CLASS II AIR QUALITY PERMIT

DRAFT PERMIT No. 103818

PERMITTEE:	**Freeport-McMoRan Bagdad, Inc.**
FACILITY:	**Bagdad Mine**
PLACE ID:	**1390**
DATE ISSUED:	**Date Pending**
EXPIRY DATE:	**Date Pending**

SUMMARY

This Class II renewal air quality permit is issued to Freeport-McMoRan Bagdad, Inc. (FMBI), the Permittee, for the continued operation of the copper and molybdenum ore mining and processing facility located at the terminus of Highway 96 in Bagdad, Arizona in Yavapai County. This permit renews and supersedes Permit No. 77414.

FMBI has the potential to emit PM_{10} and $PM_{2.5}$ above major source thresholds. FMBI has accepted voluntary emission limits and installed air pollution control equipment to stay under major source thresholds. This makes them a synthetic minor under Class II under Arizona Administrative Code (A.A.C.) R18-2-301.25. This includes Prevention of Significant Deterioration (PSD) major source thresholds (for attainment/non-categorical), and hazardous air pollutant (HAP) major source thresholds. Consequently, the facility is a non-Title V, minor PSD, and minor HAP source which requires a Class II air quality permit.

This permit is issued in accordance with Arizona Revised Statutes (A.R.S.) § 49-426. It contains requirements from Title 18, Chapter 2 of the A.A.C. and Title 40 of the Code of Federal Regulations (CFR). All definitions, terms, and conditions used in this permit conform to those in the A.A.C. R18-2-101 et. seq. and Title 40 of the CFR, except as otherwise defined in this permit.

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ATTACHMENT "A": GENERAL PROVISIONS

I. PERMIT EXPIRATION AND RENEWAL

A. This permit is valid for a period of five (5) years from the date of issuance.
[A.R.S. § 49-426.F, A.A.C. R18-2-306.A.1]

B. The Permittee shall submit an application for renewal of this permit at least six (6) months, but not more than eighteen (18) months, prior to the date of permit expiration.
[A.A.C. R18-2-304.D.2]

II. COMPLIANCE WITH PERMIT CONDITIONS

A. The Permittee shall comply with all conditions of this permit including all applicable requirements of the Arizona Revised Statutes (A.R.S.) Title 49, Chapter 3, and the air quality rules under Title 18, Chapter 2 of the Arizona Administrative Code. Any permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application. In addition, noncompliance with any federally enforceable requirement constitutes a violation of the Clean Air Act.
[A.A.C. R18-2-306.A.8.a]

B. 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.
[A.A.C. R18-2-306.A.8.b]

III. PERMIT REVISION, REOPENING, REVOCATION AND REISSUANCE, OR TERMINATION FOR CAUSE

A. The permit may be revised, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation and reissuance, termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
[A.A.C. R18-2-306.A.8.c]

B. The permit shall be reopened and revised under any of the following circumstances:

1. The Director or the EPA Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; and

[A.A.C. R18-2-321.A.1.c]

2. The Director or the EPA Administrator determines that the permit needs to be revised or revoked to assure compliance with the applicable requirements.

[A.A.C. R18-2-321.A.1.d]

C. Proceedings to reopen and issue a permit, including appeal of any final action relating to a permit reopening, shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable. Permit reopenings shall not result in a resetting of the five-year permit term.

[A.A.C. R18-2-321.A.2]

IV. POSTING OF PERMIT

A. The Permittee shall post this permit or a certificate of permit issuance on location where the equipment is installed in such a manner as to be clearly visible and accessible. All equipment covered by this permit shall be clearly marked with one of the following:

[A.A.C. R18-2-315.A]

1. Current permit number; or

[A.A.C. R18-2-315.A.1]

2. Serial number or other equipment ID number that is also listed in the permit to identify that piece of equipment.

[A.A.C. R18-2-315.A.2]

B. A copy of the complete permit shall be kept on site.

[A.A.C. R18-2-315.B]

V. FEE PAYMENT

The Permittee shall pay fees to the Director pursuant to A.R.S. § 49-426(E) and A.A.C. R18-2-326.

[A.A.C. R18-2-306.A.9 and -326]

VI. EMISSIONS INVENTORY QUESTIONNAIRE

A. The Permittee shall complete and submit to the Director an emissions inventory questionnaire no later than June 1 every three years beginning June 1, 2021. At the Director's request, the Permittee may be required to complete and submit emissions inventory questionnaires in addition to the triennial emissions inventory questionnaire. The Director shall notify the Permittee in writing of the decision to require additional emissions inventory questionnaires.

[A.A.C. R18-2-327.A.1.b]

B. The emissions inventory questionnaire shall be on an electronic or paper form provided by the Director and shall include the information required by A.A.C. R18-2-327.A.3 for the previous calendar year.

[A.A.C. R18-2-327.A.3]

C. The Permittee shall submit to the Director an amendment to an emissions inventory questionnaire, containing the documentation required by A.A.C. R18-2-327.A.3, whenever the Permittee discovers or receives notice, within two years of the original submittal, that incorrect or insufficient information was submitted to the Director by a previous emissions inventory questionnaire. The amendment shall be submitted to the Director within 30 days of discovery or receipt of notice. If the incorrect or insufficient information resulted in an incorrect annual emissions fee, the Director shall require that additional payment be made or shall apply an amount as a credit to a future annual emissions fee. The submittal of an amendment shall not subject the Permittee to an enforcement action or a civil or criminal penalty if the original submittal of incorrect or insufficient information was not due to willful neglect.

[A.A.C. R18-2-327.A.4]

VII. COMPLIANCE CERTIFICATION

A. The Permittee shall submit a compliance certification to the Director semiannually which describes the compliance status of the source with respect to each permit condition. The first certification shall be submitted no later than May 15th, and shall report the compliance status of the source during the period between October 1st of the previous year and March 31st of the current year. The second certification shall be submitted no later than November 15th, and shall report the compliance status of the source during the period between April 1st and September 30th of the current year.

[A.A.C. R18-2-309.2.a]

B. The compliance certifications shall include the following:

1. Identification of each term or condition of the permit that is the basis of the certification;

[A.A.C. R18-2-309.2.c.i]

2. 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;

[A.A.C. R18-2-309.2c.ii]

3. 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 certifications shall identify each deviation (including any deviations reported

pursuant to Condition XII.B of this Attachment) during the period covered by the certification and take it into account for consideration in the compliance certification

[A.A.C. R18-2-309.2.c.iii]

4. Other facts the Director may require in determining the compliance status of the source.

[A.A.C. R18-2-309.2.c.iv]

C. A progress report on all outstanding compliance schedules shall be submitted every six months beginning six months after permit issuance.

[A.A.C. R18-2-309.5.d]

VIII. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS

Any document required to be submitted by this permit, including reports, shall contain a certification by a responsible official of truth, accuracy, and completeness. 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.

[A.A.C. R18-2-309.3]

IX. INSPECTION AND ENTRY

Upon presentation of proper credentials, the Permittee shall allow the Director or the authorized representative of the Director to:

A. Enter upon the Permittee's premises where a source is located, emissions-related activity is conducted, or where records are required to be kept under the conditions of the permit;

[A.A.C. R18-2-309.4.a]

B. Have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;

[A.A.C. R18-2-309.4.b]

C. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;

[A.A.C. R18-2-309.4.c]

D. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements; and

[A.A.C. R18-2-309.4.d]

E. Record any inspection by use of written, electronic, magnetic and photographic media.

[A.A.C. R18-2-309.4.e]

X. PERMIT REVISION PURSUANT TO FEDERAL HAZARDOUS AIR POLLUTANT STANDARD

If this source becomes subject to a standard promulgated by the EPA Administrator pursuant to Section 112(d) of the Act, then the Permittee shall, within twelve months of the date on which the standard is promulgated, submit an application for a permit revision demonstrating how the source will comply with the standard.

[A.A.C. R18-2-304.D.3]

XI. ACCIDENTAL RELEASE PROGRAM

If this source becomes subject to the provisions of 40 CFR Part 68, then the Permittee shall comply with these provisions according to the time line specified in 40 CFR Part 68.

[40 CFR Part 68]

XII. EXCESS EMISSIONS AND PERMIT DEVIATIONS REPORTING

A. Excess Emissions Reporting

[A.A.C. R18-2-310.01.A, B, and C]

1. Excess emissions shall be reported as follows:

   a. The Permittee shall report to the Director any emissions in excess of the limits established by this permit. Such report shall be in two parts as specified below:

   [A.A.C. R18-2-310.01.A]

      (1) Notification by telephone or facsimile within 24 hours of the time when the Permittee first learned of the occurrence of excess emissions including all available information from Condition XII.A.1.b below.

      [A.A.C. R18-2-310.01.A.1]

      (2) Detailed written notification by submission of an excess emissions report within 72 hours of the notification pursuant to Condition XII.A.1.a(1) above.

      [A.A.C. R18-2-310.01.A.2]

   b. The report shall contain the following information:

      (1) Identity of each stack or other emission point where the excess emissions occurred;

      [A.A.C. R18-2-310.01.B.1]

      (2) Magnitude of the excess emissions expressed in the units of the applicable emission limitation and the

operating data and calculations used in determining the magnitude of the excess emissions;

[A.A.C. R18-2-310.01.B.2]

(3) Time and duration, or expected duration, of the excess emissions;

[A.A.C. R18-2-310.01.B.3]

(4) Identity of the equipment from which the excess emissions emanated;

[A.A.C. R18-2-310.01.B.4]

(5) Nature and cause of the emissions;

[A.A.C. R18-2-310.01.B.5]

(6) If the excess emissions were the result of a malfunction, steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunctions;

[A.A.C. R18-2-310.01.B.6]

(7) Steps that were or are being taken to limit the excess emissions; and

[A.A.C. R18-2-310.01.B.7]

(8) If the excess emissions resulted from start-up or malfunction, the report shall contain a list of the steps taken to comply with the permit procedures governing source operation during periods of startup or malfunction.

[A.A.C. R18-2-310.01.B.8]

2. In the case of continuous or recurring excess emissions, the notification requirements shall be satisfied if the source provides the required notification after excess emissions are first detected and includes in such notification an estimate of the time the excess emissions will continue. Excess emissions occurring after the estimated time period, or changes in the nature of the emissions as originally reported, shall require additional notification pursuant to Condition XII.A.1 above.

[A.A.C. R18-2-310.01.C]

B. Permit Deviations Reporting

The Permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the applicable requirement contains a definition of

prompt or otherwise specifies a timeframe for reporting deviations, that definition or timeframe shall govern. Where the applicable requirement does not address the timeframe for reporting deviations, the Permittee shall submit reports of deviations according to the following schedule:

1. Notice that complies with Condition XII.A above is prompt for deviations that constitute excess emissions;

[A1.A.C. R18-2-306.A.5.b.i]

2. Notice that is submitted within two (2) working days of discovery of the deviation is prompt for deviations of permit conditions identified by Condition I.D.1 of Attachment "B";

[A.A.C. R18-2-306.A.5.b.ii]

3. Except as provided in Conditions XII.B.1 and 2, prompt notification of all other types of deviations shall be semiannually, concurrent with the semiannual compliance certifications required in Section VII, and can be submitted via myDEQ, the Arizona Department of Environmental Quality's online portal.

[A.A.C. R18-2-306.A.5.b.ii]

XIII. RECORDKEEPING REQUIREMENTS

A. The Permittee shall keep records of all required monitoring information including, but not limited to, the following:

1. The date, place as defined in the permit, and time of sampling or measurements;

[A.A.C. R18-2-306.A.4.a.i]

2. The date(s) any analyses were performed;

[A.A.C. R18-2-306.A.4.a.ii]

3. The name of the company or entity that performed the analyses;

[A.A.C. R18-2-306.A.4.a.iii]

4. A description of the analytical techniques or methods used;

[A.A.C. R18-2-306.A.4.a.iv]

5. The results of analyses; and

[A.A.C. R18-2-306.A.4.a.v]

6. The operating conditions as existing at the time of sampling or measurement.

[A.A.C. R18-2-306.A.4.a.vi]

B. The Permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support

information includes all calibration and maintenance records and all original strip-chart recordings or other data recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

[A.A.C. R18-2-306.A.4.b]

XIV. DUTY TO PROVIDE INFORMATION

A. The Permittee shall furnish to the Director, within a reasonable time, any information that the Director may request in writing to determine whether cause exists for revising, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the Permittee shall also furnish to the Director copies of records required to be kept by the permit. For information claimed to be confidential, the Permittee shall furnish an additional copy of such records directly to the EPA Administrator along with a claim of confidentiality.

[A.A.C. R18-2-304.G and -306.A.8.e]

B. If the Permittee has failed to submit any relevant facts or has submitted incorrect information in the permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.

[A.A.C. R18-2-304.H]

XV. PERMIT AMENDMENT OR REVISION

The Permittee shall apply for a permit amendment or revision for changes to the facility which does not qualify for a facility change without revision under Section XVII below, as follows:

A. Facility Changes that Require a Permit Revision;

[A.A.C. R18-2-317.01]

B. Administrative Permit Amendment;

[A.A.C. R18-2-318]

C. Minor Permit Revision; and

[A.A.C. R18-2-319]

D. Significant Permit Revision.

[A.A.C. R18-2-320]

The applicability and requirements for such action are defined in the above referenced regulations.

XVI. FACILITY CHANGE WITHOUT A PERMIT REVISION

A. Except for a physical change or change in the method of operation at a Class II source requiring a permit revision under A.A.C. R18-2-317.01, or a

change subject to logging or notice requirements in Condition XVI.B, a change at a Class II source shall not be subject to revision, notice, or logging requirements under this Section.

[A.A.C. R18-2-317.02.A]

B. The following changes may be made if the source keeps on site records of the changes according to Condition XVI.H below:

[A.A.C. R18-2-317.02.B]

1. Implementing an alternative operating scenario, including raw materials changes;

[A.A.C. R18-2-317.02.B.1]

2. Changing process equipment, operating procedures, or making any other physical change if the permit requires the change to be logged;

[A.A.C. R18-2-317.02.B.2]

3. Engaging in any new insignificant activity listed in A.A.C. R18-2-101.68 but not listed in the permit;

[A.A.C. R18-2-317.02.B.3]

4. Replacing an item of air pollution control equipment listed in the permit with an identical (same model, different serial number) item. The Director may require verification of efficiency of the new equipment by performance tests; and

[A.A.C. R18-2-317.02.B.4]

5. A change that results in a decrease in actual emissions if the source wants to claim credit for the decrease in determining whether the source has a net emissions increase for any purpose. The logged information shall include a description of the change that will produce the decrease in actual emissions. A decrease that has not been logged is creditable only if the decrease is quantifiable, enforceable, and otherwise qualifies as a creditable decrease.

A.A.C. R18-2-317.02.B.5]

C. The following changes may be made if the source provides written notice to the Department in advance of the change as provided below:

[A.A.C. R18-2-317.02.C]

1. Replacing an item of air pollution control equipment listed in the permit with one that is not identical but that is substantially similar and has the same or better pollutant removal efficiency: seven days. The Director may require verification of efficiency of the new equipment by performance tests;

[A.A.C. R18-2-317.02.C.1]

2. A physical change or change in the method of operation that increases actual emissions more than 10% of the major source

threshold for any conventional pollutant but does not require a permit revision: seven days;

[A.A.C. R18-2-317.02.C.2]

3. Replacing an item of air pollution control equipment listed in the permit with one that is not substantially similar but that has the same or better efficiency: 30 days. The Director may require verification of efficiency of the new equipment by performance tests;

[A.A.C. R18-2-317.02.C.3]

4. A change that would trigger an applicable requirement that already exists in the permit: 30 days unless otherwise required by the applicable requirement;

[A.A.C. R18-2-317.02.C.4]

5. A change that amounts to reconstruction of the source or an affected facility: seven days. For purposes of this subsection, reconstruction of a source or an affected facility shall be presumed if the fixed capital cost of the new components exceeds 50% of the fixed capital cost of a comparable entirely new source or affected facility and the changes to the components have occurred over the 12 consecutive months beginning with commencement of construction; and

[A.A.C. R18-2-317.02.C.5]

6. A change that will result in the emissions of a new regulated air pollutant above an applicable regulatory threshold but that does not trigger a new applicable requirement for that source category: 30 days. For purposes of this requirement, an applicable regulatory threshold for a conventional air pollutant shall be 10% of the applicable major source threshold for that pollutant.

D. For each change under Condition XVI.C, the written notice shall be by certified mail or hand delivery and shall be received by the Director the minimum amount of time in advance of the change. Notifications of changes associated with emergency conditions, such as malfunctions necessitating the replacement of equipment, may be provided with less than required notice, but must be provided as far in advance of the change, or if advance notification is not practicable, as soon after the change as possible. The written notice shall include:

[A.A.C. R18-2-317.02.D]

1. When the proposed change will occur,

[A.A.C. R18-2-317.02.D.1]

2. A description of the change,

[A.A.C. R18-2-317.02.D.2]

3. Any change in emissions of regulated air pollutants, and

[A.A.C. R18-2-317.02.D.3]

4. Any permit term or condition that is no longer applicable as a result of the change.

[A.A.C. R18-2-317.02.D.4]

E. The permit shield described in A.A.C. R18-2-325 shall not apply to any change made under this Section, other than implementation of an alternate operating scenario under Condition XVI.B.1.

[A.A.C. R18-2-317.02.F]

F. Notwithstanding any other part of this Section, the Director may require a permit to be revised for any change that, when considered together with any other changes submitted by the Permittee under this Section over the term of the permit, constitutes a change under subsection A.A.C. R18-2-317.01.A.

[A.A.C. R18-2-317.02.G]

G. A copy of all logs required under Condition XVI.B shall be filed with the Director within 30 days after each anniversary of the permit issuance date. If no changes were made at the source requiring logging, a statement to that effect shall be filed instead.

[A.A.C. R18-2-317.02.I]

H. Logging Requirements

[Arizona Administrative Code, Appendix 3]

1. Each log entry required by a change under Condition XVI.B shall include at least the following information:

   a. A description of the change, including:

      (1) A description of any process change;

      (2) A description of any equipment change, including both old and new equipment descriptions, model numbers, and serial numbers, or any other unique equipment ID number; and

      (3) A description of any process material change.

   b. The date and time that the change occurred.

   c. The provisions of Condition XVI.B that authorizes the change to be made with logging.

   d. The date the entry was made and the first and last name of the person making the entry.

2. Logs shall be kept for five (5) years from the date created. Logging shall be performed in indelible ink in a bound log book with sequentially number pages, or in any other form, including electronic format, approved by the Director.

XVII. TESTING REQUIREMENTS

A. The Permittee shall conduct performance tests as specified in the permit and at such other times as may be required by the Director.

[A.A.C. R18-2-312.A]

B. Operational Conditions during Performance Testing

Performance tests shall be conducted under such conditions as the Director shall specify to the plant operator based on representative performance of the source. The Permittee shall make available to the Director such records as may be necessary to determine the conditions of the performance tests. Operations during periods of start-up, shutdown, and malfunction (as defined in A.A.C. R18-2-101) shall not constitute representative conditions of performance tests unless otherwise specified in the applicable standard.

[A.A.C. R18-2-312.C]

C. Performance Tests shall be conducted and data reduced in accordance with the test methods and procedures contained in the Arizona Testing Manual unless modified by the Director pursuant to A.A.C. R18-2-312.B.

[A.A.C. R18-2-312.B]

D. Test Plan

At least 14 working days prior to performing a test, the Permittee shall submit a test plan to the Director, which must include the following, in addition to all other applicable requirements, as identified in the Arizona Testing Manual:

[A.A.C. R18-2-312.B]

1. Test duration;

2. Test location(s);

3. Test method(s); and

4. Source operation and other parameters that may affect test results.

E. Stack Sampling Facilities

The Permittee shall provide, or cause to be provided, performance testing facilities as follows:

[A.A.C. R18-2-312.E]

1. Sampling ports adequate for test methods applicable to the facility;

2. Safe sampling platform(s);

3. Safe access to sampling platform(s); and

4. Utilities for sampling and testing equipment.

F. Interpretation of Final Results

Each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic mean of the results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs is required to be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the Permittee's control, compliance may, upon the Director's approval, be determined using the arithmetic mean of the results of the other two runs. If the Director or the Director's designee is present, tests may only be stopped with the Director's or such designee's approval. If the Director or the Director's designee is not present, tests may only be stopped for good cause. Good cause includes: forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the Permittee's control. Termination of any test without good cause after the first run is commenced shall constitute a failure of the test. Supporting documentation, which demonstrates good cause, must be submitted.

[A.A.C. R18-2-312.F]

G. Report of Final Test Results

A written report of the results of performance tests conducted pursuant to 40 CFR 60 and 63, shall be submitted to the Director within 60 days after the test is performed. A written report of the results of all other performance tests shall be submitted within 4 weeks after the test is performed, or as otherwise provided in the Arizona Testing Manual. All performance testing reports shall be submitted in accordance with the Arizona Testing Manual and A.A.C. R18-2-312.A.

[A.A.C. R18-2-312.A and B]

H. Extension of Performance Test Deadline

For performance testing required under Condition XVII.A above, the Permittee may request an extension to a performance test deadline due to a force majeure event as follows:

[A.A.C. R18-2-312.J]

1. If a force majeure event is about to occur, occurs, or has occurred for which the Permittee intends to assert a claim of force majeure, the Permittee shall notify the Director in writing as soon as practicable following the date the Permittee first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline. The notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall be given as soon as practicable.
[A.A.C. R18-2-312.J.1]

2. The Permittee shall provide to the Director a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the Permittee proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure event occurs.
[A.A.C. R18-2-312.J.2]

3. The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Director. The Director shall notify the Permittee in writing of approval or disapproval of the request for an extension as soon as practicable.
[A.A.C. R18-2-312.J.3]

4. Until an extension of the performance test deadline has been approved by the Director under Conditions XVII.H.1, 2, and 3 above, the Permittee remains subject to the requirements of Section XVII.
[A.A.C. R18-2-312.J.4]

5. For purposes of this Section XVII, a “force majeure event” means an event that will be or has been caused by circumstances beyond the control of the Permittee, its contractors, or any entity controlled by the Permittee that prevents it from complying with the regulatory requirement to conduct performance tests within the specified timeframe despite the Permittee's best efforts to fulfill the obligation. Examples of such events are acts of nature, acts of war or terrorism, or equipment failure or safety hazard beyond the control of the Permittee.
[A.A.C. R18-2-312.J.5]

XVIII. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

[A.A.C. R18-2-306.A.8.d]

XIX. SEVERABILITY CLAUSE

The provisions of this permit are severable. 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.

[A.A.C. R18-2-306.A.7]

XX. PERMIT SHIELD

Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements identified in the portions of this permit subtitled “Permit Shield”. The permit shield shall not apply to minor revisions pursuant to Condition XV.C of this Attachment and any facility changes without a permit revision pursuant to Section XVI of this Attachment.

[A.A.C. R18-2-317.F, - 320, and -325]

XXI. PROTECTION OF STRATOSPHERIC OZONE

If this source becomes subject to the provisions of 40 CFR Part 82, then the Permittee shall comply with these provisions accordingly.

[40 CFR Part 82]

XXII. APPLICABILITY OF NSPS/NESHAP GENERAL PROVISIONS

For all equipment subject to a New Source Performance Standard or a National Emission Standard for Hazardous Air Pollutants, the Permittee shall comply with all applicable requirements contained in Subpart A of Title 40, Chapter 60 and Chapter 63 of the Code of Federal Regulation.

[40 CFR Part 60 Subpart A and Part 63 Subpart A]

ATTACHMENT "B": SPECIFIC CONDITIONS

I. FACILITY-WIDE REQUIREMENTS

A. Applicability

This Section applies to each piece of equipment as specified in other Sections of Attachment "B".

B. Opacity

1. Instantaneous Surveys and Six-Minute Observations

a. The Permittee shall have on site or on call a person certified in EPA Reference Method 9.

[A.A.C. R18-2-306.A.3.c]

b. Instantaneous Surveys

Any instantaneous survey required by this permit shall be conducted by an EPA Reference Method 9 Certified Observer.

[A.A.C. R18-2-311.B]

c. Six-Minute Observations

Any six-minute observation required by this permit shall be conducted by an EPA Reference Method 9 Certified Observer.

[A.A.C. R18-2-311.B]

2. Monitoring, Recordkeeping, and Reporting Requirements

[A.A.C. R18-2-306.A.3.c]

a. At the frequency specified in the following sections of this permit, the Permittee shall conduct an instantaneous survey of visible emissions from both process stack sources, when in operation, and fugitive dust sources.

b. If the visible emissions on an instantaneous basis appears less than or equal to the applicable opacity standard, then the Permittee shall keep a record of the name of the observer, the date on which the instantaneous survey was made, and the results of the instantaneous survey.

c. If the visible emissions on an instantaneous basis appears greater than the applicable opacity standard, then the

Permittee shall immediately conduct a six-minute observation of the visible emissions.

(1) If the six-minute observation of the visible emissions is less than or equal to the applicable opacity standard, then the Permittee shall record the name of the observer, the date on which the six-minute observation was made, and the results of the six-minute observation.

(2) If the six-minute observation of the visible emissions is greater than the applicable opacity standard, then the Permittee shall do the following:

(a) Adjust or repair the controls or equipment to reduce opacity to less than or equal to the opacity standard;

(b) Record the name of the observer, the date on which the six-minute observation was made, the results of the six-minute observation, and all corrective action taken; and

(c) Report the event as an excess emission for opacity in accordance with Condition XII.A of Attachment "A".

(d) Conduct another six-minute observation to document the effectiveness of the adjustments or repairs completed.

C. Operating Limitations

1. The Permittee shall operate and maintain all air pollution control equipment and fuel combustion equipment identified in Attachment "C" in accordance with manufacturer-supplied operations and maintenance instructions except as specifically permitted by other conditions in Attachment "B". If manufacturer-supplied operations and maintenance instructions are: (1) not available; (2) not applicable; or (3) at the Permittee's election with approval by the Director, the Permittee shall prepare an Operation and Maintenance Plan, which provides adequate information to properly operate and maintain the equipment. The Permittee shall operate and maintain the equipment in accordance with any such Operation and Maintenance Plan prepared by the Permittee.

[A.A.C. R18-2-306.A.2]

2. *The Permittee shall limit the amount of total ore transferred to the following conveyors from the coarse ore stockpile to no more than 65,700,000 tons per year on a 12-month rolling basis:*

   a. *GL1 Belt Conveyor A (GL1-BCA);*

   b. *GL2 Belt Conveyor A (GL2-BCA);*

   c. *GL3 Belt Conveyor A (GL3-BCA);*

   d. *GL4 Belt Conveyor A (GL4-BCA); and*

   e. *GL5 Belt Conveyor A (GL5-BCA).*

[A.A.C. R18-2-306.01 and -331.A.3.a]
[Material Permit Conditions are indicated with underlines and italics]

D. Recordkeeping and Reporting Requirements

1. Deviations from the following Attachment "B" permit conditions shall be promptly reported in accordance with Condition XII.B.2 of Attachment "A":

[A.A.C. R18-2-306.A.5.b]

   a. Condition I.D.4;

   b. Conditions II.A.3, II.A.4.b, II.B.4, II.B.5.g, II.B.6, II.C.3, II.D.1.c, II.D.2.c, and II.D.3.c;

   c. Condition III.A.4, III.A.5.e, and III.B.3;

   d. Condition IV.A.4.a ;

   e. Conditions V.A.3, V.A.4.d, V.B.4, and V.B.6;

   f. Condition VI.A.4.a;

   g. Condition VIII.B.3.b; and

   h. Conditions IX.A.2.b and IX.B.2.b.

2. The Permittee shall maintain, on-site, records of the manufacturer supplied operations and maintenance instructions or Operation and Maintenance Plan for minimizing emissions for all equipment identified in Attachment "C".

[A.A.C. R18-2-306.A.3.c]

3. The Permittee shall submit reports of all monitoring activities required in Attachment "B" along with the semiannual compliance certifications required by Section VII of Attachment "A."

[A.A.C. R18-2-306.A.5.a]

4. The Permittee shall keep a record of the total ore transferred each month to the conveyors from the coarse ore stockpile in Conditions I.C.2.a through I.C.2.e. No later than the 10th day of each month, the Permittee shall calculate the 12-month running total of the total ore transferred for the immediately preceding 12 consecutive calendar months to demonstrate compliance with Condition I.C.2.

[A.A.C. R18-2-306.A.3.c]

E. Nothing in this permit shall alter or affect the following:

[A.A.C. R18-2-325.B]

1. The provisions of Section 303 of the Clean Air Act including the authority of the EPA Administrator under that Section;

2. The liability of the facility for any violation of applicable requirements prior to or at the time of permit issuance;

3. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act;

4. The ability of the EPA Administrator or the Director to obtain information from the facility pursuant to Section 114 of the Clean Air Act, or any provision of state law; and

5. The authority of the Director to require compliance with new applicable requirements adopted after the permit is issued.

II. REQUIREMENTS FOR METALLIC MINERAL PROCESSING OPERATIONS

This Section applies to equipment and operations associated with metallic mineral processing operations.

A. Facilities Subject to the Standards of Performance for Existing Nonferrous Metals Industry Sources Under A.A.C. R18-2-721

1. Applicability

The facilities subject to the requirements of this Condition II.A are identified in the last column of the Equipment List in Attachment "C."

2. Emission Limitations and Standards

a. Particulate Matter

(1) The Permittee shall not cause, allow, or permit the discharge of particulate matter into the atmosphere in any one hour from metallic mineral processing operation in total quantities in excess of the amounts calculated by one of the following equations:

[A.A.C. R18-2-721.B]

(a) For process sources having a process weight rate of 60,000 pounds per hour (30 tons per hour) or less, the maximum allowable emissions shall be determined by the following equation:

$E = 4.10P^{0.67}$

Where:

E = the maximum allowable particulate emissions rate in pounds-mass per hour; and

P = the process weight rate in tons-mass per hour.

(b) For process sources having a process weight greater than 60,000 pounds per hour (30 tons per hour), the maximum allowable emissions shall be determined by the following equation:

$E = 55.0P^{0.11} - 40$

Where “E” and “P” are defined as indicated in Condition II.A.2.a(1)(a).

(2) For purposes of Condition II.A.2.a(1), the total process weight from all similar units employing a similar type process shall be used in determining the maximum allowable emission of particulate matter.

[A.A.C. R18-2-721.D]

b. Opacity

(1) The opacity of any plume or effluent from any existing, stationary, point source shall not be greater than 20%.

[A.A.C. R18-2-702.B.3]

(2) If the presence of uncombined water is the only reason for an exceedance of the visible emissions requirement

in Condition II.A.2.b(1), the exceedance shall not constitute a violation of the applicable opacity limit.
[A.A.C. R18-2-702.C]

3. Air Pollution Control Requirements

a. *When in operation, the Permittee shall, to the extent practicable operate wet suppression on the following emission units to minimize particulate matter emissions and comply with the applicable emission limitations and standards of Condition II.A.2.* Wet suppression options include water sprays, surfactant use, water jets, foggers, inherent moisture content (including moisture from upstream water sprays), or other equivalent control methods.
[A.A.C. R18-2-306.01.A and -331.A.3.a and e]
[Material Permit Conditions are indicated by underlines and italics]

(1) *Unloading Ore to Primary Crusher 1 (Process #001-6);*

(2) *Unloading Ore to Primary Crusher 2 (Process #001-7);*

(3) *Overland Conveyor 2 to Overland Conveyor 3 (Process #001-11);*

(4) *Overland Conveyor 4 to Radial Stacker 5 (Process #001-9);*

(5) *Radial Stacker 5 to Coarse Ore Stockpiles 1/4 (Process #001-4);*

(6) *Radial Stacker 5 to Free-Standing Stacker 6 (Process #001-10); and*

(7) *Free-Standing Stacker 6 to Coarse Ore Stockpile 5 (Process #001-3).*

b. *When in operation, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable,* maintain and *operate Scrubber C18 (Process #001-1 prior to reconstruction of Primary Crusher 1) in a manner consistent with good air pollution control practices for minimizing particulate matter emissions*.
[A.A.C. R18-2-306.01.A and -331.A.3.e]
[Material Permit Conditions are indicated by underlines and italics]

4. Monitoring, Recordkeeping, and Reporting Requirements

a. The Permittee shall record the daily process rates and hours of operation of all material handling facilities.

[A.A.C. R18-2-721.F]

b. Except for the PC1 Rock Breaker (2110-RKB-0021) and the Rock Breaker (RB), the Permittee shall conduct the periodic opacity monitoring method specified in Condition I.B on a biweekly basis for all emission units subject to Condition II.A. The periodic opacity monitoring for 2110-RKB-0021 and RB is satisfied by the periodic opacity monitoring required by Condition II.B.5.g for Primary Crusher 1 (2110-CRG-0021) and Primary Crusher 2 (PC2), respectively.

[A.A.C. R18-2-306.A.3.c]

5. Permit Shield

Compliance with the requirements of Condition II.A shall be deemed compliance with A.A.C. R18-2-702.B.3, 702.C, 721.B, 721.D, and 721.F.

[A.A.C. R18-2-325]

B. Facilities Subject to the NSPS Requirements for Metallic Mineral Processing Plants Under 40 CFR 60 Subpart LL

1. Applicability

The facilities subject to the requirements of this Condition II.B are identified in the last column of the Equipment List in Attachment "C."

2. Emission Limitations and Standards

a. Particulate Matter

On and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, the Permittee shall not cause to be discharged into the atmosphere from the metallic mineral processing operation any stack emissions that contain particulate matter in excess of 0.05 grams per dry standard cubic meter (0.05 g/dscm).

[40 CFR 60.382(a)(1)]

b. Opacity

(1) *On and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, the Permittee shall not cause to be discharged into the atmosphere from an affected facility any stack emissions that exhibit greater than 7% opacity, unless the stack*

emissions are discharged from an affected facility using a wet scrubbing emission control device.

[40 CFR 60.382(a)(2) A.A.C. R18-2-331.A.3.f]
[Material Permit Conditions are indicated by underlines and italics]

(2) *On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, the Permittee shall not cause to be discharged into the atmosphere from an affected facility any process fugitive emissions that exhibit greater than 10% opacity*.

[40 CFR 60.382(b) A.A.C. R18-2-331.A.3.f]
[Material Permit Conditions are indicated by underlines and italics]

3. Operational Limitations

When in operation, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate any affected facility 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 Director which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

[40 CFR 60.11(d)]

4. Air Pollution Control Requirements

When in operation, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and *operate the following pollution control devices in a manner consistent with good air pollution control practices for minimizing particulate matter emissions.*

[A.A.C. R18-2-306.01.A and -331.A.3.e]
[Material Permit Conditions are indicated by underlines and italics]

a. *Scrubber C18 (Process #001-1 following reconstruction of Primary Crusher 1);*

b. *Dust Collector C51 (Process #001-5);*

c. *GL1 Dust Collector C1 (Process #002-1);*

d. *GL2 Dust Collector C2 (Process #002-2);*

e. *GL3 Dust Collector DC3 (Process #002-3);*

f. *GL4 Dust Collector DC4 (Process #02-4);*

g. *GL5 Dust Collector DC5 (Process #002-6);*

h. *Venturi Scrubber or Venturi Scrubber (alternate) (Process #047-5);*

i. *Molybdenum Concentrate Dust Collector 1 (Process #047-10); and*

j. *Molybdenum Concentrate Dust Collector 2 (Process #047-13).*

5. Monitoring, Recordkeeping, and Reporting Requirements

a. *The Permittee shall calibrate,* maintain, and *operate a monitoring device for the continuous measurement of the change in pressure of the gas stream through the scrubber using a wet scrubbing emission control device. The monitoring device shall be certified by the manufacturer to be accurate within ±250 pascals (±1-inch water) gauge pressure and shall be calibrated on an annual basis in accordance with manufacturer's instructions.*

[40 CFR 60.384(a), A.A.C. R18-2-331.A.3.c]
[Material Permit Conditions are indicated by underlines and italics]

b. *The Permittee shall calibrate,* maintain, and operate *a monitoring device for the continuous measurement of the scrubbing liquid flow rate to a wet scrubber for any affected facility using any type of wet scrubbing emission control device. The monitoring device shall be certified by the manufacturer to be accurate within ±5% of design scrubbing liquid flow rate and shall be calibrated on at least an annual basis in accordance with manufacturer's instructions.*

[40 CFR 60.384(b), A.A.C. R18-2-331.A.3.c]
[Material Permit Conditions are indicated by underlines and italics]

c. Except for system breakdowns, repairs, calibration checks, and zero and span adjustments, the monitoring devices in Condition II.B.5.a and Condition II.B.5.b shall be in continuous operation whenever the scrubbers are operating. The monitoring devices shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

[A.A.C. R18-2-306.A.3.c]

d. During the initial performance test of a wet scrubber, and at least weekly thereafter, the Permittee shall record the

measurements of both the change in pressure of the gas stream across the scrubber and the scrubbing liquid flow rate.
[40 CFR 60.385(b)]

e. After the initial performance test of a wet scrubber, the Permittee shall submit semiannual reports to the Director of occurrences when the measurements of the scrubber pressure loss (or gain) or liquid flow rate differ by more than ±30% from the average obtained during the most recent performance test.
[40 CFR 60.385(c)]

f. The reports required under Condition II.B.5.e shall be postmarked within 30 days following the end of the second and fourth calendar quarters.
[40 CFR 60.385(d)]

g. The Permittee shall conduct the periodic opacity monitoring method specified in Condition I.B above on a biweekly basis for all emission units subject to an opacity standard in Condition II.B.
[A.A.C. R18-2-306.A.3.c]

6. Performance Testing Requirements

a. Initial Performance Test

(1) The Permittee shall conduct initial performance tests for all new affected facilities as specified in Condition II.B.6.a(2) through Condition II.B.6.a(6).
[40 CFR 60.8, 60.11]

(2) For the purpose of demonstrating initial compliance with Condition II.B.2.a, the Permittee shall conduct a performance test and submit to the Director a written report of the results of the test as specified in 40 CFR 60.8(a).
[40 CFR 60.8, 60.385(a)]

(3) For the purpose of demonstrating initial compliance with Condition II.B.2.b(1), opacity observations shall be conducted concurrently with the performance tests required in Condition II.B.6.a(2) except as allowed in 40 CFR 60.11(e)(1). The minimum total time of observations shall be 3 hours (30 6-minute averages). The Permittee shall report to the Director the opacity results along with the results of the initial performance test required by Condition II.B.6.a(2).

[40 CFR 60.11]

(4) For the purpose of demonstrating initial compliance with Condition II.B.2.b(2), opacity observations shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated but no later than 180 days after initial startup of the facility. The minimum total time of observations shall be 3 hours (30 6-minute averages). The Permittee shall report to the Director the opacity results as specified in 40 CFR 60.8(a).

[40 CFR 60.8, 60.11]

(5) In conducting the performance tests required in 40 CFR 60.8, the Permittee shall use as reference methods and procedures the test methods in Appendix A of 40 CFR 60 or other methods and procedures as specified in 40 CFR 60 Subpart LL, except as provided in 40 CFR 60.8(b).

[40 CFR 60.386(a)]

(6) The Permittee shall determine compliance with the particulate matter standards in Condition II.B.2 as follows:

[40 CFR 60.386(b)]

(a) Method 5 or 17 shall be used to determine the particulate matter concentration. The sample volume for each run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121 °C (250 °F)) in order to prevent water condensation on the filter.

(b) Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity from stack emissions and process fugitive emissions. The observer shall read opacity only when emissions are clearly identified as emanating solely from the affected facility being observed. A single visible emission observer may conduct

visible emission observations for up to three fugitive, stack, or vent emission points within a 15-second interval. This option is subject to the following limitations:

(i) No more than three emission points are read concurrently;

(ii) All three emission points shall be within a 70° viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points; and

(iii) If an opacity reading for any one of the three emission points is within 5 percent opacity of the application standard, then the observer shall stop taking readings for the other two points and continue reading just that single point.

b. To demonstrate continued compliance with the emission limitation in Condition II.B.2.a, the Permittee shall conduct the performance tests required by Condition II.C.3.

[A.A.C. R18-2-306.A.3.c and -312]

c. To comply with Condition II.B.5.e, the Permittee shall use the monitoring devices in Condition II.B.5.a and Condition II.B.5.b to determine the pressure loss of the gas stream through the scrubber and scrubbing liquid flow rate at any time during each particulate matter performance test run, and the average of the three determinations shall be computed.

[40 CFR 60.386(c)]

7. Permit Shield

Compliance with the requirements of Condition II.B shall be deemed compliance with 40 CFR 60.8, 60.11, 60.382(a)(1), 60.382(a)(2), 60.382(b), 60.384(a), 60.384(b), 60.385(a), 60.385(b), 60.385(c), 60.385(d), 60.386(a), 60.386(b), and 60.386(c).

[A.A.C. R18-2-325]

C. Voluntary Emission Limitations and Standards

1. Applicability

The facilities subject to the requirements of this Condition II.C are identified in the last column of the Equipment List in Attachment "C".

2. Emission Limitations and Standards

a. *The Permittee shall not allow the emissions of PM and PM_{10} from the processes identified in Section A of the Table in Attachment "D" to exceed 0.0135 gr/dscf as measured at the emission exhaust point to the atmosphere.*

[A.A.C. R 18-2-306.01.A and -331.A.3.a]
[Material Permit Conditions are indicated by underlines and italics]

b. *The Permittee shall not allow the emissions of PM and PM_{10} from the processes identified in Section B of the Table in Attachment "D" to exceed 0.0124 gr/dscf as measured at the emission exhaust point to the atmosphere.*

[A.A.C. R 18-2-306.01.A and -331.A.3.a]
[Material Permit Conditions are indicated by underlines and italics]

c. *The Permittee shall not allow the emissions of PM and PM_{10} from the processes identified in Section C of the Table in Attachment "D" to exceed 0.0085 gr/dscf as measured at the emission exhaust point to the atmosphere.*

[A.A.C. R 18-2-306.01.A and -331.A.3.a]
[Material Permit Conditions are indicated by underlines and italics]

d. *The Permittee shall not allow the emissions of PM and PM_{10} from the processes identified in Section D of the Table in Attachment "D" to exceed 0.004 gr/dscf as measured at the emission exhaust point to the atmosphere.*

[A.A.C. R 18-2-306.01.A and -331.A.3.a]
[Material Permit Conditions are indicated by underlines and italics]

e. *The Permittee shall not allow the emissions of PM and PM_{10} from the processes identified in Section E of the table in Attachment "D" to exceed 0.003 gr/dscf, as measured at the emission exhaust point to the atmosphere.*

[A.A.C. R 18-2-306.01.A and -331.A.3.a]
[Material Permit Conditions are indicated by underlines and italics]

f. *The Permittee shall not allow the emissions of PM and PM_{10} from the processes identified in Section F of the table in Attachment "D" to exceed 0.0023 gr/dscf, as measured at the emission exhaust point to the atmosphere.*

[A.A.C. R18-2-306.01. A and -331. A.3.a]
[Material Permit Conditions are indicated by underlines and italics]

g. *The Permittee shall not allow the emissions of PM and PM_{10} from the processes identified in Section G of the Table in*

Attachment "D" to exceed 0.002 gr/dscf as measured at the emission exhaust point to the atmosphere.

[A.A.C. R 18-2-306.01.A and -331.A.3.a]
[Material Permit Conditions are indicated by underlines and italics]

h. *The Permittee shall not allow the emissions of PM and PM_{10} from the processes identified in Section H of the table in Attachment "D" to exceed 0.001 gr/dscf, as measured at the emission exhaust point to the atmosphere.*

[A.A.C. R 18-2-306.01.A and -331.A.3.a]
[Material Permit Conditions are indicated by underlines and italics]

3. Performance Testing Requirements

a. The Permittee shall within 60 days of achieving the maximum production rate, but no later than 180 days of the restart of Primary Crusher 1 (PC1) under the Primary Operating Scenario or the initial startup of the pollution control devices listed in Condition II.C.3.a(2) through II.C.3.a(13), conduct performance tests for PM_{10} and PM on the stacks of the following pollution control devices to demonstrate compliance with the emission limitations in Condition II.B.2.a and/or Condition II.C.2.

[A.A.C. R18-2-306.A.3.c and -312]

(1) Scrubber C18 (Process #001-1);

(2) PC1 Dust Collector 1 (AOS1) (Process #001-12 (AOS1));

(3) Dust Collector C51 (AOS1) (Process #001-5 (AOS1));

(4) PC1 CCC1 Dust Collector 2 (AOS1) (Process #001-13 (AOS1));

(5) PC1 CCC2 Dust Collector 3 (AOS1) (Process #001-14 (AOS1));

(6) PC1 CCC3 Dust Collector 4 (AOS1) (Process #001-15 (AOS1));

(7) Coarse Ore Reclaim Conveyor 1 Dust Collector 5 (AOS1) (Process #002-7 (AOS1));

(8) Coarse Ore Reclaim Conveyor 2 Dust Collector 6 (AOS1) (Process #002-8 (AOS1));

(9) HPGR Discharge Dust Collector 7 (AOS1) (Process #002-9 (AOS1));

(10) HPGR Discharge Conveyor Transfer Dust Collector 8 (AOS1) (Process #002-10 (AOS1));

(11) HPGR Product Bin Dust Collector 9 (AOS1) (Process #002-11 (AOS1));

(12) HPGR Product Transfer Dust Collector 10 (AOS1) (Process #002-12 (AOS1)); and

(13) HPGR Product Transfer Dust Collector 11 (AOS1) (Process #002-13 (AOS1)).

b. If the result of a performance test on the stack of a pollution control device listed in Condition II.C.3.a is less than or equal to 50% of the applicable emission limitations in Condition II.C.2, the Permittee shall conduct subsequent performance(s) test for PM_{10} and PM on the stack of that pollution control device within two years between 22 and 26 months from the date of the previous performance test.

[A.A.C. R18-2-306.A.3.c and -312]

c. If the result of a performance test on the stack of a pollution control device listed in Condition II.C.3.a is greater than 50% of the applicable emission limitations in Condition II.C.2, the Permittee shall conduct subsequent performance test(s) for PM_{10} and PM on the stack of that pollution control device on an annual basis between 11 and 13 months from the date of the previous performance test until it is less than or equal to 50% of the applicable emission limitations in Condition II.C.2.

[A.A.C. R18-2-306.A.3.c and -312]

d. If the result of any subsequent performance test required by Condition II.C.3.c above is less than or equal to 50% of the applicable emission limitations in Condition II.C.2, the Permittee shall conduct subsequent performance test(s) for PM and PM_{10} on the stack of that pollution control device between 22 and 26 months from the date of the previous performance test.

[A.A.C. R18-2-306.A.3.c and -312]

e. For the following processes that are operational and have been tested previously, the Permittee shall conduct a performance test for PM and PM_{10} on the stacks of each associated pollution control device within 12 months of

issuance of this permit to demonstrate compliance with the emission limitations in Condition II.B.2.a and/or Condition II.C.2 above (as applicable).

[A.A.C. R18-2-306.A.3.c and -312]

(1) Dust Collector C51 (Process #001-5);

(2) GL1 Dust Collector C1 (Process #002-1);

(3) GL2 Dust Collector C2 (Process #002-2);

(4) GL3 Dust Collector DC3 (Process #002-3);

(5) GL4 Dust Collector DC4 (Process #002-4); and

(6) GL5 Dust Collector DC5 (Process #002-6).

f. If the result of any performance test required by Condition II.C.3.e is less than or equal to 50% of the applicable emission limitations in Condition II.C.2, the Permittee shall conduct subsequent performance test(s) for PM and PM_{10} on the stack of that pollution control device between 34 and 38 months from the date of the previous performance test.

[A.A.C. R18-2-306.A.3.c and -312]

g. If the result of any performance test required by Condition II.C.3.e is greater than 50% of the applicable emission limits in Condition II.C.2, the Permittee shall conduct subsequent performance test(s) for PM and PM_{10} on the stack of that pollution control device on an annual basis between 11 and 13 months from the date of the previous performance test until it is less than or equal to 50% of the applicable emission limitations in Condition II.C.2.

[A.A.C. R18-2-306.A.3.c and -312]

h. If the result of any subsequent performance test required by Condition II.C.3.g above is less than or equal to 50% of the applicable emission limitations in Condition II.C.2, the Permittee shall conduct subsequent performance test(s) for PM and PM_{10} on the stack of that pollution control device between 34 and 38 months from the date of the previous performance test.

[A.A.C. R18-2-306.A.3.c and -312]

i. The Permittee shall use EPA Reference Method 5 in 40 CFR 60, Appendix A and (if necessary) EPA Reference Method 202 specified in 40 CFR 51, Appendix M to determine

emissions of PM. All particulate matter measured by the above reference method can be considered to have an aerodynamic diameter less than 10 microns or EPA Reference Method 201 or 201A and (if necessary) Method 202 specified in 40 CFR 51, Appendix M can be used to determine emissions of PM_{10}.

[A.A.C. R18-2-306.A.3.c and -312]

4. Monitoring and Recordkeeping Requirements

a. Each week, the Permittee shall record the measurements of the change in differential pressure across each dust collection system when in operation in Conditions II.C.3.a and II.C.3.e.

[A.A.C. R18-2-306.A.3.c]

b. The Permittee shall keep records of each performance test conducted in accordance with Condition II.C.3.

[A.A.C. R18-2-306.A.3.c]

D. Alternate Operating Scenarios

This Section applies to equipment and operations specific to alternate operating scenarios.

1. Alternate Operating Scenario 1 (AOS1) - Two Concentrator Operations

a. Applicability

The equipment and operations subject to the requirements of this Condition II.D.1 are identified in the last column of the Equipment List in Attachment “C.”

b. Operational Limitations

(1) When operating under AOS1, the Permittee may operate the modified primary crushing and overland conveying operations, Second Concentrator milling operations, Second Concentrator bulk and molybdenum flotation operations, Second Concentrator concentrate handling operations, Second Concentrator lime and other reagent operations, Second Concentrator prill handling operations, and Second Concentrator emergency ICE using the equipment identified in the section titled “AOS1: Two Concentrator Operations” in the Equipment List of Attachment “C.”

[A.A.C. R18-2-306.A.11]

(2) When operating under AOS1, the Permittee shall not operate the equipment identified in the section titled "Primary Crushing and Overland Conveying Operations" in the Equipment List of Attachment "C" except for the following equipment that is common to both the primary operating scenario and AOS1:

[A.A.C. R18-2-306.A.11]

(a) Primary Crusher 1 (PC1);

(b) Rock Breaker (RB);

(c) Primary Crusher 2 (PC2);

(d) Dust Collector C51 (C51);

(e) PC2 Surge Bin (PC2SB);

(f) PC2 Apron Feeder (PC2AF);

(g) PC2 Dribble Conveyor (PC2DC);

(h) Overland Conveyor 3A (OC3A);

(i) Overland Conveyor 3 (OC3);

(j) Overland Conveyor 4 (OC4);

(k) Radial Stacker 5 (RST5); and

(l) Free-Standing Stacker 6 (FSS6).

c. Air Pollution Control Requirements

(1) *When operating under AOS1, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, install,* maintain, *and operate the following pollution control devices in a manner consistent with good air pollution control practices for minimizing particulate matter emissions.*

[A.A.C. R18-2-306.01.A and -331.A.3.d, e]
[Material Permit Conditions are indicated by underlines and italics]

(a) *PC1 Dust Collector 1 (AOS1) (Process #001-12 (AOS1));*

(b) *Dust Collector C51 (AOS1) (Process #001-5 (AOS1));*

(c) *PC1 CCC1 Dust Collector 2 (AOS1) (Process #001-13 (AOS1));*

(d) *PC1 CCC2 Dust Collector 3 (AOS1) (Process #001-14 (AOS1));*

(e) *PC1 CCC3 Dust Collector 4 (AOS1) (Process #001-15 (AOS1));*

(f) *Coarse Ore Reclaim Conveyor 1 Dust Collector 5 (AOS1) (Process #002-7 (AOS1));*

(g) *Coarse Ore Reclaim Conveyor 2 Dust Collector 6 (AOS1) (Process #002-8 (AOS1));*

(h) *HPGR Discharge Dust Collector 7 (AOS1) (Process #002-9 (AOS1));*

(i) *HPGR Discharge Conveyor Transfer Dust Collector 8 (AOS1) (Process #002-10 (AOS1));*

(j) *HPGR Product Bin Dust Collector 9 (AOS1) (Process #002-11 (AOS1));*

(k) *HPGR Product Transfer Dust Collector 10 (AOS1) (Process #002-12 (AOS1));*

(l) *HPGR Product Transfer Dust Collector 11 (AOS1) (Process #002-13 (AOS1)); and*

(m) *Molybdenum Dryer Wet Scrubber System (AOS1) (Process #052-2 (AOS1)).*

(2) *When operating under AOS1, the Permittee shall, to the extent practicable operate wet suppression on the following emission units to minimize particulate matter emissions and comply with the applicable emission limitations and standards of Condition II.A.2.* Wet suppression options include water sprays, surfactant use, water jets, foggers, inherent moisture content (including moisture from upstream water sprays), or other equivalent control methods.

[A.A.C. R18-2-306.01.A and -331.A.3.a and e]
[Material Permit Conditions are indicated by underlines and italics]

(a) *Unloading Ore to Primary Crusher 1 (AOS1) (Process #001-6 (AOS1));*

(b) *Unloading Ore to Primary Crusher 2 (AOS1) (Process #001-7 (AOS1));*

(c) *Radial Stacker 5 (AOS1) to Coarse Ore Stockpiles 1/4 (Process #001-4 (AOS1));*

(d) *Radial Stacker 5 (AOS1) to Free-Standing Stacker 6 (AOS1) (Process #001-10 (AOS1);*

(e) *Free-Standing Stacker 6 (AOS1) to Coarse Ore Stockpile 5 (Process #001-3 (AOS1)); and*

(f) *PC1 Cross Country Conveyor 3 (AOS1) to Coarse Ore Stockpile 6 (Process #001-20 (AOS1)).*

(3) *When operating under AOS1, the Permittee shall, to the extent practicable, install,* maintain, *and operate wet suppression on the following emission units to minimize particulate matter emissions and comply with the applicable emission limitations and standards of Condition II.A.2. Wet suppression options include water sprays, surfactant use, water jets, foggers, inherent moisture content (including moisture from upstream water sprays), or other equivalent control methods.*

[A.A.C. R 18-2-306.01.A and -331.A.3.a]
[Material Permit Conditions are indicated by underlines and italics]

(a) *Overland Conveyor 3A (AOS1) to Overland Conveyor 3 (AOS1) (Process #001-2 (AOS1));*

(b) *Overland Conveyor 3 (AOS1) to Overland Conveyor 4 (AOS1) (Process #001-8 (AOS1)); and*

(c) *Overland Conveyor 4 (AOS1) to Radial Stacker 5 (AOS1) (Process #001-9 (AOS1)).*

(4) When operating under AOS1, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate the Second Concentrator Lime Silo Baghouse (AOS1) on the Second Concentrator Lime Silo (AOS1) (Process #007-6) to minimize particulate matter emissions and comply with applicable emission limitations and standards of Condition II.A.2.

[A.A.C. R18-2-306.A.2]

(5) When operating under AOS1, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate the Second Concentrator Lime System Scrubber (AOS1) on the Second Concentrator Lime Slaker (AOS1) (Process #007-7) to minimize particulate matter emissions and comply with applicable emission limitations and standards of Condition II.A.2.

[A.A.C. R18-2-306.A.2]

(6) When operating under AOS1, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate the Second Concentrator NaHS System Scrubber (AOS1) to minimize hydrogen sulfide emissions from the NaHS Storage Tank (AOS1) and NaHS Distribution Tank (AOS1) (Process #055-3 (AOS1)) to comply with the applicable emission limitations and standards of Condition III.A.3.

[A.A.C. R18-2-306.A.2]

d. The AOS1 operations shall comply with all the requirements in Condition II.A, Condition II.B, Condition II.C, Condition III.A, Condition IV.B, Condition V.B, and Condition VI.E, as applicable.

[A.A.C. R18-2-306.A.11.c]

e. Monitoring, Recordkeeping, and Reporting Requirements

The Permittee shall, contemporaneously while making the change from one operating scenario to another operating scenario, record in a log a record of the operating scenario under which it is operating.

[A.A.C. R18-2-306.A.11.a]

2. Alternate Operating Scenario 3 (AOS3) - Upgrades to Milling Operations

a. Applicability

The equipment and operations subject to the requirements of this Condition II.D.2 are identified in the last column of the Equipment List in Attachment “C.”

b. Operational Limitations

(1) When operating Under AOS3, the Permittee may operate:

[A.A.C. R18-2-306.A.11]

(a) GL1 through GL5 Belt Conveyors B (48" belt width); and

(b) GL1 through GL5 Secondary Crushers (Metso MP1250).

(2) When operating Under AOS3, the Permittee shall not operate:

[A.A.C. R18-2-306.A.11]

(a) GL1 through GL5 Belt Conveyors B (40" belt width); and

(b) GL1 through GL5 Secondary Crushers (Metso MP800).

c. Air Pollution Control Requirements

When operating under AOS3, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain *and operate the following pollution control devices in a manner consistent with good air pollution control practices for minimizing particulate matter emissions.*

[A.A.C. R18-2-306.01.A and -331.A.3.e]
[Material Permit Conditions are indicated by underlines and italics]

(1) *GL1 Dust Collector C1 (Process #002-1);*

(2) *GL2 Dust Collector C2 (Process #002-2);*

(3) *GL3 Dust Collector DC3 (Process #002-3);*

(4) *GL4 Dust Collector DC4 (Process #002-4); and*

(5) *GL5 Dust Collector DC5 (Process #002-6).*

d. The AOS3 operations shall comply with all the requirements in Condition II.A, Condition II.B, and Condition II.C, as applicable.

[A.A.C. R18-2-306.A.11.c]

e. Monitoring, Recordkeeping, and Reporting Requirements

The Permittee shall, contemporaneously while making the change from one operating scenario to another operating scenario, record in a log a record of the operating scenario under which it is operating.

[A.A.C. R18-2-306.A.11.a]

3. Alternate Operating Scenario 5 (AOS5) – Emergency Grizzly Systems

a. Applicability

The equipment and operations subject to the requirements of this Condition II.D.3 are identified in the last column of the Equipment List in Attachment "C."

b. Operational Limitations

(1) The Permittee may operate the Emergency Grizzly Systems (Process #s 048-1 through 048-6 and 027-6) when a primary crusher malfunctions or is otherwise inoperative.

[A.A.C. R18-2-306.A.11]

(2) *When operating under AOS5, the Permittee may operate only one Bar Grizzly (EG1 or EG2), one Apron Feeder (EGAF1 or EGAF2), and one Belt Conveyor (EGBC1 or EGBC2) of the Emergency Grizzly System for each primary crusher that is inoperative.*

[A.A.C. R18-2-306.A.11, -306.01.A, and -331.A.3.a]
[Material Permit Conditions are indicated by underlines and italics]

c. Air Pollution Control Requirements

(1) *When operating under AOS5, the Permittee shall, to the extent practicable, operate wet suppression on the following emission units to minimize particulate matter emissions and comply with the applicable emission limitations and standards of Condition II.A.2 and Condition II.B.2.* Wet suppression options include water sprays, surfactant use, water jets, foggers, inherent moisture content (including moisture from upstream water sprays), or other equivalent control methods.

[A.A.C. R18-2-306.01.A and -331.A.3.a and e]
[Material Permit Conditions are indicated by underlines and italics]

(a) *Unloading Ore to Bar Grizzly 1 and Bar Grizzly 1 Screening (AOS5) (Process #048-1 (AOS5));*

(b) *Unloading Ore to Bar Grizzly 2 and Bar Grizzly 2 Screening (AOS5) (Process #048-1 (AOS5));7*

(c) *Bar Grizzly 1 Oversize to Temporary Oversize Stockpile (AOS5) (Process #048-2 (AOS5)); and*

(d) *Bar Grizzly 2 Oversize to Temporary Oversize Stockpile (AOS5) (Process #048-2 (AOS5)).*

(2) *When operating under AOS5, the Permittee shall, to the extent practicable operate wet suppression on the following emission units to minimize particulate matter emissions and comply with the applicable emission limitations and standards of Condition II.A.2 and Condition II.B.2.* Wet suppression options include water sprays, surfactant use, water jets, foggers, inherent moisture content (including moisture from upstream water sprays), or other equivalent control methods.

[A.A.C. R18-2-306.01.A and -331.A.3.a and e]
[Material Permit Conditions are indicated by underlines and italics]

(a) Temporary Oversize Stockpile to Primary Crusher 1 (AOS5) (Process #048-6 (AOS5)); and

(b) Temporary Oversize Stockpile to Primary Crusher 2 (AOS5) (Process #048-6 (AOS5)).

d. The AOS5 operations shall comply with all the requirements in Condition II.A and Condition II.B, as applicable.

[A.A.C. R18-2-306.A.11.c]

e. Monitoring, Recordkeeping, and Reporting Requirements

The Permittee shall, contemporaneously while making the change from one operating scenario to another operating scenario, record in a log a record of the operating scenario under which it is operating.

[A.A.C. R18-2-306.A.11.a]

III. REQUIREMENTS FOR UNCLASSIFIED SOURCES SUBJECT TO A.A.C. R18-2-730

This Section applies to equipment and operations not otherwise subject to standards of performance under Articles 7, 9, or 11 of Title 18, Chapter 2 of the A.A.C.

A. Facilities Subject to the Standards of Performance for Unclassified Sources Under A.A.C. R18-2-730

1. Applicability

The equipment subject to the requirements of this Condition III.A are identified in the last column of the Equipment List in Attachment "C". For the Bulk Flotation Equipment (CMF-B1), Molybdenum Flotation Equipment (CMF-M), Deoiler (M-SD), Second Concentrator Bulk Flotation Equipment (AOS1) (S-FLO-B), and Second Concentrator Molybdenum Flotation Equipment (AOS1) (S-FLO-M), the requirements of Condition II.A and Condition II.B apply instead of the requirements of Condition III.A.2.a, Condition III.A.2.b, and Condition III.A.5.e.

2. Emission Limitations and Standards

a. Particulate Matter

(1) The Permittee shall not cause, allow, or permit the discharge of particulate matter into the atmosphere in any one hour in total quantities in excess of the amounts calculated by one of the following equations:

[A.A.C. R18-2-730.A.1]

(a) For process sources having a process weight rate of 60,000 pounds per hour (30 tons per hour) or less, the maximum allowable emissions shall be determined by the following equation:

$E = 4.10P^{0.67}$

Where:

E = the maximum allowable particulate emissions rate in pounds-mass per hour; and

P= the process weight rate in tons-mass per hour.

(b) For process weight rate greater than 60,000 pounds per hour (30 tons per hour), the maximum allowable emissions shall be determined by the following equation:

$E = 55.0P^{0.11} - 40$

Where “E” and “P” are defined as indicated in Condition III.A.2.a(1)(a).

(2) For purposes of Condition III.A.2.a(1), the total process weight from all similar units employing a similar type process shall be used in determining the maximum allowable emission of particulate matter.

[A.A.C. R18-2-730.B]

b. Opacity

(1) The opacity of any plume or effluent from any existing, stationary, point source shall not be greater than 20%.

[A.A.C. R18-2-702.B.3]

(2) If the presence of uncombined water is the only reason for an exceedance of the visible emissions requirement in Condition III.A.2.b(1), the exceedance shall not constitute a violation of the applicable opacity limit.

[A.A.C. R18-2-702.C]

3. Operational Limitations

a. The Permittee shall not cause, allow, or permit the emission of gaseous or odorous materials from equipment, operations or premises under its control in such quantities or concentrations as to cause air pollution.

[A.A.C. R18-2-730.D]

b. Materials including solvents or other volatile compounds, paints, acids, alkalis, pesticides, fertilizers and manure shall be processed, stored, used and transported in such a manner and by such means that they will not evaporate, leak, escape or be otherwise discharged into the ambient air so as to cause or contribute to air pollution. Where means are available to reduce effectively the contribution to air pollution from evaporation, leakage or discharge, the installation and use of such control methods, devices, or equipment shall be mandatory.

[A.A.C. R18-2-730.F]

c. Where a stack, vent or other outlet is at such a level that fumes, gas mist, odor, smoke, vapor or any combination thereof constituting air pollution is discharged to adjoining property, the Director may require the installation of abatement equipment or the alteration of such stack, vent, or other outlet by the Permittee to a degree that will adequately

dilute, reduce or eliminate the discharge of air pollution to adjoining property.

[A.A.C. R18-2-730.G]

d. The Permittee shall not allow H_2S to be emitted from any location in such manner and amount that the concentration of such emissions into the ambient air at any occupied place beyond the premises on which the facility is located exceeds 0.03 parts per million by volume for any averaging period of 30 minutes or more.

[A.A.C. R18-2-730.H]

e. The Natural Gas Flare chamber temperature shall be greater than or equal to 1,300°F whenever the Deoiler (M-SD) is operating.

[A.A.C. R18-2-306.A.2]

4. Air Pollution Control Requirements

a. When in operation, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate mist eliminators on the CLP Cooling Tower (Process #042-11) to minimize particulate matter emissions and comply with the applicable emission limitations and standards of Condition III.A.2.

[A.A.C. R18-2-306.A.2]

b. *When in operation, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable,* maintain *and operate the Primary Venturi Scrubber CH-02 and the Secondary Venturi Scrubber CH-03, if necessary, to minimize emissions from the Pressure Leach Vessel (Process #042-4) and comply with the applicable emission limitations and standards of Condition III.A.2 and the applicable operational limitations of Condition III.A.3.*

[A.A.C. R18-2-306.01.A and -331.A.3.e]
[Material Permit Conditions are indicated by underlines and italics]

c. *When in operation, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable,* maintain *and operate the Packed Scrubber 1, Packed Scrubber 2, and Natural Gas Flare to minimize volatile organic compound emissions from the Deoiler (Process #047-5) and comply with the applicable operational limitations of Condition III.A.3.*

[A.A.C. R18-2-306.01.A and -331.A.3.e]
[Material Permit Conditions are indicated by underlines and italics]

d. When in operation, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, operate the Lime Storage and Handling Operations according to the following:

[A.A.C. R18-2-306.A.2]

(1) Pneumatic conveying shall be used during delivery of lime from trucks to Lime Storage Bin 1; and

(2) Enclosures shall be used during material transfers from Lime Storage Bin 1 to Lime Weigh Feeder 1, Lime Slaker Conveyor 1, and Lime Slaker Conveyor 2.

e. *When in operation, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, operate bin vent filters on the following equipment to minimize particulate matter emissions and comply with the applicable emission limitations and standards of Condition III.A.2*.

[A.A.C. R18-2-306.01.A and -331.A.3.a and e]
[Material Permit Conditions are indicated by underlines and italics]

(1) *Soda Ash Storage Bin (Process #047-9); and*

(2) *Lime Storage Bin 1 (Process #007-3).*

f. When in operation, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, utilize covers on the mixer-settler units associated with the following operations to comply with the applicable operational limitations of Condition III.A.3.

[A.A.C. R18-2-306.A.2]

(1) Solution Extraction - Molybdenum Pressure Leaching (Process #047-8); and

(2) Solution Extraction - Main Systems (Process #029-1).

g. When in operation, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, utilize one or more of the following methods on the cells associated with Electrowinning - Main System (Process #011-1) to comply with the applicable operational limitations of Condition III.A.3.

[A.A.C. R18-2-306.A.2]

(1) Foam;

(2) Blankets;

(3) Surfactants;

(4) Brushes;

(5) Thermal retention balls; or

(6) Other effective means as approved by the Director.

h. *When in operation, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable,* maintain and *operate Lime Slaking Scrubber 1 on the Lime Slaking Mill 1 (Process #007-8) to minimize particulate matter emissions and comply with the applicable emission limitations and standards of Condition III.A.2.*

[A.A.C. R18-2-306.01.A and -331.A.3.a and e]
[Material Permit Conditions are indicated by underlines and italics]

i. *When in operation, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable,* maintain and *operate Lime Slaking Scrubber 2 on the Lime Slaking Mill 2 (Process #007-9) to minimize particulate matter emissions and comply with the applicable emission limitations and standards of Condition III.A.2.*

[A.A.C. R18-2-306.01.A and -331.A.3.a and e]
[Material Permit Conditions are indicated by underlines and italics]

5. Monitoring, Recordkeeping, and Reporting Requirements

a. The Permittee shall record the hourly process rate of all process sources.

[A.A.C. R18-2-306.A.3.c]

b. Primary Venturi Scrubber CH-02 and Secondary Venturi Scrubber CH-03

(1) *The Permittee shall calibrate,* maintain, and operate *a monitoring device for the continuous measurement of the change in pressure of the gas stream through the scrubbers (when in operation). The monitoring device shall be certified by the manufacturer to be accurate within ±250 pascals (±1-inch water) gauge pressure and shall be calibrated on an annual basis in accordance with manufacturer's instructions.*

[A.A.C. R18-2-306.A.3.c and -331.A.3.c]
[Material Permit Conditions are indicated by underlines and italics]

(2) *The Permittee shall calibrate,* maintain, and operate *a monitoring device for the continuous measurement of*

the scrubbing liquid flow rate to the scrubbers (when in operation). The monitoring device shall be certified by the manufacturer to be accurate within ±5% of design scrubbing liquid flow rate and shall be calibrated on at least an annual basis in accordance with manufacturer's instructions.

[A.A.C. R18-2-306.A.3.c and -331.A.3.c]
[Material Permit Conditions are indicated by underlines and italics]

(3) Except for system breakdowns, repairs, calibration checks, and zero and span adjustments, the monitoring devices in Condition III.A.5.b(1) and Condition III.A.5.b(2) shall be in continuous operation whenever the scrubbers are operating.

[A.A.C. R18-2-306.A.3.c]

(4) The Permittee shall record on a weekly basis the measurements of both the change in pressure of the gas stream across the scrubber and the scrubbing liquid flow rate.

[A.A.C. R18-2-306.A.3.c]

(5) The Permittee shall submit semiannual reports to the Director of occurrences when the measurements of the scrubber pressure loss (or gain) or liquid flow rate differ by more than ±30% from the average obtained during the most recent performance test.

[A.A.C. R18-2-306.A.3.c]

(6) The reports required under Condition III.A.5.b(5) shall be postmarked within 30 days following the end of the second and fourth calendar quarters.

[A.A.C. R18-2-306.A.3.c]

c. Packed Scrubber 1 and Packed Scrubber 2

(1) *The Permittee shall calibrate,* maintain, and operate *a monitoring device for the continuous measurement of the scrubbing liquid flow rate to the scrubbers (when in operation). The monitoring device shall be certified by the manufacturer to be accurate within ±5% of design scrubbing liquid flow rate and shall be calibrated on at least an annual basis in accordance with manufacturer's instructions.*

[A.A.C. R18-2-306.A.3.c and -331.A.3.c]
[Material Permit Conditions are indicated by underlines and italics]

(2) Except for system breakdowns, repairs, calibration checks, and zero and span adjustments, the monitoring device in Condition III.A.5.c(1) shall be in continuous operation whenever the scrubbers are operating. The monitoring device shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

[A.A.C. R18-2-306.A.3.c]

(3) The Permittee shall record on a weekly basis the measurements of the scrubbing liquid flow rate.

[A.A.C. R18-2-306.A.3.c]

(4) The Permittee shall submit semiannual reports to the Director of occurrences when the measurements of the liquid flow rate differ by more than ±30% from the average obtained during the most recent performance test.

[A.A.C. R18-2-306.A.3.c]

(5) The reports required under Condition III.A.5.c(4) shall be postmarked within 30 days following the end of the second and fourth calendar quarters.

[A.A.C. R18-2-306.A.3.c]

d. Natural Gas Flare

(1) *The Permittee shall calibrate,* maintain, and operate *a thermocouple or any other equivalent device for the continuous measurement of temperature in the Natural Gas Flare (M-F) chamber (when in operation). The monitoring device shall be certified by the manufacturer to be accurate within ±100°F and shall be calibrated on an annual basis in accordance with manufacturer's instructions.*

[A.A.C. R18-2-306.A.3.c and -331.A.3.c]
[Material Permit Conditions are indicated by underlines and italics]

(2) Except for system breakdowns, repairs, and calibration checks, the monitoring device in Condition III.A.5.d(1) shall be in continuous operation whenever the flare is operating.

[A.A.C. R18-2-306.A.3.c]

e. The Permittee shall conduct the periodic opacity monitoring method specified in Condition I.B above on a biweekly basis for the following emission units subject to Condition III.A:

[A.A.C. R18-2-306.A.3.c]

(1) Transfer of Soda Ash to the Soda Ash Storage Bin (Process #047-9);

(2) Transfer of Lime to Lime Storage Bin 1 (Process #007-3);

(3) Lime Slaking Scrubber 1 (Process #007-8);

(4) Lime Slaking Scrubber 2 (Process #007-9);

(5) Delivery of Ammonium Nitrate Prill to Prill Bin 1 (Process #050-1);

(6) Delivery of Ammonium Nitrate Prill to Prill Bin 2 (Process #050-2);

(7) Delivery of Ammonium Nitrate Prill to Prill Bin 3 (Process #050-4)

(8) Delivery of Ammonium Nitrate Prill to Prill Bin 4 (Process #050-5);

(9) Delivery of Ammonium Nitrate Prill to Prill Bin 5 (Process #050-6);

(10) Transfer of Lime to Second Concentrator Lime Silo (AOS1) (Process #007-6 (AOS1));

(11) Second Concentrator Lime Slaker (AOS1) (Process #007-7 (AOS1)); and

(12) Delivery of Ammonium Nitrate Prill to Prill Bin 6 (AOS1) (Process #050-7 (AOS1)).

f. The Permittee shall keep a record of which technique is used to minimize emissions from the cells associated with Electrowinning - Main System (Process #011-1).

[A.A.C. R18-2-306.A.3.c]

g. The Permittee shall monitor H_2S emissions at the nearest occupied place outside of the mine operational boundary to the Bagdad Concentrator Bulk and Molybdenum Flotation Equipment (Process #044-1) using an analyzer on a quarterly basis to demonstrate compliance with Condition III.A.3.d.

[A.A.C. R18-2-306.A.3]

6. Permit Shield

Compliance with the requirements of Condition III.A shall be deemed compliance with A.A.C. R18-2-702.B.3, 702.C, 730.A.1, 730.B, 730.D, 730.F, 730.G, and 730.H.

[A.A.C. R18-2-325]

B. Voluntary Emission Limitations and Standards

1. Applicability

The equipment subject to the requirements of this Condition III.B are identified in the last column of the Equipment List in Attachment "C."

2. Emission Limitations and Standards

a. *The Permittee shall not allow the emissions of PM and PM_{10} from the processes identified in Section I of the Table in Attachment "D" to exceed 2.75 lb/hr, as measured at the emission exhaust point to the atmosphere.*

[A.A.C. R 18-2-306.01.A and -331.A.3.a]
[Material Permit Conditions are indicated by underlines and italics]

b. *The Permittee shall not allow the emissions of VOC from the processes identified in Section J of the Table in Attachment "D" to exceed 1.36 lb/hr, as measured at the emission exhaust point to the atmosphere.*

[A.A.C. R 18-2-306.01.A and -331.A.3.a]
[Material Permit Conditions are indicated by underlines and italics]

3. Performance Testing Requirements

a. The Permittee shall conduct a performance test for PM and PM_{10} on the Pressure Leach Vessel as controlled by the Primary Venturi Scrubber CH-02 and Secondary Venturi Scrubber CH-03 (Process #042-4) within 12 months of issuance of this permit to demonstrate compliance with the emission limitation in Condition III.B.2.a.

[A.A.C. R18-2-306.A.3.c and -312]

b. If the result of any performance test required by Condition III.B.3.a is less than or equal to 50% of the emission limitation in Condition III.B.2.a, the Permittee shall conduct subsequent performance test(s) for PM and PM_{10} on the Pressure Leach Vessel as controlled by the Primary Venturi Scrubber CH-02 and Secondary Venturi Scrubber CH-03 (Process #042-4) between 34 and 38 months from the date of the previous performance test.

[A.A.C. R18-2-306.A.3.c and -312]

c. If the result of any performance test required by Condition III.B.3.a is greater than 50% of the emission limitation in Condition III.B.2.a, the Permittee shall conduct subsequent performance test(s) for PM and PM_{10} on the Pressure Leach Vessel as controlled by the Primary Venturi Scrubber CH-02 and Secondary Venturi Scrubber CH-03 (Process #042-4) on an annual basis between 11 and 13 months from the date of the previous performance test until it is less than or equal to 50% of the emission limitation in Condition III.B.2.a.

[A.A.C. R18-2-306.A.3.c and -312]

d. If the result of any subsequent performance test required by Condition III.B.3.c above is less than or equal to 50% of the emission limitation in Condition III.B.2.a, the Permittee shall conduct subsequent performance test(s) for PM and PM_{10} on the stack of that pollution control device between 34 and 38 months from the date of the previous performance test.

[A.A.C. R18-2-306.A.3.c and -312]

e. The Permittee shall conduct performance tests for VOC on the Deoiler as controlled by the Packed Scrubber 1, Packed Scrubber 2, and Natural Gas Flare (Process #047-5) a minimum of once during the permit term to demonstrate compliance with the emission limitation in Condition III.B.2.b.

[A.A.C. R18-2-306.A.3.c and -312]

f. If the result of any performance test required by Condition III.B.3.e is less than or equal to 70% of the emission limitation in Condition III.B.2.b above, no further testing is required for that control device during the permit term.

[A.A.C. R18-2-306.A.3.c and -312]

g. If the result of any performance test required by Condition III.B.3.e is greater than 70% of the emission limitation in ConditionIII.B.2.b, the Permittee shall conduct subsequent performance test(s) for VOC on the Deoiler as controlled by the Packed Scrubber 1, Packed Scrubber 2, and Natural Gas Flare (Process #047-5) on an annual basis between 11 and 13 months from the date of the previous performance test.

[A.A.C. R18-2-306.A.3.c and -312]

h. If the result of any subsequent performance test required by Condition III.B.3.g is less than or equal to 70% of the emission limitation in ConditionIII.B.2.b, no further testing is required for that control device during the permit term.

[A.A.C. R18-2-306.A.3.c and -312]

i. The Permittee shall use EPA Reference Method 5 in 40 CFR 60, Appendix A and (if necessary) EPA Reference Method 202 specified in 40 CFR 51, Appendix M to determine emissions of PM. All particulate matter measured by the above reference method can be considered to have an aerodynamic diameter less than 10 microns or EPA Reference Method 201 or 201A and (if necessary) Method 202 specified in 40 CFR 51, Appendix M can be used to determine emissions of PM_{10}.

[A.A.C. R18-2-306.A.3.c and -312]

j. The Permittee shall use EPA Reference Method 25A/25B in 40 CFR 60, Appendix A to determine emissions of VOC.

[A.A.C. R18-2-306.A.3.c and -312]

4. Monitoring Requirements

Each week, the Permittee shall record the measurements of the change in differential pressure across each scrubber when in operation in Conditions III.B.3.a and III.B.3.e.

[A.A.C. R18-2-306.A.3.c]

IV. REQUIREMENTS FOR BOILERS, STEAM GENERATORS, HEATERS, AND FURNACES

This Section applies to all boilers, steam generators, heaters (including fuel-burning pressure washers), and furnaces regardless of fuel type.

A. Equipment Subject to the Standards of Performance for Fossil-Fuel Fired Industrial Equipment Under A.A.C. R18-2-724

1. Applicability

The equipment subject to the requirements of this Condition IV.A are identified in the last column of the Equipment List in Attachment “C.”

2. Fuel Limitation

a. The Permittee shall fire only diesel fuel in the diesel external combustion equipment identified in the Equipment List in Attachment “C.”

[A.A.C. R18-2-306.A.2]

b. The Permittee shall fire only propane fuel in the propane external combustion equipment identified in the Equipment List in Attachment “C.”

[A.A.C. R18-2-306.A.2]

c. The Permittee shall fire only natural gas fuel in the natural gas external combustion equipment identified in the Equipment List in Attachment "C."

[A.A.C. R18-2-306.A.2]

d. The use of high sulfur oil in the fossil-fuel fired industrial equipment is prohibited.

[A.A.C. R18-2-724.G]

3. Emission Limitations and Standards

a. Particulate Matter

(1) The Permittee shall not cause, allow, or permit the emission of particulate matter, caused by combustion of fuel, from any fossil-fuel fired industrial equipment n in excess of the amounts calculated by one of the following equations:

[A.A.C. R18-2-724.C]

(a) For equipment having a heat input rate of 4,200 million Btu per hour or less, the maximum allowable emissions shall be determined by the following equation:

$E = 1.02*Q^{0.769}$

Where:

E = the maximum allowable particulate emissions rate in pounds-mass per hour; and

Q = the heat input in MMBtu per hour.

(b) For equipment having a heat input rate greater than 4,200 million Btu per hour, the maximum allowable emissions shall be determined by the following equation:

$E = 17.0*Q^{0.432}$

Where "E" and "Q" have the same meaning as in Condition IV.A.3.a(1)(a).

(2) For the purposes of Condition IV.A.3.a(1), the heat input shall be the aggregate heat content of all fuels whose products of combustion pass through a stack or other outlet. The total heat input of all operating fossil-fuel fired

industrial equipment shall be used for determining the maximum allowable amount of particulate matter which may be emitted.

[A.A.C. R18-2-724.B]

b. Opacity

The Permittee shall not cause, allow, or permit the opacity of any plume or effluent from any fossil-fuel fired industrial equipment to exceed 15 percent.

[A.A.C. R18-2-724.J]

c. Sulfur Dioxide

For the diesel-fired equipment, the Permittee shall limit the emission of sulfur dioxide to no more than 1.0 pound per million Btu heat input.

[A.A.C. R18-2-724.E]

4. Monitoring, Recordkeeping, and Reporting Requirements

a. The Permittee shall conduct the opacity monitoring method specified in Condition I.B on a monthly basis for the diesel-fired equipment.

[A.A.C. R18-2-306.A.3.c]

b. The Permittee shall report all six-minute periods in which the opacity of any plume or effluent from diesel-fired equipment exceeds 15 percent.

[A.A.C. R18-2-724.J]

c. For the diesel-fired equipment, the Permittee shall maintain records of the sulfur content of the fuel being fired. This may be accomplished by maintaining a copy of that part of the contract with the vendor that specifies the sulfur content of the fuel.

[A.A.C. R18-2-306.A.3.c]

5. Permit Shield

Compliance with the requirements of Condition IV.A shall be deemed compliance with A.A.C. R18-2-724.B, -724.C, -724.E, -724.G, and -724.J.

[A.A.C. R18-2-325]

B. Equipment Subject to NSPS Requirements for Small Industrial Steam Generating Units Under 40 CFR 60 Subpart Dc

1. Applicability

The equipment subject to the requirements of this Condition IV.B are identified in the last column of the Equipment List in Attachment "C."

2. Fuel Limitation

The Permittee shall fire only natural gas fuel in the natural gas external combustion equipment listed in the Equipment List in Attachment "C."

[A.A.C. R18-2-306.A.2]

3. Monitoring, Recordkeeping and Reporting Requirements

a. Except as provided in Condition IV.B.3.b and Condition IV.B.3.c, the Permittee shall record and maintain records of the amount of each fuel combusted during each operating day.

[40 CFR 60.48c(g)(1)]

b. As an alternative to meeting the requirements of ConditionIV.B.3.a, the Permittee may elect to record and maintain monthly records of the amount of each fuel combusted during each calendar month.

[40 CFR 60.48c(g)(2)]

c. As an alternative to meeting the requirements of Condition IV.B.3.a, the Permittee may elect to record and maintain records of the total amount of fuel delivered during each calendar month.

[40 CFR 60.48c(g)(3)]

d. The Permittee shall maintain the records required by Condition IV.B.3.a through Condition IV.B.3.c for a period of two (2) years following the date of such record.

[40 CFR 60.48c(i)]

4. Permit Shield

Compliance with the requirements of Condition IV.B shall be deemed compliance with 40 CFR 60.48c(g) and 60.48c(i).

[A.A.C. R18-2-325]

V. REQUIREMENTS FOR NONMETALLIC MINERAL PROCESSING OPERATIONS

This Section applies to equipment associated with nonmetallic mineral processing operations.

A. Facilities Subject to the Standards of Performance for Existing Gravel or Crushed Stone Processing Plants Under A.A.C. R18-2-722

1. Applicability

The facilities subject to the requirements of this Condition V.A are identified in the last column of the Equipment List in Attachment "C".

2. Emission Limitations and Standards

a. Particulate Matter

(1) The Permittee shall not cause, allow, or permit the discharge of particulate matter into the atmosphere except as fugitive emissions in any one hour in total quantities in excess of the amounts calculated by one of the following equations:

[A.A.C. R18-2-722.B]

(a) For process sources having a process weight rate of 60,000 pounds per hour (30 tons per hour) or less, the maximum allowable emissions shall be determined by the following equation:

$E = 4.10P^{0.67}$

Where:

E = the maximum allowable particulate emissions rate in pounds-mass per hour.

P = the process weight rate in tons-mass per hour.

(b) For process sources having a process weight greater than 60,000 pounds per hour (30 tons per hour), the maximum allowable emissions shall be determined by the following equation:

$E = 55.0P^{0.11} - 40$

Where "E" and "P" are defined as indicated in Condition V.A.2.a(1)(a).

(2) Actual values shall be calculated from the applicable equations and rounded off to two decimal places.

[A.A.C. R18-2-722.C]

b. Opacity

(1) The opacity of any plume or effluent from any existing, stationary, point source shall not be greater than 20%.
[A.A.C. R18-2-702.B.3]

(2) If the presence of uncombined water is the only reason for an exceedance of the visible emissions requirement in Condition V.A.2.b(1), the exceedance shall not constitute a violation of the applicable opacity limit.
[A.A.C. R18-2-702.C]

3. Air Pollution Control Requirements

a. The Permittee shall utilize water spray bars s in accordance with "EPA Control of Air Emissions from Process Operations in The Rock Crushing Industry" (EPA 340/1-79-002), "Wet Suppression System" (Pages 15-34; Amended as of January 1979 with no future amendments or editions), with placement of water spray bars and nozzles to minimize air pollution as required by the Director.
[A.A.C. R18-2-722.D]

b. The Permittee shall control fugitive emissions from nonmetallic mineral processing operations in accordance with A.A.C. R18-2-604 through A.A.C. R18-2-607 (see Section VIII).
[A.A.C. R18-2-722.E]

c. *When in operation, the Permittee shall, to the extent practicable operate wet suppression on the Portable Aggregate System and the Supplemental Portable Aggregate System to minimize particulate matter emissions and comply with the applicable emission limitations and standards of Condition V.A.2.* Wet suppression options include water sprays, surfactant use, water jets, foggers, inherent moisture content (including moisture from upstream water sprays), or other equivalent control methods.
[A.A.C. R18-2-306.01.A and -331.A.3.a and e]
[Material Permit Conditions are indicated by underlines and italics]

4. Monitoring, Recordkeeping, and Reporting Requirements

a. The Permittee shall record the hourly process rate of all process sources.
[A.A.C. R18-2-306.A.3.c]

b. *The Permittee shall install, calibrate,* maintain, and operate *monitoring devices which can be used to determine daily the process weight of gravel or crushed stone produced.* The weighing devices shall have an accuracy of ± 5% over their operating range.

[A.A.C. R18-2-722.F and -331.A.3.c]
[Material Permit Conditions are indicated by underlines and italics]]

c. The Permittee shall maintain a record of daily production rates of gravel or crushed stone produced.

[A.A.C. R18-2-722.G]

d. The Permittee shall conduct the opacity monitoring method specified in Condition I.B on a biweekly basis for all emission units used in nonmetallic mineral processing operations.

[A.A.C. R18-2-306.A.3.c]

5. Permit Shield

Compliance with the requirements of Condition V.A shall be deemed compliance with A.A.C. R18-2-702.B.3, 702.C, 722.B, 722.C, 722.D, 722.E, 722.F, and 722.G.

[A.A.C. R18-2-325]

B. Facilities Subject to the NSPS Requirements for Nonmetallic Mineral Processing Plants Under 40 CFR 60 Subpart OOO

1. Applicability

The equipment subject to the requirements of this Condition V.B are identified in the last column of the Equipment List in Attachment "C."

2. Opacity Standards

a. *Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup, the Permittee shall not cause to be discharged into the atmosphere from crushers at which a capture system is not used any fugitive emissions that exhibit greater than 12% opacity.*

[A.A.C. R18-2-331.A.3.f and 40 CFR 60.672(b) including Table 3]
[Material Permit Conditions are indicated by underlines and italics]

b. *Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup, the Permittee shall not cause to be discharged into the atmosphere from grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any*

other affected facility, except as provide in Condition V.B.2.a, any fugitive emissions that exhibit greater than 7% opacity.

[A.A.C. R18-2-331.A.3.f and 40 CFR 60.672(b) including Table 3]
[Material Permit Conditions are indicated by underlines and italics]

c. Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of Condition V.B.2.a and Condition V.B.2.b.

[40 CFR 60.672(d)]

d. The opacity standards set forth in Condition V.B.2.a and V.B.2.b apply at all times except during periods of startup, shutdown and malfunction.

[40 CFR 60.11(c)]

3. Operational Limitation

When in operation, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate equipment used for nonmetallic mineral operations 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 Director which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

[40 CFR 60.11(d)]

4. Air Pollution Control Requirements

When in operation, the Permittee shall, to the extent practicable operate wet suppression on the Portable Aggregate System and the Supplemental Portable Aggregate System to minimize particulate matter emissions and comply with the applicable emission limitations and standards of Condition V.B.2. Wet suppression options include water sprays, surfactant use, water jets, foggers, inherent moisture content (including moisture from upstream water sprays), or other equivalent control methods.

[A.A.C. R18-2-306.01.A and -331.A.3.a and e]
[Material Permit Conditions are indicated by underlines and italics]

5. Monitoring, Recordkeeping, and Reporting Requirements

a. For these processes using wet suppression to control emission, the Permittee shall perform monthly inspections to check that water is flowing to the discharge spray nozzles in the wet suppression system. The Permittee shall initiate

corrective action within 24 hours and complete corrective action as expediently as practical if the Permittee finds that water is not flowing properly during an inspection of the water spray nozzles. The Permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in the logbook required under Condition V.B.5.c.

[40 CFR 60.674(b)]

b. If a process that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry required by Condition V.B.5.c shall specify the control mechanism being used instead of the water sprays.

[40 CFR 60.674(b)(2)]

c. The Permittee shall record each periodic inspection required under Condition V.B.5.a, including dates and any corrective actions taken, in a logbook (in written or electronic format). The Permittee shall keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available upon request.

[40 CFR 60.676(b)(1)]

d. The Permittee shall submit a notification of the actual date of initial startup to EPA. The notification shall be postmarked within 15 days after such date and shall include a description, equipment manufacturer, and serial number of the equipment, if available. For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location.

[40 CFR 60.676(i)]

6. Performance Testing Requirements

a. The Permittee shall conduct performance tests specified in Condition V.B.6.b through Condition V.B.6.j.

[40 CFR 60.11 and 40 CFR 60.672(b) including Table 3]

b. For the purpose of demonstrating initial compliance with Condition V.B.2, an initial performance test consisting of opacity observations shall be conducted within 60 days after achieving the maximum production rate, but no later than 180 days after initial startup.

[40 CFR 60.11, 60.672(b), and 60.675]

c. The Permittee shall conduct a repeat performance test according to 40 CFR 60.11 and 40 CFR 60.675 within five (5) years from the previous performance test required in Condition V.B.6.b for fugitive emissions without water sprays.
[40 CFR 60.11, 60.672(b), and 60.675]

d. If the Permittee relies on water carryover from upstream water sprays to control fugitive emissions, then it is exempt from Condition V.B.6.b provided that it meets the following criteria:
[40 CFR 60.672(b) and 60.674(b)(1)]

(1) The Permittee conducts periodic inspections of the upstream water sprays that are responsible for controlling fugitive emissions. These inspections shall be conducted according to Condition V.B.5.a and Condition V.B.5.c; and

(2) The Permittee designates which upstream water sprays will be periodically inspected at the time of the initial performance test required by Condition V.B.6.b.

e. In determining compliance with the particulate matter standards in Condition V.B.2, the Permittee shall use Method 9 of Appendix A-4 of 40 CFR 60 and the procedures in 40 CFR 60.11 with the following additions:
[40 CFR 60.675(c)(1)]

(1) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet);

(2) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9 of Appendix A-4 of 40 CFR 60, Section 2.1) shall be followed;

(3) If using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist shall not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

f. When determining compliance with Condition V.B.2, the duration of the Method 9 (40 CFR 60, Appendix A-4) observations shall be 30 minutes (five 6-minute averages).

Compliance with Condition V.B.2 shall be based on the average of the five (5) 6-minute averages.

[40 CFR 60.675(c)(3)]

g. If emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions cannot be read, either of the following procedures may be considered:

[40 CFR 60.675(e)(1)]

(1) Use the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.

(2) Separate the emissions so that the opacity of emissions from each affected facility can be read.

h. A single visible emission observer may conduct visible emission observations for up to three (3) fugitive, stack, or vent emission points within a 15-second interval if the following conditions are met:

[40 CFR 60.675(e)(2)]

(1) No more than three emission points may be read concurrently;

(2) All three emission points shall be within a 70-degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points; and

(3) If an opacity reading for any one of the three (3) emission points equals or exceeds the applicable standard, then the observer shall stop taking readings for the other two points and continue reading just that single point.

i. For performance tests involving only Method 9 (40 CFR 60, Appendix A-4) testing, the Permittee may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 40 CFR 60.8(d) to a 7-day advance notification.

[40 CFR 60.675(g)]

j. The Permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in Condition V.B.2.

[40 CFR 60.676(f)]

7. Permit Shield

Compliance with the requirements of Condition V.B shall be deemed compliance with 40 CFR 60.11, 60.672(b), 60.672(d), 60.674(b), 60.675(c)(1), 60.675(c)(3), 60.675(e)(1), 60.675(e)(2), 60.675(g), 60.676(b)(1), 60.676(f), 60.676(h), and 60.676(i).

[A.A.C. R18-2-325]

C. Voluntary Emissions Limitations and Standards

1. Production Limitations

a. *The Permittee shall not produce more than 2,500,000 tons per year of aggregate material in the Portable Aggregate System.*

[A.A.C. R 18-2-306.01.A and -331.A.3.a]
[Material Permit Conditions are indicated by underlines and italics]

b. *The Permittee shall not produce more than 4,400,000 tons per year of aggregate material in the Supplemental Portable Aggregate System.*

[A.A.C. R 18-2-306.01.A and -331.A.3.a]
[Material Permit Conditions are indicated by underlines and italics]

2. Monitoring, Recordkeeping, and Reporting Requirements

a. The Permittee shall keep monthly records of the total production of aggregate material in the Portable Aggregate System, calculated as the sum of the mass of the material discharged from the stacking conveyors. At the end of the month, the Permittee shall compute and record the 12-month rolling total of aggregate material in tons.

[A.A.C. R18-2-306.A.3.c]

b. The Permittee shall keep monthly records of the total production of aggregate material in the Supplemental Portable Aggregate System, calculated as the sum of the mass of the material discharged from the stacking conveyors. At the end of the month, the Permittee shall compute and record the 12-month rolling total of aggregate material in tons.

[A.A.C. R18-2-306.A.3.c]

VI. REQUIREMENTS FOR RECIPROCATING INTERNAL COMBUSTION ENGINES (RICES)

This Section applies to all emergency and non-emergency compression-ignition (CI) and spark-ignition (SI) internal combustion engines (ICE) regardless of fuel type.

A. Emergency and Non-Emergency Engines Subject to Standards of Performance for Existing Stationary Rotating Machinery Under A.A.C. R18-2-719

1. Applicability

The engines subject to the requirements of this Condition VI.A are identified in the last column of the Equipment List in Attachment "C."

2. Fuel Limitations

a. The Permittee shall fire only diesel fuel in the engines listed in the Diesel Emergency ICE and Diesel Non-Emergency ICE sections of the Equipment List in Attachment "C".
[A.A.C. R18-2-306.A.2]

b. The Permittee shall fire only propane fuel in the engines listed in the Propane Emergency ICE and Propane Non-Emergency ICE sections of the Equipment List in Attachment "C".
[A.A.C. R18-2-306.A.2]

c. The Permittee shall fire only natural gas fuel in the engines listed in the Natural Gas Emergency ICE section of the Equipment List in Attachment "C".
[A.A.C. R18-2-306.A.2]

The use of high sulfur oil in the existing ICEs is prohibited.
[A.A.C. R18-2-719.H]

3. Emission Limitations and Standards

a. Particulate Matter

(1) The Permittee shall not cause, allow, or permit the emission of particulate matter, caused by combustion of fuel, from any ICE in excess of the amounts calculated by one of the following equations:
[A.A.C. R18-2-719.C]

(a) For equipment having a heat input rate of 4,200 million Btu per hour or less, the maximum allowable emissions shall be determined by the following equation:

$E = 1.02Q^{0.769}$

Where:

E = the maximum allowable particulate emissions rate in pounds-mass per hour

Q = the heat input in million Btu per hour

(b) For equipment having a heat input rate greater than 4,200 million Btu per hour, the maximum allowable emissions shall be determined by the following equation:

$E = 17.0*Q^{0.432}$

Where “E” and “Q” have the same meaning as in Condition VI.A.3.a(1)(a).

(2) For the purposes of Condition VI.A.3.a(1), the heat input shall be the aggregate heat content of all fuels whose products of combustion pass through a stack or other outlet. The total heat input of all ICEs shall be used for determining the maximum allowable amount of particulate matter which may be emitted.

[A.A.C. R18-2-719.B]

b. Opacity

The Permittee shall not cause, allow or permit to be emitted into the atmosphere from any ICE, smoke for any period greater than 10 consecutive seconds which exceeds 40% opacity. Visible emissions when starting cold equipment shall be exempt from this requirement for the first 10 minutes.

[A.A.C. R18-2-719.E]

c. Sulfur Dioxide

For the diesel-fired emergency and non-emergency ICEs, the Permittee shall limit the emission of sulfur dioxide to no more than 1.0 pound per million Btu heat input.

[A.A.C. R18-2-719.F]

4. Monitoring, Recordkeeping and Reporting Requirements

a. The Permittee shall conduct the opacity monitoring method specified in Condition I.B on a monthly basis for all diesel fired ICEs subject to Condition VI.A.

[A.A.C. R18-2-306.A.3.c]

b. The Permittee shall record daily the sulfur content and lower heating value of the fuel being fired. This may be

accomplished by maintaining a copy of that part of the contract with the vendor that specifies the sulfur content and lower heating value of the fuel.

[A.A.C. R18-2-719.I]

c. The Permittee shall report any daily period during which the sulfur content of the fuel being fired exceeds 0.8% to the Director.

[A.A.C. R18-2-719.J]

5. Permit Shield

Compliance with the requirements of Condition VI.A shall be deemed compliance with A.A.C. R18-2-719.B, 719.C, 719.E, 719.F, 719.H, 719.I, and 719.J.

[A.A.C. R18-2-325]

B. New Emergency Engines Subject to NSPS Requirements for CI ICE Under 40 CFR 60 Subpart IIII

1. Applicability

The engines subject to the requirements of this Condition VI.B are identified in the last column of the Equipment List in Attachment "C."

2. Fuel Requirements

For CI ICEs with a displacement of less than 30 liters per cylinder that use diesel fuel, the Permittee shall use diesel fuel that meets the following requirements of 40 CFR 1090.305 for nonroad diesel fuel:

a. A maximum sulfur content of 15 ppm; and

b. A minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

[40 CFR 60.4207(b)]

3. Emission Limitations and Standards

a. Non-Fire Pump Engines

(1) For 2007 model year and later emergency CI ICEs with a maximum engine power less than or equal to 2,237 kW (3,000 hp) and a displacement of less than 10 liters per cylinder that are not fire pump engines, the Permittee shall comply with the following emission standards.

[40 CFR 60.4202(a), 60.4205(b)]

(a) Engines with a Maximum Engine Power Less Than 37 kW (50 hp)

The certification emission standards for new nonroad CI ICEs in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, 40 CFR 1039.115, and Table 2 of 40 CFR 60 Subpart IIII, for 2008 model year and later engines.

(b) Engines with a Maximum Engine Power Greater Than or Equal to 37 kW (50 hp)

The Tier 2 or Tier 3 emission standards for new nonroad CI ICEs for the same rated power as described in 40 CFR 1039 Appendix I, for all pollutants and the smoke standards as specified in 40 CFR 1039.105 beginning in model year 2007.

(2) For 2011 model year and later emergency CI ICEs with a maximum engine power greater than 2,237 kW (3,000 hp) and a displacement of less than 10 liters per cylinder that are not fire pump engines, the Permittee shall comply with the Tier 2 emission standards as described in 40 CFR 1039 Appendix I, for all pollutants and the smoke standards as specified in 40 CFR 1039.105.

[40 CFR 60.4202(b), 60.4205(b)]

b. Fire Pump Engines

For fire pump engines with a displacement of less than 30 liters per cylinder, the Permittee shall comply with the emission standards in Table 4 of 40 CFR 60 Subpart IIII, for all pollutants.

[40 CFR 60.4205(c)]

4. Operating Requirements

a. The Permittee shall operate and maintain the engines that achieve the emission standards as required in Condition VI.B.3 over the entire life of the engine.

[40 CFR 60.4206]

b. The Permittee shall operate and maintain the engine and control device according to the manufacturer's emission-

related written instructions, except as permitted under Condition VI.B.5.b.

[40 CFR 60.4211(a)(1)]

c. The Permittee shall only change those engine-related settings that are permitted by the manufacturer except as permitted under Condition VI.B.5.b.

[40 CFR 60.4211(a)(2)]

d. The Permittee shall meet the applicable requirements of 40 CFR Part 1068.

[40 CFR 60.4211(a)(3)]

e. *For an emergency CI ICE that does not meet the standards applicable to non-emergency engines, the Permittee shall install a non-resettable hour meter prior to startup of the engine.*

[A.A.C. R18-2-331.A.3.c and 40 CFR 60.4209(a)]
[Material Permit Conditions are indicated by underlines and italics]

f. The Permittee shall operate the emergency CI ICE according to the requirements in Condition VI.B.4.f(1) through Condition VI.B.4.f(4). In order for the engine to be considered an emergency stationary engine, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in Condition VI.B.4.f(1) through Condition VI.B.4.f(4), is prohibited. If the Permittee does not operate the engine according to the requirements in Condition VI.B.4.f(1) through Condition VI.B.4.f(4), the engine will not be considered an emergency engine and shall meet all requirements for non-emergency engines.

(1) There is no time limit on the use of the emergency engine in emergency situations.

[40 CFR 60.4211(f)(1)]

(2) The Permittee may operate the engine for the purpose of maintenance checks and readiness testing for a maximum of 100 hours per calendar year, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission operator, or the insurance company associated with the engine. The Permittee may petition the Director for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records

indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. Any operation for non-emergency situations as allowed by Condition VI.B.4.f(3) counts as part of the 100 hours per calendar year allowed by this condition.

[40 CFR 60.4211(f)(2)]

(3) The Permittee may operate an emergency engine up to 50 hours per year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in Condition VI.B.4.f(2). Except as provided in Condition VI.B.4.f(4), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[40 CFR 60.4211(f)(3)]

(4) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all the following conditions are met:

[40 CFR 60.4211(f)(3)(i)]

(a) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

(b) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(c) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(d) The power is provided only to the facility itself or to support the local transmission and distribution system.

(e) The Permittee identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the Permittee.

5. Compliance Requirements

a. The Permittee shall comply by purchasing an engine certified to the emission standards in Condition VI.B.3, as applicable. The engine shall be installed and configured according to the manufacturer's specifications, except as permitted in Condition VI.B.5.b.

[40 CFR 60.4211(c)]

b. If the Permittee does not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or changes the emission-related setting in a way that is not permitted by the manufacturer, the Permittee shall demonstrate compliance as follows:

[40 CFR 60.4211(g)]

(1) Engines Less Than 100 hp

The Permittee shall keep a maintenance plan and records of conducted maintenance to demonstrate compliance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of such action.

(2) Engines Greater Than or Equal to 100 hp and Less Than or Equal to 500 hp

The Permittee shall keep a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test to

demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after emission-related settings are changed in a way that is not permitted by the manufacturer.

(3) Engines Greater Than 500 hp

The Permittee shall keep a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after emission-related settings are changed in a way that is not permitted by the manufacturer. Subsequent performance tests shall be conducted every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

6. Recordkeeping Requirements

a. Starting with the model years in Table 5 of 40 CFR 60 Subpart IIII, if the emergency ICE does not meet the standards applicable to non-emergency ICEs in the applicable model year, the Permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The Permittee shall record the time of operation of the engine and the reason the engine was in operation during that time.

[40 CFR 60.4214(b)]

b. For an emergency CI ICE with a maximum engine power more than 100 hp that operates for the purposes specified in Condition VI.B.4.f(4), the Permittee shall submit an annual

report according to the requirements in 40 CFR 60.4214(d)(1) through 60.4214(d)(3).

[40 CFR 60.4214(d)]

7. Permit Shield

Compliance with the requirements of Condition VI.B shall be deemed compliance with 40 CFR 60.4202(a)(2), 60.4205(b), 60.4206, 60.4207(b), 60.4209(a), 60.4211(a), 60.4211(c). 60.4211(f), 60.4211(g), 60.4214(b), and 60.4214(d).

[A.A.C. R18-2-325]

C. New Emergency Engines Subject to NSPS Requirements for SI ICE Under 40 CFR 60 Subpart JJJJ

1. Applicability

The engines subject to the requirements of this Condition VI.C are identified in the last column of the Equipment List in Attachment "C."

2. Emission Limitations and Standards

a. SI ICEs with a maximum power less than or equal to 25 hp, a displacement ≥ 225 cc (Class II), and manufactured on July 1, 2011 or later

[40 CFR 60.4231(a)(4) and 4233(a), 40 CFR 1054.105]

(1) Carbon Monoxide (CO)

The Permittee shall limit the emissions of CO from the engine to 610 g/kW-hr.

(2) Nitrogen Oxides (NOx) and Hydrocarbons (HC)

The Permittee shall limit the combined emissions of NOx and HC from the engine to 8.0 g/kW-hr or as otherwise specified in 40 CFR 1054.105.

b. SI ICEs with a maximum power greater than 25 hp but less than 130 hp that are rich burn engines, use liquefied petroleum gas (LPG), and are manufactured on January 1, 2009 or later:

[40 CFR 60.4231(c) and 4233(c), 40 CFR Part 1054 Appendix A, Table 3, Phase 1, Class II]

(1) Carbon Monoxide (CO)

The Permittee shall limit the emissions of CO from the engine to 519 g/kW-hr.

(2) Nitrogen Oxides (NOx) and Hydrocarbons (HC)

The Permittee shall limit the combined emissions of NOx and HC from the engine to 13.4 g/kW-hr.

c. SI ICEs with a maximum power greater than 25 hp but less than 100 hp (except gasoline and rich burn engines that use LPG) and manufactured on January 1, 2009 or later:
[40 CFR 60.4233(d) and 40 CFR 60 Subpart JJJJ Table 1]

(1) Carbon Monoxide (CO)

The Permittee shall limit the emissions of CO from the engine to 387 g/hp-hr.

(2) Nitrogen Oxides (NOx) and Hydrocarbons (HC)

The Permittee shall limit the combined emissions of NOx and HC from the engine to 10 g/hp-hr.

d. SI ICEs with a maximum power greater than or equal to 100 hp but less than 130 hp (except gasoline and rich burn engines that use LPG) and manufactured on January 1, 2009 or later:
[40 CFR 60.4233(e) and 40 CFR 60 Subpart JJJJ Table 1]

(1) Carbon Monoxide (CO)

The Permittee shall limit the emissions of CO from the engine to 387 g/hp-hr.

(2) Nitrogen Oxides (NOx) and Hydrocarbons (HC)

The Permittee shall limit the combined emissions of NOx and HC from the engine to 10 g/hp-hr.

e. SI ICEs with a maximum power greater than or equal to 130 hp (except gasoline and rich burn engines that use LPG) and manufactured on January 1, 2009 or later:
[40 CFR 60.4233(e) and 40 CFR 60 Subpart JJJJ Table 1]

(1) Carbon Monoxide (CO)

The Permittee shall limit the emissions of CO from the engine to 4.0 g/hp-hr.

(2) Nitrogen Oxides (NOx)

The Permittee shall limit the emissions of NOx from the engine to 2.0 g/hp-hr.

(3) Volatile Organic Compounds (VOC)

The Permittee shall limit the emissions of VOC from the engine to 1.0 g/hp-hr.

3. Operating Requirements

a. The Permittee shall operate and maintain SI ICE that achieve the emission standards as required in Condition VI.C.2 over the entire life of the engine.

[40 CFR 60.4234]

b. Non-Resettable Hour Meters

(1) *For the engines that are greater than or equal to 130 hp and less than 500 hp built on or after January 1, 2011 that do not meet the standards applicable to non-emergency engines, the Permittee shall install non-resettable hour meters.*

[A.A.C. R18-2-331.A.3.c and 40 CFR 60.4237(b)]
[Material Permit Conditions are indicated by underlines and italics]

(2) *For the engines less than 130 hp built on or after July 1, 2008 that do not meet the standards applicable to non-emergency engines, the Permittee shall install non-resettable hour meters upon startup.*

[A.A.C. R18-2-331.A.3.c and 40 CFR 60.4237(c)]
[Material Permit Conditions are indicated by underlines and italics]

c. The Permittee shall operate the emergency SI ICEs according to the requirements in Condition VI.C.3.c(1) through Condition VI.C.3.c(4). In order for the engine to be considered an emergency engine, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in Condition VI.C.3.c(1) through Condition VI.C.3.c(4), is prohibited. If the Permittee does not operate the engine according to the requirements in Condition VI.C.3.c(1) through Condition VI.C.3.c(4), the engine will not be considered an emergency engine and shall meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency SI ICE in emergency situations.

[40 CFR 60.4243(d)(1)]

(2) The Permittee may operate the SI ICE for the purpose of maintenance checks and readiness testing for a maximum of 100 hours per calendar year, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission operator, or the insurance company associated with the engine. The Permittee may petition the Director for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency SI ICE beyond 100 hours per calendar year. Any operation for non-emergency situations as allowed by Condition VI.C.3.c(3) counts as part of the 100 hours per calendar year allowed by this Condition.

[40 CFR 60.4243(d)(2)]

(3) The Permittee may operate the emergency SI ICE for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in Condition VI.C.3.c(2). Except as provided in Condition VI.C.3.c(4) below, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[40 CFR 60.4243(d)(3)]

(4) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all the following conditions are met:

[40 CFR 60.4243(d)(3)(i)]

(a) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

(b) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line

overloads that could lead to the interruption of power supply in a local area or region.

(c) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(d) The power is provided only to the facility itself or to support the local transmission and distribution system.

(e) The Permittee identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the Permittee.

d. The Permittee may operate the natural gas-fired SI ICEs using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but shall keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the Permittee is required to conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233.

[40 CFR 60.4243(e)]

4. Compliance Requirements

a. The Permittee operating an SI ICE manufactured after July 1, 2008 and subject to the emission standards specified in Condition VI.C.2.a and Condition VI.C.2.b, shall demonstrate compliance by purchasing an engine certified to the emission standards in Condition VI.C.2.a and Condition VI.C.2.b, as applicable for the same engine class and maximum engine power. In addition, the Permittee shall meet one of the following requirements:

[40 CFR 60.4243(a)]

(1) If the Permittee operates and maintains the certified SI ICE and control device according to the manufacturer's emission-related written instructions, the Permittee shall keep records of conducted maintenance to demonstrate

compliance, but no performance testing is required. Also, the Permittee shall meet the applicable requirements of 40 CFR 1068, Subparts A through D. If engine settings are adjusted according to and consistent with the manufacturer's instructions, the SI ICE will not be considered out of compliance.

[40 CFR 60.4243(a)(1)]

(2) If the Permittee does not operate and maintain the certified SI ICE and control device in accordance with the manufacturer's emission-related written instructions, the SI ICE will be considered a non-certified engine, and the Permittee shall demonstrate compliance as follows:

[40 CFR 60.4243(a)(2)]

(a) Engines Less Than 100 hp

The Permittee shall keep a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions, but no performance testing is required.

(b) Engines Greater Than or Equal to 100 hp and Less Than or Equal to 500 hp

The Permittee shall keep a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test within 1 year of engine startup to demonstrate compliance.

b. The Permittee operating an SI ICE and subject to the emission standards specified in Condition VI.C.2.c through Condition VI.C.2.e, shall demonstrate compliance according to one of the following methods:

[40 CFR 60.4243(b)]

(1) Purchasing an engine certified according to procedures specified in 40 CFR 60 Subpart JJJJ, for the same model year and demonstrating compliance according to one of

the methods specified in Condition VI.C.4.a(1) and Condition VI.C.4.a(2).

[40 CFR 60.4243(b)(1)]

(2) Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in Condition VI.C.2.c through Condition VI.C.2.e and according to the requirements specified in 40 CFR 60.4244, as applicable, and according to the following:

For an SI ICE greater than 25 hp and less than or equal to 500 hp, the Permittee shall keep a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test to demonstrate compliance.

[40 CFR 60.4243(b)(2)]

c. For SI ICE that is less than or equal to 500 hp and is either a non-certified engine or not operated and maintained according to the manufacturer's written emission-related instructions, the Permittee shall perform an initial performance testing as indicated in Condition VI.C.4.a and Condition VI.C.4.b, but no subsequent performance test unless the SI ICE is rebuilt or undergoes major repair or maintenance. Engine rebuilding means to overhaul an engine or to otherwise perform extensive service on the engine (or on a portion of the engine or engine system). A rebuilt stationary SI ICE means an engine that has been rebuilt as that term is defined in 40 CFR 1068.120(b).

[40 CFR 60.4243(f)]

5. Recordkeeping and Reporting Requirements

a. For each SI ICE, the Permittee shall maintain records of the following:

[40 CFR 60.4245(a)]

(1) All notifications submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification;

(2) Maintenance conducted on the engine;

(3) If the SI ICE is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards in Condition VI.C.2 and information as required in 40 CFR Parts 90, 1048, 1054, and 1060 as applicable; and

(4) If the SI ICE is not a certified engine or is a certified engine operating in a non-certified manner and subject to Condition VI.C.4.a(2), documentation that the engine meets the emission standards.

b. For all emergency SI ICE greater than or equal to 130 hp and less than 500 hp manufactured on or after July 1, 2011 that do not meet the standards applicable to non-emergency engines, the Permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. For emergency SI ICE greater than 25 hp and less than 130 hp manufactured on or after July 1, 2008, that do not meet the standards applicable to non-emergency engines, the Permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. Beginning on February 26, 2025, performance tests shall be reported electronically according to Condition VI.C.5.e.

[40 CFR 60.4245(b)]

c. For stationary SI ICE that are subject to performance testing, the Permittee shall submit a copy of each performance test as conducted in 40 CFR 60.4244 within 60 days after the performance test has been completed. Performance test reports using EPA Method 18, EPA Method 320, or ASTM D6348-03 (incorporated by reference—see 40 CFR 60.17) to measure VOC require reporting of all QA/QC data. For Method 18, report results from sections 8.4 and 11.1.1.4; for Method 320, report results from Sections 8.6.2, 9.0, and 13.0; and for ASTM D6348-03 report results of all QA/QC procedures in Annexes 1-7.

[40 CFR 60.4245(d)]

d. For an emergency SI ICE with a maximum engine power more than 100 hp that operates for the purposes specified in Condition VI.C.3.c(4), the Permittee shall submit an annual

report according to the requirements in 40 CFR 60.4245(e)(1) through 40 CFR 60.4245(e)(3).

[40 CFR 60.4245(e)]

e. Beginning on February 26, 2025, within 60 days after the date of completing each performance test, the Permittee shall submit the results following the procedures specified in Condition VI.C.5.f. Data collected using test methods that are supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT website (*https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert*) at the time of the test must be submitted in a file format generated using the EPA's ERT. Alternatively, the Permittee may submit an electronic file consistent with the extensible markup language (XML) schema listed on the EPA's ERT website. Data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT website at the time of the test shall be included as an attachment in the ERT or an alternate electronic file.

[40 CFR 60.4245(f)]

f. If the Permittee is required to submit notifications or reports following the procedure specified in Condition VI.C.5.f, the Permittee shall submit notifications or reports to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's Central Data Exchange (CDX) (*https://cdx.epa.gov/*). The EPA will make all the information submitted through CEDRI available to the public without further notice to you. Do not use CEDRI to submit information the Permittee claims as confidential business information (CBI). If the Permittee wishes to assert a CBI claim for some of the information in the report or notification, the Permittee shall submit a complete file in the format specified in 40 CFR Part 60 Subpart JJJJ, including information claimed to be CBI, to the EPA following the procedures in 40 CFR 60.4245(g)(1) and 60.4245(g)(2). The Permittee shall clearly mark the part or all of the information that the Permittees claims to be CBI. Information not marked as CBI may be authorized for public release without prior notice. Information marked as CBI will not be disclosed except in accordance with procedures set forth in 40 CFR Part 2. All CBI claims shall be asserted at the time of submission. Anything submitted using CEDRI cannot later be claimed CBI. Furthermore, under CAA Section 114(c), emissions data is not entitled to confidential treatment, and the EPA is required

to make emissions data available to the public. Thus, emissions data will not be protected as CBI and will be made publicly available. The Permittee shall submit the same file submitted to the CBI office with the CBI omitted to the EPA via the EPA's CDX as described earlier in VI.C.5.f.

[40 CFR 60.4245(g)]

g. If the Permittee is required to electronically submit a report through CEDRI in the EPA's CDX, the Permittee may assert a claim of EPA system outage for failure to timely comply with that reporting requirement. To assert a claim of EPA system outage, the Permittee shall meet the requirements outlined in 40 CFR 60.4245(h)(1) through 60.4245(h)(7).

[40 CFR 60.4245(h)]

h. If the Permittee is required to electronically submit a report through CEDRI in the EPA's CDX, the Permittee may assert a claim of force majeure for failure to timely comply with that reporting requirement. To assert a claim of force majeure, the Permittee shall meet the requirements outlined in 40 CFR 60.4245(i)(1) through 60.4245(i)(5).

[40 CFR 60.4245(i)]

i. Any records required to be maintained that are submitted electronically via the EPA's CEDRI may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request to a delegated air agency or the EPA as part of an on-site compliance evaluation.

[40 CFR 60.4245(j)]

6. Permit Shield

Compliance with the requirements of Condition VI.C shall be deemed compliance with 40 CFR 60.4231(a)(4), 60.4231(c), 60.4233(a), 60.4233(c), 60.4233(d), 60.4233(e), 60.4234, 60.4237(b), 60.4237(c), 60.4243(a), 60.4243(b), 60.4243(d), 60.4243(e), 60.4243(f), 60.4245(a), 60.4245(b), and 60.4245(d-j).

[A.A.C. R18-2-325]

D. Existing Emergency Engines Subject to the NESHAP Requirements for Stationary RICE Under 40 CFR 63 Subpart ZZZZ

1. Applicability

The engines subject to the requirements of this Condition VI.D are identified in the last column of the Equipment List in Attachment "C."

2. General Requirements

a. The Permittee shall operate and maintain at all times the engine including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require any further efforts to reduce emissions if levels required by 40 CFR 63 Subpart ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.6605(b)]

b. The Permittee shall minimize the engine time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

[40 CFR 63.6625(h)]

c. The Permittee shall operate and maintain the engine and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[40 CFR 63.6625(e)]

3. Fuel Requirements

For existing emergency CI RICE with a site rating of more than 100 brake hp and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates for the purpose specified in Condition VI.D.4.d(4), the Permittee shall use diesel fuel that meets the requirements in 40 CFR 1090.305 for nonroad diesel fuel. The requirements in 40 CFR 1090.305 include:

a. Maximum sulfur content of 15 ppm; and

b. Minimum cetane index of 40 or maximum aromatic content of 35 volume percent.

[40 CFR 63.6604(b)]

4. Operating Requirements

a. For the emergency CI RICE, the Permittee shall comply with the following operation and maintenance requirements:

[40 CFR 63.6603(a), 63.6625(i) and 40 CFR 63, Subpart ZZZZ, Table 2d]

(1) The Permittee shall change the oil and filter every 500 hours operation or within 1 year + 30 days of the previous change, whichever comes first. If the Permittee prefers to extend the oil change requirement, an oil analysis program shall be completed. The oil analysis shall be performed at the same frequency specified for changing the oil. The Permittee shall at a minimum analyze the following three parameters: Total Base Number, Viscosity and Water Content. The condemning limits for these parameters are as follows:

(a) Total Base Number: less than 30 percent of the Total Base Number of the oil when new;

(b) Viscosity: changed more than 20 percent from the viscosity of oil when new; and

(c) Water Content: greater than 0.5 percent by volume.

If all the condemning limits are not exceeded, the Permittee is not required to change the oil and filter. If any of the limits are exceeded, the Permittee shall change the oil and filter within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee shall change the oil and filter within 2 business days or before commencing operation, whichever is later. The analysis program shall be part of the maintenance plan for the engine.

(2) The Permittee shall inspect the air cleaner every 1,000 hours of operation or within 1 year + 30 days of the previous change, whichever comes first, and replace as necessary.

(3) The Permittee shall inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days of the previous change, whichever comes first, and replace as necessary.

b. For the emergency SI ICEs, the Permittee shall comply with the following operation and maintenance requirements:
[40 CFR 63.6603(a), 63.6625(j) and 40 CFR 63, Subpart ZZZZ, Table 2d]

(1) The Permittee shall change the oil and filter every 500 hours operation or within 1 year + 30 days of the previous change, whichever comes first. If the Permittee prefers to extend the oil change requirement, an oil analysis program shall be completed. The oil analysis shall be performed at the same frequency specified for changing the oil. The Permittee shall at a minimum analyze the following three parameters: Total Acid Number, Viscosity, and Water content. The condemning limits for these parameters are as follows:

(a) Total Acid Number: increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new;

(b) Viscosity: changed by more than 20 percent from the viscosity of oil when new; and

(c) Water Content: greater than 0.5 percent by volume.

If all the condemning limits are not exceeded, the Permittee is not required to change the oil and filter. If any of the limits are exceeded, the Permittee shall change the oil and filter within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee shall change the oil and filter within 2 business days or before commencing operation, whichever is later. The analysis program shall be part of the maintenance plan for the engine.

(2) The Permittee shall inspect spark plugs every 1,000 hours of operation or within 1 year + 30 days of the previous change, whichever comes first, and replace as necessary; and

(3) The Permittee shall inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days of the previous change, whichever comes first, and replace as necessary.

c. If the emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Condition VI.D.4.a or Condition VI.D.4.b, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice shall be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. The Permittee shall report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

[40 CFR 63, Subpart ZZZZ, Table 2d]

d. The Permittee shall operate the emergency engines according to the requirements in Condition VI.D.4.d(1) through Condition VI.D.4.d(4). In order for the engine to be considered an emergency engine, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in Condition VI.D.4.d(1) through Condition VI.D.4.d(4) is prohibited. If the Permittee does not operate the engine according to the requirements in Condition VI.D.4.d(1) through Condition VI.D.4.d(4), the engine will not be considered an emergency engine and shall meet all requirements for non-emergency engines:

(1) There is no time limit on the use of emergency engine in emergency situations.

[40 CFR 60.6640(f)(1)]

(2) The Permittee may operate the emergency engine for the purpose of maintenance checks and readiness testing for a maximum of 100 hours per calendar year provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or

equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the EPA Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency engine beyond 100 hours per calendar year. Any operation for non-emergency situations as allowed by Condition VI.D.4.d(3) counts as part of the 100 hours per calendar year allowed by this condition.

[40 CFR 63.6640(f)(2)(i)]

(3) The Permittee may operate an emergency engine for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in Condition VI.D.4.d(2). Except as provided in Condition VI.D.4.d(4), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[40 CFR 63.6640(f)(4)]

(4) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all the following conditions are met:

[40 CFR 63.6640(f)(4)(ii)]

(a) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

(b) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(c) The dispatch follows reliability, emergency operation or similar protocols that follow specific

NERC, regional, state, public utility commission or local standards or guidelines.

(d) The power is provided only to the facility itself or to support the local transmission and distribution system.

(e) The Permittee identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the Permittee.

e. *The Permittee shall install a non-resettable hour meter on the engine if one is not already installed.*

[40 CFR 63.6625(f) and A.A.C. R18-2-331.A.3.c]
[Material Permit Conditions are indicated by underlines and italics]

5. Compliance Requirements

a. The Permittee shall be in compliance with all applicable requirements of 40 CFR 63 Subpart ZZZZ at all times.

[40 CFR 63.6605(a)]

b. The Permittee shall demonstrate continuous compliance by operating and maintaining the engine according to the manufacturer's emission-related operation and maintenance instructions, or developing and following a maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[40 CFR 63.6640(a), Table 6, Entry 9]

6. Recordkeeping Requirements

a. If the engine does not meet the standards applicable to non-emergency engines, the Permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Records shall include how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation. If the engine is used for the purpose specified in Condition VI.D.4.d(4), the

Permittee shall keep records of the date, start time, and end time of engine operation for this purpose.

[40 CFR 63.6655(f)]

b. For an emergency engine that operates for the purpose specified in Condition VI.D.4.d(4), the Permittee shall submit an annual report according to the requirements in 40 CFR 63.6650(h)(1) through 63.6650(h)(3).

[40 CFR 63.6650(a) and 63.6650(h) including Table 7, Entry 4]

c. If the Permittee elects to utilize the oil analysis program option in Condition VI.D.4.a(1) and Condition VI.D.4.b(1), it shall keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for the engine.

[40 CFR 63.6625(i) and (j)]

d. The Permittee shall keep records of the maintenance conducted on the engine in order to demonstrate that the engine and after-treatment control device (if any) was operated and maintained according to any developed maintenance plan.

[40 CFR 63.6655(e)]

e. The notification requirements in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) do not apply to an existing emergency CI RICE.

[40 CFR 63.6645(a)(5)]

f. The Permittee shall keep each record in hard copy or electronic form for five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The records shall be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1).

[40 CFR 63.6660(a)-(c)]

g. The Permittee shall keep the records to show continuous compliance with Condition VI.D.5.b.

[40 CFR 63.6655(d)]

7. Permit Shield

Compliance with the requirements of Condition VI.D shall be deemed compliance with 63.6603(a), 63.6604(b), 63.6605(a), 63.6605(b), 63.6625(e), 63.6625(f), 63.6625(h), 63.6625(i), 63.6625(j), 63.6640(a), 63.6640(f), 63.6645(a)(5), 63.6650(a), 63.6650(h), 63.6655(d), 63.6655(e), 63.6655(f), and 63.6660(a) through (c).

[A.A.C. R18-2-325]

E. New Emergency and Non-Emergency Engines Subject to the NESHAP Requirements for Stationary RICE Under 40 CFR 63 Subpart ZZZZ

1. Applicability

The engines subject to the requirements of this Condition VI.E are identified in the last column of the Equipment List in Attachment "C."

2. Compliance

The Permittee shall meet the requirements of 40 CFR 63 Subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart IIII for CI ICEs (Condition VI.B or VI.F) or 40 CFR 60 Subpart JJJJ for SI ICEs (Condition VI.C), as applicable. No further requirements apply for such engines under 40 CFR 63 Subpart ZZZZ.

[40 CFR 63.6590(c)]

3. Permit Shield

Compliance with the requirements of Condition VI.E shall be deemed compliance with 40 CFR 63.6590(c).

[A.A.C. R18-2-325]

F. New Non-Emergency Engines Subject to NSPS Requirements for CI ICE Under 40 CFR 60 Subpart IIII

1. Applicability

The engines subject to the requirements of this Condition VI.F are identified in the last column of the Equipment List in Attachment "C".

2. Fuel Requirements

For CI ICEs with a displacement of less than 30 liters per cylinder that use diesel fuel, the Permittee shall use diesel fuel that meets the following requirements of 40 CFR 1090.30 for nonroad diesel fuel:

a. A maximum sulfur content of 15 ppm; and

b. A minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

[40 CFR 60.4207(b)]

3. Emission Limitations and Standards

For 2007 model year and later non-emergency engines with a maximum engine power less than or equal to 2,237 kW (3,000 hp) and displacement of less than 10 liters per cylinder, the Permittee shall comply with the emission standards for new nonroad CI engines in 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, and 40 CFR 1039 Appendix I, as applicable, for all pollutants, for the same model year and maximum engine power.

[40 CFR 60.4201(a) and 60.4204(b)]

4. Operating Requirements

a. The Permittee shall operate and maintain the engines that achieve the emission standards as required in Condition VI.F.3 over the entire life of the engine.

[40 CFR 60.4206]

b. The Permittee shall operate and maintain the engine and control device according to the manufacturer's emission-related written instructions, except as permitted under Condition VI.F.5.b.

[40 CFR 60.4211(a)(1)]

c. The Permittee shall only change those engine-related settings that are permitted by the manufacturer except as permitted under Condition VI.F.5.b.

[40 CFR 60.4211(a)(2)]

d. The Permittee shall meet the applicable requirements of 40 CFR Part 1068.

[40 CFR 60.4211(a)(3)]

e. If the engine is equipped with a diesel particulate filter to comply with the emission standards in Condition VI.F.3, the diesel particulate filter shall be installed with a backpressure monitor that notifies the Permittee when the high backpressure limit of the engine is approached.

[40 CFR 60.4209(b)]

5. Compliance Requirements

a. The Permittee shall comply by purchasing an engine certified to the emission standards in Condition VI.F.3, as applicable. The engine shall be installed and configured according to the manufacturer's emission-related specifications, except as permitted in Condition VI.F.5.b.

[40 CFR 60.4211(c)]

b. If the Permittee does not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or changes the emission-related setting in a way that is not permitted by the manufacturer, the Permittee shall demonstrate compliance as follows:

[40 CFR 60.4211(g)]

(1) For engines less than 100 hp, the Permittee shall keep a maintenance plan and records of conducted maintenance to demonstrate compliance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of such action.

[40 CFR 60.4211(g)(1)]

(2) For engines greater than or equal to 100 hp and less than or equal to 500 hp, the Permittee shall keep a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the emission-related settings are changed in a way that is not permitted by the manufacturer.

[40 CFR 60.4211(g)(2)]

(3) For engines greater than 500 hp, the Permittee shall keep a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and

maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after emission-related settings are changed in a way that is not permitted by the manufacturer. The Permittee shall conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

[40 CFR 60.4211(g)(3)]

6. Recordkeeping Requirements

If the engine is equipped with a diesel particulate filter, the Permittee shall keep records of any corrective action taken after the backpressure monitor has provided notification that the high backpressure limit of the engine is approached.

[40 CFR 60.4214(c)]

7. Permit Shield

Compliance with the requirements of Condition VI.F shall be deemed compliance with 40 CFR 60.4201(a), 60.4204(b), 60.4206, 60.4207(b), 60.4209(b), 60.4211(a), 60.4211(c), 60.4211(g), and 60.4214(c).

[A.A.C. R18-2-325]

G. Existing Non-Emergency Engines Subject to the NESHAP Requirements for Stationary RICE Under 40 CFR 63 Subpart ZZZZ

1. Applicability

The engines subject to the requirements of this Condition VI.G are identified in the last column of the Equipment List in Attachment “C”.

2. General Requirements

a. The Permittee shall operate and maintain at all times the engine including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require any further efforts to reduce emissions if levels required by 40 CFR 63 Subpart ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, review of operation and maintenance

procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.6605(b)]

b. The Permittee shall minimize the engine time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine not to exceed 30 minutes.

[40 CFR 63.6625(h)]

c. The Permittee shall operate and maintain the engine and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[40 CFR 63.6625(e)]

3. Operation Requirements

a. For the CI RICEs, the Permittee shall comply with the following operation and maintenance requirements:

[40 CFR 63.6603(a), 63.6625(i) and 40 CFR 63, Subpart ZZZZ, Table 2d]

(1) The Permittee shall change the oil and filter every 1,000 hours operation or within 1 year + 30 days of the previous change, whichever comes first. If the Permittee prefers to extend the oil change requirement, an oil analysis program shall be completed. The oil analysis shall be performed at the same frequency specified for changing the oil. The Permittee shall at a minimum analyze the following three parameters: Total Base Number, Viscosity and Water Content. The condemning limits for these parameters are as follows:

(a) Total Base Number: less than 30 percent of the Total Base Number of the oil when new;

(b) Viscosity: changed more than 20 percent from the viscosity of oil when new; and

(c) Water Content: greater than 0.5 percent by volume.

If all the condemning limits are not exceeded, the Permittee is not required to change the oil and filter. If

any of the limits are exceeded, the Permittee shall change the oil and filter within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee shall change the oil and filter within 2 business days or before commencing operation, whichever is later. The analysis program shall be part of the maintenance plan for the engine.

(2) The Permittee shall inspect the air cleaner every 1,000 hours of operation or within 1 year + 30 days of the previous change, whichever comes first, and replace as necessary.

(3) The Permittee shall inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days of the previous change, whichever comes first, and replace as necessary.

b. For the SI ICEs, the Permittee shall comply with the following operation and maintenance requirements:
[40 CFR 63.6603(a), 63.6625(j) and 40 CFR 63, Subpart ZZZZ, Table 2d]

(1) The Permittee shall change the oil and filter every 1,440 hours operation or within 1 year + 30 days of the previous change, whichever comes first. If the Permittee prefers to extend the oil change requirement, an oil analysis program shall be completed. The oil analysis shall be performed at the same frequency specified for changing the oil. The Permittee shall at a minimum analyze the following three parameters: Total Acid Number, Viscosity, and Water content. The condemning limits for these parameters are as follows:

(a) Total Acid Number: increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new;

(b) Viscosity: changed by more than 20 percent from the viscosity of oil when new; and

(c) Water Content: greater than 0.5 percent by volume.

If all the condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee shall change the oil and filter within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee shall change the oil and filter within 2 business days or before commencing operation, whichever is later. The analysis program shall be part of the maintenance plan for the engine.

(2) The Permittee shall inspect spark plugs every 1,440 hours of operation or within 1 year + 30 days of the previous change, whichever comes first, and replace as necessary; and

(3) The Permittee shall inspect all hoses and belts every 1,440 hours of operation or within 1 year + 30 days of the previous change, whichever comes first, and replace as necessary.

4. Compliance Requirements

a. The Permittee shall be in compliance with all applicable requirements of 40 CFR 63, Subpart ZZZZ at all times.

[40 CFR 63.6605(a)]

b. The Permittee shall demonstrate continuous compliance by operating and maintaining the engine according to the manufacturer's emission-related operation and maintenance instructions, or developing and following a maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[40 CFR 63.6640(a), Table 6, Entry 9]

5. Recordkeeping Requirements

a. If the Permittee elects to utilize the oil analysis program option in Condition VI.G.3.a(1)VI.D.4.a(1) and Condition VI.G.3.b(1) above, it shall keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for the engine.

[40 CFR 63.6625(i) and (j)]

b. The Permittee shall keep records of the maintenance conducted on the engine in order to demonstrate that the engine and after-treatment control device (if any) was operated and maintained according to any developed maintenance plan.

[40 CFR 63.6655(e)]

c. The Permittee shall keep each record in hard copy or electronic form for five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The records shall be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1).

[40 CFR 63.6660(a)-(c)]

d. The Permittee shall keep records required to show continuous compliance with in Condition VI.G.4.b.

[40 CFR 63.6655(d)]

6. Permit Shield

Compliance with the requirements of Condition VI.G shall be deemed compliance with 40 CFR 63.6603(a), 40 CFR 63.6605, 40 CFR 63.6625(e, h, i, j), 40 CFR 63.6640(a), 40 CFR 63.6655(d, e), and 40 CFR 63.6660.

[A.A.C. R18-2-325]

VII. REQUIREMENTS FOR GASOLINE STORAGE TANKS AND GASOLINE DISPENSING FACILITIES

This Section applies to all gasoline storage tanks and gasoline dispensing facilities.

A. Gasoline Storage Tanks Subject to the Standards of Performance for Existing Storage Vessels for Petroleum Liquids Under A.A.C. R18-2-710

1. Applicability

The gasoline storage tanks subject to the requirements of this Condition VII.A are identified in the last column of the Equipment List in Attachment “C.”

2. Emission Limitations and Standards

a. The petroleum liquid storage tanks shall be equipped with a submerged filling device, or acceptable equivalent, for the control of hydrocarbon emissions.

[A.A.C. R18-2-710.B]

b. All pumps and compressors which handle volatile organic compounds shall be equipped with mechanical seals or other equipment of equal efficiency to prevent the release of organic contaminants into the atmosphere.

[A.A.C. R18-2-710.D]

3. Monitoring, Recordkeeping, and Reporting Requirements

For each petroleum liquid storage vessel, the Permittee shall maintain a file of the type of petroleum liquid stored, the typical Reid vapor pressure of the petroleum liquid stored, and the dates of storage. Dates on which the storage vessel is empty shall be shown.

[A.A.C. R18-2-710.E.1]

4. Permit Shield

Compliance with the requirements of Condition VII.A shall be deemed compliance with A.A.C. R18-2-710.B, 710.D, and 710.E.1.

[A.A.C. R18-2-325]

B. Gasoline Dispensing Facilities and Associated Gasoline Storage Tanks Subject to the NESHAP Requirements Under 40 CFR 63 Subpart CCCCCC

1. Applicability

a. This Section applies to the Gasoline Dispensing Facilities (GDF) and associated gasoline storage tanks as identified in the last column of the Equipment List in Attachment “C.”

b. It also applies to the associated equipment components in vapor or liquid gasoline service, pressure/vacuum vents on gasoline storage tanks and equipment necessary to unload product from cargo tanks into storage tanks at GDFs. The equipment used for the refueling of motor vehicles is not covered.

[40 CFR 63.11111(a) and 63.11112(a)]

2. Operational Limitations

a. The Permittee shall, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, review of

operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
[40 CFR 63.11115(a)]

b. Requirements for GDFs with Monthly Throughputs of Less Than 10,000 Gallons

(1) The Permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
[40 CFR 63.11111(b), 63.11116(a)]

(a) Minimize gasoline spills;

(b) Clean up spills as expeditiously as practicable;

(c) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a cover having a gasketed seal when not in use;

(d) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

(2) Portable gasoline containers that meet the requirements of 40 CFR 59 Subpart F are considered acceptable for compliance with Condition VII.B.2.b(1)(c).
[40 CFR 63.11111(b) and 63.11116(d)]

c. Requirements for GDFs with Monthly Throughputs Greater Than or Equal to 10,000 Gallons and Less Than 100,000 Gallons

(1) The Permittee shall comply with all the requirements of Condition VII.B.2.b(1) and Condition VII.B.2.b(2) above.
[40 CFR 63.11111(c) and 63.11117(a)]

(2) Except as specified in Condition VII.B.2.c(3), the Permittee shall only load gasoline into storage tanks by utilizing submerged filling, as defined in 40 CFR 63.11132, and according to the following specifications. The applicable distances in Condition VII.B.2.c(2)(a) and Condition VII.B.2.c(2)(b) shall be measured from the point in the opening of the submerged fill pipe that is the greatest distance from the bottom of the storage tank.

(a) The submerged fill pipes installed on or before November 9, 2006, shall be no more than 12 inches from the bottom of the storage tank.

[40 CFR 63.11117(b)(1)]

(b) The submerged fill pipes installed after November 9, 2006, shall be no more than 6 inches from the bottom of the storage tank.

[40 CFR 63.11117(b)(2)]

(c) Submerged fill pipes not meeting the specifications in Condition VII.B.2.c(2)(a) and Condition VII.B.2.c(2)(b) shall be allowed if the Permittee can demonstrate that the liquid level in the tank is always above the entire opening of the fill pipe. Documentation providing such demonstration shall be made available for inspection by the Director's delegated representative during the course of a site visit.

[40 CFR 63.11117(b)(3)]

(3) Gasoline storage tanks with a capacity of less than 250 gallons are not required to comply with the submerged fill requirements in Condition VII.B.2.c(2), but shall comply only with all the requirements in 40 CFR 63.11116.

[40 CFR 63.11117(c)]

d. The dispensing of gasoline from a fixed gasoline storage tank at a GDF into a portable gasoline tank for the on-site delivery and subsequent dispensing of the gasoline into the fuel tank of a motor vehicle or other gasoline-fueled engine or equipment used within the area source is only subject to Condition VII.B.2.b.

[40 CFR 63.11111(j)]

e. Increases in Monthly Throughput

(1) If the monthly throughput of a GDF subject to Condition VII.B.2.b ever equals or exceeds 10,000 gallons but remains less than 100,000 gallons, the GDF shall comply with the requirements in Condition VII.B.2.c and all other requirements applicable to GDFs with monthly throughputs greater than or equal to 10,000 gallons and less than 100,000 gallons no later than 3 years after the affected GDFs become subject to the new requirements. The GDF shall remain subject to the requirements, even

if the throughput later falls below the 10,000 gallons throughput threshold.

[40 CFR 63.11111(c) and (i), 63.11113(c)]

(2) If the throughput of a GDF subject to Condition VII.B.2.c ever exceeds 100,000 gallons, the GDF shall comply with the requirements in 40 CFR 63 Subpart CCCCCC for GDF with monthly throughputs greater than or equal to 100,000 gallons no later than 3 years after the affected GDFs become subject to the new requirements. The GDF shall remain subject to the requirements even if the throughput later falls below the 100,000 gallons throughput threshold.

[40 CFR 63.11111(d) and (i), 63.11113(c)]

3. Notification Requirements for GDFs with Monthly Throughputs Greater Than or Equal to 10,000 Gallons and Less Than 100,000 Gallons

a. The Permittee shall submit an Initial Notification to the Director and the EPA Administrator at the time a GDF becomes subject to the control requirements of Condition VII.B.2.c. The Initial Notification shall contain the information specified in 40 CFR 63.11124(a)(1)(i) through 40 CFR 63.11124(a)(1)(iii).

[40 CFR 63.11111(c), 63.11117(e), and 63.11124(a)(1)]

b. The Permittee shall submit a Notification of Compliance Status to the Director and the EPA Administrator, as specified in 40 CFR 63.13 within 60 days of the applicable compliance date specified in 40 CFR 63.11113. The Notification of Compliance Status shall be signed by a responsible official who shall certify its accuracy, shall indicate whether the source has complied with the requirements of 40 CFR 63 Subpart CCCCCC, and shall indicate whether the GDF's monthly throughput is calculated based on the volume of gasoline loaded into all storage tanks or on the volume of gasoline dispensed from all storage tanks. If the GDF is in compliance with the requirements of 40 CFR 63 Subpart CCCCCC at the time the Initial Notification required under Condition VII.B.3.a is due, the Notification of Compliance Status may be submitted in lieu of the Initial Notification provided it contains the information required by Condition VII.B.3.a.

[40 CFR 63.11111(c), 63.11117(e), and 63.11124(a)(2)]

4. Monitoring, Recordkeeping and Reporting Requirements

a. The Permittee shall upon request by the Director, demonstrate that the monthly throughput for an affected source is less than the 10,000-gallon or the 100,000-gallon threshold level, as applicable. The records shall be kept for a period of 5 years.

[40 CFR 63.11111(e]

b. Monthly throughput is the total volume of gasoline that is loaded into, or dispensed from, all gasoline storage tanks at each GDF during a month. Monthly throughput is calculated by summing the volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the current day, plus the total volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the previous 364 days, and then dividing that sum by 12.

[40 CFR 63.11111(h) and 63.11132]

c. The Permittee shall have records available within 24 hours of a request by the Director to document gasoline throughput.

[63.11116(b) and 63.11117(d)]

d. The Permittee shall maintain records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

[40 CFR 63.11115(b) and 63.11125(d)(1)]

e. The Permittee shall maintain records of actions taken during periods of malfunction to minimize emissions in accordance with Condition VII.B.2.a including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

[40 CFR 63.11115(b) and 63.11125(d)(2)]

f. The Permittee shall report, by March 15 of each year, the number, duration, and a brief description of each type of malfunction which occurred during the previous calendar year and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by the Permittee during a malfunction of an affected source to minimize emissions in accordance with Condition VII.B.2.a including actions taken to correct a malfunction. No report is necessary for a calendar year in which no malfunctions occurred.

[40 CFR 63.11115(b) and 63.11126(b)]

5. Permit Shield

Compliance with the requirements of Condition VII.B shall be deemed compliance with 40 CFR 63.11111(a), 63.11111(b), 63.11111(c), 63.11111(d), 63.11111(e), 63.11111(h), 63.11111(i), 63.11111(j), 63.11112(a), 63.11113(c), 63.11115(a), 63.11115(b), 63.11116(a), 63.11116(b), 63.11116(d), 63.11117(a), 63.11117(b), 63.11117(c), 63.11117(d), 63.11117(e), 63.11124(a)(1), 63.11124(a)(2), 63.11125(d), 63.11126(b), and 63.11132.

[A.A.C. R18-2-325]

VIII. FUGITIVE DUST REQUIREMENTS

A. Applicability

This Section applies to any non-point source of fugitive dust in the facility.

B. Particulate Matter and Opacity

Open Areas, Roadways & Streets, Storage Piles, and Material Handling

1. Emission Limitations and Standards

a. Opacity of emissions from any fugitive dust non-point source shall not be greater than 40%.

[A.A.C. R18-2-614]

b. The Permittee shall employ the following reasonable precautions to prevent excessive amounts of particulate matter from becoming airborne:

(1) Keep dust and other types of air contaminants to a minimum in an open area where construction operations, repair operations, demolition activities, clearing operations, leveling operations, or any earth moving or excavating activities are taking place, by good modern practices such as using an approved dust suppressant or adhesive soil stabilizer, paving, covering, landscaping, continuous wetting, detouring, barring access, or other acceptable means;

[A.A.C. R18-2-604.A]

(2) Keep dust to a minimum from driveways, parking areas, and vacant lots where motor vehicular activity occurs by using an approved dust suppressant, or adhesive soil stabilizer, or by paving, or by barring access to the property, or by other acceptable means;

[A.A.C. R18-2-604.B]

(3) Keep dust and other particulates to a minimum by employing dust suppressants, temporary paving, detouring, wetting down or by other reasonable means when a roadway or alley is used, repaired, constructed, or reconstructed;

[A.A.C. R18-2-605.A]

(4) Take reasonable precautions, such as wetting, applying dust suppressants, or covering the load when transporting material likely to give rise to airborne dust. Earth or other material that is deposited by trucking or earth moving equipment shall be removed from paved streets by the person responsible for such deposits;

[A.A.C. R18-2-605.B]

(5) Take reasonable precautions, such as the use of spray bars, wetting agents, dust suppressants, covering the load, and hoods when crushing, screening, handling, transporting or conveying of materials or other operations likely to result in significant amounts of airborne dust;

[A.A.C. R18-2-606]

(6) Take reasonable precautions such as chemical stabilization, wetting, or covering when organic or inorganic dust producing material is being stacked, piled, or otherwise stored;

[A.A.C. R18-2-607.A]

(7) Operate stacking and reclaiming machinery utilized at storage piles at all times with a minimum fall of material, or with the use of spray bars and wetting agents;

[A.A.C. R18-2-607.B]

(8) Operate mineral tailings piles by taking reasonable precautions to prevent excessive amounts of particulate matter from becoming airborne. Reasonable precautions shall mean wetting, chemical stabilization, revegetation or such other measures as are approved by the Director; and

[A.A.C. R18-2-608]

(9) Any other method as proposed by the Permittee and approved by the Director.

[A.A.C. R18-2-306.A.3.c]

2. Air Pollution Control Requirement

Haul Roads and Storage Piles

The Permittee shall maintain sufficient moisture and gravel application, and pave, sweep, or use an equivalent control to control visible emissions from haul roads and storage piles.

[A.A.C. R18-2-306.01.A and -331.A.3.d]
[Material Permit Conditions are indicated by underlines and italics]

3. Monitoring and Recordkeeping Requirements

a. The Permittee shall maintain records of the dates on which any of the activities above were performed and the control measures that were adopted as listed in Condition VIII.B.1.b.

[A.A.C. R18-2-306.A.3.c]

b. Opacity Monitoring Requirement

Each week, the Permittee shall monitor visible emissions from fugitive dust sources in accordance with Condition I.B of Attachment "B".

[A.A.C. R18-2-306.A.3.c]

C. Permit Shield

Compliance with the requirements of Condition VIII.B shall be deemed compliance with A.A.C. R18-2-604, -605, -606, 607, -608, and -614.

[A.A.C. R18-2-325]

IX. OTHER PERIODIC ACTIVITIES

A. Abrasive Blasting

1. Particulate Matter and Opacity

a. Emission Limitations and Standards

The Permittee shall not cause or allow sandblasting or other abrasive blasting without minimizing dust emissions to the atmosphere through the use of good modern practices. Good modern practices include:

[A.A.C. R18-2-726]

(1) Wet blasting;

(2) Effective enclosures with necessary dust collecting equipment; or

(3) Any other method approved by the Director.

b. Opacity

The Permittee shall not cause, allow or permit visible emissions from sandblasting or other abrasive blasting operations in excess of 20% opacity.

[A.A.C. R18-2-702.B.3]

2. Monitoring and Recordkeeping Requirements

a. Each time an abrasive blasting project is conducted, the Permittee shall make a record of the following:

[A.A.C. R18-2-306.A.3.c]

(1) The date the project was conducted;

(2) The duration of the project; and

(3) Type of control measures employed.

b. Each time an abrasive blasting project is conducted, the Permittee shall monitor visible emissions from the project in accordance with Condition I.B of Attachment “B”.

[A.A.C. R18-2-306.A.3.c]

3. Permit Shield

Compliance with the requirements of Condition IX.A.1.a shall be deemed compliance with A.A.C. R18-2-702.B.3 and -726.

[A.A.C. R18-2-325]

B. Use of Paints

1. Volatile Organic Compounds

a. Emission Limitations and Standards

While performing spray painting operations, the Permittee shall comply with the following requirements:

(1) The Permittee shall not conduct or cause to be conducted any spray painting operation without minimizing organic solvent emissions. Such operations, other than architectural coating and spot painting, shall be conducted in an enclosed area equipped with controls containing no less than 96 percent of the overspray.

[A.A.C. R18-2-727.A]

(2) The Permittee or their designated contractor shall not either:

(a) Employ, apply, evaporate, or dry any architectural coating containing photochemically reactive solvents for industrial or commercial purposes; or

(b) Thin or dilute any architectural coating with a photochemically reactive solvent.

[A.A.C. R18-2-727.B]

(3) For the purposes of Condition IX.B.1.a(2), a photochemically reactive solvent shall be any solvent with an aggregate of more than 20 percent of its total volume composed of the chemical compounds classified in Condition IX.B.1.a(3)(a) through Condition IX.B.1.a(3)(c), or which exceeds any of the following percentage composition limitations, referred to the total volume of solvent:

[A.A.C. R18-2-727.C]

(a) A combination of the following types of compounds having an olefinic or cyclo-olefinic type of unsaturation-hydrocarbons, alcohols, aldehydes, esters, ethers, or ketones: 5 percent.

[[A.A.C. R18-2-727.C.1]

(b) A combination of aromatic compounds with eight or more carbon atoms to the molecule except ethylbenzene: 8 percent.

[A.A.C. R18-2-727.C.2]

(c) A combination of ethylbenzene, ketones having branched hydrocarbon structures, trichloroethylene or toluene: 20 percent.

[A.A.C. R18-2-727.C.3]

(4) Whenever any organic solvent or any constituent of an organic solvent may be classified from its chemical structure into more than one of the groups of organic compounds described in Condition IX.B.1.a(3), it shall be considered to be a member of the group having the least allowable percent of the total volume of solvents.

[A.A.C. R18-2-727.D]

b. Monitoring and Recordkeeping Requirements

(1) Each time a spray painting project is conducted, the Permittee shall make a record of the following:
[A.A.C. R18-2-306.A.3.c]

(a) The date the project was conducted;

(b) The duration of the project;

(c) Type of control measures employed;

(d) Safety Data Sheets (SDS) for all paints and solvents used in the project; and

(e) The amount of paint consumed during the project.

(2) Architectural coating and spot painting projects shall be exempt from the recordkeeping requirements of Condition IX.B.1.b(1).

c. Permit Shield

Compliance with the requirements of Condition IX.B.1.a shall be deemed compliance with A.A.C. R18-2-727.
[A.A.C. R18-2-325]

2. Opacity

a. Emission Limitation and Standard

The Permittee shall not cause, allow or permit visible emissions from painting operations in excess of 20% opacity.
[A.A.C. R18-2-702.B.3]

b. Monitoring, Recordkeeping and Reporting Requirements

Each time a spray painting project is conducted, the Permittee shall monitor visible emissions from the project in accordance with Condition I.B of Attachment “B”.
[A.A.C. R18-2-306.A.3.c]

c. Permit Shield

Compliance with the requirements of Condition IX.B.2.a shall be deemed compliance with A.A.C. R18-2-702.B.3.
[A.A.C. R18-2-325]

C. Demolition and Renovation - Hazardous Air Pollutants

1. Emission Limitation and Standard

The Permittee shall comply with all the applicable requirements under 40 CFR 61 Subpart M for National Emission Standards for Hazardous Air Pollutants - Asbestos.

[A.A.C. R18-2-1101.A.12]

2. Monitoring and Recordkeeping Requirement

The Permittee shall keep all required records in a file. The required records shall include the “NESHAP Notification for Renovation and Demolition Activities” form and all supporting documents.

[A.A.C. R18-2-306.A.3.c]

3. Permit Shield

Compliance with the requirements of Condition IX.C.1 shall be deemed compliance with A.A.C. R18-2-1101.A.12.

[A.A.C. R18-2-325]

ATTACHMENT "C": EQUIPMENT LIST

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
Primary Crushing and Overland Conveying Operations							
PC1	Primary Crusher 1	5,865 tph	Allis-Chalmers	NA	NA	1975 (reconstruction date TBD)	Conditions II.A (A.A.C. R18-2-721, prior to reconstruction) and II.B (NSPS 40 CFR Part 60 Subpart LL, following reconstruction)
C18	Scrubber C18	11,000 acfm	Rotoclone	Type N Model B Design 4 Size 12	NA	2001	Conditions II.A (A.A.C. R18-2-721), II.B (NSPS 40 CFR Part 60 Subpart LL), and II.C
PC1SB	PC1 Surge Bin	600 tons	NA	NA	NA	1975 (reconstruction date TBD)	Condition II.A (A.A.C. R18-2-721)
PC1AF	PC1 Apron Feeder	5,865 tph	NA	NA	NA	1975 (reconstruction date TBD)	Condition II.A (A.A.C. R18-2-721)
OC1	Overland Conveyor 1	5,865 tph	NA	NA	NA	1975	Condition II.A (A.A.C. R18-2-721)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
OC2	Overland Conveyor 2	5,865 tph	NA	NA	NA	1975	Condition II.A (A.A.C. R18-2-721)
RB	Rock Breaker	N/A	NA	NA	NA	NA	Condition II.A (A.A.C. R18-2-721)
PC2	Primary Crusher 2	7,000 tph	Metso	60x89, MK-III	TBD	2019	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
C51	Dust Collector C51	15,000 acfm	FARR	GS 36/30	NA	2013	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.C
PC2SB	PC2 Surge Bin	640 tons	Designed by M3	NA	NA	2005	Condition II.A (A.A.C. R18-2-721)
PC2AF	PC2 Apron Feeder	6,700 tph	Metso	84"	NA	2005	Condition II.A (A.A.C. R18-2-721)
PC2DC	PC2 Dribble Conveyor	N/A	Turner Engineering	60"	NA	2005	Condition II.A (A.A.C. R18-2-721)
OC3A	Overland Conveyor 3A	7,600 tph	NA	60"	NA	2005	Condition II.A (A.A.C. R18-2-721)
OC3	Overland Conveyor 3	7,600 tph	NA	54"	NA	1975	Condition II.A (A.A.C. R18-2-721)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
OC4	Overland Conveyor 4	7,600 tph	NA	54"	NA	1975	Condition II.A (A.A.C. R18-2-721)
RST5	Radial Stacker 5	7,600 tph	NA	60"	NA	1975	Condition II.A (A.A.C. R18-2-721)
FSS6	Free-Standing Stacker 6	7,600 tph	NA	60"	NA	1990	Condition II.A (A.A.C. R18-2-721)
Milling Operations							
Grinding Line 1							
GL1-VF2	GL1 Vibrating Feeder 2	797 tph	Syntron	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL1-VF3	GL1 Vibrating Feeder 3	797 tph	Syntron	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL1-VF4	GL1 Vibrating Feeder 4	797 tph	Syntron	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL1-VF5	GL1 Vibrating Feeder 5	797 tph	Syntron	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL1-BCA	GL1 Belt Conveyor A	2,380 tph	NA	48"	NA	1976	Condition II.A (A.A.C. R18-2-721)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
GL1-GM1	GL1 Primary Grinding Mill	2,280 tph	Koppers	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL1-VS1	GL1 Vibrating Screen	2,280 tph	FLSmidth	8' x 20'	NA	2017	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
GL1-BC2	GL1 Belt Conveyor 2	1,300 tph	NA	36"	NA	Pre-1982	Condition II.A (A.A.C. R18-2-721)
GL1-BC3	GL1 Belt Conveyor 3	1,300 tph	NA	36"	NA	Pre-1982	Condition II.A (A.A.C. R18-2-721)
GL1-DG	GL1 Diverter Gate	N/A	NA	NA	NA	NA	Condition II.A (A.A.C. R18-2-721)
GL1-BCB	GL1 Belt Conveyor B	1,300 tph	NA	40"	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL1-SC1	GL1 Secondary Crusher	650 tph	Metso	MP800	NA	2008	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
C1	GL1 Dust Collector C1	15,000 acfm	FARR	GS 36/30	NA	2013	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.C
GL1-BC5	GL1 Belt Conveyor 5	1,300 tph	NA	36"	NA	Pre-1982	Condition II.A (A.A.C. R18-2-721)
GL1-GM2	GL1 Secondary Grinding Mill	2,563 tph	Metso	15.5' x 20'	NA	1976	Condition II.A (A.A.C. R18-2-721)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
Grinding Line 2							
GL2-VF2	GL2 Vibrating Feeder 2	797 tph	Syntron	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL2-VF3	GL2 Vibrating Feeder 3	797 tph	Syntron	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL2-VF4	GL2 Vibrating Feeder 4	797 tph	Syntron	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL2-VF5	GL2 Vibrating Feeder 5	797 tph	Syntron	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL2-BCA	GL2 Belt Conveyor A	2,380 tph	NA	48"	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL2-GM1	GL2 Primary Grinding Mill	2,280 tph	Koppers	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL2-VS1	GL2 Vibrating Screen	2,280 tph	FLSmidth	8' x 20'	NA	2017	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
GL2-BC2	GL2 Belt Conveyor 2	1,300 tph	NA	36"	NA	Pre-1982	Condition II.A (A.A.C. R18-2-721)
GL2-BC3	GL2 Belt Conveyor 3	1,300 tph	NA	36"	NA	Pre-1982	Condition II.A (A.A.C. R18-2-721)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
GL2-DG	GL2 Diverter Gate	N/A	NA	NA	NA	NA	Condition II.A (A.A.C. R18-2-721)
GL2-BCB	GL2 Belt Conveyor B	1,300 tph	NA	40"	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL2-SC2	GL2 Secondary Crusher	650 tph	Metso	MP800	NA	2008	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
C2	GL2 Dust Collector C2	15,000 acfm	FARR	GS 36/30	NA	2012	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.C
GL2-BC5	GL2 Belt Conveyor 5	1,300 tph	NA	36"	NA	Pre-1982	Condition II.A (A.A.C. R18-2-721)
GL2-GM2	GL2 Secondary Grinding Mill	2,563 tph	Metso	15.5' x 20'	NA	1976	Condition II.A (A.A.C. R18-2-721)
Grinding Line 3							
GL3-VF2	GL3 Vibrating Feeder 2	797 tph	Syntron	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL3-VF3	GL3 Vibrating Feeder 3	797 tph	Syntron	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL3-VF4	GL3 Vibrating Feeder 4	797 tph	Syntron	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
GL3-VF5	GL3 Vibrating Feeder 5	797 tph	Syntron	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL3-BCA	GL3 Belt Conveyor A	2,380 tph	NA	48"	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL3-GM1	GL3 Primary Grinding Mill	2,280 tph	Koppers	NA	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL3-VS1	GL3 Vibrating Screen	2,280 tph	FLSmidth	8' x 20'	NA	2017	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
GL3-BC2	GL3 Belt Conveyor 2	1,300 tph	NA	36"	NA	Pre-1982	Condition II.A (A.A.C. R18-2-721)
GL3-BC3	GL3 Belt Conveyor 3	1,300 tph	NA	36"	NA	Pre-1982	Condition II.A (A.A.C. R18-2-721)
GL3-DG	GL3 Diverter Gate	N/A	NA	NA	NA	NA	Condition II.A (A.A.C. R18-2-721)
GL3-BCB	GL3 Belt Conveyor B	1,300 tph	NA	40"	NA	1976	Condition II.A (A.A.C. R18-2-721)
GL3-SC3	GL3 Secondary Crusher	650 tph	Metso	MP800	NA	1999	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
DC3	GL3 Dust Collector DC3	15,000 acfm	FARR	GS 36/30	NA	2015	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.C

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
GL3-BC5	GL3 Belt Conveyor 5	1,300 tph	NA	36"	NA	Pre-1982	Condition II.A (A.A.C. R18-2-721)
GL3-GM2	GL3 Secondary Grinding Mill	2,563 tph	Metso	15.5' x 20'	NA	1976	Condition II.A (A.A.C. R18-2-721)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
Grinding Line 4							
GL4-VF2	GL4 Vibrating Feeder 2	1,231 tph	Syntron	NA	NA	1981	Condition II.A (A.A.C. R18-2-721)
GL4-VF3	GL4 Vibrating Feeder 3	1,231 tph	Syntron	NA	NA	1981	Condition II.A (A.A.C. R18-2-721)
GL4-VF4	GL4 Vibrating Feeder 4	1,231 tph	Syntron	NA	NA	1981	Condition II.A (A.A.C. R18-2-721)
GL4-VF5	GL4 Vibrating Feeder 5	1,231 tph	Syntron	NA	NA	1981	Condition II.A (A.A.C. R18-2-721)
GL4-BCA	GL4 Belt Conveyor A	2,380 tph	NA	48"	NA	1981	Condition II.A (A.A.C. R18-2-721)
GL4-GM1	GL4 Primary Grinding Mill	2,280 tph	Koppers	NA	NA	1981	Condition II.A (A.A.C. R18-2-721)
GL4-VS1	GL4 Vibrating Screen	2,280 tph	FLSmidth	8' x 20'	NA	2016	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
GL4-BC2	GL4 Belt Conveyor 2	1,300 tph	NA	36"	NA	Pre-1982	Condition II.A (A.A.C. R18-2-721)
GL4-BC3	GL4 Belt Conveyor 3	1,300 tph	NA	36"	NA	Pre-1982	Condition II.A (A.A.C. R18-2-721)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
GL4-DG	GL4 Diverter Gate	N/A	NA	NA	NA	NA	Condition II.A (A.A.C. R18-2-721)
GL4-BCB	GL4 Belt Conveyor B	1,300 tph	NA	40"	NA	1981	Condition II.A (A.A.C. R18-2-721)
GL4-SC4	GL4 Secondary Crusher	650 tph	Metso	MP800	NA	2008	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
DC4	GL4 Dust Collector DC4	15,000 acfm	FARR	GS 40/32	NA	2015	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.C
GL4-BC5	GL4 Belt Conveyor 5	1,300 tph	NA	36"	NA	Pre-1982	Condition II.A (A.A.C. R18-2-721)
GL4-GM2	GL4 Secondary Grinding Mill	2,563 tph	Metso	15.5' x 20'	C.684	1981	Condition II.A (A.A.C. R18-2-721)
Grinding Line 5							
GL5-VF2	GL5 Vibrating Feeder 2	1,231 tph	Syntron	NA	NA	1989	Condition II.A (A.A.C. R18-2-721)
GL5-VF3	GL5 Vibrating Feeder 3	1,231 tph	Syntron	NA	NA	1989	Condition II.A (A.A.C. R18-2-721)
GL5-VF4	GL5 Vibrating Feeder 4	1,231 tph	Syntron	NA	NA	1989	Condition II.A (A.A.C. R18-2-721)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
GL5-VF5	GL5 Vibrating Feeder 5	1,231 tph	Syntron	NA	NA	1989	Condition II.A (A.A.C. R18-2-721)
GL5-BCA	GL5 Belt Conveyor A	2,380 tph	NA	48"	NA	1989	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
GL5-GM1	GL5 Primary Grinding Mill	2,280 tph	Koppers	NA	NA	1989	Condition II.A (A.A.C. R18-2-721)
GL5-VS1	GL5 Vibrating Screen	2,280 tph	FLSmidth	8' x 20'	NA	2018	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
GL5-BC2	GL5 Belt Conveyor 2	1,300 tph	NA	36"	NA	Post-1982	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
GL5-BC3	GL5 Belt Conveyor 3	1,300 tph	NA	36"	NA	Post-1982	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
GL5-DG	GL5 Diverter Gate	N/A	NA	NA	NA	NA	Condition II.A (A.A.C. R18-2-721)
GL5-BCB	GL5 Belt Conveyor B	1,300 tph	NA	40"	NA	1988	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
GL5-SC5	GL5 Secondary Crusher	650 tph	Metso	MP800	NA	2008	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
DC5	GL5 Dust Collector DC5	15,000 acfm	FARR	GS 36/30	NA	2022	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.C

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
GL5-BC5	GL5 Belt Conveyor 5	1,300 tph	NA	36"	NA	Post-1982	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
GL5-GM2	GL5 Secondary Grinding Mill	2,563 tph	Bolden Allis	NA	NA	1989	Condition II.A (A.A.C. R18-2-721)
Grinding Line Spare Equipment							
GL-Spare1	GL Spare Vibrating Screen 1	2,280 tph	FLSmidth	8' x 20'	NA	Post-1982	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
GL-Spare2	GL Spare Vibrating Screen 2	2,280 tph	FLSmidth	8' x 20'	NA	Post-1982	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
Bulk and Molybdenum Flotation Operations							
CMF-B1	Bulk Flotation Equipment	N/A	NA	NA	NA	varies	Conditions II.A (A.A.C. R18-2-721) and III.A (A.A.C. R18-2-730)
TRS1	Tramp Reject Screen 1	N/A	Allis-Chalmers	10' x 24'	NA	1975	Condition II.A (A.A.C. R18-2-721)
TRS2	Tramp Reject Screen 2	N/A	Allis-Chalmers	10' x 24'	NA	1981	Condition II.A (A.A.C. R18-2-721)
TM1	Tower Mill 1	385.25 tph	Metso	VTM-1000-WB	NA	2018	Condition II.A (A.A.C. R18-2-721)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
TM2	Tower Mill 2	385.25 tph	Metso	VTM-1000-WB	NA	2018	Condition II.A (A.A.C. R18-2-721)
CMF-M	Molybdenum Flotation Equipment	N/A	NA	NA	NA	varies	Conditions II.A (A.A.C. R18-2-721) and III.A (A.A.C. R18-2-730)
Copper Concentrate Processing and Loading Operations							
CuBC3a	Concentrate Filter Conveyor 1	120 tph	Superior Industries	NA	NA	2015	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
CuBC3b	Concentrate Filter Conveyor 2	120 tph	Superior Industries	NA	NA	2015	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
CuBC4	Filtered Concentrate Transfer Conveyor	240 tph	Superior Industries	NA	NA	2015	Conditions II.A (A.A.C. R18-2-721, when transferring to a stockpile) and II.B (NSPS 40 CFR Part 60 Subpart LL, when transferring onto the

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
CuStB	Enclosed Copper Concentrate	N/A	NA	NA	NA	2015	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
Molybdenum Concentrate Processing and Bagging Operations							
MPSC1	Molybdenum Concentrate Screw Conveyor	5.0 tph	KWS	NA	NA	2008	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
MPSB	Molybdenum Concentrate Surge Bin	5.0 tph	NA	NA	NA	2008	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
MPBGR	Molybdenum Concentrate Bagger	5.0 tph	Flexicon	Swing-Down Filler BFS	NA	2008	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
Concentrate Leach Plant							
Pressure Leach Vessel and Support Equipment							

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
G2	Pressure Leach Vessel	10.5 tph	NA	NA	NA	2002	Condition III.A (A.A.C. R18-2-730)
CH-02	Primary Venturi Scrubber CH-02	19,950 acfm	NA	NA	NA	2002	Conditions III.A (A.A.C. R18-2-730) and III.B
CH-03	Secondary Venturi Scrubber CH-03	23,990 acfm	NA	NA	NA	2002	Conditions III.A A (A.A.C. R18-2-730) and III.B
G1	Natural Gas Backup Package Boiler	25 MMBtu/hr	NA	NA	NA	2002	Condition IV.B (NSPS 40 CFR Part 60 Subpart Dc)
G3	Natural Gas Primary Package Boiler	25 MMBtu/hr	Clayton	EG604-7-FMB	TBD	TBD	Condition IV.B (NSPS 40 CFR Part 60 Subpart Dc)
G7	CLP Cooling Tower	4,000 gpm (total)	SPX Cooling Technologies, Inc.	NC8409UAN	NC-10144664-A1	2017	Condition III.A (A.A.C. R18-2-730)
Molybdenum Concentrate Handling							
M-CFH	Molybdenum Concentrate Feed Hopper 1	4.0 tph	NA	NA	NA	2008	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
M-BFd	Molybdenum Concentrate Belt Feeder	4.0 tph	NA	NA	NA	2008	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
M-SC1	Molybdenum Concentrate Screw Conveyor	4.0 tph	NA	NA	NA	2008	Condition II.A (A.A.C. R18-2-721)
M-SD	Deoiler	4.0 tph	NA	NA	NA	2008	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and III.A (A.A.C. R18-2-730)
M-SG	Natural Gas Steam Generator	5.23 MMBtu/hr	NA	NA	NA	2008	Condition IV.A (A.A.C. R18-2-724)
M-DH	Natural Gas Deoiler Heater	6.5 MMBtu/hr	NA	NA	NA	2008	Condition IV.A (A.A.C. R18-2-724)
M-VS	Venturi Scrubber	50 acfm	NA	NA	NA	2008	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
M-VSa	Venturi Scrubber (alternate)	50 acfm	Mikropul	NA	NA	2021	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
M-PS1	Packed Scrubber 1	50 acfm	NA	NA	NA	2008	Conditions III.A (A.A.C. R18-2-730) and III.B
M-PS2	Packed Scrubber 2	50 acfm	NA	NA	NA	2008	Conditions III.A (A.A.C. R18-2-730) and III.B
M-F	Natural Gas Flare	1.55 MMBtu/hr	Epcon	E-DF-500-V-T	703-1046	2008	Conditions III.A (A.A.C. R18-2-730) and III.B

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
M-ST	Settling Tank	3,294 gal	NA	6'H x 16'D	NA	2011	Condition III.A (A.A.C. R18-2-730)
M-CFH3	Molybdenum Concentrate Feed Hopper 3	180 ft^3	NA	NA	NA	2021	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
M-DC2	Molybdenum Concentrate Dust Collector 2	500 scfm	NA	NA	NA	2021	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
M-MSC	Molybdenum Concentrate Metering Screw	5.0 tph	NA	6" D x 5' L	NA	2022	Condition II.A (A.A.C. R18-2-721)
M-SC3	Molybdenum Concentrate Screw Conveyor	5.0 tph	NA	9" D x 53' L	NA	2021	Condition II.A (A.A.C. R18-2-721)
M-CFH4	Molybdenum Concentrate Feed Hopper 4	90 ft^3	NA	NA	NA	2021	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
M-DC1	Molybdenum Concentrate Dust Collector 1	900 acfm	Envirosystems	NA	NA	2008	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
M-TDC1	Molybdenum Concentrate Tubular Drag	8.0 tph	NA	NA	NA	2008	Condition II.A (A.A.C. R18-2-721)
M-FGM1	Molybdenum Concentrate Fine Grinding	NA	NA	NA	NA	2011	Condition II.A (A.A.C. R18-2-721)
M-FGM2	Molybdenum Concentrate	NA	NA	NA	NA	TBD	Condition II.A (A.A.C. R18-2-721)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
	Fine Grinding Mill 2						
M-RB	Molybdenum Concentrate Re-Bagger	37.5 tph	NA	NA	NA	2025	Condition II.B (NSPS NSPS 40 CFR Part 60 Subpart LL)
MoO3 and Rhenium Processing							
HBF Screen 1	MoO3 HBF Feed Vibrating Screen	4.0 tph	SWECO	MX48Y88SDTL	088177-a01/15	2015	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
M-BFlt	MoO3 Belt Filter	4.0 tph	NA	NA	NA	2008	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
M-BFlt2	MoO3 Horizontal Belt Filter	4.0 tph	FLSmidth	3100M55.8	CSP0001080-01A	2015	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
M-PrS	MoO_3 Product Screen	7.0 tph	Sweco	TBD	TBD	2022	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
M-SF	MoO_3 Screw Feeder	7.0 tph	NA	9" D x 21'-6" L	NA	2022	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)
M-ISC	MoO_3 Inclined Screw Conveyor	7.0 tph	NA	9" D x 25' L	NA	2022	Condition II.B (NSPS 40 CFR Part 60 Subpart LL)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
M-MXS1	Mixer Extraction Settler 1	283.33 ft2	NA	NA	NA	2011	Condition III.A (A.A.C. R18-2-730)
M-MXS2	Mixer Extraction Settler 2	283.33 ft2	NA	NA	NA	2011	Condition III.A (A.A.C. R18-2-730)
M-MWS	Mixer Washer Settler	283.33 ft2	NA	NA	NA	2011	Condition III.A (A.A.C. R18-2-730)
M-MSS1	Mixer Stripper Settler 1	283.33 ft2	NA	NA	NA	2011	Condition III.A (A.A.C. R18-2-730)
M-MSS2	Mixer Stripper Settler 2	283.33 ft2	NA	NA	NA	2011	Condition III.A (A.A.C. R18-2-730)
SASC	Soda Ash Screw Conveyor	1.2 tph	NA	NA	NA	2022	Condition III.A (A.A.C. R18-2-730)
SASB-G4	Soda Ash Storage Bin	40 tons	NA	NA	NA	2003	Condition III.A (A.A.C. R18-2-730)
G4	Soda Ash Storage Bin Bin Vent	N/A	FARR	GS6 BV	NA	2013	Condition III.A (A.A.C. R18-2-730)
Solution Extraction/Electrowinning Operations							
--	SX Mixers (28)	50.27 ft2 each	NA	NA	NA	1969	Condition III.A (A.A.C. R18-2-730)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
--	SX Settlers (28)	812 ft2 each	NA	NA	NA	1969	Condition III.A (A.A.C. R18-2-730)
TK-22	Organic Tank TK-22	40,215 gal	NA	21'W x 33'L x 7.758'H	NA	NA	Condition III.A (A.A.C. R18-2-730)
TK-13	Organic Mix Tank TK-13	67,753 gal	NA	31'D x 12'H	NA	NA	Condition III.A (A.A.C. R18-2-730)
C23	Electrowinning Cells (108)	5,265 ft2 total	NA	NA	NA	1969 (48 cells) 1993 (8 cells) 2003 (52 cells)	Condition III.A (A.A.C. R18-2-730)
IA03c-NG	Natural Gas Hot Water Pressure Washer 3	0.40 MMBtu/hr	HydroBlaster	5/3000EHGY	NA	1992	Condition IV.A (A.A.C. R18-2-724)
IA03d-NG	Natural Gas Hot Water Pressure Washer 4	0.40 MMBtu/hr	HydroBlaster	5/3000EHGY	NA	1992	Condition IV.A (A.A.C. R18-2-724)
IA39-NG	Natural Gas SX Pressure Washer	0.34 MMBtu/hr	Sioux	H4N2750	1801018	TBD	Condition IV.A (A.A.C. R18-2-724)
C23b	Natural Gas Hot Water Heater	6.842 MMBtu/hr	QuikWater	8000-2M/900	NA	1996	Condition IV.A (A.A.C. R18-2-724)
G5	Natural Gas Electrolyte Heater	5.44 MMBtu/hr	NA	NA	NA	2003	Condition IV.A (A.A.C. R18-2-724)
Lime Storage and Handling Operations							

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
LHS-LSB1	Lime Storage Bin 1	500 tons	NA	NA	NA	1976	Condition III.A (A.A.C. R18-2-730)
BV01	Lime Storage Bin 1 Bin Vent	3,500 cfm	FARR	GS4	NA	NA	Condition III.A (A.A.C. R18-2-730)
LHS-LWF1	Lime Weigh Feeder 1	13 tph	NA	NA	NA	1976	Condition III.A (A.A.C. R18-2-730)
LHS-GM1	Lime Grinding Mill 1	13 tph	Denver	NA	NA	1976	Condition III.A (A.A.C. R18-2-730)
PoB1	Lime Porta Batches	9.60 tph total	varies	NA	varies	varies	Condition III.A (A.A.C. R18-2-730)
355-CV-001	Lime Slaker Conveyor 1	22 tph	TBD	TBD	TBD	TBD	Condition III.A (A.A.C. R18-2-730)
355-ML-001	Lime Slaking Mill 1	22 tph	TBD	TBD	TBD	TBD	Condition III.A (A.A.C. R18-2-730)
355-DC-001	Lime Slaking Scrubber 1	TBD	TBD	TBD	TBD	TBD	Condition III.A (A.A.C. R18-2-730)
355-CV-002	Lime Slaker Conveyor 2	22 tph	TBD	TBD	TBD	TBD	Condition III.A (A.A.C. R18-2-730)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
355-ML-002	Lime Slaking Mill 2	22 tph	TBD	TBD	TBD	TBD	Condition III.A (A.A.C. R18-2-730)
355-DC-002	Lime Slaking Scrubber 2	TBD	TBD	TBD	TBD	TBD	Condition III.A (A.A.C. R18-2-730)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
Ammonium Nitrate Prill Delivery and Handling Operations							
PB1	Prill Bin 1	93.5 tons	NA	NA	NA	1990	Condition III.A (A.A.C. R18-2-730)
PB2	Prill Bin 2	93.5 tons	NA	NA	NA	1990	Condition III.A (A.A.C. R18-2-730)
PB3	Prill Bin 3	93.5 tons	NA	NA	NA	TBD	Condition III.A (A.A.C. R18-2-730)
PB4	Prill Bin 4	100 tons	NA	NA	NA	TBD	Condition III.A (A.A.C. R18-2-730)
PB5	Prill Bin 5	100 tons	NA	NA	NA	TBD	Condition III.A (A.A.C. R18-2-730)
Portable Aggregate System							
PASHG	Hopper with Vibrating Grizzly Feeder	850 tph	Deister	NA	NA	2015	Conditions V.A (A.A.C. R18-2-722, Hopper) and V.B (NSPS 40 CFR Part 60 Subpart OOO, Grizzly)
PASJC	Jaw Crusher	850 tph	Sandvik	CJ412	NA	2015	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
PASBC3	Jaw Crusher Discharge Conveyor	850 tph	SPEC	12347	NA	2015	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
PASBC1	Screen Feed Conveyor	850 tph	Superior Industries, Inc.	48X70TFC	1387020	November 2018	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
PASSC	Triple Deck Screen with Discharge	850 tph	Deister	NA	NA	2015	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
PASBC2	Cone Feed Conveyor	850 tph	Superior Industries, Inc.	NA	NA	2015	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
PASCC	Cone Crusher with Discharge Conveyor	850 tph	Sandvik	CH440	NA	2015	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
PASST1	Coarse Stacking Conveyor	850 tph	Superior Industries, Inc.	NA	NA	2015	Conditions V.A (A.A.C. R18-2-722, transfer from) and V.B (NSPS 40 CFR Part 60 Subpart OOO, transfer to)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
PASST2	Fines Stacking Conveyor	850 tph	Superior Industries, Inc.	NA	NA	2015	Conditions V.A (A.A.C. R18-2-722, transfer from) and V.B (NSPS 40 CFR Part 60 Subpart OOO, transfer to)
Supplemental Portable Aggregate System							
SPAS_VGF1	Item 1 SPAS Vibrating Grizzly Feeder	540 tph	Astec	50"W x 24'L	TBD	TBD	Conditions V.A (A.A.C. R18-2-722)
SPAS_C1	Item 1 SPAS Jaw Crusher	540 tph	Astec	VS4450	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_CV1	Item 1 SPAS Conveyor 54x42	540 tph	Astec	54"W x 42'L	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_CV2	Item 2 SPAS Conveyor 48x80	990 tph	Goodfellow	48"W x 80'L	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_S3	Item 3 SPAS Vibrating Screen	990 tph	Astec	8203	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
SPAS_CV3	Item 3 SPAS Conveyor 48x22	450 tph	Goodfellow	48"W x 22'L	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_CV4	Item 4 SPAS Conveyor 42x30	450 tph	Goodfellow	42"W x 30'L	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_CV5	Item 5 SPAS Conveyor 42x60	450 tph	Goodfellow	42"W x 60'L	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_SBF6	Item 6 SPAS Surge Bin with Belt Feeder	450 tph	Goodfellow	SBF1116-42	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_CV7	Item 7 SPAS Conveyor 42x60	450 tph	Goodfellow	42"W x 60'L	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_C8	Item 8 SPAS Cone Crusher	450 tph	Astec	K400+	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_CV9	Item 9 SPAS Conveyor 42x40	450 tph	Astec	42"W x 40'L	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
SPAS_CV10	Item 10 SPAS Conveyor 36x30	150 tph	Goodfellow	36"W x 30'L	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_CV11	Item 11 SPAS Conveyor 36x300	150 tph	Goodfellow	36"W x 300'L	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_CV12	Item 12 SPAS Radial Stacker 36x100	150 tph	Goodfellow	36"W x 100'L	TBD	TBD	Conditions V.A (A.A.C. R18-2-722, transfer from) and V.B (NSPS Subpart OOO, transfer to)
SPAS_CV13	Item 13 SPAS Conveyor 36x60	350 tph	Goodfellow	36"W x 60'L	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_SB14	Item 14 SPAS Splitter Box	350 tph	Goodfellow	SP54	TBD	TBD	Conditions V.A (A.A.C. R18-2-722)
SPAS_CV15	Item 15 SPAS Conveyor 36x100	100 tph	Goodfellow	36"W x 100'L	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_CV16	Item 16 SPAS Radial Stacker 36x100	100 tph	Goodfellow	36"W x 100'L	TBD	TBD	Conditions V.A (A.A.C. R18-2-722, transfer from) and V.B (NSPS

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
							Subpart 40 CFR Part 60 OOO, transfer to)
SPAS_CV17	Item 17 SPAS Conveyor 36x60	450 tph	Goodfellow	36"W x 60'L	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_CV18	Item 18 SPAS Conveyor 36x100	450 tph	Goodfellow	36"W x 100'L	TBD	TBD	Condition V.B (NSPS 40 CFR Part 60 Subpart OOO)
SPAS_CV19	Item 19 SPAS Radial Stacker 36x100	450 tph	Goodfellow	36"W x 100'L	TBD	TBD	Conditions V.A (A.A.C. R18-2-722, transfer from) and V.B (NSPS 40 CFR Part 60 Subpart OOO, transfer to)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
Storage Tanks and Parts Cleaning							
150	Gasoline Storage Tank 150 (GDF1)	12,000 gal	NA	8'D x 32'L	NA	1996	Conditions VII.A (A.A.C. R18-2-710) and VII.B (NESHAP 40 CFR 63 Subpart CCCCCC) (10,000 - 100,000 gallon monthly throughput)
FT-3	Gasoline Storage Tank FT-3 (GDF2)	12,000 gal	NA	8'D x 32'L	NA	2008	Conditions VII.A (A.A.C. R18-2-710) and VII.B (NESHAP 40 CFR 63 Subpart CCCCCC) (10,000 - 100,000 gallon monthly throughput)
GST-FF	Gasoline Storage Tank Sycamore TSF (GDF3)	12,000 gal	FlowTech Fueling	10'D x 20.5'L	NA	2023	Conditions VII.A A.A.C. R18-2- (710) and VII.B (NESHAP 40 CFR 63 Subpart CCCCCC) (<10,000-gallon monthly throughput)
GST-MO	Gasoline Storage Tank Mine Operations (GDF4)	12,000 gal	FlowTech Fueling	10'D x 20.5'L	NA	2025	Conditions VII.A (A.A.C. R18-2-710) and VII.B (NESHAP 40 CFR 63 Subpart CCCCCC)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
							(10,000 - 100,000 gallon monthly throughput)
PrtC	Parts Cleaning Equipment	571 gal	NA	NA	NA	NA	Condition III.A (A.A.C. R18-2-730)
T-XMS	Xanthate Mixing and Storage Tanks	TBD	NA	NA	NA	NA	Condition III.A (A.A.C. R18-2-730)
Diesel Emergency ICE							
C41-D	Mammoth Seepage Pond Diesel Emergency Generator	1,214 hp engine	Caterpillar	C27	TBD	2018	Conditions VI.B (NSPS 40 CFR Part 60 Subpart IIII) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA04-D	Diesel Emergency Generator IA04-D	59 hp engine	Dayton	4W121	837532	1990	Conditions VI.A (A.A.C. R18-2-719) and VI.D (NESHAP 40 CFR 63 Subpart ZZZZ)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
IA24-D	Diesel Emergency Generator IA24-D	762 hp engine	Caterpillar	D80-C15	C5E03893	2012	Conditions VI.B (NSPS 40 CFR Part 60 Subpart IIII) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA25-D	Diesel Emergency Generator IA25-D	90 hp engine	Caterpillar	D60-6 C4.4	E5A02346	2013	Conditions VI.B (NSPS 40 CFR Part 60 Subpart IIII) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA28-D	Diesel Emergency Generator IA28-D	900 hp engine	Caterpillar	C18	FST01186	2015	Conditions VI.B (NSPS 40 CFR Part 60 Subpart IIII) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA36-D	Diesel Emergency Generator IA36-D	161 hp engine	Caterpillar	D100-8 C4.4 DITA	TBD	2017 or 2018	Conditions VI.B (NSPS 40 CFR Part 60 Subpart IIII) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA42-D	Tailings Wing Dike Diesel Emergency Water Pump TLPUMP03	75 hp engine	John Deere	4045TF290A	15006010	2012	Conditions VI.B (NSPS 40 CFR Part 60 Subpart IIII) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
IA43-D	Tailings Wing Dike Diesel Emergency Water Pump	100 hp engine	Perkins	1104C-44T	RG51208 U165140L	2004	Conditions VI.A (A.A.C. R18-2-719) and VI.D (NESHAP 40 CFR 63 Subpart ZZZZ)
IA44-D	Copper Cleaner Flotation Diesel Emergency Generator IA44-D	480 hp engine	Caterpillar	C9	TBD	2020	Conditions VI.B (NSPS 40 CFR Part 60 Subpart IIII) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA47-D	CLP Diesel Emergency Generator IA47-D	85.8 hp engine	Caterpillar	C4.4	E3165768	2022	Conditions VI.B (NSPS 40 CFR Part 60 Subpart IIII) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA48-D	Mulholland Seepage Pond Diesel Emergency Generator IA48-D	398 hp engine	Caterpillar	C9	TBD	2021	Conditions VI.B (NSPS 40 CFR Part 60 Subpart IIII) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA49-D	Security Gate Diesel Emergency Generator IA49-D	33.5 hp engine	Generac Power Systems	RD02025ADAE	3013603396	2023	Conditions VI.B (NSPS 40 CFR Part 60 Subpart IIII) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
IA54-D	Command Center Diesel Emergency Generator IA54-D	480 hp engine	Caterpillar	D300 GC/C9	RE300501/ S9P03521	2023	Conditions VI.B (NSPS 40 CFR Part 60 Subpart IIII) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
Diesel Non-Emergency ICE							
IA14-DN	Diesel Non-Emergency Generator IA14-DN	128 hp engine	Generac Power Systems	5161580200	2082580	2005	Conditions VI.A (A.A.C. R18-2-719) and VI.G (NESHAP 40 CFR 63 Subpart ZZZZ)
IA15-DN	Diesel Non-Emergency Generator IA15-DN	130 hp engine	Caterpillar	D80-6	D4B01969	2010	Conditions VI.E (NESHAP 40 CFR 63 Subpart ZZZZ) and VI.F (NSPS 40 CFR Part 60 Subpart IIII)
IA45-DN	Copper Creek Flood Basin Diesel Non-Emergency Pump Engine	28.2 hp engine	Perkins	CP4	NA	2018	Conditions VI.E (NESHAP 40 CFR 63 Subpart ZZZZ) and VI.F (NSPS 40 CFR Part 60 Subpart IIII)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
IA46-DN	Lime Porta Batch Diesel Non-Emergency Engine	135 hp engine	NA	NA	NA	2010	Conditions VI.E (NESHAP 40 CFR 63 Subpart ZZZZ) and VI.F (NSPS 40 CFR Part 60 Subpart IIII)
IA53-DN	Mill Compressor Diesel Non-Emergency Engine IA53-DN	577 hp engine	Caterpillar	C13B / XAS 1800 CD PACE	UVC400405	2024	Conditions VI.E (NESHAP 40 CFR 63 Subpart ZZZZ) and VI.F (NSPS 40 CFR Part 60 Subpart IIII)
IA56-DN	Kimberly Diesel Non-Emergency Pump Engine	300 hp engine	John Deere	6068	116704	2019	Conditions VI.E (NESHAP 40 CFR 63 Subpart ZZZZ) and VI.F (NSPS 40 CFR Part 60 Subpart IIII)
Propane Emergency ICE							
IA16-P	Propane Emergency Generator IA16-P	13 hp engine	Generac Power Systems	0062450	8375562	2014	Conditions VI.C (NSPS 40 CFR Part 60 Subpart JJJJ) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
IA19-P	Propane Emergency Generator IA19-P	60 hp engine	Generac Power Systems	54210	5036335	6/16/2008	Conditions VI.A (A.A.C. R18-2-719) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA21-P	Propane Emergency Generator IA21-P	80 hp engine	Generac Power Systems	SD050AG035	8596712	2014	Conditions VI.C (NSPS 40 CFR Part 60 Subpart JJJJ) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA31-P	Propane Emergency Generator IA31-P	30.52 hp engine	Generac Power Systems	64591	9613173	2015	Conditions VI.C (NSPS 40 CFR Part 60 Subpart JJJJ) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA32-P	Propane Emergency Generator IA32-P	32 hp engine	Generac Power Systems	005885-0	6216057	2011	Conditions VI.C (NSPS 40 CFR Part 60 Subpart JJJJ) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
IA37-P	Propane Emergency Generator IA37-P	113.18 hp engine	Caterpillar (PSI)	DG50-2 (PSI-GM 5.7L Turbo engine)	TBD	2019	Conditions VI.C (NSPS 40 CFR Part 60 Subpart JJJJ) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA38-P	Propane Emergency Generator IA38-P	113.18 hp engine	Caterpillar (PSI)	DG50-2 (PSI-GM 5.7L Turbo engine)	TBD	2019	Conditions VI.C (NSPS 40 CFR Part 60 Subpart JJJJ) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA55-P	Sycamore Communication Tower Propane Emergency Generator IA55-	103 hp engine	Kohler	KG50/KG6208	TBD	2022	Conditions VI.C (NSPS 40 CFR Part 60 Subpart JJJJ) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
Propane Non-Emergency ICE							
IA10-PN	Propane Non-Emergency Generator IA10-PN	27 hp engine	Generac Power Systems	0053360	4636845	2006	Conditions VI.A (A.A.C. R18-2-719) and VI.G (NESHAP 40 CFR 63 Subpart ZZZZ)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
IA18-PN	Propane Non-Emergency Generator IA18-PN	20 hp engine	Generac Power Systems	SG0047220	3702076	2003	Conditions VI.A (A.A.C. R18-2-719) and VI.G (NESHAP 40 CFR 63 Subpart ZZZZ)
Natural Gas Emergency ICE							
IA13-NG	Natural Gas Emergency Generator IA13-NG	17 hp engine	Generac Power Systems	0052420	4479209	2005	Conditions VI.A (A.A.C. R18-2-719) and VI.D (NESHAP 40 CFR 63 Subpart ZZZZ)
IA22-NG	Natural Gas Emergency Generator IA22-NG	199 hp engine	Detroit Brand MTU DD	130-GC6NL	MX-121236-0708	2011	Conditions VI.C (NSPS 40 CFR Part 60 Subpart JJJJ) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA23-NG	Natural Gas Emergency Generator IA23-NG	192 hp engine	Generac Power Systems	QT1306KNAC	6346402	2011	Conditions VI.C (NSPS 40 CFR Part 60 Subpart JJJJ) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
IA30-NG	Natural Gas Emergency Generator IA30-NG	40 hp engine	Cummins	C20N6	F150834056	2015	Conditions VI.C (NSPS 40 CFR Part 60 Subpart JJJJ) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA33-NG	Natural Gas Emergency Generator IA33-NG	31.83 hp engine	Generac Power Systems	QT0224JNAX	6661542	2011	Conditions VI.C (NSPS 40 CFR Part 60 Subpart JJJJ) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)
IA34-NG	Natural Gas Emergency Generator IA34-NG	32 hp engine	Generac Power Systems	RG02224ANAX	3000378055	2016	Conditions VI.C (NSPS 40 CFR Part 60 Subpart JJJJ) and VI.E (NESHAP 40 CFR 63 Subpart ZZZZ)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
Miscellaneous Fuel Burning Equipment							
IA51-NG	Natural Gas Mill Wash Rack Pressure	0.72045 MMBtu/hr	Hotsy	5735SS	TBD	2023	Condition IV.A (A.A.C. R18-2-724)
IA52-NG	Natural Gas Shower Facility Hot Water	0.499 MMBtu/hr	CAMUS Hydronics	VTNW 0499 MSI HL	091928733	2023	Condition IV.A (A.A.C. R18-2-724)
IA35-D	Diesel Pressure Washer IA35-D	0.3429 MMBtu/hr	Hotsy	1410SS	156517	12/2006	Condition IV.A (A.A.C. R18-2-724)
IA40-NG	Natural Gas Mine Shop Pressure	0.49 MMBtu/hr	EST	5231AEUL	NA	TBD	Condition IV.A (A.A.C. R18-2-724)
IA41-NG	Natural Gas Mine Shop Pressure	0.49 MMBtu/hr	EST	5231AEUL	NA	TBD	Condition IV.A (A.A.C. R18-2-724)
IA26-NG	Natural Gas Small Space Heaters,	9.499 MMBtu/hr (total)	varies	varies	varies	varies	Condition IV.A (A.A.C. R18-2-724)
IA27-P	Propane Small Space Heaters, Furnaces, and	0.95 MMBtu/hr (total)	varies	varies	varies	varies	Condition IV.A (A.A.C. R18-2-724)

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
AOS1: Two Concentrator Operations							
Primary Crushing and Overland Conveying Operations (to Bagdad Concentrator) (AOS1)							
RB	Rock Breaker (AOS1)	N/A	NA	NA	NA	NA	Conditions II.A (A.A.C. R18-2-721) and II.D.1
PC2	Primary Crusher 2 (AOS1)	7,000 tph	Metso	60x89, MK-III	TBD	2019	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
C51	Dust Collector C51 (AOS1)	15,000 acfm	FARR	GS 36/30	NA	2025	Conditions II.C and II.D.1
PC2SB	PC2 Surge Bin (AOS1)	640 tons	Designed by M3	NA	NA	2005	Conditions II.A (A.A.C. R18-2-721) and II.D.1
PC2AF	PC2 Apron Feeder (AOS1)	6,700 tph	Metso	84"	NA	2005	Conditions II.A (A.A.C. R18-2-721) and II.D.1
PC2DC	PC2 Dribble Conveyor (AOS1)	N/A	Turner Engineering	60"	NA	2005	Conditions II.A (A.A.C. R18-2-721) and II.D.1
OC3A	Overland Conveyor 3A (AOS1)	7,600 tph	NA	60"	NA	2005	Conditions II.A (A.A.C. R18-2-721) and II.D.1
OC3	Overland Conveyor 3 (AOS1)	7,600 tph	NA	54"	NA	1975	Conditions II.A (A.A.C. R18-2-721) and II.D.1

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
OC4	Overland Conveyor 4 (AOS1)	7,600 tph	NA	54"	NA	1975	Conditions II.A (A.A.C. R18-2-721) and II.D.1
RST5	Radial Stacker 5 (AOS1)	7,600 tph	NA	60"	NA	1975	Conditions II.A (A.A.C. R18-2-721) and II.D.1
FSS6	Free-Standing Stacker 6 (AOS1)	7,600 tph	NA	60"	NA	1990	Conditions II.A (A.A.C. R18-2-721) and II.D.1
Primary Crushing and Overland Conveying Operations (to Second Concentrator) (AOS1)							
2110-RKB-0021	PC1 Rock Breaker (AOS1)	N/A	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2110-CRG-0021	Primary Crusher 1 (AOS1)	8,000 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2140-DCD-0021	PC1 Dust Collector 1 (AOS1)	14,500 acfm	FARR	TBD	TBD	TBD	Conditions II.C and II.D.1
2110-BIN-0021	PC1 Surge Pocket (AOS1)	900 tons	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2110-FDA-0021	PC1 Discharge Apron Feeder (AOS1)	8,000 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
2140-CVB-0021	PC1 Discharge Conveyor (AOS1)	8,000 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2140-CVB-0022	PC1 Cross Country Conveyor 1	8,000 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2140-DCD-0022	PC1 CCC1 Dust Collector 2 (AOS1)	16,700 acfm	FARR	TBD	TBD	TBD	Conditions II.C and II.D.1
2140-CVB-0023	PC1 Cross Country Conveyor 2	8,000 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2140-DCD-0023	PC1 CCC2 Dust Collector 3 (AOS1)	16,700 acfm	FARR	TBD	TBD	TBD	Conditions II.C and II.D.1
2140-CVB-0024	PC1 Cross Country Conveyor 3	8,000 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2140-DCD-0024	PC1 CCC3 Dust Collector 4 (AOS1)	16,700 acfm	FARR	TBD	TBD	TBD	Conditions II.C and II.D.1
Second Concentrator Milling Operations (AOS1)							
2210-FDA-0101	Coarse Ore Reclaim Feeder 1 (AOS1)	2,185 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2210-FDA-0102	Coarse Ore Reclaim Feeder 2 (AOS1)	2,185 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
2210-FDA-0103	Coarse Ore Reclaim Feeder 3 (AOS1)	2,185 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2210-CVB-0101	Coarse Ore Reclaim Conveyor 1 (AOS1)	4,954 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2210-DCD-0101	Coarse Ore Reclaim Conveyor 1	22,000 acfm	FARR	TBD	TBD	TBD	Conditions II.C and II.D.1
2210-FDA-0201	Coarse Ore Reclaim Feeder 4 (AOS1)	2,185 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2210-FDA-0202	Coarse Ore Reclaim Feeder 5 (AOS1)	2,185 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2210-FDA-0203	Coarse Ore Reclaim Feeder 6 (AOS1)	2,185 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2210-CVB-0201	Coarse Ore Reclaim Conveyor 2	4,954 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2210-DCD-0201	Coarse Ore Reclaim Conveyor 2	22,000 acfm	FARR	TBD	TBD	TBD	Conditions II.C and II.D.1
2310-MLA-0101	AG Mill 1 (AOS1)	4,954 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
2310-SCN-0101	AG Mill 1 Discharge Screen 1	2,477 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2310-SCN-0102	AG Mill 1 Discharge Screen 2	2,477 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2310-SCN-0103	AG Mill Rotatable Discharge	2,477 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2340-MLB-0111	Ball Mill 1 (AOS1)	4,376 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2310-MLA-0201	AG Mill 2 (AOS1)	4,954 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2310-SCN-0201	AG Mill 2 Discharge Screen 1	2,477 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2310-SCN-0202	AG Mill 2 Discharge	2,477 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart
2310-SCN-0203	AG Mill Rotatable	2,477 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
2340-MLB-0211	Ball Mill 2 (AOS1)	4,376 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2330-CVB-0121	Pebble Conveyor (AOS1)	4,080 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2330-CVB-0122	HPGR Feed Bin Feed Conveyor (AOS1)	4,080 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2330-DVT-0123	HPGR Feed Diverter (AOS1)	N/A	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2330-BIN-0130	HPGR Feed Bin (AOS1)	11,400 ft3	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2330-FDB-0132	HPGR Belt Feeder (AOS1)	4,080 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2330-CVB-0134	HPGR Feed Conveyor (AOS1)	5,626 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2330-CRH-0140	High Pressure Grinding Roll (AOS1)	5,626 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
2330-DCD-0141	HPGR Discharge Dust Collector 7	23,000 acfm	FARR	TBD	TBD	TBD	Conditions II.C and II.D.1
2330-CVB-0141	HPGR Discharge Conveyor 1	5,626 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2330-CVB-0142	HPGR Discharge Conveyor 2	5,626 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2330-DCD-0142	HPGR Discharge Conveyor	27,000 acfm	FARR	TBD	TBD	TBD	Conditions II.C and II.D.1
2330-BIN-0150	HPGR Product Bin (AOS1)	20,700 ft3	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2330-DCD-0150	HPGR Product Bin Dust Collector 9	25,000 acfm	FARR	TBD	TBD	TBD	Conditions II.C and II.D.1
2330-FDB-0152	HPGR Product Recycle Feeder (AOS1)	1,546 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2330-FDB-0163	HPGR Product Feeder 1 (AOS1)	2,040 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
2330-FDB-0263	HPGR Product Feeder 2 (AOS1)	2,040 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2330-CVB-0163	HPGR Product Return Conveyor 1 (AOS1)	2,040 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2330-DCD-0163	HPGR Product Transfer Dust Collector 10	10,000 acfm	FARR	TBD	TBD	TBD	Conditions II.C and II.D.1
2330-CVB-0263	HPGR Product Return Conveyor 2 (AOS1)	2,040 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2330-DCD-0263	HPGR Product Transfer Dust Collector 11	10,000 acfm	FARR	TBD	TBD	TBD	Conditions II.C and II.D.1

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
Second Concentrator Bulk and Molybdenum Flotation Operations (AOS1)							
S-FLO-B	Second Concentrator Bulk Flotation	59.1 tph total conc.	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721), III.A (A.A.C. R18-2-730), and II.D.1
2420-MLV-0303	Second Concentrator Regrind Mill 1	250 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2420-MLV-0304	Second Concentrator Regrind Mill 2	250 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
S-FLO-M	Second Concentrator Molybdenum	59.1 tph total conc.	NA	NA	NA	Varies	Conditions II.A (A.A.C. R18-2-721), III.A (A.A.C. R18-2-730), and II.D.1
Second Concentrator Concentrate Handling Operations (AOS1)							
2630-SCN-0410	Copper Filter Feed Tank Trash Screen	57 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2520-SCN-0517	Molybdenum Thickener Trash Screen (AOS1)	N/A	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2520-HPR-0576	Molybdenum Concentrate Filter Discharge	N/A	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
2520-HPR-0577	Molybdenum Concentrate Filter Discharge	N/A	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2520-CVS-0576	Molybdenum Concentrate Dryer Screw	2.1 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2520-DRY-0576	Molybdenum Concentrate Dryer (AOS1)	2.1 tph	Holoflite	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.1
2520-SCU-0576	Molybdenum Dryer Wet Scrubber	337 acfm	TBD	TBD	TBD	TBD	Conditions II.C and II.D.1
2520-BIN-0576	Dried Molybdenum Concentrate	2.6 tons	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
2520-SYS-0576	Molybdenum Concentrate Bagging System	2.1 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.1
Second Concentrator Lime and Other Regent Operations (AOS1)							
2360-SLO-0140	Second Concentrator Lime Silo	617 tons	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
2360-BGH-0141	Second Concentrator Lime Silo	590 ft3	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
2360-FDR-0140	Second Concentrator Lime Screw	19.5 tph	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
2360-MLV-0140	Second Concentrator Lime Slaker	11.36 tph	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
2360-SCU-0140	Second Concentrator Lime System	4,400 scfm	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
2720-BIN-0720	Tailings Flocculant Bag Breaker Bin	2.0 tons	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
2720-FDR-0720	Tailings Flocculant Screw Feeder	0.83 tph	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
2510-BIN-0580	Concentrate Flocculant Bag Breaker Bin	1.0 tons	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
2510-FDR-0580	Concentrate Flocculant Screw Feeder	0.06 tph	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
2440-TNK-0150	Xanthate Mix Tank (AOS1)	1,575 ft3	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
2440-TNK-0152	Xanthate Holding Tank (AOS1)	2,040 ft3	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
2440-TNK-0160	Test Reagent Mix Tank (AOS1)	1,575 ft3	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
2440-TNK-0162	Test Reagent Holding Tank (AOS1)	2,040 ft3	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
2520-TNK-0591	NaHS Storage Tank (AOS1)	7,540 ft3	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
2520-TNK-0592	NaHS Distribution Tank (AOS1)	700 ft3	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
2520-SCU-0591	Second Concentrator NaHS System	735 acfm	TBD	TBD	TBD	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
Second Concentrator Prill Handling Operations (AOS1)							
PB6	Prill Bin 6 (AOS1)	100 tons	NA	NA	NA	TBD	Conditions III.A (A.A.C. R18-2-730) and II.D.1
Second Concentrator Emergency ICE (AOS1)							
2440-GEN-0101	Second Concentrator Diesel Emergency Generator 1	609 hp engine	Caterpillar	C13	TBD	TBD	Conditions VI.B (NSPS 40 CFR Part 60 Subpart IIII), VI.E (NESHAP 40 CFR 63 Subpart ZZZZ), and II.D.1

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
2500-GEN-0501	Second Concentrator Diesel Emergency Generator 2	762 hp engine	Caterpillar	C15	TBD	TBD	Conditions VI.B (NSPS 40 CFR Part 60 Subpart IIII), VI.E (NESHAP 40 CFR 63 Subpart ZZZZ), and II.D.1
3650-GEN-0801	Second Concentrator Propane Emergency Generator 1	84.70 hp engine	Cummins	QSJ5.9G-G1	TBD	2023	Conditions VI.C (NSPS 40 CFR Part 60 Subpart JJJJ), VI.E (NESHAP 40 CFR 63 Subpart ZZZZ), and II.D.1
3650-GEN-0802	Second Concentrator Propane Emergency Generator 2	84.70 hp engine	Cummins	QSJ5.9G-G1	TBD	2023	Conditions VI.C (NSPS 40 CFR Part 60 Subpart JJJJ), VI.E (NESHAP 40 CFR 63 Subpart ZZZZ), and II.D.1
AOS3: Upgrades to Milling Operations							
Grinding Line 1							
GL1-BCB	GL1 Belt Conveyor B (AOS3)	1,300 tph	NA	48"	NA	1976	Conditions II.A (A.A.C. R18-2-721) and II.D.2
GL1-SC1	GL1 Secondary Crusher (AOS3)	1,450 tph	Metso	MP1250	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart [illegible]) and II.D.2

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
Grinding Line 2							
GL2-BCB	GL2 Belt Conveyor B (AOS2)	1,300 tph	NA	48"	NA	1976	Conditions II.A (A.A.C. R18-2-721) and II.D.2
GL2-SC2	GL2 Secondary Crusher (AOS3)	1,450 tph	Metso	MP1250	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.2
Grinding Line 3							
GL3-BCB	GL3 Belt Conveyor B (AOS2)	1,300 tph	NA	48"	NA	1976	Conditions II.A (A.A.C. R18-2-721) and II.D.2
GL3-SC3	GL3 Secondary Crusher (AOS3)	1,450 tph	Metso	MP1250	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.2
Grinding Line 4							
GL4-BCB	GL4 Belt Conveyor B (AOS2)	1,300 tph	NA	48"	NA	1981	Conditions II.A (A.A.C. R18-2-721) and II.D.2
GL4-SC4	GL4 Secondary Crusher (AOS3)	1,450 tph	Metso	MP1250	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.2

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
Grinding Line 5							
GL5-BCB	GL5 Belt Conveyor B (AOS3)	1,300 tph	NA	48"	NA	1988	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.2
GL5-SC5	GL5 Secondary Crusher (AOS3)	1,450 tph	Metso	MP1250	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.2
AOS5: Emergency Grizzly Systems							
EG1	EGS Bar Grizzly 1 (AOS5)	5,000 tph	TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.3
EG2	EGS Bar Grizzly 2 (AOS5)		TBD	TBD	TBD	TBD	Conditions II.B (NSPS 40 CFR Part 60 Subpart LL) and II.D.3
EGAF1	EGS Apron Feeder 1 (AOS5)	5,000 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.3
EGAF2	EGS Apron Feeder 2 (AOS5)		TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.3

Equip. ID Number	Equipment Name	Maximum Capacity	Make	Model	Serial Number	Date of Manufacture	Applicable Attachment "B" Section or Condition (A.A.C./NSPS/NESHAP)
EGBC1	EGS Belt Conveyor 1 (AOS5)	5,000 tph	TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.3
EGBC2	EGS Belt Conveyor 2 (AOS5)		TBD	TBD	TBD	TBD	Conditions II.A (A.A.C. R18-2-721) and II.D.3

N/A – Not Applicable
NA – Not Available
TBD – To Be Determined

ATTACHMENT "D": PROCESSES WITH VOLUNTARY EMISSION LIMITATIONS

Process Number	Pollution Control Device Controlling the Process	Emission Units Associated with the Process	Attachment "B" Permit Condition Reference for Performance Testing Requirements
Section A ($PM/PM_{10} \leq 0.0135$ gr/dscf)			
001-1	Scrubber C18	• Primary Crusher 1	Condition II.C.3
		• Primary Crusher 1 to PC1 Surge Bin	
001-5	Dust Collector C51	• Primary Crusher 2	Condition II.C.3
		• Primary Crusher 2 to PC2 Surge Bin	
		• PC2 Surge Bin to PC2 Apron Feeder	
		• PC2 Apron Feeder to Overland Conveyor 3A	
		• PC2 Apron Feeder to PC2 Dribble Conveyor	
		• PC2 Dribble Conveyor to Overland Conveyor 3A	
001-5 (AOS1)	Dust Collector C51 (AOS1)	• Primary Crusher 2 (AOS1)	Condition II.C.3

Process Number	Pollution Control Device Controlling the Process	Emission Units Associated with the Process		Attachment "B" Permit Condition Reference for Performance Testing Requirements
		•	Primary Crusher 2 (AOS1) to PC2 Surge Bin (AOS1)	

Process Number	Pollution Control Device Controlling the Process	Emission Units Associated with the Process		Attachment "B" Permit Condition Reference for Performance Testing Requirements
Section A (PM/PM_{10} ≤ 0.0135 gr/dscf) (cont'd)				
001-5 (AOS1) (cont'd)	Dust Collector C51 (AOS1) (cont'd)	•	PC2 Surge Bin (AOS1) to PC2 Apron Feeder (AOS1)	Condition II.C.3 (cont'd)
		•	PC2 Apron Feeder (AOS1) to Overland Conveyor 3A (AOS1)	
		•	PC2 Apron Feeder (AOS1) to PC2 Dribble Conveyor (AOS1)	
		•	PC2 Dribble Conveyor (AOS1) to Overland Conveyor 3A (AOS1)	
Section B (PM/PM_{10} ≤ 0.0124 gr/dscf)				
002-1	GL1 Dust Collector C1	•	GL1 Vibrating Feeders 2/5 to GL1 Belt Conveyor A (also includes emissions from Coarse Ore Stockpile 1 to GL1 Vibrating Feeders 2/5 that are contained within the	Condition II.C.3
		•	GL1 Secondary Crusher	
		•	GL1 Secondary Crusher to GL1 Belt Conveyor A	
		•	GL1 Belt Conveyor 5 to GL1 Belt Conveyor A (negligible emissions due to cleaned, washed ore being transferred)	

Process Number	Pollution Control Device Controlling the Process	Emission Units Associated with the Process		Attachment "B" Permit Condition Reference for Performance Testing Requirements
Section B ($PM/PM_{10} \leq 0.0124$ gr/dscf) (cont'd)				
002-2	GL2 Dust Collector C2	•	GL2 Vibrating Feeders 2/5 to GL2 Belt Conveyor A (also includes emissions from Coarse Ore Stockpile 2 to GL2 Vibrating Feeders 2/5 that are contained within the	Condition II.C.3
		•	GL2 Secondary Crusher	
		•	GL2 Secondary Crusher to GL2 Belt Conveyor A	
		•	GL2 Belt Conveyor 5 to GL2 Belt Conveyor A (negligible emissions due to cleaned, washed ore being transferred)	
002-3	GL3 Dust Collector DC3	•	GL3 Vibrating Feeders 2/5 to GL3 Belt Conveyor A (also includes emissions from Coarse Ore Stockpile 3 to GL3 Vibrating Feeders 2/5 that are contained within the	Condition II.C.3
		•	GL3 Secondary Crusher	
		•	GL3 Secondary Crusher to GL3 Belt Conveyor A	
		•	GL3 Belt Conveyor 5 to GL3 Belt Conveyor A (negligible emissions due to cleaned, washed ore being transferred)	

Process Number	Pollution Control Device Controlling the Process	Emission Units Associated with the Process	Attachment "B" Permit Condition Reference for Performance Testing Requirements
Section B ($PM/PM_{10} \leq 0.0124$ gr/dscf) (cont'd)			
002-4	GL4 Dust Collector DC4	• GL4 Vibrating Feeders 2/5 to GL4 Belt Conveyor A (also includes emissions from Coarse Ore Stockpile 4 to GL4 Vibrating Feeders 2/5 that are contained within the	Condition II.C.3
		• GL4 Secondary Crusher	
		• GL4 Secondary Crusher to GL4 Belt Conveyor A	
		• GL4 Belt Conveyor 5 to GL4 Belt Conveyor A (negligible emissions due to cleaned, washed ore being transferred)	
Section C ($PM/PM_{10} \leq 0.0085$ gr/dscf)			
TBD	TBD	TBD	--

Process Number	Pollution Control Device Controlling the Process	Emission Units Associated with the Process		Attachment "B" Permit Condition Reference for Performance Testing Requirements
Section D (PM/PM_{10} ≤ 0.004 gr/dscf)				
002-6	GL5 Dust Collector DC5	•	GL5 Vibrating Feeders 2/5 to GL5 Belt Conveyor A (also includes emissions from Coarse Ore Stockpile 5 to GL5 Vibrating Feeders 2/5 that are contained within the	Condition II.C.3
		•	GL5 Secondary Crusher	
		•	GL5 Secondary Crusher to GL5 Belt Conveyor A	
		•	GL5 Belt Conveyor 5 to GL5 Belt Conveyor A (negligible emissions due to cleaned, washed ore being transferred)	
Section E (PM/PM_{10} ≤ 0.003 gr/dscf)				
TBD	TBD	•	TBD	--

Process Number	Pollution Control Device Controlling the Process	Emission Units Associated with the Process		Attachment "B" Permit Condition Reference for Performance Testing Requirements
Section F ($PM/PM_{10} \leq 0.0023$ gr/dscf)				
001-12 (AOS1)	PC1 Dust Collector 1 (AOS1)	•	Primary Crusher 1 (AOS1)	Condition II.C.3
		•	Primary Crusher 1 (AOS1) to PC1 Surge Pocket (AOS1)	
		•	PC1 Surge Pocket (AOS1) to PC1 Discharge Apron Feeder (AOS1)	
		•	PC1 Discharge Apron Feeder (AOS1) to PC1 Discharge Conveyor (AOS1)	
001-13 (AOS1)	PC1 CCC1 Dust Collector 2 (AOS1)	•	PC1 Discharge Conveyor (AOS1) to PC1 Cross Country Conveyor 1 (AOS1)	Condition II.C.3
001-14 (AOS1)	PC1 CCC2 Dust Collector 3 (AOS1)	•	PC1 Cross Country Conveyor 1 (AOS1) to PC1 Cross Country Conveyor 2 (AOS1)	Condition II.C.3
001-15 (AOS1)	PC1 CCC3 Dust Collector 4 (AOS1)	•	PC1 Cross Country Conveyor 2 (AOS1) to PC1 Cross Country Conveyor 3 (AOS1)	Condition II.C.3
002-7 (AOS1)	Coarse Ore Reclaim Conveyor 1 Dust Collector 5 (AOS1)	•	Coarse Ore Reclaim Feeder 1 (AOS1) to Coarse Ore Reclaim Conveyor 1 (AOS1)	Condition II.C.3
		•	Coarse Ore Reclaim Feeder 2 (AOS1) to Coarse Ore Reclaim Conveyor 1 (AOS1)	

Process Number	Pollution Control Device Controlling the Process	Emission Units Associated with the Process		Attachment "B" Permit Condition Reference for Performance Testing Requirements
Section F ($PM/PM_{10} \leq 0.0023$ gr/dscf) (cont'd)				
002-7 (AOS1) (cont'd)	Coarse Ore Reclaim Conveyor 1 Dust Collector 5 (AOS1) (cont'd)	•	Coarse Ore Reclaim Feeder 3 (AOS1) to Coarse Ore Reclaim Conveyor 1 (AOS1)	Condition II.C.3 (cont'd)
		•	HPGR Product Return Conveyor 1 (AOS1) to Coarse Ore Reclaim Conveyor 1 (AOS1)	
002-8 (AOS1)	Coarse Ore Reclaim Conveyor 2 Dust Collector 6 (AOS1)	•	Coarse Ore Reclaim Feeder 4 (AOS1) to Coarse Ore Reclaim Conveyor 2 (AOS1)	Condition II.C.3
		•	Coarse Ore Reclaim Feeder 5 (AOS1) to Coarse Ore Reclaim Conveyor 2 (AOS1)	
		•	Coarse Ore Reclaim Feeder 6 (AOS1) to Coarse Ore Reclaim Conveyor 2 (AOS1)	
		•	HPGR Product Return Conveyor 2 (AOS1) to Coarse Ore Reclaim Conveyor 2 (AOS1)	
002-9 (AOS1)	HPGR Discharge Dust Collector 7 (AOS1)	•	HPGR Feed Conveyor (AOS1) to High Pressure Grinding Roll (AOS1) and Operation of the High Pressure Grinding	Condition II.C.3
		•	High Pressure Grinding Roll (AOS1) to HPGR Discharge Conveyor 1 (AOS1)	
		•	HPGR Product Recycle Feeder (AOS1) to HPGR Feed Conveyor (AOS1)	

Process Number	Pollution Control Device Controlling the Process	Emission Units Associated with the Process		Attachment "B" Permit Condition Reference for Performance Testing Requirements
002-10 (AOS1)	HPGR Discharge Conveyor Transfer Dust Collector 8 (AOS1)	•	HPGR Discharge Conveyor 1 (AOS1) to HPGR Discharge Conveyor 2 (AOS1)	Condition II.C.3
002-11 (AOS1)	HPGR Product Bin Dust Collector 9 (AOS1)	•	HPGR Discharge Conveyor 2 (AOS1) to HPGR Product Bin (AOS1)	Condition II.C.3
002-12 (AOS1)	HPGR Product Transfer Dust Collector 10	•	HPGR Product Feeder 1 (AOS1) to HPGR Product Return Conveyor 1 (AOS1)	Condition II.C.3
002-13 (AOS1)	HPGR Product Transfer Dust Collector 11	•	HPGR Product Feeder 2 (AOS1) to HPGR Product Return Conveyor 2 (AOS1)	Condition II.C.3
Section G ($PM/PM_{10} \leq 0.002$ gr/dscf)				
TBD	TBD	•	TBD	--
Section H ($PM/PM_{10} \leq 0.001$ gr/dscf)				
TBD	TBD	•	TBD	--
Section I ($PM/PM_{10} \leq 2.75$ lb/hr)				

Process Number	Pollution Control Device Controlling the Process	Emission Units Associated with the Process		Attachment "B" Permit Condition Reference for Performance Testing Requirements
042-4	Primary Venturi Scrubber CH-02 and Secondary Venturi Scrubber CH-03	•	Pressure Leach Vessel	Condition III.B.3
Section J (VOC ≤ 1.36 lb/hr)				
047-5	Venturi Scrubber / Venturi Scrubber (alternate), Packed Scrubber 1, Packed Scrubber 2, and Natural Gas Flare	•	Deoiler	Condition III.B.3