



State of Utah

Department of
Environmental Quality

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DIVISION OF AIR QUALITY
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Site ID: 10009

Title V Operating Permit

PERMIT NUMBER: 300003001

DATE OF PERMIT: April 27, 2004

Date of Last Revision: April 26, 2006

This Operating Permit is issued to, and applies to the following:

Name of Permittee:

ATK Thiokol Propulsion
PO Box 707
Brigham City, UT 84302-0707

Permitted Location:

Promontory Plant
9160 N Hwy 83
Promontory, UT 84302-0689

UTM coordinates: 4,611,415 meters Northing, 380,864 meters Easting
SIC code: 3761

ABSTRACT

The ATK Thiokol Propulsion site is located at Promontory Point in Box Elder County. Activities at this site involve the manufacture and testing of: solid rocket motor propulsion systems, explosives, flare illuminants, and composite materials. Reclamation activities are also conducted for the reuse of excessed rocket motor components and propellant. The following federal regulations are applicable requirements for this source: 40 CFR 60 Subpart Dc, 40 CFR 61 Subpart M, and 40 CFR 63 Subpart GG. ATK Thiokol Propulsion is a major source of hazardous air pollutants (HAPs), volatile organic compounds (VOC), particulate matter less than 10-microns in diameter (PM₁₀), sulfur dioxide (SO₂), oxides of nitrogen (NO_x), and carbon monoxide (CO).

UTAH AIR QUALITY BOARD

By:

Richard W. Sprott, Executive Secretary

Prepared By:

Robert Grandy

Operating Permit History

4/27/2004 - Permit issued	Action initiated by an initial operating permit application	
2/22/2005 -Permit modified	Action initiated by an administrative amendment (initiated by source)	To revise equipment list to include Abrasive Blast Cabinet E-517-DC04, and Buff Room Dust Collector E-517-DC05.
10/6/2005 -Permit modified	Action initiated by an administrative amendment (initiated by source)	The following changes are being made: Addition of automated paint booth M-052-PB03, located in building M-052. Addition of 10% opacity limit and monitoring for Group 7- All Paint Booths (designated as PB-ALL) Add conditions for open burning at areas M-136, M-225, and SRM testing. To revise equipment list to remove Abrasive Blast Cabinet E-517-DC04, and Buff Room Dust Collector E-517-DC05.
4/26/2006 -Permit modified	Action initiated by an administrative amendment (initiated by source)	<ul style="list-style-type: none"> -AO consolidation of Groups 1-10; -Update abrasive blasting rule; -Deletion of Group 2 Dust Collector, Carpenter's Shop, Building M 392; -Deletion of eight Group 3 cyclones (DC01-DC08) in building M 040; -Group 3 Wet Collector/Separator Vacuums were numbered as: M-125-WC, M-126-WC, T-031-WC. They have been renumbered as follows: M-125-WC, M-126-WC 1 thru 3, T-021-WC; -Deletion of Group 7 Gerber knife dust collector located in building M010; -Deletion of two Group 9 Portable Grit Blasters located in building M067; -Addition of Group 10 Bake Off oven located in Building M-053

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Issued under authority of Utah Code Ann. Section 19-2-104 and 19-2-109.1, and in accordance with Utah Administrative Code R307-415 Operating Permit Requirements.

All definitions, terms and abbreviations used in this permit conform to those used in Utah Administrative Code R307-101 and R307-415 (Rules), and 40 Code of Federal Regulations (CFR), except as otherwise defined in this permit. Unless noted otherwise, references cited in the permit conditions refer to the Rules.

Where a permit condition in Section I, General Provisions, partially recites or summarizes an applicable rule, the full text of the applicable portion of the rule shall govern interpretations of the requirements of the rule. In the case of a conflict between the Rules and the permit terms and conditions of Section II, Special Provisions, the permit terms and conditions of Section II shall govern except as noted in Provision I.M, Permit Shield.

Section I: General Provisions

I.A. Federal Enforcement.

All terms and conditions in this permit, including those provisions designed to limit the potential to emit, are enforceable by the EPA and citizens under the Clean Air Act of 1990 (CAA) except those terms and conditions that are specifically designated as "State Requirements". (R307-415-6b)

I.B. Permitted Activity(ies).

Except as provided in R307-415-7b(1), the permittee may not operate except in compliance with this permit. (See also Provision I.E, Application Shield)

I.C. Duty to Comply.

I.C.1 The permittee must comply with all conditions of the operating permit. Any permit noncompliance constitutes a violation of the Air Conservation Act and is grounds for any of the following: enforcement action; permit termination; revocation and reissuance; modification; or denial of a permit renewal application. (R307-415-6a(6)(a))

I.C.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (R307-415-6a(6)(b))

I.C.3 The permittee shall furnish to the Executive Secretary, within a reasonable time, any information that the Executive Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Executive Secretary copies of records required to be kept by this permit or, for information claimed to be confidential, the permittee may furnish such records directly to the EPA along with a claim of confidentiality. (R307-415-6a(6)(e))

I.C.4 This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance shall not stay any permit condition, except as provided under R307-415-7f(1) for minor permit modifications. (R307-415-6a(6)(c))

I.D. **Permit Expiration and Renewal.**

I.D.1 **This permit is issued for a fixed term of five years and expires on April 27, 2009.** (R307-415-6a(2))

I.D.2 Application for renewal of this permit is due by October 27, 2008. An application may be submitted early for any reason. (R307-415-5a(1)(c))

I.D.3 An application for renewal submitted after the due date listed in I.D.2 above shall be accepted for processing, but shall not be considered a timely application and shall not relieve the permittee of any enforcement actions resulting from submitting a late application. (R307-415-5a(5))

I.D.4 Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application is submitted consistent with R307-415-7b (see also Provision I.E, Application Shield) and R307-415-5a(1)(c) (see also Provision I.D.2). (R307-415-7c(2))

I.E. **Application Shield.**

If the permittee submits a timely and complete application for renewal, the permittee's failure to have an operating permit will not be a violation of R307-415, until the Executive Secretary takes final action on the permit renewal application. In such case, the terms and conditions of this permit shall remain in force until permit renewal or denial. This protection shall cease to apply if, subsequent to the completeness determination required pursuant to R307-415-7a(3), and as required by R307-415-5a(2), the applicant fails to submit by the deadline specified in writing by the Executive Secretary any additional information identified as being needed to process the application. (R307-415-7b(2))

I.F. **Severability.**

In the event of a challenge to any portion of this permit, or if any portion of this permit is held invalid, the remaining permit conditions remain valid and in force. (R307-415-6a(5))

I.G. **Permit Fee.**

I.G.1 The permittee shall pay an annual emission fee to the Executive Secretary consistent with R307-415-9. (R307-415-6a(7))

I.G.2 The emission fee shall be due on October 1 of each calendar year or 45 days after the source receives notice of the amount of the fee, whichever is later. (R307-415-9(4)(a))

I.H. **No Property Rights.**

This permit does not convey any property rights of any sort, or any exclusive privilege. (R307-415-6a(6)(d))

I.I. **Revision Exception.**

No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (R307-415-6a(8))

I.J. Inspection and Entry.

I.J.1 Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Executive Secretary or an authorized representative to perform any of the following:

I.J.1.a Enter upon the permittee's premises where the source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit. (R307-415-6c(2)(a))

I.J.1.b Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit. (R307-415-6c(2)(b))

I.J.1.c Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practice, or operation regulated or required under this permit. (R307-415-6c(2)(c))

I.J.1.d Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with this permit or applicable requirements. (R307-415-6c(2)(d))

I.J.2 Any claims of confidentiality made on the information obtained during an inspection shall be made pursuant to Utah Code Ann. Section 19-1-306. (R307-415-6c(2)(e))

I.K. Certification.

Any application form, report, or compliance certification submitted pursuant to this permit shall contain certification as to its truth, accuracy, and completeness, by a responsible official as defined in R307-415-3. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. (R307-415-5d)

I.L. Compliance Certification.

I.L.1 Permittee shall submit to the Executive Secretary an annual compliance certification, certifying compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. This certification shall be submitted no later than **March 1, 2005** and that date each year following until this permit expires. The certification shall include all the following (permittee may cross-reference this permit or previous reports): (R307-415-6c(5))

I.L.1.a The identification of each term or condition of this permit that is the basis of the certification;

I.L.1.b The identification of the methods or other means used by the permittee for determining the compliance status with each term and condition during the certification period. Such methods and other means shall include, at a minimum, the monitoring and related recordkeeping and reporting requirements in this permit. If necessary, the permittee also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information;

I.L.1.c The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in Provision I.L.1.b. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred; and

I.L.1.d Such other facts as the Executive Secretary may require to determine the compliance status.

I.L.2 The permittee shall also submit all compliance certifications to the EPA, Region VIII, at the following address or to such other address as may be required by the Executive Secretary: (R307-415-6c(5)(d))

Office of Enforcement, Compliance and Environmental Justice
(mail code 8ENF)
EPA, Region VIII
999 18th Street, Suite 300
Denver, CO 80202-2466

I.M. Permit Shield.

I.M.1 Compliance with the provisions of this permit shall be deemed compliance with any applicable requirements as of the date of this permit, provided that:

I.M.1.a Such applicable requirements are included and are specifically identified in this permit, or (R307-415-6f(1)(a))

I.M.1.b Those requirements not applicable to the source are specifically identified and listed in this permit. (R307-415-6f(1)(b))

I.M.2 Nothing in this permit shall alter or affect any of the following:

I.M.2.a The emergency provisions of Utah Code Ann. Section 19-1-202 and Section 19-2-112, and the provisions of the CAA Section 303. (R307-415-6f(3)(a))

I.M.2.b The liability of the owner or operator of the source for any violation of applicable requirements under Utah Code Ann. Section 19-2-107(2)(g) and Section 19-2-110 prior to or at the time of issuance of this permit. (R307-415-6f(3)(b))

I.M.2.c The applicable requirements of the Acid Rain Program, consistent with the CAA Section 408(a). (R307-415-6f(3)(c))

I.M.2.d The ability of the Executive Secretary to obtain information from the source under Utah Code Ann. Section 19-2-120, and the ability of the EPA to obtain information from the source under the CAA Section 114. (R307-415-6f(3)(d))

I.N. Emergency Provision.

I.N.1 An “emergency” is any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error. (R307-415-6g(1))

I.N.2 An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the affirmative defense is demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

I.N.2.a An emergency occurred and the permittee can identify the causes of the emergency. (R307-415-6g(3)(a))

I.N.2.b The permitted facility was at the time being properly operated. (R307-415-6g(3)(b))

I.N.2.c During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in this permit. (R307-415-6g(3)(c))

I.N.2.d The permittee submitted notice of the emergency to the Executive Secretary within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. This notice fulfills the requirement of Provision I.S.2.c below. (R307-415-6g(3)(d))

I.N.3 In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. (R307-415-6g(4))

I.N.4 This emergency provision is in addition to any emergency or upset provision contained in any other section of this permit. (R307-415-6g(5))

I.O. Operational Flexibility.

Operational flexibility is governed by R307-415-7d(1).

I.P. Off-permit Changes.

Off-permit changes are governed by R307-415-7d(2).

I.Q. Administrative Permit Amendments.

Administrative permit amendments are governed by R307-415-7e.

I.R. Permit Modifications.

Permit modifications are governed by R307-415-7f.

I.S. **Records and Reporting.**

I.S.1 Records.

I.S.1.a The records of all required monitoring data and support information shall be retained by the permittee for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-charts or appropriate recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. (R307-415-6a(3)(b)(ii))

I.S.1.b For all monitoring requirements described in Section II, Special Provisions, the source shall record the following information, where applicable: (R307-415-6a(3)(b)(i))

I.S.1.b.1 The date, place as defined in this permit, and time of sampling or measurement.

I.S.1.b.2 The date analyses were performed.

I.S.1.b.3 The company or entity that performed the analyses.

I.S.1.b.4 The analytical techniques or methods used.

I.S.1.b.5 The results of such analyses.

I.S.1.b.6 The operating conditions as existing at the time of sampling or measurement.

I.S.1.c Additional record keeping requirements, if any, are described in Section II, Special Provisions.

I.S.2 Reports.

I.S.2.a Monitoring reports shall be submitted to the Executive Secretary every six months, or more frequently if specified in Section II. All instances of deviation from permit requirements shall be clearly identified in the reports. (R307-415-6a(3)(c)(i))

I.S.2.b All reports submitted pursuant to Provision I.S.2.a shall be certified by a responsible official in accordance with Provision I.K of this permit. (R307-415-6a(3)(c)(i))

I.S.2.c The Executive Secretary shall be notified promptly of any deviations from permit requirements including those attributable to upset conditions as defined in this permit, the probable cause of such deviations, and any corrective actions or preventative measures taken. **Prompt, as used in this condition, shall be defined as written notification within 14 days.** Deviations from permit requirements due to unavoidable breakdowns shall be reported in accordance with the provisions of R307-107. (R307-415-6a(3)(c)(ii))

I.S.3 Notification Addresses.

I.S.3.a All reports, notifications, or other submissions required by this permit to be submitted to the Executive Secretary are to be sent to the following address or to such other address as may be required by the Executive Secretary:

Utah Division of Air Quality
P.O. Box 144820
Salt Lake City, UT 84114-4820
Phone: 801-536-4000

I.S.3.b All reports, notifications or other submissions required by this permit to be submitted to the EPA should be sent to one of the following addresses or to such other address as may be required by the Executive Secretary:

For annual compliance certifications

Environmental Protection Agency, Region VIII
Office of Enforcement, Compliance and
Environmental Justice (mail code 8ENF)
999 18th Street, Suite 300
Denver, CO 80202-2466

For reports, notifications, or other correspondence
related to permit modifications, applications, etc.

Environmental Protection Agency, Region VIII
Office of Partnerships & Regulatory Assistance
Air & Radiation Program (mail code 8P-AR)
999 18th Street, Suite 300
Denver, CO 80202-2466
Phone: 303-312-6440

I.T. Reopening for Cause.

I.T.1 A permit shall be reopened and revised under any of the following circumstances:

I.T.1.a New applicable requirements become applicable to the permittee and there is a remaining permit term of three or more years. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the terms and conditions of this permit have been extended pursuant to R307-415-7c(3), application shield. (R307-415-7g(1)(a))

I.T.1.b The Executive Secretary or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit. (R307-415-7g(1)(c))

I.T.1.c EPA or the Executive Secretary determines that this permit must be revised or revoked to assure compliance with applicable requirements. (R307-415-7g(1)(d))

I.T.1.d Additional applicable requirements are to become effective before the renewal date of this permit and are in conflict with existing permit conditions. (R307-415-7g(1)(e))

I.T.2 Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. (R307-415-7g(2))

I.U. Inventory Requirements.

Emission inventories shall be submitted in accordance with the procedures of R307-150, Emission Inventories. (R307-150)

Section II: SPECIAL PROVISIONS

- II.A. **Emission Unit(s) Permitted to Discharge Air Contaminants.**
(R307-415-4(3)(a) and R307-415-4(4))
- II.A.1 **Groups 1-10** (designated as GP 1-10)
Unit Description: Includes equipment in Groups 1-10 listed below.
- II.A.2 **Group 1 Paint Booths** (designated as All)
Unit Description: Paint booths located in buildings E-512, E-516, E-517-C, E-529, and M-508.
- II.A.3 **Group 1 Wet Scrubber** (designated as E-517-WS01)
Unit Description: Wet scrubber located in building E-517. No unit-specific applicable requirements.
- II.A.4 **Group 2 Dust Collector with HEPA Filter** (designated as M-702-DC01)
Unit Description: Baghouse dust collector with HEPA filter. Located in building M-702.
- II.A.5 **Group 1 & 2 Dust Collectors/Cyclones** (designated as All except M-702-DC01, E-517-DC05, & M-392-DC01)
Unit Description: Includes all dust collectors and cyclones in Groups 1 & 2 except for Group 2 Dust Collectors M-702-DC01 (HEPA filter), E-517-DC05, and M-392-DC01. All other dust collectors are identified below.
- II.A.6 **Group 1 Dust Collector** (designated as E-512-DC01)
Unit Description: Dust collector for the shim room grit blaster located in building E-512.
- II.A.7 **Group 1 Dust Collector** (designated as E-512-DC02)
Unit Description: VTL Dust collector located in building E-512.
- II.A.8 **Group 1 Dust Collector** (designated as E-512-DC03)
Unit Description: Soda blast dust collector located in building E-512.
- II.A.9 **Group 1 Dust Collector** (designated as E-517-DC01)
Unit Description: Dust collector located in building E-517.
- II.A.10 **Group 1 Dust Collector/Cyclone** (designated as E-517-DC02)
Unit Description: Cyclone and baghouse dust collector located in building E-517.
- II.A.11 **Group 1 Cyclone** (designated as E-517-DC03)
Unit Description: Cyclone located in Building 517.
- II.A.12 **Group 1 Dust Collector** (designated as M-508-DC01)
Unit Description: Dust collector located in building M-508.
- II.A.13 **Group 1 Dust Collector** (designated as M-508-DC02)
Unit Description: Dust collector located in building M-508.
- II.A.14 **Group 1 Dust Collector** (designated as M-508-DC03)
Unit Description: Dust collector located in building M-508.
- II.A.15 **Group 1 Dust Collector** (designated as M-508-DC04)
Unit Description: Grit blast dust collector located in building M-508.
- II.A.16 **Group 1 Dust Collector** (designated as M-508-DC05)
Unit Description: Dust collector located in building M-508.
- II.A.17 **Group 2 Dust Collector** (designated as M-512-DC01)
Unit Description: Aluminum powder dust collection system located in building M-512.
- II.A.18 **Group 2 Dust Collector** (designated as M-606-DC01)

- Unit Description: AP vacuum system dust collector located in building M-606.
- II.A.19 **Group 2 Dust Collector** (designated as M-606-DC02)
Unit Description: AP feed dust collector located in building M-606.
- II.A.20 **Group 2 Dust Collector** (designated as M-606-DC03)
Unit Description: AP feed dust collector located in building M-606.
- II.A.21 **Group 2 Dust Collector** (designated as M-606-DC04)
Unit Description: AP feed dust collector located in building M-606.
- II.A.22 **Group 3 Paint Booth** (designated as T-021B-PB01)
Unit Description: Located in building T-021B.
- II.A.23 **Group 3 Wet Collector/Separator Vacuums** (designated as VAC)
Unit Description: Five wet collector/separator vacuums located in buildings M-125, M-126 and T-021. Wet Collector vacuums are numbered as follows: M-125-WC, M-126-WC 1 thru 3, T-021-WC.
- II.A.24 **Group 3 Baghouse** (designated as Baghouse)
Unit Description: One baghouse in building M-145 numbered DC01.
- II.A.25 **Group 4 Dust Collectors and Cyclones** (designated as ALL)
Unit Description: Includes all dust collectors in Group 4. These dust collectors are identified below.
- II.A.26 **Group 4- Cyclone and Filter Dust Collector** (designated as M-210-DC01)
Unit Description: Located in building M-210
- II.A.27 **Group 4- Baghouse Dust Collector** (designated as M-214-DC01)
Unit Description: Located in Building 214.
- II.A.28 **Group 4- Baghouse Dust Collector/HEPA** (designated as M-218-DC01)
Unit Description: Located in Building M-218. Includes a HEPA filter at the tail end of the baghouse.
- II.A.29 **Group 5- Paint Booth** (designated as M-079-PB01)
Unit Description: Paint booth located in the north end of building M-079.
- II.A.30 **Group 5- HEPA Filters** (designated as M-314-DC01 through DC10)
Unit Description: Ten dust collectors with Sintamatic filters for aluminum (HEPA), located in Building M-314.
- II.A.31 **Group 5 Dust Collectors** (designated as ALL)
Unit Description: Includes all dust collectors in Group 5. These dust collectors are identified below.
- II.A.32 **Group 5- Dust Collector** (designated as M-013-DC01)
Unit Description: Dust collector equipped with a HEPA filter located in building M-013.
- II.A.33 **Group 5- Dust Collector** (designated as M-013-DC02)
Unit Description: 2DH Pulverizer located in building M-013.
- II.A.34 **Group 5- Dust Collector** (designated as M-013-DC03)
Unit Description: FEM ground product collector located in Building M-013.
- II.A.35 **Group 5- Dust Collector** (designated as M-013-DC04)
Unit Description: Dust collector system located in building M-013.
- II.A.36 **Group 5- Dust Collector** (designated as M-013-DC05)
Unit Description: Vacuum conveyance system with a HEPA filter located in building M-013.
- II.A.37 **Group 5- Dust Collector** (designated as M-079-DC01)
Unit Description: Paint sanding dust collector located in building M-079
- II.A.38 **Group 5- Grit Blast Dust Collector** (designated as M-103-DC01)
Unit Description: Grit blast dust collection system located in building M-103.
- II.A.39 **Group 5- Dust Collector** (designated as M-174-DC01)

- II.A.62 **Group 7- Dust Collector** (designated as M-179-DC01)
 Unit Description: Dust collector for grit blaster (south) located in building M-179.
- II.A.63 **Group 7- Dust Collector** (designated as M-179-DC02)
 Unit Description: Dust collector (machining area) located in building M-179.
- II.A.64 **Group 7- Dust Collector** (designated as M-179-DC04)
 Unit Description: Dust collector (soda blast) located in building M-179.
- II.A.65 **Group 7- Dust Collector** (designated as M-179-DC03)
 Unit Description: Dust collector (grit blast pit) located in building M-179.
- II.A.66 **Group 7 HEPA Dust Collectors** (designated as HEPA)
 Unit Description: Includes HEPA dust collectors: M-008A-DC01 and M-008A-DC02. These dust collectors are described below.
- II.A.67 **Group 7- Asbestos Dust Collectors** (designated as M-008A- DC01 & DC02)
 Unit Description: Two HEPA dust collectors DC01 & DC02 located in building M-008A.
- II.A.68 **Group 8 Paint Booth, Building M86** (designated as M86-PB01)
 Unit Description: Paint booth located in building M-86.
- II.A.69 **Group 8 Fume Hood, Building M86** (designated as M86-FH01)
 Unit Description: Fume Hood with HEPA filtering.
- II.A.70 **Group 8 Outside Grit Blasting, Building M81B** (designated as M81B-FU01)
 Unit Description: Fugitive emissions from grit blasting located outside Building M81B.
- II.A.71 **Group 8 Baghouses and Cyclone** (designated as All)
 Unit Description: Two baghouses and a cyclone. The baghouses and cyclone are identified below.
- II.A.72 **Group 8 Baghouse, Building I-005** (designated as I5-DC01)
 Unit Description: Attached to Grit Blaster, located at Building I-005.
- II.A.73 **Group 8 Baghouse, Building M86** (designated as M86-DC01)
 Unit Description: Controls emissions from the grind room.
- II.A.74 **Group 8 Cyclone, Building M86** (designated as M86-DC02)
 Unit Description: Cyclone separator attached to mixer exhaust system.
- II.A.75 **Group 9 Dust Collectors** (designated as M-397-DC01, and M-397-DC02)
 Unit Description: Two dust collectors located on the east and south sides of building M-397.
- II.A.76 **Group 9 Grit Blast Dust Collector** (designated as M-066B-DC01)
 Unit Description: Controls emissions from grit blasting. Located in building M-066B.
- II.A.77 **Group 9 Silicone Room Exhaust Hood** (designated as M-397-PB01)
 Unit Description: Exhaust hood located in room M-397.
- II.A.78 **Group 10 Paint Booth, Building M-043** (designated as M-043-PB01)
 Unit Description: Paint Booth located in building M-043.
- II.A.79 **Group 10 Dust Collectors, Asbestos Floats Rooms** (designated as DC01-DC02)
 Unit Description: Two dust collectors (M-585-DC01 through M-585-DC02) with HEPA filter systems. Located in the Asbestos Floats Rooms, Building M-585.
- II.A.80 **Group 10 Bake Off Oven** (designated as M-053-OV05)
 Unit Description: Bake off oven equipped with afterburner.
- II.A.81 **Group 10 Dust Collector, Building M-043** (designated as M-043-DC01)
 Unit Description: Dust collection system equipped with HEPA Filter.
- II.A.82 **Group 10 Dust Collectors** (designated as ALL)
 Unit Description: Includes dust collectors in Group 10 except for M-043-DC01, M-585-DC01, and M-585-DC02. These dust collectors are identified below.

- II.A.83 **Group 10 Dust Collector, Building M-585** (designated as M-585-DC03)
 Unit Description: Used for Tag End/Prep Test.
- II.A.84 **Group 10 Dust Collector, Building M-053** (designated as M-053-DC01)
 Unit Description: Controls emissions from Building M-053.
- II.A.85 **Group 10 Cyclone/Baghouse, Building M-053** (designated as M-053-DC03)
 Unit Description: Located in furnace room.
- II.A.86 **Group 11 Activities** (designated as G11)
 Unit Description: Includes testing of: propellant, explosives, pyrotechnic materials (PEP), hydrocarbon fuels, rocket components, cases, tanks, and various other activities. Permitted activities cover non-PEP emissions. Buildings include: T-075, T-075A, and T-075B.
- II.A.87 **PEP Testing and Burning** (designated as PEP)
 Unit Description: Testing & burning of propellant, explosives, and pyrotechnic materials. Does not include testing of the Space Shuttle RSRM. Testing & burning is conducted at Lampo Junction (28 miles w. of Brigham City) and at the KOSMO site (20 miles w. of Lampo Jnct).
- II.A.88 **Degreasers** (designated as SCD)
 Unit Description: Parts cleaners located throughout the site.
- II.A.89 **M-705 Waste Water Treatment Facility** (designated as M-705)
 Unit Description: Includes the following process treatment equipment: AP, HMX, Nitroglycerin, Mixed Wastewater, and Isopropanol Distillation.
- II.A.90 **All Natural Gas And Diesel Fired Boilers** (designated as NGB&DB-ALL)
 Unit Description: All natural gas and diesel boilers located on site.
- II.A.91 **Natural Gas Fired Boilers (all NG Boilers onsite)** (designated as NGB-ALL)
 Unit Description: All NG fired boilers located on site, in buildings noted below. All NG boilers use fuel oil for back up.
- II.A.92 **Natural Gas NSPS Boiler, Bldg M-072** (designated as NGB-M-072 NSPS)
 Unit Description: One 40 CFR Part 60, Subpart Dc, NSPS boiler with an approximate rating of 12.55 MM Btu/hr.
- II.A.93 **Natural Gas Fired Pre-NSPS Boilers** (designated as Non-NSPS)
 Unit Description: Pre-NSPS natural gas fired boilers identified below.
- II.A.94 **Natural Gas Boilers, Bldg M-14** (designated as NGB-M-14)
 Unit Description: Two natural gas fired boilers with approximate ratings of 25.11 MM Btu/hr each.
- II.A.95 **Natural Gas Boilers, Bldg M-033** (designated as NGB-M-033)
 Unit Description: Two boilers with approximate ratings of 12.55 MM Btu/hr and 16.74 MM Btu/hr.
- II.A.96 **Natural Gas Boilers, Bldg M-113** (designated as NGB-M-113)
 Unit Description: Two natural gas fired boilers with approximate ratings of 13.60 MM Btu/hr each.
- II.A.97 **Natural Gas Boilers, Bldg M-576** (designated as NGB-M-576)
 Unit Description: Two natural gas fired boilers with approximate ratings of 71.00 MM Btu/hr each.
- II.A.98 **Natural Gas Fired Boilers, Bldg A-009** (designated as NGB-A-009)
 Unit Description: Three natural gas fired boilers with approximate ratings of 8.37 MM Btu/hr each.
- II.A.99 **Natural Gas Fired Boilers, Bldg M-010** (designated as NGB-M-010)
 Unit Description: Four natural gas fired boilers with approximate ratings of 8.37 MM Btu/hr each.

- II.A.100 **Natural Gas Fired Boilers, Bldg M-033** (designated as NGB-M-033)
 Unit Description: Two natural gas fired boilers with approximate ratings of 8.37 MM Btu/hr each.
- II.A.101 **Natural Gas Fired Boilers, Bldg M-072** (designated as NGB-M-072)
 Unit Description: Two natural gas fired boilers with approximate ratings of 8.37 MM Btu/hr each.
- II.A.102 **Natural Gas Fired Boiler, Bldg M-348** (designated as NGB-M-348)
 Unit Description: One natural gas fired boiler with an approximate rating of 6.28 MM Btu/hr.
- II.A.103 **All Diesel Fired Boilers** (designated as DB-ALL)
 Unit Description: All diesel fired boilers located on site, in buildings noted below.
- II.A.104 **Diesel Fired Boilers, Bldg M-205** (designated as DB-M-205)
 Unit Description: Two diesel fired boilers with approximate ratings of 5.23 and 8.37 MM Btu/hr each.
- II.A.105 **Diesel Fired Boilers, Bldg M-338** (designated as DB-M-338)
 Unit Description: One diesel fired boiler with an approximate rating of 3.35 MM Btu/hr.
- II.A.106 **Diesel Fired Boilers, Bldg T-001** (designated as DB-T-001)
 Unit Description: One diesel fired boiler with an approximate rating of 2.09 MM Btu/hr.
- II.A.107 **Diesel Fired Boilers, Bldg T-004A** (designated as DB-T-004A)
 Unit Description: One diesel fired boiler with an approximate rating of 0.84 MM Btu/hr.
- II.A.108 **Diesel Fired Boilers, Bldg T-006A** (designated as DB-T-006A)
 Unit Description: One diesel fired boiler with an approximate rating of 2.09 MM Btu/hr.
- II.A.109 **Diesel Fired Boilers, Bldg T-014E** (designated as DB-T-014E)
 Unit Description: One diesel fired boiler with an approximate rating of 6.15 MM Btu/hr.
- II.A.110 **Diesel Fired Boilers, Bldg T-015A** (designated as DB-T-015A)
 Unit Description: One diesel fired boiler with an approximate rating of 1.67 MM Btu/hr.
- II.A.111 **Diesel Fired Boilers, Bldg T-017A** (designated as DB-T-017A)
 Unit Description: One diesel fired boiler with an approximate rating of 2.09 MM Btu/hr.
- II.A.112 **Diesel Fired Boilers, Bldg T-018A** (designated as DB-T-018A)
 Unit Description: One diesel fired boiler with an approximate rating of 1.67 MM Btu/hr.
- II.A.113 **Diesel Fired Boilers, Bldg T-021A** (designated as DB-T-021A)
 Unit Description: One diesel fired boiler with an approximate rating of 2.51 MM Btu/hr.
- II.A.114 **Diesel Fired Boilers, Bldg T-023** (designated as DB-T-023)
 Unit Description: One diesel fired boiler with an approximate rating of 1.05 MM Btu/hr.
- II.A.115 **Diesel Fired Boilers, Bldg T-024A** (designated as DB-T-024A)
 Unit Description: One diesel fired boiler with an approximate rating of 2.51 MM Btu/hr.
- II.A.116 **Diesel Fired Boilers, Bldg T-051A** (designated as DB-T-051A)
 Unit Description: One diesel fired boiler with an approximate rating of 2.51 MM Btu/hr.

- II.A.117 **Diesel Fired Boilers, Bldg T-097A** (designated as DB-T-097A)
 Unit Description: One diesel fired boiler with an approximate rating of 4.18 MM Btu/hr.
- II.A.118 **Diesel Fired Boilers, Bldg T-111** (designated as DB-T-111)
 Unit Description: Two diesel fired boilers with approximate ratings of 5.23 MM Btu/hr each.
- II.A.119 **Diesel Fired Boilers, Portable** (designated as DB-Port)
 Unit Description: Two portable diesel boilers with approximate ratings of 2.09 and 4.18 MM Btu/hr each.
- II.A.120 **Generators and IC Engines Greater than 50 hp** (designated as Gens and IC Engines-all)
 Unit Description: All generators and IC engines with a rated capacity greater than 50 hp (37 kilowatts).
- II.A.121 **Generators and IC Engines Between 50 and 400 hp** (designated as Gens-other)
 Unit Description: Various diesel and gasoline fired generators and internal combustion engines rated between 50 and 400 hp, located throughout the ATK-Thiokol site.
- II.A.122 **Diesel Generators Greater than 400 hp- Post 1969** (designated as Gens- Post 69)
 Unit Description: Various post 1969 diesel generators. Units are described below.
- II.A.123 **Generator located in building A-001** (designated as Gen-A-001)
 Unit Description: Post 1969 diesel generator rated at 1340 hp (1,000 kW).
- II.A.124 **Generator located in building M-021** (designated as Gen-M-021)
 Unit Description: Post 1969 diesel generator rated at 900 hp (610 kW).
- II.A.125 **Generator located in building M-199** (designated as Gen-M-199)
 Unit Description: Post 1969 diesel generator rated at 900 hp (610 kW).
- II.A.126 **Generator located in building M-315** (designated as Gen-M-315)
 Unit Description: Post 1969 diesel generator rated at 900 hp (610 kW).
- II.A.127 **Generator located in building M-422** (designated as Gen-M-422)
 Unit Description: Post 1969 diesel generator rated at 890 hp (664 kW).
- II.A.128 **Generator located in building M-427** (designated as Gen-M-427)
 Unit Description: Post 1969 diesel generator rated at 1586 hp (1183 kW).
- II.A.129 **Diesel Generators Greater than 400 hp- Pre 1969** (designated as Gens- Pre 69)
 Unit Description: Various pre 1969 diesel generators. Units are described below.
- II.A.130 **Generator located in building M-515** (designated as Gen-M-515)
 Unit Description: Pre 1969 diesel generator rated at 432 hp (322 kW).
- II.A.131 **Generator located in building M-516** (designated as Gen-M-516)
 Unit Description: Pre 1969 diesel generator rated at 432 hp (322 kW).
- II.A.132 **Generator located in building M-639** (designated as Gen-M-639)
 Unit Description: Pre 1969 diesel generator rated at 432 hp (322 kW).
- II.A.133 **Generator located in building M-640** (designated as Gen-M-640)
 Unit Description: Pre 1969 diesel generator rated at 432 hp (322 kW).
- II.A.134 **Generator located in building M-641** (designated as Gen-M-641)
 Unit Description: Pre 1969 diesel generator rated at 432 hp (322 kW).
- II.A.135 **Generator located in building M-642** (designated as Gen-M-642)
 Unit Description: Pre 1969 diesel generator rated at 432 hp (322 kW).
- II.A.136 **Nitrogen Process Reactors** (designated as Bldg-M-590-Explosives-and-Energetics)
 Unit Description: Reactors with the following capacities: 500 gallons, 200 gallons, 50 gallons, and 20 gallons. Located in building M-590. All process exhaust is routed through a counter-current (packed tower) scrubber before being vented to the atmosphere.

- II.A.137 **Portable VACLOADER Vacuum System** (designated as M-136-IE03)
Unit Description: Used to clean up ash after open burning of reactive materials. Air is passed through a HEPA filter before being discharged from Vacuum.
- II.A.138 **Catalyst Ozone destructors** (designated as WW1 & WW2)
Unit Description: Catalyst ozone destructors which are control equipment for the wastewater treatment process. These units destroy excess ozone from the ozone contact tanks. The ozone destructors are located in buildings E-541 and M-422. No unit-specific applicable requirements.
- II.A.139 **Shuttle Motor Testing** (designated as T-24 & T-97 Test Bays)
Unit Description: Testing bays for Redesigned Solid Rocket Motors (RSRMs)
- II.A.140 **Shuttle Motor Test bay T-24** (designated as T-24)
Unit Description: Testing bay for 1.1 x 10**6 lb shuttle motors.
- II.A.141 **Shuttle Motor Test bay T-97** (designated as T-97)
Unit Description: Testing bay for 1.4 x 10**6 lb shuttle motors.
- II.A.142 **Open Burning Activities** (designated as OBOD M-136, M-225, SRM)
Unit Description: Includes: open burning, open detonation (OBOD) activities at areas M-136 and M-225; solid rocket motor (SRM) testing.

II.B. **Requirements and limitations.**

The following emission limitations, standards, and operational limitations apply to the permitted facility as indicated: (R307-415-6a(1))

II.B.1 **Conditions on permitted source (Source-wide)**

II.B.1.a **Condition:**

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected emission unit, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-5 and 40 CFR 60.11(d); condition originated in R307-401-5 and 40 CFR 60.11(d)]

II.B.1.a.1 **Monitoring:**

Records required for this permit condition will serve as monitoring.

II.B.1.a.2 **Recordkeeping:**

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.1.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.1.b

Condition:

Visible emissions from abrasive blasting operations shall not exceed 40% opacity, except for an aggregate period of three minutes in any one hour.. [Authority granted under R307-206; condition originated in R307-206]

II.B.1.b.1

Monitoring:

Visible emission evaluation of abrasive blasting operations shall be conducted at least quarterly in accordance Provision I.S.1 of this permit and the following provisions:

(a) Visible emissions shall be measured using EPA Method 9. Visible emissions from intermittent sources shall use procedures similar to Method 9, but the requirement for observations to be made at 15 second intervals over a six-minute period shall not apply.

(b) Visible emissions from unconfined blasting shall be measured at the densest point of the emission after a major portion of the spent abrasive has fallen out, at a point not less than five feet nor more than twenty-five feet from the impact surface from any single abrasive blasting nozzle.

(c) An unconfined blasting operation that uses multiple nozzles shall be considered a single source unless it can be demonstrated by the owner or operator that each nozzle, measured separately, meets the emission and performance standards provided in R307-206-2 through 4.

(d) Visible emissions from confined blasting shall be measured at the densest point after the air contaminant leaves the enclosure.

II.B.1.b.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.1.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.1.c

Condition:

Sulfur content of any fuel oil burned shall be no greater than 0.85 lb/MMBtu heat input. [Authority granted under R307-203-1(1); condition originated in R307-203-1(1)]

II.B.1.c.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.1.c.2

Recordkeeping:

The permittee shall maintain records of each delivery of fuel oil. Records shall include the name of the supplier, and a statement from the supplier that the oil complies with the specifications under the definition of distillate oil*. Records shall be maintained in accordance with Provision I.S.1 of this permit.

*Distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, 89, 90, 92, 9, or 98, "Standard Specifications for Fuel Oils.

II.B.1.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.1.d

Condition:

Solvents containing volatile organic compounds (VOC) or hazardous air pollutants (HAPs) shall be kept in covered containers when not in use. [Authority granted under R307-401(6) [BACT]; condition originated in Current Approval Orders listed in Engineering Review]

II.B.1.d.1

Monitoring:

All employees who use VOC or HAP containing solvents shall receive training at least once per calendar year regarding storage requirements. All new employees shall be trained upon hiring. Initial and annual refresher training shall include identification of: VOC or HAP containing solvents, the difference between containers in use and containers not in use, and appropriate storage of VOC or HAP containing solvents when not in use.

II.B.1.d.2

Recordkeeping:

Records shall be maintained to demonstrate that employees have been trained. The records shall include a list of all current personnel requiring training, and a record of the date that each employee is trained.

II.B.1.d.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.1.e

Condition:

A Risk Management Plan (RMP) developed in accordance with 40 CFR Part 68 shall be submitted to the United States Environmental Protection Agency not later than the applicable date in 40 CFR 68. [Authority granted under 40 CFR 68; condition originated in 40 CFR Part 68]

II.B.1.e.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.1.e.2

Recordkeeping:

A copy of the Risk Management Plan shall be available to the Executive Secretary upon request along with a copy of the transmittal letter to EPA.

II.B.1.e.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.1.f

Condition:

The permittee shall comply with the applicable requirements for servicing of motor vehicle air conditioners pursuant to 40 CFR 82, Subpart B - Servicing of Motor Vehicle Air Conditioners. [Authority granted under 40 CFR 82.30(b); condition originated in 40 CFR 82, Subpart B]

- II.B.1.f.1 **Monitoring:**
The permittee shall certify, in the annual compliance statement required in Section I of this permit, its compliance status with the requirements of 40 CFR 82, Subpart B.
- II.B.1.f.2 **Recordkeeping:**
All records required in 40 CFR 82, Subpart B shall be maintained consistent with the requirements of Provision S.1 in Section I of this permit.
- II.B.1.f.3 **Reporting:**
All reports required in 40 CFR 82, Subpart B shall be submitted as required. There are no additional reporting requirements except as outlined in Section I of this permit.
- II.B.1.g **Condition:**
The permittee shall comply with the applicable requirements for recycling and emission reduction for class I and class II refrigerants pursuant to 40 CFR 82, Subpart F - Recycling and Emissions Reduction. [Authority granted under 40 CFR 82.150(b); condition originated in 40 CFR 82, Subpart F]
- II.B.1.g.1 **Monitoring:**
The permittee shall certify, in the annual compliance statement required in Section I of this permit, its compliance status with the requirements of 40 CFR 82, Subpart F.
- II.B.1.g.2 **Recordkeeping:**
All records required in 40 CFR 82, Subpart F shall be maintained consistent with the requirements of Provision S.1 in Section I of this permit.
- II.B.1.g.3 **Reporting:**
All reports required in 40 CFR 82, Subpart F shall be submitted as required. There are no additional reporting requirements except as outlined in Section I of this permit.
- II.B.1.h **Condition:**
The permittee shall comply with all applicable standards of 40 CFR Part 63, Subparts GG (NESHAPS for Aerospace Manufacturing and Rework Facilities) and A (General Provisions). [Authority granted under 40 CFR Part 63, Subparts GG and A; condition originated in 40 CFR Part 63, Subparts GG and A]
- II.B.1.h.1 **Monitoring:**
The permittee shall comply with all applicable performance-testing and monitoring requirements of 40 CFR Part 63, Subparts GG and A. (origin: 40 CFR Part 63, Subparts GG and A)
- II.B.1.h.2 **Recordkeeping:**
The permittee shall comply with the recordkeeping requirements in Section I.S.1 of this permit and any additional recordkeeping requirements in 40 CFR Part 63, Subparts GG and A as applicable.

II.B.1.h.3

Reporting:

The permittee shall comply with the reporting requirements in Section I of this permit and any additional reporting and notification requirements in 40 CFR Part 63, Subparts GG and A as applicable.

II.B.1.i

Condition:

The permittee shall comply with the applicable requirements for labeling of products using ozone depleting substance pursuant to 40 CFR 82, Subpart E - Labeling of Products Using Ozone-Depleting Substances. [Authority granted under 40 CFR 82.102; condition originated in 40 CFR 82, Subpart E]

II.B.1.i.1

Monitoring:

The permittee shall certify, in the annual compliance statement required in Section I of this permit, its compliance status with the requirements of 40 CFR 82, Subpart E.

II.B.1.i.2

Recordkeeping:

All records required in 40 CFR 82, Subpart E shall be maintained consistent with the requirements of Provision S.1 in Section I of this permit.

II.B.1.i.3

Reporting:

All reports required in 40 CFR 82, Subpart E shall be submitted as required. There are no additional reporting requirements except as outlined in Section I of this permit.

II.B.2

Conditions on Groups 1-10 (GP 1-10)

II.B.2.a

Condition:

The emissions of volatile organic compounds (VOC) and hazardous air pollutants (HAPs) from all operations located in Groups 1-10 shall not exceed:

75.0 tons VOC per rolling 12-month period
14.0 tons methyl chloroform (TCA) per rolling 12-month period
25.0 tons methylene chloride (MeCl) per rolling 12-month period
70.0 tons HAPs (including TCA and MeCl) per rolling 12-month period.

[Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.2.a.1

Monitoring:

Compliance with the limitation shall be demonstrated through a rolling 12-month total. The permittee shall calculate a new 12-month total by the 20th day of each month using data from the previous 12 months.

II.B.2.a.2

Recordkeeping:

VOC, MeCl, TCA, and HAP emissions shall be determined by maintaining a record of VOC, HAP, and etc emitting materials used each month. The records shall include the following data for each material used:

1. Name of the VOC, MeCl, TCA, or HAP emitting material, such as; paint, adhesive, solvent, thinner, reducers, chemical compounds, toxics, isocyanates, etc.
2. Density of each material used (pounds per gallon).
3. Percent by weight of VOC, MeCl, TCA, and HAP in each material used.
4. Gallons of each VOC, MeCl, TCA, or HAP emitting material used each month.
5. The amount of VOC, MeCl, TCA, and HAP emitted monthly by each material used, calculated by the following procedure:

$$\text{VOC} = \frac{(\% \text{ VOC by Weight})}{(100)} \times \frac{(\text{Density lb})}{(\text{gal})} \times (\text{Gal Consumed}) \times \frac{(1 \text{ ton})}{(2,000 \text{ lb})}$$

$$\text{MeCL} = \frac{(\% \text{ MeCL by Weight})}{(100)} \times \frac{(\text{Density lb})}{(\text{gal})} \times (\text{Gal Consumed}) \times \frac{(1 \text{ ton})}{(2,000 \text{ lb})}$$

$$\text{TCA} = \frac{(\% \text{ TCA by Weight})}{(100)} \times \frac{(\text{Density lb})}{(\text{gal})} \times (\text{Gal Consumed}) \times \frac{(1 \text{ ton})}{(2,000 \text{ lb})}$$

$$\text{HAP} = \frac{(\% \text{ HAP by Weight})}{(100)} \times \frac{(\text{Density lb})}{(\text{gal})} \times (\text{Gal Consumed}) \times \frac{(1 \text{ ton})}{(2,000 \text{ lb})}$$

6. The total amount of VOC, MeCl, TCA, and HAP emitted monthly from all materials used.
7. The amount of VOC, MeCl, TCA, and HAP reclaimed for the month shall be similarly quantified and subtracted from the quantities calculated above, to provide the monthly total VOC, MeCl, TCA, and HAP emissions.

II.B.2.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.3

Conditions on Group 1 Paint Booths (All)

II.B.3.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.3.a.1

Monitoring:

In lieu of monitoring via visible emissions observations, the spray booth particulate capture system shall be inspected before each use to verify that it is functioning properly. Inspections shall consist of the following observations:

- (A) Inspection for holes in the particulate filters.
- (B) Inspection of the particulate filters to determine proper installation within the support rack.
- (C) Inspection of the exhaust fan to ensure that it is operating.

II.B.3.a.2

Recordkeeping:

Records of inspections shall be maintained as described in I.S.1 of this permit.

II.B.3.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.4

Conditions on Group 2 Dust Collector with HEPA Filter (M-702-DC01)

II.B.4.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.4.a.1

Monitoring:

In lieu of monitoring via visible emissions observations, the HEPA filters shall be inspected every six months to verify that they are functioning properly. Inspections shall consist of the following observations:

- (A) Inspection for holes in HEPA filters.
- (B) Inspection of HEPA filters to determine proper installation.

II.B.4.a.2

Recordkeeping:

Records of inspections shall be maintained as described in I.S.1 of this permit.

II.B.4.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.5

Conditions on Group 1 &2 Dust Collectors/Cyclones (All except M-702-DC01, E-517-DC05, & M-392-DC01)

II.B.5.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.5.a.1

Monitoring:

Visible emissions shall be monitored as follows:

- (A) A visual opacity survey of each baghouse/dust collector shall be performed at the frequency specified in (D) below, by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. Surveys shall be conducted while the baghouse/dust collector is in operation.

- (B) If visible emissions other than steam are observed from the baghouse, an opacity determination shall be performed by a certified observer within 24 hours of the initial survey. Opacity determinations shall be conducted while the baghouse/dust collector is in operation.
- (C) The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

(D)

<u>Unit ID</u>	<u>Monitoring Frequency</u>
E-512-DC01	three-months
E-512-DC02	three-months
E-512-DC03	three-months
E-517-DC01	weekly
E-517-DC02	weekly
M-392-DC01	three-months
M-508-DC01	weekly
M-508-DC02	weekly
M-508-DC03	daily, four times per week if operating
M-508-DC04	daily, four times per week if operating
M-508-DC05	three-months
M-512-DC01	three-months
M-606-DC01	three-months
M-606-DC02	three-months
M-606-DC03	three-months
M-606-DC04	three-months

II.B.5.a.2

Recordkeeping:

For visual opacity surveys, a log of monitoring results shall be maintained including: dates and times of surveys; identification of each dust collector being surveyed; and whether or not visible emissions were observed

For each opacity determination, all data required by 40 CFR 60, Appendix A, Method 9 shall be recorded.

II.B.5.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.6

Conditions on Group 3 Paint Booth (T-021B-PB01)

II.B.6.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.6.a.1

Monitoring:

In lieu of monitoring via visible emissions observations, the spray booth particulate capture system shall be inspected before each use to verify that it is functioning properly. Inspections shall consist of the following observations:

- (A) Inspection for holes in the particulate filters.

(B) Inspection of the particulate filters to determine proper installation within the support rack.

(C) Inspection of the exhaust fan to ensure that it is operating.

II.B.6.a.2

Recordkeeping:

Records of inspections shall be maintained as described in I.S.1 of this permit.

II.B.6.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.7

Conditions on Group 3 Baghouse (Baghouse)

II.B.7.a

Condition:

Visible emissions shall be no greater than 20 percent opacity for the cyclones and 10 percent opacity for the baghouse. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.7.a.1

Monitoring:

Visible emissions shall be monitored as follows:

- A. A visual opacity survey shall be performed every three-months by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. Surveys shall be conducted while the baghouse/dust collector is in operation.
- B. If visible emissions other than steam are observed from the baghouse, an opacity determination shall be performed by a certified observer within 24 hours of the initial survey. Opacity determinations shall be conducted while the baghouse/dust collector is in operation.
- C. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.7.a.2

Recordkeeping:

For visual opacity surveys, a log of monitoring results shall be maintained including: dates and times of surveys; identification of each emissions unit being surveyed; and whether or not visible emissions were observed.

For each opacity determination, all data required by 40 CFR 60, Appendix A, Method 9 shall be recorded.

II.B.7.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.8

Conditions on Group 4 Dust Collectors and Cyclones (ALL)

II.B.8.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.8.a.1

Monitoring:

Visible emissions shall be monitored as follows:

- A. A visual opacity survey shall be performed every three-months by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. Surveys shall be conducted while the baghouse/dust collector is in operation.
- B. If visible emissions other than steam are observed from the baghouse, an opacity determination shall be performed by a certified observer within 24 hours of the initial survey. Opacity determinations shall be conducted while the baghouse/dust collector is in operation.
- C. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.8.a.2

Recordkeeping:

For visual opacity surveys, a log of monitoring results shall be maintained including: dates and times of surveys; identification of each dust collector being surveyed; and whether or not visible emissions were observed

For each opacity determination, all data required by 40 CFR 60, Appendix A, Method 9 shall be recorded.

II.B.8.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.9

Conditions on Group 5- HEPA Filters (M-314-DC01 through DC10)

II.B.9.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.9.a.1

Monitoring:

In lieu of monitoring via visible emissions observations, the HEPA filters shall be inspected every six months to verify that they are functioning properly. Inspections shall consist of the following observations:

- (A) Inspection for holes in HEPA filters.
- (B) Inspection of HEPA filters to determine proper installation.

II.B.9.a.2

Recordkeeping:

Records of inspections shall be maintained as described in I.S.1 of this permit.

II.B.9.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.10 **Conditions on Group 5 Dust Collectors (ALL)**

II.B.10.a **Condition:**

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.10.a.1 **Monitoring:**

Visible emissions shall be monitored as follows:

- (A) A visual opacity survey of each baghouse/dust collector shall be performed at the frequency specified in (D) below, by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. Surveys shall be conducted while the baghouse/dust collector is in operation.
- (B) If visible emissions other than steam are observed from the baghouse, an opacity determination shall be performed by a certified observer within 24 hours of the initial survey. Opacity determinations shall be conducted while the baghouse/dust collector is in operation.
- (C) The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

(D)	<u>Unit ID</u>	<u>Monitoring Frequency</u>
	M-013-DC01	three-months
	M-013-DC02	three-months
	M-013-DC03	three-months
	M-013-DC04	weekly
	M-013-DC05	three-months
	M-079-DC01	three-months
	M-103-DC01	weekly
	M-174-DC01	weekly
	M-174-DC02	three-months

II.B.10.a.2 **Recordkeeping:**

For visual opacity surveys, a log of monitoring results shall be maintained including: dates and times of surveys; identification of each dust collector being surveyed; and whether or not visible emissions were observed

For each opacity determination, all data required by 40 CFR 60, Appendix A, Method 9 shall be recorded.

II.B.10.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.11 **Conditions on Group 6- Dust Collector (T-012-DC01)**

II.B.11.a **Condition:**

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.11.a.1

Monitoring:

Visible emissions shall be monitored as follows:

- A. A visual opacity survey shall be performed every three-months by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. Surveys shall be conducted while the baghouse/dust collector is in operation.
- B. If visible emissions other than steam are observed from the baghouse, an opacity determination shall be performed by a certified observer within 24 hours of the initial survey. Opacity determinations shall be conducted while the baghouse/dust collector is in operation.
- C. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.11.a.2

Recordkeeping:

For visual opacity surveys, a log of monitoring results shall be maintained including: dates and times of surveys; identification of each emissions unit being surveyed; and whether or not visible emissions were observed.

For each opacity determination, all data required by 40 CFR 60, Appendix A, Method 9 shall be recorded.

II.B.11.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.12

Conditions on Group 7- All Paint Booths (PB-ALL)

II.B.12.a

Condition:

Visible emissions shall be no greater than 10 % opacity. [Authority granted under R 307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.12.a.1

Monitoring:

In lieu of monitoring via visible emissions observations, the spray booth particulate capture system shall be inspected before each use to verify that it is functioning properly. Inspections shall consist of the following observations:

- (A) Inspection for holes in the particulate filters.
- (B) Inspection of the particulate filters to determine proper installation within the support rack.
- (C) Inspection of the exhaust fan to ensure that it is operating.

II.B.12.a.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.12.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.13

Conditions on Group 7 NON-HEPA Dust Collectors (NON-HEPA)

II.B.13.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.13.a.1

Monitoring:

Visible emissions shall be monitored as follows:

- A. A visual opacity survey shall be performed on each emissions unit annually, unless specified more frequently (see D. below), by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. Surveys shall be conducted while the emissions unit is in operation.
- B. If visible emissions other than steam are observed from an emissions unit, an opacity determination shall be performed by a certified observer within 24 hours of the initial survey. Opacity determinations shall be conducted while the emissions unit is in operation.
- C. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.
- D. Dust collector M-113-DC04 shall be monitored every three-months.

II.B.13.a.2

Recordkeeping:

For visual opacity surveys, a log of monitoring results shall be maintained including: dates and times of surveys; identification of each emissions unit being surveyed; and whether or not visible emissions were observed.

For each opacity determination, all data required by 40 CFR 60, Appendix A, Method 9 shall be recorded.

II.B.13.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.14

Conditions on Group 7 HEPA Dust Collectors (HEPA)

II.B.14.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.14.a.1

Monitoring:

In lieu of monitoring via visible emissions observations, the HEPA filters shall be inspected every six months to verify that they are functioning properly. Inspections shall consist of the following observations:

- (A) Inspection for holes in HEPA filters.
- (B) Inspection of HEPA filters to determine proper installation.

II.B.14.a.2

Recordkeeping:

Records of inspections shall be maintained as described in I.S.1 of this permit.

II.B.14.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.15

Conditions on Group 7- Asbestos Dust Collectors (M-008A- DC01 & DC02)

II.B.15.a

Condition:

Emissions of asbestos (as PM₁₀) to the atmosphere shall be limited to 5.4 lbs per year and total asbestos processed shall not exceed 12,000 lbs per rolling twelve month period. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.15.a.1

Monitoring:

Asbestos emissions = 2 * {(Quantity of asbestos processed per 12-month period) * (1-0.25) * (1-0.9997)}

Quantity of asbestos processed shall be based on a rolling twelve month period. Based on the first day of each month a new 12-month total of asbestos processed shall be calculated using the previous 12 months.

II.B.15.a.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.15.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.15.b

Condition:

Filters and dust removed from the HEPA filter system shall be handled in accordance with R 307-801 (Asbestos). [Authority granted under R 307-801; condition originated in R 307-801]

II.B.15.b.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.15.b.2

Recordkeeping:

Records of dust removal shall be maintained in accordance with Section I of this permit and UAC 307-801 as applicable.

II.B.15.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.15.c **Condition:**
The affected emissions unit(s) shall comply with all applicable standards of 40 CFR Part 61- Subpart M (NESHAP for Asbestos), and 40 CFR Part 61-Subpart A (General Provisions).. [Authority granted under 40 CFR Part 61, Subpart M; condition originated in 40 CFR Part 61, Subpart M]

II.B.15.c.1 **Monitoring:**
The affected emissions unit(s) shall comply with all applicable performance-testing and monitoring requirements of 40 CFR Part 61, Subparts M and A.

II.B.15.c.2 **Recordkeeping:**
The permittee shall comply with the recordkeeping requirements in Section I.S.1 of this permit and any additional recordkeeping requirements in 40 CFR Part 61, Subparts M and A as applicable.

II.B.15.c.3 **Reporting:**
The permittee shall comply with the reporting requirements in Section I of this permit and any additional reporting and notification requirements in 40 CFR Part 61, Subparts M and A as applicable.

II.B.16 **Conditions on Group 8 Paint Booth, Building M86 (M86-PB01)**

II.B.16.a **Condition:**
Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R 307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.16.a.1 **Monitoring:**
In lieu of monitoring via visible emissions observations, the spray booth particulate capture system shall be inspected before each use to verify that it is functioning properly. Inspections shall consist of the following observations:

- (A) Inspection for holes in the particulate filters.
- (B) Inspection of the particulate filters to determine proper installation within the support rack.
- (C) Inspection of the exhaust fan to ensure that it is operating.

II.B.16.a.2 **Recordkeeping:**
Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.16.a.3 **Reporting:**
There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.17 **Conditions on Group 8 Fume Hood, Building M86 (M86-FH01)**

II.B.17.a **Condition:**
Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.17.a.1

Monitoring:

In lieu of monitoring via visible emissions observations, the HEPA filters shall be inspected every six months to verify that they are functioning properly. Inspections shall consist of the following observations:

- (A) Inspection for holes in HEPA filters.
- (B) Inspection of HEPA filters to determine proper installation.

II.B.17.a.2

Recordkeeping:

Records of inspections shall be maintained as described in I.S.1 of this permit.

II.B.17.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.18

Conditions on Group 8 Baghouses and Cyclone (All)

II.B.18.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.18.a.1

Monitoring:

Visible emissions shall be monitored as follows:

- A. A visual opacity survey shall be performed on each baghouse/dust collector every three-months by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. Surveys shall be conducted while the baghouses/dust collectors are in operation.
- B. If visible emissions other than steam are observed, an opacity determination shall be performed by a certified observer within 24 hours of the initial survey. Opacity determinations shall be conducted while the baghouse/dust collector is in operation.
- C. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.18.a.2

Recordkeeping:

Results of observations and all data required by 40 CFR, Part 60, Appendix A, Method 9 shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.18.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.19 **Conditions on Group 9 Dust Collectors (M-397-DC01, and M-397-DC02)**

II.B.19.a **Condition:**

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.19.a.1 **Monitoring:**

Visible emissions shall be monitored as follows:

- A. A visual opacity survey shall be performed every three-months by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. Surveys shall be conducted while the baghouse/dust collector is in operation.
- B. If visible emissions other than steam are observed from the baghouse, an opacity determination shall be performed by a certified observer within 24 hours of the initial survey. Opacity determinations shall be conducted while the baghouse/dust collector is in operation.
- C. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.19.a.2 **Recordkeeping:**

For visual opacity surveys, a log of monitoring results shall be maintained including: dates and times of surveys; identification of each dust collector being surveyed; whether or not the dust collector has been in operation since the previous monitoring event; and whether or not visible emissions were observed

For each opacity determination, all data required by 40 CFR 60, Appendix A, Method 9 shall be recorded.

II.B.19.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.20 **Conditions on Group 9 Grit Blast Dust Collector (M-066B-DC01)**

II.B.20.a **Condition:**

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.20.a.1 **Monitoring:**

Visible emissions shall be monitored as follows:

- A. A visual opacity survey shall be performed daily, four times a week (if operating) by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. Surveys shall be conducted while the baghouse/dust collector is in operation.
- B. If visible emissions other than steam are observed from the baghouse, an opacity determination shall be performed by a certified observer within

24 hours of the initial survey. Opacity determinations shall be conducted while the baghouse/dust collector is in operation.

C. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.20.a.2

Recordkeeping:

For visual opacity surveys, a log of monitoring results shall be maintained including: dates and times of surveys; identification of each dust collector being surveyed; whether or not the dust collector has been in operation since the previous monitoring event; and whether or not visible emissions were observed

For each opacity determination, all data required by 40 CFR 60, Appendix A, Method 9 shall be recorded.

II.B.20.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.21

Conditions on Group 9 Silicone Room Exhaust Hood (M-397-PB01)

II.B.21.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.21.a.1

Monitoring:

In lieu of monitoring via visible emissions observations, the spray booth particulate capture system shall be inspected before each use to verify that it is functioning properly. Inspections shall consist of the following observations:

- (A) Inspection for holes in the particulate filters.
- (B) Inspection of the particulate filters to determine proper installation within the support rack.
- (C) Inspection of the exhaust fan to ensure that it is operating.

II.B.21.a.2

Recordkeeping:

Records of inspections shall be maintained as described in I.S.1 of this permit.

II.B.21.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.22

Conditions on Group 10 Paint Booth, Building M-043 (M-043-PB01)

II.B.22.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.22.a.1

Monitoring:

In lieu of monitoring via visible emissions observations, the spray booth particulate capture system shall be inspected before each use to verify that it is functioning properly. Inspections shall consist of the following observations:

- (A) Inspection for holes in the particulate filters.
- (B) Inspection of the particulate filters to determine proper installation within the support rack.
- (C) Inspection of the exhaust fan to ensure that it is operating.

II.B.22.a.2

Recordkeeping:

Records of inspections shall be maintained as described in I.S.1 of this permit.

II.B.22.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.23

Conditions on Group 10 Dust Collectors, Asbestos Floats Rooms (DC01-DC02)

II.B.23.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.23.a.1

Monitoring:

In lieu of monitoring via visible emissions observations, the HEPA filters shall be inspected every six months to verify that they are functioning properly. Inspections shall consist of the following observations:

- (A) Inspection for holes in HEPA filters.
- (B) Inspection of HEPA filters to determine proper installation.

II.B.23.a.2

Recordkeeping:

Records of inspections shall be maintained as described in I.S.1 of this permit.

II.B.23.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.24

Conditions on Group 10 Dust Collector, Building M-043 (M-043-DC01)

II.B.24.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.24.a.1

Monitoring:

In lieu of monitoring via visible emissions observations, the HEPA filters shall be inspected every six months to verify that they are functioning properly. Inspections shall consist of the following observations:

(A) Inspection for holes in HEPA filters.

(B) Inspection of HEPA filters to determine proper installation.

II.B.24.a.2

Recordkeeping:

Records of inspections shall be maintained as described in I.S.1 of this permit.

II.B.24.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.25

Conditions on Group 10 Dust Collectors (ALL)

II.B.25.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009106-06]

II.B.25.a.1

Monitoring:

Visible emissions shall be monitored as follows:

- A. A visual opacity survey shall be performed on each baghouse/dust collector every three-months by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. Surveys shall be conducted while the baghouses/dust collectors are in operation.
- B. If visible emissions other than steam are observed, an opacity determination shall be performed by a certified observer within 24 hours of the initial survey. Opacity determinations shall be conducted while the baghouse/dust collector is in operation.
- C. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.25.a.2

Recordkeeping:

Results of observations and all data required by 40 CFR, Part 60, Appendix A, Method 9 shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.25.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.26

Conditions on Group 11 Activities (G11)

II.B.26.a

Condition:

Fuel consumption shall not exceed the following limits:

- 1. 52,000 lbs of wood per rolling 12-month period,
- 2. 31,200 gallons of fuel oils (No. 6 and lower) per rolling 12-month period,
- 3. 52,000 gallons of LP gas per rolling 12-month period,
- 4. 5,431,000 standard cubic feet of natural gas per rolling 12-month period, and
- 5. 26,000 lbs of other combustibles per rolling 12-month period.

Each material used for each test shall not exceed the following amounts:

1. Wood: 1,000 lb.
2. Fuel oil: 300 gallons.
3. LP gas: 500 gallons.
4. Natural gas: 52,000 scf
5. Other combustibles: 100 lb.

[Authority granted under R307-401 (BACT); condition originated in DAQE-1200-95]

II.B.26.a.1

Monitoring:

Compliance with the 12-month limitations shall be demonstrated by calculating 12-month rolling totals of fuel consumed. A new 12-month total shall be calculated based on the first day of each month, using data from the previous twelve months. Monthly calculations shall be made no later than 20 days after the end of each calendar month.

Fuel weights and types used for each test shall be recorded in the logbook for T-075.

II.B.26.a.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.26.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.27

Conditions on PEP Testing and Burning (PEP)

II.B.27.a

Condition:

The amount of propellant, explosives & pyrotechnics (PEP) burned during testing shall not exceed 1.5 million lbs per rolling 12-month period. PEP materials fired and/or tested from devices containing 1.0 lb or less PEP, and PEP materials burned during facility and tooling decontamination operations, are not included in the above limitation. [Authority granted under R307-401 (BACT); condition originated in DAQE-192-96]

II.B.27.a.1

Monitoring:

Compliance with the limitation shall be demonstrated by calculating a 12-month rolling total of PEP burned. A new 12-month total shall be calculated based on the first day of each month, using data from the previous twelve months. Monthly calculations shall be made no later than 20 days after the end of each calendar month.

II.B.27.a.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

- II.B.27.a.3 **Reporting:**
There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.B.27.b **Condition:**
Rocket motors burned at the KOSMO site shall contain no more than 50 lbs of propellant each. [Authority granted under R307-401 (BACT); condition originated in DAQE-192-96]
- II.B.27.b.1 **Monitoring:**
Records required for this permit condition will serve as monitoring.
- II.B.27.b.2 **Recordkeeping:**
Documentation shall be maintained demonstrating that only rocket types containing less than 50 lbs of propellant are being burned at the KOSMO site.
- II.B.27.b.3 **Reporting:**
There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.B.28 **Conditions on Degreasers (SCD)**
- II.B.28.a **Condition:**
Degreasers shall be kept covered at all times except when necessary for access. [Authority granted under R307-401 (BACT); condition originated in DAQE-389-96]
- II.B.28.a.1 **Monitoring:**
All employees who use degreasers shall receive instruction at least once per calendar year regarding covering requirements. All new employees who use degreasers shall receive these instructions upon hiring.
- II.B.28.a.2 **Recordkeeping:**
Records shall be maintained to demonstrate that employees have been trained. The records shall include a list of all current personnel requiring training, and a record of the date that each employee is trained.
- II.B.28.a.3 **Reporting:**
There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.B.28.b **Condition:**
The emissions of VOC, and HAPs shall not exceed:

5.0 tons VOC per rolling 12-month period
5.0 tons HAPs per rolling 12-month period.

[Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-389-96]

II.B.28.b.1

Monitoring:

Compliance with the limitation shall be demonstrated through a rolling 12-month total. Based on the first day of each month, the permittee shall calculate a new 12-month total. Calculations shall be made by the 20th day of each month using data from the previous 12 months.

II.B.28.b.2

Recordkeeping:

The plant-wide emissions of VOCs and HAPs emitted to the atmosphere shall be determined by maintaining a record of solvent usage. The record shall be kept on a daily basis. The record shall include the following data for each item used:

- (A) Name of the VOC and HAPs emitting solvent
- (B) The weight of the VOC potential and HAP potential of the solvent(s) listed in (A) in pounds per gallon
- (C) Percent of VOC and each HAP by weight as determined from Material Safety Data Sheets (MSDS)
- (D) Copy of delivery invoice and date of delivery
- (E) Copy of Uniform Hazardous Waste Manifest for spent solvent shipped off-site
- (F) For each different solvent used, the amount of that solvent emitted shall be determined as the difference between solvent deliveries, obtained from delivery invoices, and the solvent disposed, obtained from the Uniform Hazardous Waste Manifest. Records of consumption of VOCs and HAPs shall be kept for all periods when the plant is in operation. Plant-wide VOC and HAP emissions for each different solvent shall be determined in the following manner:

$$\text{Weight of Solvent consumed} = A - B$$

Where:

A = Solvent deliveries during the month as determined from delivery invoices

B = Spent solvent shipped off-site during the month as determined from the Uniform Hazardous Waste Manifest

$$\text{VOC} = \text{Weight of solvent consumed} * \% \text{ VOC} / 100$$

$$\text{HAP} = \text{Weight of solvent consumed} * \% \text{ HAP} / 100$$

The VOC and HAP content in pounds for each individual solvent used shall be calculated and then the total of all items shall be summed.

II.B.28.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.29

Conditions on M-705 Waste Water Treatment Facility (M-705)

II.B.29.a

Condition:

Gallons of wastewater treated per rolling 12-month period shall not exceed the following limits for each identified process:

1. AP Process: 1,051,200 gallons of water.
2. HMX Process: 2,433,300 gallons of water.
3. Mixed Waste Process: 10,512,000 gallons of water.
4. Isopropanol Distillation Process: 525,600 gallons of water.

[Authority granted under R307-401 (BACT); condition originated in DAQE-042-96]

II.B.29.a.1

Monitoring:

Compliance with the limitations above shall be demonstrated by calculating 12-month rolling totals of waste water produced from each process. A new 12-month total shall be calculated based on the first day of each month, using data from the previous twelve months. Monthly calculations shall be made no later than 20 days after the end of each calendar month.

II.B.29.a.2

Recordkeeping:

Records of monitoring shall be kept on a daily basis during operations. Results of monitoring shall be maintained as described in Provision I.S.1 of this permit.

II.B.29.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.29.b

Condition:

VOC emissions from the Isopropanol Distillation Process (IPA) and associated operations shall not exceed 5.4 tons per rolling 12-month period.

[Authority granted under R307-401 (BACT); condition originated in DAQE-042-96]

II.B.29.b.1

Monitoring:

Compliance with the limitation shall be demonstrated by calculating a 12-month rolling total of VOC emissions using the following equation:

VOC emissions = (tons HMX or RDX delivered) * %IPA/100 - tons IPA recovered- tons IPA disposed as waste.

A new 12-month total shall be calculated based on the first day of each month, using data from the previous twelve months. Monthly calculations shall be made no later than 20 days after the end of each calendar month.

II.B.29.b.2 **Recordkeeping:**
Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.29.b.3 **Reporting:**
There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.30 **Conditions on All Natural Gas And Diesel Fired Boilers (NGB&DB-ALL)**

II.B.30.a **Condition:**
Fuel Consumption shall not exceed the following limits:

- A. 1,046,000 standard cubic feet of natural gas per 12-month period.
- B. 1,298,400 gallons of fuel oil (No. 1 or No. 2) per 12-month period.

[Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-038-01]

II.B.30.a.1 **Monitoring:**
Compliance with the limitation shall be demonstrated through a rolling 12-month total. Based on the first day of each month, the permittee shall calculate a new 12-month total using billing and delivery records from the previous 12 months. Calculations shall be made by the 20th day of each month.

II.B.30.a.2 **Recordkeeping:**
Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.30.a.3 **Reporting:**
There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.31 **Conditions on Natural Gas Fired Boilers (all NG Boilers onsite) (NGB-ALL)**

II.B.31.a **Condition:**
Visible emissions shall be no greater than 10 percent opacity when operated on natural gas, and 20 percent opacity when operated on back-up fuel oil.

[Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-038-01]

II.B.31.a.1 **Monitoring:**
During periods of natural gas combustion: In lieu of monitoring via visible emission observations, fuel usage shall be monitored to demonstrate that only natural gas is used as fuel.

During periods of fuel oil combustion: A visual opacity survey of each affected emission unit shall be performed at least once every 24 hours during each period of fuel oil usage longer than 24 hours. Visual opacity surveys shall be made by

an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. The individual is not required to be a certified visible emissions observer (VEO). If any visible emissions are observed, an opacity determination of that emission unit shall be performed by a certified VEO in accordance with 40 CFR 60, Appendix A, Method 9 within 24 hours of the initial observation.

II.B.31.a.2

Recordkeeping:

Records of fuel usage shall be maintained to document periods during which natural gas has been burned.

Results of observations and all data required by 40 CFR, Part 60, Appendix A, Method 9 shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.31.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.32

Conditions on Natural Gas NSPS Boiler, Bldg M-072 (NGB-M-072 NSPS)

II.B.32.a

Condition:

The permittee shall keep daily records of the amounts of each fuel combusted each day. [Authority granted under 40 CFR 60.48c(g); condition originated in DAQE-038-01]

II.B.32.a.1

Monitoring:

Fuel consumption for each affected emission unit shall be determined by a fuel meter, vendor supplied information, or other method approved by the Executive Secretary.

II.B.32.a.2

Recordkeeping:

Records of the amounts of each fuel combusted during each day for each affected unit shall be maintained as described in Provision I.S.1 of this permit.

II.B.32.a.3

Reporting:

In addition to the reporting requirements specified in Section I of this permit, the permittee shall comply with the following for each affected emission unit:

For fuel shipment sampling, the requirements of 40 CFR 60.48c(d), 60.48c(e)(1) and (2), and 60.48c(j); or

For fuel supplier certification, the requirements of 40 CFR 60.48c(d), 40 CFR 60.48c(e)(1) and (11), and 60.48c(j). (origin: 40 CFR 60.48c(d), (e), (j))

II.B.32.b

Condition:

The permittee shall comply with all applicable requirements of 40 CFR 60 Subpart A. [Authority granted under 40 CFR 60 (Subpart A); condition originated in DAQE-038-01]

II.B.32.b.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.32.b.2

Recordkeeping:

In accordance with 40 CFR 60.7(b), the permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of affected emission unit; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. These records and all other applicable records and notifications required by 40 CFR 60 Subpart A shall be maintained in accordance with provision I.S.1 of this permit.

II.B.32.b.3

Reporting:

The permittee shall comply with the reporting requirements in Section I of this permit and any additional reporting and notification requirements of 40 CFR 60 Subpart A.

II.B.33

Conditions on All Diesel Fired Boilers (DB-ALL)

II.B.33.a

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-038-01]

II.B.33.a.1

Monitoring:

Opacity observations of emissions shall be conducted annually in accordance with 40 CFR Part 60, Appendix A, Method 9.

II.B.33.a.2

Recordkeeping:

Results of observations and all data required by 40 CFR, Part 60, Appendix A, Method 9 shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.33.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.34

Conditions on Generators and IC Engines Greater than 50 hp (Gens and IC Engines-all)

II.B.34.a

Condition:

Combined emissions shall not exceed the following amount (in tons per year):

Nox51.12
CO64.31
Sox 3.38
PM ₁₀3.63
Aldehydes0.80
VOC6.65.

[Authority granted under R307-401 (BACT); condition originated in DAQE-064-98]

II.B.34.a.1

Monitoring:

(1) For diesel engines up to 600 hp, emissions shall be determined using the emissions factors identified below:

Pollutant	Emissions Factors (g/kW-hr)	Emissions Factors (lbs/MMBtu)
NO _x	18.80	4.41
CO	4.06	0.95
SO _x	1.25	0.29
PM ₁₀	1.34	0.31
Aldehydes	0.28	0.07
VOC	1.53	0.36

(2) For diesel engines greater than 600 hp, emissions shall be determined using the emissions factors identified below:

Pollutant	Emissions Factors (g/kW-hr)	Emissions Factors (lbs/MMBtu)
NO _x	14.00	3.10
CO	3.20	0.81
SO _x	2.46	0.50
PM ₁₀	1.34	0.31
Aldehydes	0.28	0.07
VOC	0.44	0.01

(3) For gasoline engines, emissions shall be determined using the emissions factors identified below:

Pollutant	Emissions Factors (g/kW-hr)	Emissions Factors (lbs/MMBtu)
NO _x	6.92	1.63
CO	267.00	62.70
SO _x	0.36	0.08
PM ₁₀	0.44	0.10
Aldehydes	0.30	0.07
VOC	12.97	3.03

(4) Emissions from Thiokol-owned engines shall be determined by multiplying the total kilowatt-hours by the appropriate emission factors above. The energy consumption in kilowatt-hours shall be based upon unit size and hours of operation recorded in maintenance records during regular preventive maintenance servicing. Each engine shall use an individual operation hours-metering device which cannot be reset. Malfunctioning meters shall be replaced upon discovery. Corrections to the hours of operation for malfunctioning meters shall be made by determining the average use-rate for the unit based upon available historical data, not to exceed 5 years, and prorating the use-rate over the hours since the meter was last known to be operating properly. In the absence of historical data, the hours of operation shall be determined based upon 8 hours per day, 5 days per week operation since the date the meter was last known to be operating properly.

(5) Emissions from Thiokol-leased engines shall be determined by multiplying the total fuel consumed by the appropriate emission factor found above. Fuel consumption shall be determined by recording fuel dispensed during servicing. Fuel-energy equivalents used for calculations shall be as follows:

- (a) 1 gallon of diesel = 140,000 Btu.
- (b) 1 gallon of gasoline = 130,000 Btu.

(6) Compliance with the total emissions limitations above shall be based upon the sum of emissions from engines greater than 50 hp plus the following amounts* (in tons per year): 0.58 NO_x, 15.66 CO, 0.03 SO_x, 0.04 PM₁₀, 0.02 Aldehydes, 0.77 VOC. Compliance with the limitations shall be demonstrated using a rolling 12-month total. Based on the first day of each month a new 12-month total shall be calculated. Calculations shall be made by the 20th day of each month.

*These amounts are derived from the sum total emissions from all engines less than 50 hp.

II.B.34.a.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.34.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.35

Conditions on Generators and IC Engines Between 50 and 400 hp (Gens-other)

II.B.35.a

Condition:

The permittee shall maintain a listing of generators and IC engines (excluding mobile sources) with rated capacities between 50 hp and 400 hp.

[Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-064-98]

II.B.35.a.1

Monitoring:

The equipment list shall be reviewed every six months and updated if necessary.

II.B.35.a.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.35.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.36 **Conditions on Diesel Generators Greater than 400 hp- Post 1969 (Gens- Post 69)**

II.B.36.a **Condition:**

Visible emissions shall be no greater than 20 percent opacity not exceeding 3-minutes in any hour. [Authority granted under R307-201-3; condition originated in DAQE-064-98]

II.B.36.a.1 **Monitoring:**

For each emissions unit operated during a semi annual period (i.e., January through June, July through December), a visual opacity survey shall be performed during the semi-annual period of operation. The opacity survey can be conducted anytime during the semi-annual period while the unit is operating. The opacity survey shall be conducted by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from the emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial visual emission observation. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.36.a.2 **Recordkeeping:**

Results of observations and all data required by 40 CFR, Part 60, Appendix A, Method 9 shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.36.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.37 **Conditions on Diesel Generators Greater than 400 hp- Pre 1969 (Gens- Pre 69)**

II.B.37.a **Condition:**

Visible emissions shall be no greater than 40 percent opacity not exceeding 3-minutes in any hour. [Authority granted under R307-201-3; condition originated in DAQE-064-98]

II.B.37.a.1 **Monitoring:**

For each emissions unit operated during a semi annual period (i.e., January through June, July through December), a visual opacity survey shall be performed during the semi-annual period of operation. The opacity survey can be conducted anytime during the semi-annual period while the unit is operating. The opacity survey shall be conducted by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from the emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial visual emission observation. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.37.a.2

Recordkeeping:

Results of observations and all data required by 40 CFR, Part 60, Appendix A, Method 9 shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.37.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.38

Conditions on Nitrogen Process Reactors (Bldg-M-590-Explosives-and-Energetics)

II.B.38.a

Condition:

Visible emissions shall be no greater than 10 percent opacity, measured at the packed-tower scrubber exhaust. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-012-00]

II.B.38.a.1

Monitoring:

Visible emissions shall be monitored as follows:

- A. A visual opacity survey shall be performed on each emissions unit annually by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. Surveys shall be conducted while the emissions unit is in operation.
- B. If visible emissions other than steam are observed from an emissions unit, an opacity determination shall be performed by a certified observer within 24 hours of the initial survey. Opacity determinations shall be conducted while the emissions unit is in operation.
- C. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.38.a.2

Recordkeeping:

For visual opacity surveys, a log of monitoring results shall be maintained including: dates and times of surveys; identification of each emissions unit being surveyed; and whether or not visible emissions were observed.

For each opacity determination, all data required by 40 CFR 60, Appendix A, Method 9 shall be recorded.

II.B.38.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.38.b

Condition:

The emissions of VOC and HAPs shall not exceed:

- 30.0 tons VOC per rolling 12-month period
- 13.0 tons diethanolamine per rolling 12-month period
- 20.0 tons of total HAPs (including diethanolamine) per rolling 12-month period.

[Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-012-00]

II.B.38.b.1

Monitoring:

Compliance with the limitation shall be demonstrated through a rolling 12-month total. Based on the first day of each month, the permittee shall calculate a new 12-month total. Calculations shall be made by the 20th day of each month using data from the previous 12 months.

II.B.38.b.2

Recordkeeping:

The emissions of VOCs and HAPs emitted to the atmosphere from the building M-590 shall be determined by mass balance using the following expression and appropriate units:

$$\text{Emissions} = a - b - c$$

Where: a = amount of VOC or HAP material delivered or used
b = change in the amount of VOC or HAP material in inventory
c = amount of VOC or HAP material reclaimed, disposed as waste or discharge to a waste water treatment facility

Or, VOC and HAP emissions shall be determined by maintaining a record of VOC and HAP emitting materials used each month. The records shall include the following data for each material used:

1. Name of the VOC, or HAP emitting material.
2. Density of each material used (pounds per gallon).
3. Percent by weight of VOC, and HAP in each material used.
4. Gallons of each VOC, or HAP emitting material used each month.
5. The amount of VOC, and HAP emitted monthly by each material used, calculated by the following procedure:

$$\text{VOC} = \frac{(\% \text{ VOC by Weight})}{(100)} \times \frac{(\text{Density lb})}{(\text{gal})} \times (\text{Gal Consumed}) \times \frac{(1 \text{ ton})}{(2,000 \text{ lb})}$$

$$\text{HAP} = \frac{(\% \text{ HAP by Weight})}{(100)} \times \frac{(\text{Density lb})}{(\text{gal})} \times (\text{Gal Consumed}) \times \frac{(1 \text{ ton})}{(2,000 \text{ lb})}$$

6. The total amount of VOC, and HAP emitted monthly from all materials used.
7. The amount of VOC, and HAP reclaimed for the month shall be similarly quantified and subtracted from the quantities calculated above, to provide the monthly total VOC, and HAP emissions.

8. It is assumed that formaldehyde, hexamethylene-1,6-diisocyanate, methyl isocyanate, and 2,4-toluene diisocyanate shall be totally consumed in the reactions. Therefore, the annual emissions of formaldehyde, hexamethylene-1,6-diisocyanate, methyl isocyanate, and 2,4-toluene diisocyanate shall be assumed to be zero per rolling 12-month period.

II.B.38.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.39

Conditions on Portable VACLOADER Vacuum System (M-136-IE03)

II.B.39.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-483-94]

II.B.39.a.1

Monitoring:

In lieu of monitoring via visible emissions observations, the VACLOADER shall be inspected every six months to verify that the HEPA filter is functioning properly. Inspections shall consist of the following observations:

- (A) Inspection for holes in the HEPA filter.
- (B) Inspection of the HEPA filter to determine proper installation within the VACLOADER.

II.B.39.a.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.39.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.40

Conditions on Shuttle Motor Testing (T-24 & T-97 Test Bays)

II.B.40.a

Condition:

Fuel consumption shall not exceed the following limits:

- (1) 2,100 tons of Type-1.3 propellant per rolling 12-month period in test bays T-24 and T-97.
- (2) 700 tons of Type-1.3 propellant per calendar day in test bays T-24 and T-97.

[Authority granted under R307-401 (BACT); condition originated in DAQE-AN0009105-05]

II.B.40.a.1

Monitoring:

Compliance with the rolling 12-month limitation shall be demonstrated through a rolling 12-month total calculated using records of propellant burned during each

day of test firing. The permittee shall calculate a new 12-month total by the 20th day of each month using data from the previous 12 months.

II.B.40.a.2

Recordkeeping:

The amount of propellant burned during each day of test firing shall be recorded. Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.40.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.40.b

Condition:

Prior to the test firing of the SRM, Thiokol shall make a reasonable determination as to whether or not the minimum meteorological conditions required for a static testing at the T-24 or T-97 test bays, exist. The determination shall be based on the following criteria:

Thiokol shall forecast the atmospheric stability for the time of the test firing based on morning stability data collected at the on-site M-245 10 meter meteorological monitoring tower. Variation in wind direction (sigma-theta) data shall be used to determine atmospheric stability according to the methodology described in the "Guidelines to Air Quality Models" (Revised) Tables 9-2 and 9-3.

Thiokol shall release a rawinsonde from a distance of not more than two kilometers from the T-24 or T-97 test bays no more than three hours prior to the SRM static test firing at test bays T-24 or T-97. The rawinsonde shall measure the wind speed between 6,000 feet and 14,000 feet MSL, to determine the average wind speed at 10,000 feet MSL. The rawinsonde release and data collection shall be conducted by an independent professional meteorological company with rawinsonde experience. The meteorological company chosen by Thiokol to perform the rawinsonde release is subject to the review and approval of the Executive Secretary.

The SRM static test firing at test bays T-24 and T-97 shall be conducted under the following forecasted stability classes, if the minimum average wind speed at 10,000 feet MSL is determined to be less than or equal to the wind speed specified below:

- Stability Class A - Wind speed is less than or equal to 20 m/s
- Stability Class B - Wind speed is less than or equal to 20 m/s
- Stability Class C - Wind speed is less than or equal to 20 m/s
- Stability Class D - Wind speed is less than or equal to 20 m/s
- Stability Class E - No static test firing shall be conducted
- Stability Class F - No static test firing shall be conducted

The actual stability class at the time of the static test firing shall be measured. [Authority granted under R307- 401- 6(1) [BACT]; condition originated in DAQE-AN0009105-05]

II.B.40.b.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.40.b.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.40.b.3

Reporting:

In addition to the reporting requirements specified in Section I of this permit, the actual stability class at the time of the static test firing shall be reported.

II.B.41

Conditions on Open Burning Activities (OBOD M-136, M-225, SRM)

II.B.41.a

Condition:

Open burning activities shall be conducted as follows:

- (i) ATK Thiokol, Inc. may open burn explosive material which cannot be safely stored long enough to await favorable meteorological conditions as defined in the clearing index system.
- (ii) The open burning of any waste containing beryllium is prohibited.
- (iii) The open burning of waste containing highly toxic materials is prohibited except when meteorological conditions are such that the resulting products of combustion will traverse over unoccupied areas only.
- (iv) A description and evaluation of the quantities of highly toxic material to be emitted to the atmosphere must be submitted to the Executive Secretary prior to each burning.. [Authority granted under R307-401 (BACT); condition originated in DAQE-AN0009105-05]

II.B.41.a.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.41.a.2

Recordkeeping:

A log shall be maintained of the date, time, place and quantity of each burn, and the type of material burned.

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit. (origin: DAQE-AN0009105-05)

II.B.41.a.3

Reporting:

The following reporting requirements apply in addition to those specified in Section I of this permit:

- (i) Emissions generated from open burning shall be reported as required under R307-150.
- (ii) A report of investigative efforts to eliminate open burning of hazardous materials shall be submitted to the Executive Secretary by January 15th of each year. (origin: DAQE-AN0009105-05)

- II.B.41.b **Condition:**
 Estimated emissions of hydrogen chloride (HCl) from open burning shall not exceed 22,600 pounds per day. This limit does not include the HCl emissions from the static test firing of the RSRM, testing of propellant, pyrotechnic, and explosive materials..
 [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-AN0009105-05]
- II.B.41.b.1 **Monitoring:**
 HCl emissions shall be calculated using the following formula:

$$\text{HCl (lbs)} = \text{Waste burned (lbs)} * 0.2122$$
 Calculations shall be made on a daily basis when open burning is conducted.
- II.B.41.b.2 **Recordkeeping:**
 Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.
- II.B.41.b.3 **Reporting:**
 There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.B.41.c **Condition:**
 The Box Elder County Sheriffs Office shall be notified prior to and on the day of conducting an open burn.. [Authority granted under R307-401 (BACT); condition originated in DAQE-AN0009105-05]
- II.B.41.c.1 **Monitoring:**
 Records required for this permit condition will serve as monitoring.
- II.B.41.c.2 **Recordkeeping:**
 The above referenced notification shall be documented and maintained in the daily burn log in accordance with Provision I.S.1 of this permit. (origin: DAQE-AN0009105-05)
- II.B.41.c.3 **Reporting:**
 There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.C. **Emissions Trading.**
 (R307-415-6a(10))
 Not applicable to this source.
- II.D. **Alternative Operating Scenarios.**
 (R307-415-6a(9))
 Not applicable to this source.

Section III: PERMIT SHIELD

The following requirements have been determined to be not applicable to this source in accordance with Provision I.M, Permit Shield:

III.A. R307-201 (Visible Emission Standards)

This regulation is not applicable to the Open Burning Activities (OBOD M-136, M-225, SRM) because Open Burning Activities are regulated by R307-202 (Emission Standards for General Burning).

III.B. R307-205 (Fugitive Emissions and Fugitive Dust)

This regulation is not applicable to the Open Burning Activities (OBOD M-136, M-225, SRM) because Open Burning Activities are regulated by R307-202 (Emission Standards for General Burning).

III.C. R307-305-1 (Visible Emission Standards)

This regulation is not applicable to the Open Burning Activities (OBOD M-136, M-225, SRM) because Open Burning Activities are regulated by R307-202 (Emission Standards for General Burning).

Section IV: ACID RAIN PROVISIONS.

This source is not subject to Title IV. This section is not applicable.

REVIEWER COMMENTS

This operating permit incorporates all applicable requirements contained in the following documents:

DAQE-AN0009106-06	dated	January 06, 2006
DAQE-AN0009105-05	dated	August 01, 2005
DAQE-038-01	dated	January 23, 2001
DAQE-012-00	dated	January 05, 2000
DAQE-064-98	dated	January 27, 1998
DAQE-389-96	dated	April 12, 1996
DAQE-192-96	dated	February 15, 1996
DAQE-042-96	dated	January 12, 1996
DAQE-1200-95	dated	December 27, 1995
DAQE-802-94	dated	September 22, 1994
DAQE-483-94	dated	June 16, 1994

1. Comment on an item originating in AO DAQE-802-94 regarding Catalyst Ozone Destructors (Unit WW1 & WW2)

Condition 8: is a visible emissions limitation of 0%. The Catalyst Ozone Destructor is not a combustion unit and will therefore never exceed the 0% opacity limit. [Comment last updated on 12/18/2003]

2. Comment on an item originating in AO DAQE-802-94 regarding Catalyst Ozone Destructors (Unit WW1 & WW2)

Condition 10: is a disclaimer statement regarding UPDES requirements, hence, the condition is not carried forth into the Title V permit. [Comment last updated on 11/26/2003]

3. Comment on an item originating in DAQE-AN0009106-06 regarding

Buildings included in Group 3: T-021D, T-067, T-072, M-145, T-030, T-068, T-073, M-042, T-021, T-032, T-069, T-092, M-044, T-021B, T-033, T-070, T-112B, M-125, T-112, T-054, T-071, M-126. [Comment last updated on 2/16/2006]

4. Comment on an item originating in AO DAQE-AN0009106-06 regarding

Buildings included in Group 6: T-001, T-001A, T-002, T-002A, T-003, T-004, T-005, T-006, T-006A, MT-006, T-007, T-010, T-011, T-012, T-014, T-014A, T-015, T-016, T-017, T-017A, T-018, T-018A, T-022, T-023, T-023A, T-024, T-024A, T-024B, T-024C, T-024F, T-024G, T-029, T-029B, T-035, T-035A, T-036, T-051, T-053, T-074, T-076, T-091, T-093, T-094, T-095, T-096, T-097, T-097A, T-097B, T-097C, T-002B, T-002C, T-004A, T-004B, T-004C, T-004D, T-014B, T-014C, T-014D, T-014E, T-015A, T-016A, T-018B, T-020, T-022A, T-022B, T-023B, T-024E, T-024H, T-027, T-028, T-029A, T-051A, T-053A, T-055, T-059, T-060, T-064, T-065, T-066, T-077, T-078, T-079, T-080, T-081, T-082, T-089, T-090, T-093A, T-094A, T-095, T-097D, T-097F, T-098, T-099, T-100, T-101, T-102, T-103, T-104, T-105, T-106, T-107, and T-111. [Comment last updated on 2/16/2006]

5. Comment on an item originating in DAQE-AN0009106-06 regarding

Buildings included in Group 4: M-201, M-201A, M-202, M-203, M-205, M-205A, M-206, M-207A, M-207B, M-213, M-217, M-218A, M-220A, M-222A, M-223A-B, M-225, M-225A, M-227, M-236A, M-237, M-238, M-239, M-242, M-243, M-245, M-201C, M-207, M-208, M-208A, M-209, M-210, M-212, M-214, M-215, M-216, M-218, M-220, M-221, M-222, M-224, M-224A, M-236, M-241, M-242A, M-243, and M-244 [Comment last updated on 2/16/2006]

6. Comment on an item originating in DAQE-AN0009106-06 regarding

Buildings included in Group 5: M-014, M-014A, M-016A, M-017, M-017A, M-021, M-026, M-032, M-033, M-34A, M-039A, M-046L, M-046K, M-047, M-047A, M-048A, M-048B, M-079A, M-079B, M-079E, M-079W, M-080, M-082, M-107, M-108, M-115A, M-120A, M-120B, M-120C, M-120D, M-120E, M-123, M-142, M-154, M-158, M-159, M-160, M-161, M-163, M-171, M-177, M-300A, M-300B, M-300C, M-301A, M-301B, M-301C, M-308, M-315, M-320A, M-325A, M-364, M-372, M-406, M-28, M-29, M-30, M-31, M-37, M-49, M-50, M-51, M-62A, M-63A, M-158, M-159, M-36, M-46, M-38, M-012, M-063, M-012, M-013, M-016, M-020, M-022, M-023, M-024, M-025, M-027, M-034, M-039, M-048, M-076, M-079, M-103, M-115, M-120, M-174, M-184, M-300, M-301, M-309, M-314, M-320, M-325, M-419 [Comment last updated on 2/16/2006]

7. Comment on an item originating in AO DAQE-064-98 regarding Generators and IC Engines Greater than 50 hp (Unit Gens and IC Engines-all)

Condition 4: requires annual review of the relevant conditions of the AO. That requirement will be satisfied through the six month-monitoring and annual certification reports required by this permit. [Comment last updated on 11/26/2003]

8. Comment on an item originating in AO DAQE-AN0009106-06 regarding

Buildings included in Group 7: M-002, M-003, M-005, M-006, M-008, M-008A, M-010, M-052, M-055, M-068, M-111, M-113, M-113A, M-137, M-137A, M-137B, M-179, M-189, A-001, A-002, A-002A, A-002B, A-002C, A-002D, A-002E, A-002F, A-003, A-004, A-009, A-010, M-001A, M-002A, M-003A, M-003B, M-003C, M-003D, M-003E, M-003F, M-004, M-005A, M-005B, M-006A, M-009, M-009A, M-011, M-011A, M-035, M-054, M-055A, M-088, M-090, M-090A, M-090B, M-102, M-111A, M-111B, M-111C, M-111D, M-150, M-151, M-153, M-162, M-166, M-172, M-175, M-175A, M-176A, M-187, M-194, M-305, M-311, M-318, M-333, M-337, M-337B, M-378, M-393, M-408, M-411, M-421, and M-426. [Comment last updated on 2/16/2006]

9. Comment on an item originating in DAQE-AN0009106-06 regarding

Buildings included in Groups 1 & 2: Group #1 designated buildings are the following:

E-501, E-517, E-520, E-532, E-543, E-506, E-517C, E-520A, E-533, M-508, E-510, E-519, E-520B, E-535, M-575, E-512, E-519C, E-521, E-536, M-711, E-515, E-519D, E-522, E-537, M-719, E-515A, E-519E, E-523, E-538, E-516, E-519H, E-529, and E-539.

Group 2 designated buildings are the following:

M-191A, M-191B, M-192, M-193A, M-193B M-326, M-327, M-336, M-336A, M-338, M-340A, M-345, M-348, M-366, M-381, M-381A, M-382, M-570, M-570A, M-574, M-580, M-581, M-583, M-586, M-590A, M-590B, M-591A, M-591B, M-591C, M-597B, M-600A, M-628B, M-643, M-643B, M-689A, M-696, M-697, M-698, M-701, S-503, S-546, S-547, S-549, S-551, S-554, S-555, S-556, S-560, S-561, S-562, S-563, S-564, S-565, S-566, S-567, S-568, S-569, S-570, S-571, S-572, S-573, S-574, S-575, S-576, S-577, S-578, S-579, S-580, S-581, S-604, S-605, S-606, S-607, S-608, S-611, S-612, S-613, S-614, S-615, S-616, S-617, S-628, S-631, S-632, S-633, S-635, E-543, M-136-Area, M-186-Area, M-191, M-193, M-199, M-321, M-321A, M-340, M-392, M-504, M-512, M-514, M-515, M-516, M-519, M-521, M-523, M-524, M-526, M-528, M-571, M-572, M-573, M-589, M-591, M-593, M-594, M-595, M-596, M-597, M-598, M-599, M-600, M-601, M-602, M-603, M-604, M-605, M-606, M-621, M-622, M-623, M-627, M-628, M-629, M-636, M-638, M-639, M-640, M-641, M-642, M-689, M-693, M-694, M-700, M-702, S-501, S-502, and S-550. [Comment last updated on 2/16/2006]

10. Comment on an item originating in DAQE-AN0009105-05 regarding Shuttle Motor Testing (Unit T-24 & T-97 Test Bays)

AO Condition 10: requires test firing of RSRM's to be limited to test bays T-24 and T-97. This condition is not being carried forth into the Title V permit since T-24 and T-97 are the only test bays capable of handling these large motors. [Comment last updated on 8/16/2005]

11. Comment on an item originating in DAQE-AN0009105-05 regarding Shuttle Motor Testing (Unit T-24 & T-97 Test Bays)

AO Condition 12: requires the removal of a gravel road behind test bay T-24. There is no longer a gravel road there. For that reason, AO condition 12 is not being carried forward into the Title V permit. [Comment last updated on 8/16/2005]

12. Comment on an item originating in DAQE-AN0009106-06 regarding

Buildings included in Group 8: I4 & I5, I10 & I10A-10H, I10L-10N, I18-022 & I22A, M56-M59 & M57A, M81, M81A, M81B, M81D, M81E, M86, M86A, M87, M101, M124, M128, M129, M143, M157, M173, M188, M196, M319, M346, M347, T75, T75B [Comment last updated on 2/16/2006]

13. Comment on an item originating in DAQE-AN0009106-06 regarding

Buildings included in Group 9: M-114, M-147, M-148, M-149, M-178, M-306, M-398, M-418, M-066, M-066A, M-066B, M-067, M-071, M-085, M-104, M-119, M-197, M-197A, M-303, M-304, M-322, M-369, M-397, M-412, M-415, M-416. [Comment last updated on 2/16/2006]

14. Comment on an item originating in DAQE-AN0009106-06 regarding

Buildings included in Group 10: M-009, M-009B, M-015, M-019A, M-035A, M-043, M-043A, M-043B, M-053, M-053A, M-083, M-190, M-323, M-337A, M-585, M-585A, M-588, M-687, and S-548. [Comment last updated on 2/16/2006]

15. Comment on an item originating in AO DAQE-042-96 regarding M-705 Waste Water Treatment Facility (Unit M-705)

Condition 6: The two 5.6 MM Btu/hr boilers have been removed. [Comment last updated on 12/15/2003]

16. Comment on an item originating in Various Approval Orders regarding permitted source (Source-wide)

Visible Emissions Observations VS. Inspections: Various approval orders call for units at ATK Thiokol (ATK) to verify compliance with visible emissions limitations using method 9. For some of those units, ATK has agreed to more stringent monitoring than method 9 observations (i.e. paint booths, dust collectors, and baghouses). The more stringent monitoring involves routine inspections of pollution control devices. It is reasonable to believe that visible emissions limitations will not be exceeded if the pollution control devices are properly maintained. Monitoring via routine inspections is more frequent, and hence more stringent than method 9 observations. [Comment last updated on 2/02/2006]

17. Comment on an item originating in DAQE-AN0009106-06 regarding Groups 1-10 (Unit GP 1-10)

AO condition 10: this approval order condition requires the installation, inspection, and maintenance of particulate filters on paint booths. This condition is incorporated as part of the visible emissions monitoring for those units. [Comment last updated on 2/16/2006]

18. Comment on an item originating in DAQE-AN0009106-06 regarding Group 2 Dust Collector with HEPA Filter (Unit M-702-DC01)

AO condition 11: this approval order condition requires the inspection, and maintenance of HEPA filters. This condition is incorporated as part of the visible emissions monitoring for those units. [Comment last updated on 2/16/2006]