Action as necessary to protect human health and the environment for all releases of hazardous wastes or hazardous constituents from any waste management units (WMUs) at the Facility, regardless of the time at which waste was placed in such units.

E.2 <u>Corrective Action Beyond the Facility Boundary</u> OAC Rule 3745-54-101

The Permittee must implement Corrective Action beyond the Facility property boundary, where necessary to protect human health and the environment, unless the Permittee demonstrates to the satisfaction of Ohio EPA that, despite the Permittee's best efforts, the Permittee was unable to obtain the necessary permission to undertake such actions. The Permittee is not relieved of all responsibility to clean up a release that has migrated beyond the Facility boundary where off-site access is denied. On-site measures to address such releases will be addressed under the RFI, CMS, and CMI phases, as determined to be necessary on a case-by-case basis.

E.3 Identification of WMUs

OAC Rules 3745-50-44(D) and 3745-54-101

SWMU#	Description				
6	Landfill. Located on the northern portion of the property. Approximately 3 acres in size.				
9, 10, 11, 12	PETN Dryer Houses and Storage House. Includes the catchboxes associated with the PETN Dryer Houses 1, 2, and 3. SWMU 12 includes the S-5 PETN Storage Building catchbox.				
17	Booster Line. Includes the catchbox associated with the Booster Line, and the drainage pathway from the Booster Line Building area.				

E.4 No Corrective Action Required at this Time OAC Rule 3745-54-101

On September 22, 2006, Ohio EPA issued a draft modified permit to Austin Powder Company's Red Diamond Plant to implement a site-wide Corrective Action Program. Based upon review of the facility's Corrective Measures Study Final Report (equivalent to a Corrective Measures Completion of Work (CMCW) Report), Ohio EPA determined that the facility's completed corrective measures met appropriate cleanup objectives and standards. Per Condition E.7(a), Ohio EPA issued a modified permit on December 5, 2006, indicating that the remedies already performed constituted completion of Corrective Measures at the facility and that no further action needed to be taken. No Corrective Action investigation or implementation is required at this time.

E.5 RCRA Facility Investigation (RFI) OAC Rule 3745-54-101

In the event of a newly discovered unit, the Permittee must conduct an RFI to thoroughly evaluate the nature and extent of the release of hazardous wastes and hazardous constituents from all applicable WMUs identified in Permit Condition E.10. The major tasks and required submittal dates are shown below. The scope of work for each of the tasks is found in U.S. EPA's CAP.

(a) RFI Workplan

The Permittee must submit a written RFI Workplan to Ohio EPA within ninety (90) days after the discovery of a new waste management unit, or upon a time frame established by Ohio EPA.

- (i) Within sixty (60) days of receipt of any Ohio EPA comments on the RFI Workplan, the Permittee must submit either an amended or new RFI Workplan that addresses Ohio EPA's comments.
- (ii) Ohio EPA will approve or modify and approve, in writing, the amended or new RFI Workplan. The RFI Workplan, as approved or as modified and approved, shall be incorporated into this permit and become an enforceable condition of this permit. Subsequent changes to the approved RFI Workplan must be authorized by Ohio EPA.

(b) RFI Implementation

The Permittee must implement the RFI Workplan according to the terms and schedule in the approved RFI Workplan.

(c) RFI Final Report

Within sixty (60) days after the completion of the RFI, the Permittee must submit an RFI Final Report to Ohio EPA. The RFI Final Report must describe the procedures, methods, and results of the RFI. The Final Report must contain adequate information to support further decisions concerning Corrective Action at the Facility.

- (i) Within sixty (60) days of receipt of any Ohio EPA comments on the RFI Final Report, the Permittee must submit either an amended or new RFI Final Report that addresses Ohio EPA's comments.
- (ii) Ohio EPA will approve or modify and approve, in writing, the amended or new RFI Final Report. The RFI Final Report, as approved or as modified and approved, shall be incorporated into this permit and become an enforceable condition of this permit. Subsequent changes to the approved RFI Final Report must be authorized by Ohio EPA.

E.6 <u>Interim Measure (IM)</u>

Based on the RFI Final Report or other information documenting a release of hazardous waste or constituents to the environment, Ohio EPA may require (or the Permittee may propose) the development and implementation of an IM, including submission of an IM Workplan, at any time during the life of the permit to mitigate or eliminate a threat to human health or the environment. The Permittee must implement the IM upon a time frame established by Ohio EPA.

E.7 <u>Determination of No Further Action</u>

(a) Permit Modification

Based on the results of the completed RFI and other relevant information, the Permittee may submit an application to Ohio EPA for a permit modification under OAC Rule 3745-50-51 to terminate the Corrective Action tasks of the Schedule of Compliance. Other tasks identified in the Schedule of Compliance shall remain in effect. This permit modification application must conclusively demonstrate that there are no releases of hazardous waste or constituents from WMUs at the Facility that pose an unacceptable risk to human health and the environment.

If, based upon review of the Permittee's request for a permit modification, the results of the completed RFI, and other information, Ohio EPA determines that releases or suspected releases which were investigated either are nonexistent or do not pose an unacceptable risk to human health and the environment, Ohio EPA will approve the requested modification. Decisions regarding the completion of RCRA Corrective Action and no further action may be made for the entire Facility, for a portion of the Facility, or for a specific unit or release.

(b) Periodic Monitoring

A determination of no further action shall not preclude Ohio EPA from requiring continued or periodic monitoring of air, soil, ground water, or surface water, if necessary to protect human health and the environment, when site-specific circumstances indicate that a potential or an actual release of hazardous waste or constituents exists.

(c) <u>Further Investigations</u>

A determination of no further action shall not preclude Ohio EPA from requiring further investigations, studies, or remediation at a later date if new information or subsequent analysis indicates that a release or potential release from a WMU at the Facility may pose an unacceptable risk to human health or the environment. In such a case, Ohio EPA shall initiate a modification to the terms of the permit to rescind the determination made in accordance with Permit Condition E.7(a). Additionally, in the event Ohio EPA determines that there is insufficient information on which to base a determination, the Permittee, upon notification, is required to develop a Work

Plan and upon Ohio EPA approval of that Work Plan, perform additional investigations as needed.

E.8 Corrective Measures Study (CMS)

If Ohio EPA determines, based on the results of the RFI and any other relevant information, that corrective measures are necessary, Ohio EPA will notify the Permittee in writing that the Permittee must conduct a CMS either as described below or as described in Ohio EPA's notification to the Permittee. The purpose of the CMS will be to develop and evaluate the corrective action alternative(s) and to outline one or more alternative corrective measure(s) that will satisfy the performance objectives specified in Permit Condition E.9.

(a) CMS Workplan

The Permittee must submit a written CMS Workplan to Ohio EPA within ninety (90) days from the notification by Ohio EPA of the requirement to conduct a CMS.

- (i) Within forty-five (45) days of receipt of any Ohio EPA comments, the Permittee must submit either an amended or new CMS Workplan that addresses Ohio EPA's comments.
- (ii) Ohio EPA will approve or modify and approve, in writing, the amended or new CMS Workplan. The CMS Workplan, as approved or as modified and approved, must be incorporated into this permit and become an enforceable condition of this permit. Subsequent changes to the approved CMS Workplan must be authorized by Ohio EPA.

(b) CMS Workplan Implementation

The Permittee must implement the CMS Workplan according to the terms and schedule in the approved CMS Workplan.

(c) CMS Final Report

Within sixty (60) days after the completion of the CMS, the Permittee must submit a CMS Final Report to Ohio EPA. The CMS Final Report must summarize the results of the investigations for each remedy studied and must include an evaluation of each remedial alternative.

- (i) Within forty-five (45) days of receipt of any Ohio EPA comments, the Permittee must submit either an amended or new CMS Final Report that addresses Ohio EPA's comments.
- (ii) Ohio EPA will approve or modify and approve, in writing, the amended or new CMS Final Report. The CMS Final Report, as approved or as modified and approved, must be incorporated into this permit and become an enforceable condition of this permit. Subsequent changes to the approved CMS Final Report must be authorized by Ohio EPA.

E.9 Corrective Measures Implementation (CMI)

Based on the results of the CMS, the Permittee must implement one or more of the Corrective Measures authorized by Ohio EPA. Ohio EPA will authorize one or more of the Corrective Measures in the CMS, and will notify the Permittee in writing of the decision. The Corrective Measure selected for implementation must: (1) be protective of human health and the environment; (2) attain media cleanup standards; (3) control the source(s) of releases so as to reduce or eliminate further releases of hazardous waste(s) (including hazardous constituent[s]); and (4) comply with all applicable standards for management of wastes.

If two or more of the Corrective Measures studied meet the threshold criteria set out above, Ohio EPA will authorize the Corrective Measures Implementation by considering remedy selection factors including: (1) long-term reliability and effectiveness; (2) the degree to which the Corrective Measure will reduce the toxicity, mobility, or volume of contamination; (3) the Corrective Measure's short-term effectiveness; (4) the Corrective Measure's implementability; and (5) the relative cost associated with the alternative.

(a) Permit Modification

Ohio EPA will initiate a permit modification, as provided by OAC Rule 3745-50-51, to require implementation of the corrective measure(s) authorized.

The Permittee must not implement the corrective measure until the permit is modified pursuant to OAC Rule 3745-50-51.

(b) <u>Financial Assurance</u> OAC Rule 3745-54-101

Within forty-five (45) days after receiving approval of the CMI, the Permittee must provide financial assurance in the amount necessary to implement the corrective measure(s), as required by OAC Rule 3745-54-101 (B) and (C).

E.10 Newly Identified WMUs or Releases OAC Rule 3745-54-101

(a) General Information

The Permittee must submit to Ohio EPA, within 30 days of discovery, the following information regarding any new WMU identified at the Facility by Ohio EPA or the Permittee:

- (i) The location of the unit on the site topographic map;
- (ii) Designation of the type of unit;
- (iii) General dimensions and structural description (supply any available drawings);
- (iv) When the unit was operated; and
- (v) Specification of all waste(s) that have been managed at the unit.

(b) Release Information

The Permittee must submit to Ohio EPA, within 30 days of discovery, all available information pertaining to any release of hazardous wastes or hazardous constituents from any new or existing WMU.

E.11 <u>Corrective Action for Newly Identified WMUs and Releases</u> OAC Rule 3745-54-101

If Ohio EPA determines that an RFI is required for newly identified WMUs, the Permittee must submit a written RFI Workplan to Ohio EPA upon a time frame established in written notification by Ohio EPA in accordance with Permit Condition E.5. This determination will be made based on the information submitted in accordance with Permit Condition E.10.

Further investigations or corrective measures will be established by Ohio EPA. The Permittee must make such submittal in accordance with time frames established by Ohio EPA.

E.12 Completion of Corrective Action OAC Rule 3745-54-101

After completing Corrective Action as necessary to protect human health and the environment for all releases of hazardous wastes or hazardous constituents from any WMUs at the Facility, the Permittee shall submit a Corrective Measures Completion of Work (CMCW) Report. The CMCW Report shall document that Corrective Action construction is complete, cleanup objectives and standards have been met, and any releases of hazardous waste or constituents no longer pose an unacceptable risk to human health and the environment. The CMCW Report may be submitted for any part of the Facility for which corrective measures are complete, or for the entire Facility. The CMCW Report must be submitted as a request for permit modification pursuant to OAC Rule 3745-50-51.

E.13 <u>Documents Requiring Professional Engineer Stamp</u> ORC Section 4733.01

Preparation of the following Corrective Action documents constitutes the "practice of engineering" as defined by ORC Section 4733.01:

- Final Interim Measures Report
- Corrective Measures Final Design
- Corrective Measures Construction Completion Report
- Corrective Measures Attainment of Groundwater Performance Standards Report
- Corrective Measures Completion of Work Report

As such, the Permittee must ensure that these documents, as submitted to Ohio EPA, are stamped by a Professional Engineer licensed to practice in the State of Ohio.

MODULE F - ADDITIONAL CONDITIONS

F. Additional Conditions

F.1 Scientific Literature Search

With each permit renewal application, the Permittee shall submit a detailed search of the scientific literature for the following topic: *Treatment or Disposal Technologies for Explosives and Explosive Wastes*.

Based upon this search of the scientific literature, the Permittee shall also submit with each permit renewal application a detailed discussion on the feasibility of implementing new treatment or disposal technologies for its explosive waste streams.

END OF PERMIT CONDITIONS

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