CLASS II AIR QUALITY PERMIT

DRAFT PERMIT No. 85727

PERMITTEE: Northern Arizona University
FACILITY: Northern Arizona University
PLACE ID: 2412
DATE ISSUED: DRAFT
EXPIRY DATE: DRAFT

SUMMARY

This Class II synthetic minor air quality permit is issued to Northern Arizona University (NAU), the Permittee, for the continued operation of boilers, internal combustion engines, and other miscellaneous equipment at Northern Arizona University (NAU). The facility is located at 1705 S. San Francisco St., Flagstaff, AZ 86001 (Place ID: 2412). This permit renews and supersedes Permit # 63221.

NAU operates boilers, internal combustion engines, kilns, cooling towers, and a paint booth that includes a heater and two extractors. With this permit renewal, NAU is adding two additional internal combustion engines. Without any limits, the facility is a major source for emissions of nitrogen oxides (NO_x) and carbon monoxide (CO), and a Class I permit would be required in accordance with A.A.C. R18-2-302.B.1.a. However, in order to stay below major source emissions thresholds, the Permittee has accepted voluntary limits on the consumption of natural gas for all gas-fired equipment, the hours of operation of each diesel-fired internal combustion engine, and the usage of wood in the wood-fired kilns. With their emissions limited, NAU is able to be permitted under a Class II permit as a synthetic minor source in accordance with A.A.C. R18-2-302.B.2.a.

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

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

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 ARS § 49-426(E) and A.A.C. R18-2-326.

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

VI. ANNUAL EMISSION INVENTORY QUESTIONNAIRE

A. The Permittee shall complete and submit to the Director an annual emissions inventory questionnaire. The questionnaire is due by March 31st or ninety (90) days after the Director makes the inventory form available each year, whichever occurs later, and shall include emission information for the previous calendar year.

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

B. The questionnaire shall be on a form provided by the Director and shall include the information required by A.A.C. R18-2-327.B.

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

VII. COMPLIANCE CERTIFICATION

A. The Permittee shall submit a compliance certification to the Director annually which describes the compliance status of the source with respect to each permit condition. The certification shall be submitted no later than September 15th, and shall report the compliance status of the source during the period between August 1st of the previous year and July 31st 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. For emission units subject to 40 CFR Part 64, the certification shall also identify as possible exceptions to compliance any period during which compliance is required and in which an excursion or exceedance defined under 40 CFR Part 64 occurred;
[A.A.C. R18-2-309.2.c.iii]

5. 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 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, PERMIT DEVIATIONS, AND EMERGENCY 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.

      (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.

   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;

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

2. Except as provided in Condition XII.B.1, prompt notification of all other types of deviations shall be annually, concurrent with the annual 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]

C. Emergency Provision

1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, that require immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

[A.A.C. R18-2-306.E.1]

2. An emergency constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if Condition XII.C.3 below is met.

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

3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

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

a. An emergency occurred and that the Permittee can identify the cause(s) of the emergency;

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

b. The permitted facility was being properly operated at the time of the emergency;

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

c. During the period of the emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and

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

d. The Permittee submitted notice of the emergency to the Director by certified mail, facsimile, or hand delivery within two working days of the time when emission limitations were exceeded due to the emergency. This notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective action taken.

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

4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

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

5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.

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

D. Affirmative Defenses for Excess Emissions Due to Malfunctions, Startup, and Shutdown

1. Applicability

A.A.C. R18-2-310 establishes affirmative defenses for certain emissions in excess of an emission standard or limitation and applies to all emission standards or limitations except for standards or limitations:

a. Promulgated pursuant to Sections 111 or 112 of the Act;
[A.A.C. R18-2-310.A.1]

b. Promulgated pursuant to Titles IV or VI of the Clean Air Act;
[A.A.C. R18-2-310.A.2]

c. Contained in any Prevention of Significant Deterioration (PSD) or New Source Review (NSR) permit issued by the U.S. EPA;
[A.A.C. R18-2-310.A.3]

d. Contained in A.A.C. R18-2-715.F; or
[A.A.C. R18-2-310.A.4]

e. Included in a permit to meet the requirements of A.A.C. R18-2-406.A.5.
[A.A.C. R18-2-310.A.5]

2. Affirmative Defense for Malfunctions

Emissions in excess of an applicable emission limitation due to malfunction shall constitute a violation. When emissions in excess of an applicable emission limitation are due to a malfunction, the Permittee has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the Permittee has complied with the reporting requirements of A.A.C. R18-2-310.01 and has demonstrated all of the following:

[A.A.C. R18-2-310.B]

a. The excess emissions resulted from a sudden and unavoidable breakdown of process equipment or air pollution control equipment beyond the reasonable control of the Permittee;
[A.A.C. R18-2-310.B.1]

b. The air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;
[A.A.C. R18-2-310.B.2]

c. If repairs were required, the repairs were made in an expeditious fashion when the applicable emission limitations were being exceeded. Off-shift

labor and overtime were utilized where practicable to ensure that the repairs were made as expeditiously as possible. If off-shift labor and overtime were not utilized, the Permittee satisfactorily demonstrated that the measures were impracticable;

[A.A.C. R18-2-310.B.3]

d. The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;

[A.A.C. R18-2-310.B.4]

e. All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;

[A.A.C. R18-2-310.B.5]

f. The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance;

[A.A.C. R18-2-310.B.6]

g. During the period of excess emissions there were no exceedances of the relevant ambient air quality standards established in Title 18, Chapter 2, Article 2 of the Arizona Administrative Code that could be attributed to the emitting source;

[A.A.C. R18-2-310.B.7]

h. The excess emissions did not stem from any activity or event that could have been foreseen and avoided, or planned, and could not have been avoided by better operations and maintenance practices;

[A.A.C. R18-2-310.B.8]

i. All emissions monitoring systems were kept in operation if at all practicable; and

[A.A.C. R18-2-310.B.9]

j. The Permittee's actions in response to the excess emissions were documented by contemporaneous records.

[A.A.C. R18-2-310.B.10]

3. Affirmative Defense for Startup and Shutdown

a. Except as provided in Condition XII.D.3 below, and unless otherwise provided for in the applicable requirement, emissions in excess of an applicable emission limitation due to startup and shutdown shall constitute a violation. When emissions in excess of an applicable emission limitation are due to startup and shutdown, the Permittee has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the Permittee has complied with the reporting requirements of A.A.C. R18-2-310.01 and has demonstrated all of the following:

[A.A.C. R18-2-310.C.1]

(1) The excess emissions could not have been prevented through careful and prudent planning and design;

[A.A.C. R18-2-310.C.1.a]

(2) If the excess emissions were the result of a bypass of control equipment, the bypass was unavoidable to prevent loss of life, personal injury, or severe damage to air pollution control equipment, production equipment, or other property;

[A.A.C. R18-2-310.C.1.b]

(3) The air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;

[A.A.C. R18-2-310.C.1.c]

(4) The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;

[A.A.C. R18-2-310.C.1.d]

(5) All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;

[A.A.C. R18-2-310.C.1.e]

(6) During the period of excess emissions there were no exceedances of the relevant ambient air quality standards established in Title 18, Chapter 2, Article 2 of the Arizona Administrative Code that could be attributed to the emitting source;

[A.A.C. R18-2-310.C.1.f]

(7) All emissions monitoring systems were kept in operation if at all practicable; and

[A.A.C. R18-2-310.C.1.g]

(8) Contemporaneous records documented the Permittee's actions in response to the excess emissions.

[A.A.C. R18-2-310.C.1.h]

b. If excess emissions occur due to a malfunction during routine startup and shutdown, then those instances shall be treated as other malfunctions subject to Condition XII.D.2 above.

[A.A.C. R18-2-310.C.2]

4. Affirmative Defense for Malfunctions During Scheduled Maintenance

If excess emissions occur due to a malfunction during scheduled maintenance, then those instances will be treated as other malfunctions subject to Condition XII.D.2 above.

[A.A.C. R18-2-310.D]

5. Demonstration of Reasonable and Practicable Measures

For an affirmative defense under Condition XII.D.2 or XII.D.3, the Permittee shall demonstrate, through submission of the data and information required by this Condition XII.D and Condition XII.A.1 above, that all reasonable and practicable measures within the Permittee's control were implemented to prevent the occurrence of the excess emissions.

[A.A.C. R18-2-310.E]

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 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]

E. 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 Conditions XVI.B and XVI.C, 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. Except as otherwise provided in the conditions applicable to an emissions cap created under A.A.C. R18-2-306.02, the following changes may be made if the source keeps on site records of the changes according to Appendix 3 of the Arizona Administrative Code:

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

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

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

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

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

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.

C. Except as provided in the conditions applicable to an emissions cap created under A.A.C. R18-2-306.02, 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: 7 days. The Director may require verification of efficiency of the new equipment by performance tests;

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: 7 days;

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;

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

5. A change that amounts to reconstruction of the source or an affected facility: 7 days. For the 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

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;

2. A description of the change;

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

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

E. A source may implement any change in Condition XVI.C without the required notice by applying for a minor permit revision under A.A.C. R18-2-319.

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

F. 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]

G. 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 same source 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]

H. If a source change is described under both Conditions XVI.B and C, the source shall comply with Condition XVI.C. If a source change is described under both Condition XVI.C and A.A.C. R18-2-317.01.B, the source shall comply with A.A.C. R18-2-317.01.B.

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

I. 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]

J. 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 provision of A.A.C. R18-2-317.02.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. R18-2-306.A.3.c and 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 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.B of this Attachment and any facility changes without a permit revision pursuant to Section XVII 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. Opacity

1. Instantaneous Surveys and Six-Minute Observations

a. Instantaneous Surveys

Any instantaneous survey required by this permit shall be determined by either option listed in Conditions I.A.1.a(1) and (2):

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

(1) Alternative Method ALT-082 (Digital Camera Operating Technique)

(a) The Permittee, or Permittee representative, shall be certified in the use of Alternative Method ALT-082.

(b) The results of all instantaneous surveys and six-minute observations shall be obtained within 30 minutes.

(2) EPA Reference Method 9 Certified Observer

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

b. Six-Minute Observations

Any six-minute observation required by this permit shall be determined by either option listed in Conditions I.A.1.b(1) and (2):

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

(1) Alternative Method ALT-082 (Digital Camera Operating Technique)

(a) The Permittee, or Permittee representative, shall be certified in the use of Alternative Method ALT-082.

(b) The results of all instantaneous surveys and six-minute observations shall be obtained within 30 minutes.

(2) EPA Reference Method 9.

c. The Permittee shall have on site or on call a person certified in EPA Reference Method 9 unless all six-minute Method 9 observations required by this permit are conducted as a six-minute Alternative Method ALT-082 (Digital Camera Operating Technique) and all instantaneous visual surveys required by this permit are conducted as an instantaneous ALT-082 camera survey. Any six-minute Method 9 observation required by this permit can be conducted as a six-minute ALT-082 and any

instantaneous visual survey required by this permit can be conducted as an instantaneous ALT-082 camera survey.

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

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.

B. Operational Limits

The Permittee shall operate and maintain the equipment identified in Equipment List, Attachment "C" in accordance with manufacturer’s specifications, as applicable.

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

C. Fuel Usage/Hours of Operation Limitations

[A.A.C. R18-2-306.01.A and -331.A.3.a]
[Material permit conditions are indicated by underline and italics]

1. *The Permittee shall not use more than 1,475 MMSCF of natural gas in any rolling 12-month period as fuel in the boilers, heater, two natural gas-fired internal combustion engines, and natural gas-fired kilns.*

2. *The Permittee shall not operate emergency diesel-fired internal combustion engines each for more than 200 hours in any rolling twelve month period.*

3. *The Permittee shall not fire more than 128 tons of wood in any rolling 12-month period as fuel in the wood-fired kilns.*

D. Recordkeeping Requirements

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

1. The Permittee shall maintain on site the manufacturer's data for all equipment identified in Attachment "C".

2. The Permittee shall maintain a monthly record of gas usage from the gas meters readings. At the end of each month, the Permittee shall calculate and maintain a record of the rolling 12-month cumulative gas usage to show compliance with the limit in Condition I.B.1.

3. The Permittee shall maintain a monthly record of hours of operation of each diesel-fired ICE. At the end of each month, the Permittee shall calculate and maintain a record of the rolling 12-month cumulative hours of operation of each ICE to show compliance with the limit in Condition I.B.2.

4. The Permittee shall maintain a monthly record of the amount of wood fired in the wood-fired kilns. At the end of each month, the Permittee shall calculate and maintain a record of the rolling 12-month cumulative use of wood fired in the wood-fired kilns to show compliance with the limit in Condition I.B.3.

5. All records, analyses, and reports, including those of fuel type used, shall be retained for a minimum of five years from the date of generation. The most recent two years of data shall be kept on-site.

E. Reporting Requirements

At the time the compliance certifications required by Section VII of Attachment "A" are submitted, the Permittee shall submit reports of the calculated 12-month totals required in I.D of Attachment "B" and all other monitoring activities required by this Attachment performed in the same period as applies to the compliance certification period.

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

II. BOILERS AND HEATER

A. Applicability

Section II applies to all of the boilers and the heater listed in the Equipment List, Attachment "C".

B. Fuel Limitations

The Permittee shall only burn natural gas in the boilers and heater.

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

C. Boilers and Heater Subject to Standards of Performance for Fossil-fuel Fired Industrial and Commercial Equipment Under A.A.C. R18-2-724

1. Applicability

Section II.C is applies to the boilers and heater marked as "A.A.C. R18-2-724" in the "A.A.C./NSPS/NESHAP" column in the Equipment List, Attachment "C".

2. Particulate Matter (PM) and Opacity

a. Emission Limitations/Standards

(1) The Permittee shall not cause, allow or permit the emission of particulate matter, caused by combustion of fuel, from any fuel-burning operation into the atmosphere in excess of the amounts calculated by the following equation:

$E = 1.02\ Q^{0.769}$

Where:

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

Q = the heat input in million Btu per hour.

[A.A.C. R18-2-724.C.1]

(2) For purposes of this Section, 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 fuel-burning units on a plant or premises shall be used for determining the maximum allowable amount of particulate matter which may be emitted.

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

(3) The Permittee shall not cause, allow or permit the opacity of any plume or effluent emanating from any boiler or heater to exceed 15 percent.

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

b. Monitoring, Recordkeeping, and Reporting

(1) The Permittee shall keep records of fuel supplier certifications. The certification shall contain information regarding the name of fuel supplier and heating value of the fuel. These records shall be made available to ADEQ upon request.

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

(2) Each quarter, the Permittee shall monitor visible emissions from each boiler and heater, in accordance with Condition I.A of Attachment "B".

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

3. Permit Shield

Compliance with conditions of this section shall be deemed compliance with A.A.C. R18-2-724B, C.1 and J.

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

D. Boilers Subject to NSPS Requirements for Small Industrial-Commercial-Institutional Steam Generating Units under 40 CFR 60 Subpart Dc

1. Applicability

Section II.C is applies to the boilers and heater marked as "NSPS Subpart Dc" in the "A.A.C./NSPS/NESHAP" column in the Equipment List, Attachment "C".

2. Monitoring, Recordkeeping, and Reporting

a. The Permittee shall record and maintain records of the amount of fuel combusted during each operating day.

[40 CFR 60.48c(g)]

b. All records required in Condition II.D.2.a of Attachment "B" shall be maintained by the Permittee for a period of two years following the date of such record.

[40 CFR 60.48c(i)]

3. Permit Shield

Compliance with conditions of this section shall be deemed compliance with 40 CFR 60.48c(g) and (i).

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

III. INTERNAL COMBUSTION ENGINES (ICES)

A. Applicability

Section III applies to all internal combustion engines listed in the Equipment List, Attachment "C".

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

1. This section is applicable to the ICEs marked as "A.A.C. R18-2-719" in the "A.A.C./NSPS/NESHAP" column in the Equipment List, Attachment "C".

2. Fuel Requirements

   a. Fuel Limitations

      (1) Except for ICEs EG-5 and EG-11, the Permittee shall only fire low sulfur diesel (less than 0.9 percent by weight of sulfur) fuel in the ICEs.

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

      (2) The Permittee shall only fire natural gas in the ICEs EG-5 and EG-11.

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

   b. Permit Shield

      Compliance with conditions of this part shall be deemed compliance with A.A.C. R18-2-719.H.

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

3. Particulate Matter (PM)

   a. Emission Limitations/Standards

      (1) The Permittee shall not cause, allow or permit the emission of particulate matter, caused by combustion of fuel, from any stationary rotating machinery into the atmosphere in excess of the amounts calculated by the following equation:

      $E = 1.02\ Q^{0.769}$

      Where:

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

      Q = the heat input in million Btu per hour.

      [A.A.C. R18-2-719.C.1]

      (2) For purposes of this Section, 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 fuel-burning units on a plant of premises shall be used for determining the maximum allowable amount of particulate matter which may be emitted.

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

   b. Monitoring, Recordkeeping, and Reporting

The Permittee shall keep records of fuel supplier certifications. The certification shall contain information regarding the name of fuel supplier and heating value of the fuel. These records shall be made available to ADEQ upon request.

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

c. Permit Shield

Compliance with conditions of this part shall be deemed compliance with A.A.C. R18-2-719.B and C.1.

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

4. Opacity

a. Emission Limitations/Standards

The Permittee shall not cause, allow or permit to be emitted into the atmosphere from any stationary rotating machinery, smoke for any period greater than 10 consecutive seconds which exceeds 40 percent 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]

b. Monitoring, Recordkeeping, and Reporting

The Permittee shall conduct quarterly opacity monitoring of each diesel-fired ICE, when in operation, in accordance with Condition I.A of Attachment "B".

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

c. Permit Shield

Compliance with conditions of this part shall be deemed compliance with A.A.C. R18-2-719.E.

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

5. Sulfur Dioxide

a. Emission Limitations/Standards

The Permittee shall not emit or cause to emit more than 1.0 pound of sulfur dioxide per million Btu heat input when low sulfur (less than 0.9 percent by weight of sulfur) is fired.

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

b. Monitoring, Recordkeeping, and Reporting

(1) The Permittee shall keep daily records of the sulfur content and lower heating value of the fuel being fired in the internal combustion engines. The Permittee shall keep records of fuel

supplier certifications to demonstrate compliance with the sulfur content limit specified in Condition III.B.5.a. The certification shall contain information with regard to sulfur content and the method used to determine the sulfur content of the fuel. These records shall be made available to ADEQ upon request.

[A.A.C. R18-2-306.A.3.c and -719.I]

(2) The Permittee shall report to the Director any daily period during which the sulfur content of the fuel being fired in the machine exceeds 0.8 percent.

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

c. Permit Shield

Compliance with conditions of this part shall be deemed compliance with A.A.C. R18-2-719.F, I, and J.

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

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

1. Applicability

This section is applicable to the ICEs marked as "NSPS Subpart IIII" in the "A.A.C./NSPS/NESHAP" column in the Equipment List, Attachment "C".

2. Fuel Requirements

[40 CFR 60.4207(b)]

The Permittee shall use diesel fuel that meets the following requirements of 40 CFR 80.510(b):

a. Sulfur content: 15 ppm maximum; and

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

3. Emission Limitations/Standards

a. The Permittee shall comply with the respective emission standards for non-methane hydrocarbons and oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) as provided in the Table below (or as otherwise specified in 40 CFR 89.112).

[40 CFR 60.4202(a)(2), 4205(b), and 89.112]

Table: Emission Standards for Emergency Engines

Engine Rated Power	Tier	Model Year	NMHC+NO_x	CO	PM
			g/kW-hr (g/HP-hr)		
37 ≤kW<75 (50≤HP<101)	Tier 3	2008 and later	4.7 (3.50)	5.0 (3.73)	0.40 (0.30)
75 ≤kW<130 (101≤HP<174)	Tier 3	2007 and later	4.0 (2.98)	5.0 (3.73)	0.30 (0.22)
130 ≤kW<225 (174≤HP<302)	Tier 3	2006 and later	4.0 (2.98)	3.5 (2.61)	0.20 (0.15)
225 ≤kW<450 (302≤HP<603)	Tier 3	2006 and later	4.0 (2.98)	3.5 (2.61)	0.20 (0.15)
450 ≤kW<560 (603≤HP<751)	Tier 3	2006 and later	4.0 (2.98)	3.5 (2.61)	0.20 (0.15)
kW> 560 (HP>751)	Tier 2	2006 and later	6.4 (4.77)	3.5 (2.61)	0.20 (0.15)

b. The Permittee shall limit exhaust opacity from the emergency engines (excluding single cylinder and constant speed engines) to not exceed:
[40 CFR 60.4202(a)(2), 4205(b) and 89.113]

(1) 20 percent during the acceleration mode;

(2) 15 percent during the lugging mode; and

(3) 50 percent during peaks in either the acceleration or lugging mode.

4. Operating Requirements

a. *The Permittee shall install a non-resettable hour meter prior to startup of the engine.*
[40 CFR 60.4209(a), A.A.C. R18-2-306.A.3.c, and -331.A.3.c]
[Material permit conditions are indicated by underline and italics]

b. The Permittee shall operate and maintain the ICEs that achieve the emission standards as required in Condition III.C.3 of Attachment "B" over the entire life of the engine.
[40 CFR 60.4206]

c. The Permittee shall operate and maintain the ICEs according to the manufacturer's emission-related written instructions, except as permitted under III.C.5.b of Attachment "B". A copy of the instructions shall be kept onsite and made available to ADEQ upon request.
[40 CFR 60.4211(a)(1) and A.A.C. R18-2-306.A.3.c]

d. The Permittee shall only change those emission-related settings that are permitted by the manufacturer.

[40 CFR 60.4211(a)(2)]

e. The Permittee shall meet the requirements of 40 CFR Parts 89, 94, and/or 1068, as they apply to the Permittee.

[40 CFR 60.4211(a)(3)]

f. The Permittee shall operate the emergency engine according to the requirements in Conditions III.C.4.f(1) and (2). In order for the engine to be considered an emergency stationary ICE, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in Conditions III.C.4.f(1) and (2), is prohibited. If the Permittee does not operate the engine according to the requirements in Conditions III.C.4.f(1) and (2), the engine will not be considered an emergency engine and must meet all requirements for non-emergency engines.

(1) 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 III.C.5.f(2) counts as part of the 100 hours per calendar year allowed by this condition.

[40 CFR 60.4211(f)(2)]

(2) 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 III.C.4.f(1). Except as provided in 40 CFR 60.4211(f)(3)(i), 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)]

5. Compliance Requirements

a. The Permittee shall comply by purchasing an engine certified to the emission standards in Condition III.C.3, as applicable. The engine shall be

installed and configured according to the manufacturer's specifications, except as permitted in Condition III.C.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. Monitoring, Recordkeeping, and Reporting Requirements

a. The Permittee shall maintain a copy of engine certifications or other documentation demonstrating that the engine complies with the applicable standards in this Permit, and shall make the documentation available to ADEQ upon request.

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

b. The Permittee shall keep records of fuel supplier specifications. The specifications shall contain information regarding the name of fuel supplier, sulfur content, and cetane index or aromatic content in the fuel. These records shall be made available to ADEQ upon request.

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

c. The Permittee shall maintain monthly records of the operation of each ICE in emergency and non-emergency service that are recorded through the non-resettable hour meter. The records shall include the purpose of operation and the duration of time the ICE was operated. The record shall identify whenever the operation of the ICE was for emergency purposes.

[40 CFR 60.4214(b) and A.A.C. R18-2-306.A.4]

d. If any engine is equipped with a diesel particulate filter, the Permittee shall keep records of any corrective action taken after the backpressure monitor has notified the Permittee that the high backpressure limit of the engine is approached.

[40 CFR 60.4214(c)]

e. For an emergency stationary CI ICE with a maximum engine power more than 100 hp that operates for the purposes specified in 40 CFR 60.4211(f)(3)(i), 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 conditions of this part 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)(2), 60.4211(f)(3), 60.4211(g), 60.4214(b), 60.4214(c), and 60.4214(d).

[A.A.C. R-18-2-325]

D. New Emergency Engines Subject to the NESHAP Requirements for Stationary Reciprocating ICE Under 40 CFR 63 Subpart ZZZZ

1. Applicability

This section is applicable to the ICEs marked as "NESHAP Subpart ZZZZ" in the "A.A.C./NSPS/NESHAP" column in the Equipment List, 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 compression ignition engines (Condition III.C). No further requirements apply for such engines under 40 CFR 63 Subpart ZZZZ.

[40 CFR 63.6590(c)]

3. 3. Permit Shield

Compliance with requirements of this part shall be deemed compliance with 40 CFR 63.6590(c).

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

IV. KILNS, COOLING TOWERS, AND PAINT BOOTH EXTRACTORS

A. Applicability

Section IV applies to the kilns, cooling towers, and paint booth extractors listed in Equipment List in Attachment "C".

B. Fuel Limitations

The Permittee shall only fire natural gas in the eight gas-fired kilns and wood in the six wood-fired kilns listed in the Equipment List, Attachment "C".

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

C. Particulate Matter (PM)

1. Emission Limitations/Standards

a. The Permittee shall not cause or permit the emissions of particulate matter discharged into the atmosphere in any one hour from any process source in total quantities in excess of the amounts calculated by the following equation:

For process sources having a process weight 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.

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

b. .For purposes of this Section, 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]

2. Monitoring, Recordkeeping, and Reporting Requirements

The Permittee shall maintain a vendor-approved copy of that part of the Federal Energy Regulatory Commission (FERC) approved Tariff agreement that contains the sulfur content and the lower heating value of the natural gas. These records shall be made available to ADEQ upon request.

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

3. Permit Shield

Compliance with conditions of this part shall be deemed compliance with A.A.C. R18-2-730.A.1 and B.

[A.A.C. R-18-2-325]

D. Opacity

1. Emission Limitations/Standards

a. The Permittee shall not cause to be discharged into the atmosphere from the kilns, cooling towers, or paint booth extractors any plume or effluent which exhibit opacity greater than 20 percent.

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

b. If the presence of uncombined water is the only reason for an exceedance of any visible emissions requirement, the exceedance shall not constitute a violation of the applicable opacity limit.

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

2. Monitoring, Recordkeeping, and Reporting Requirements

Each quarter, the Permittee shall monitor visible emissions from the kilns, cooling towers, and paint booth extractors, when in operation, in accordance with Condition I.A of Attachment “B”.

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

3. Permit Shield

Compliance with conditions of this part shall be deemed compliance with A.A.C. R18-2-702.B.3 and C.

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

E. Gaseous Emissions

1. Emission Limitations/Standards

a. The Permittee shall not emit gaseous or odorous materials from equipment, operations or premises under their 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, alkalies, and other chemicals utilized in the process 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 owner or operator thereof 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]

2. Permit Shield

Compliance with conditions of this part shall be deemed compliance with A.A.C. R18-2-730.D, F, and G.

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

F. Sulfur Dioxide

1. Emission Limitations/Standards

The Permittee shall not cause or allow the emission for sulfur dioxide from kilns expressed as SO_2, at an emission rate greater than 600 parts per million.

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

2. Permit Shield

Compliance with condition of this part shall be deemed compliance with A.A.C. R18-2-730.A.2.

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

G. Nitrogen Oxides (NO_x)

1. Emission Limitations/Standards

The Permittee shall not cause or allow the emission of nitrogen oxides from kilns expressed as NO_x at an emission rate greater than 500 parts per million.

[A.A.C. R18-2-730.A.3]

2. Permit Shield

Compliance with condition of this part shall be deemed compliance with A.A.C. R18-2-730.A.3.

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

V. FUGITIVE DUST REQUIREMENTS

A. Applicability

Section V 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/ 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 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) 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 Requirements

Unpaved Roads and Storage Piles

Water, or an equivalent control, shall be used to control visible emissions from haul roads and storage piles.

[A.A.C. R18-2-306.A.2 and -331.A.3.d]
[Material Permit Condition is indicated by underline and italics]

3. Monitoring and Recordkeeping Requirements

a. The Permittee shall maintain records of the dates on which any of the activities listed in Condition V.B.1.b above were performed and the control measures that were adopted.

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

b. Opacity Monitoring Requirements

Each quarter, the Permittee shall monitor visible emissions from fugitive sources in accordance with Condition I.A.

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

C. Permit Shield

Compliance with Section V shall be deemed compliance with A.A.C. R18-2-604. -605, -606, -607, and -614.

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

VI. OTHER PERIODIC ACTIVITIES

A. Abrasive Blasting

1. Particulate Matter and Opacity

a. Emission Limitations/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

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]

a. The date the project was conducted;

b. The duration of the project; and

c. Type of control measures employed.

3. Permit Shield

Compliance with Condition VI.A.1 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/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 VI.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 (a) thru (c) below, 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.

(b) A combination of aromatic compounds with eight or more carbon atoms to the molecule except ethylbenzene: 8 percent.

(c) A combination of ethylbenzene, ketones having branched hydrocarbon structures, trichloroethylene or toluene: 20 percent.

(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 VI.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) 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 VI.B.1.b(1).

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

c. Permit Shield

Compliance with Condition VI.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/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. Permit Shield

Compliance with Condition VI.B.2.a shall be deemed compliance with A.A.C.R18-2-702.B.3.

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

C. Demolition/Renovation - Hazardous Air Pollutants

1. Emission Limitation/Standard

The Permittee shall comply with all of the requirements of 40 CFR 61 Subpart M (National Emissions Standards for Hazardous Air Pollutants - Asbestos).

[A.A.C. R18-2-1101.A.12]

2. Monitoring and Recordkeeping Requirements

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 Condition VI.C.1 shall be deemed compliance with A.A.C. R18-2-1101.A.12.

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

VII. CONDITIONS SPECIFIC TO MOBILE SOURCES

A. Applicability

The requirements of this condition are applicable to mobile sources which either move while emitting air contaminants or are frequently moved during the course of their utilization but are not classified as motor vehicles, agricultural vehicles, or agricultural equipment used in normal farm operations. Mobile sources shall not include portable sources as defined in A.A.C.R18-2-101.108.

[A.A.C. R18-2-801.A]

B. Particulate Matter and Opacity Standards

1. .Emission Limitations/Standards

a. Off-Road Machinery

[A.A.C. R18-2-802]

The Permittee shall not cause, allow, or permit to be emitted into the atmosphere from any off-road machinery, smoke for any period greater than ten consecutive seconds, the opacity of which exceeds 40 percent. Visible emissions when starting cold equipment shall be exempt from this requirement for the first ten minutes. Off-road machinery shall include trucks, graders, scrapers, rollers, and other construction and mining machinery not normally driven on a completed public roadway

b. Roadway and Site Cleaning Machinery

(1) The Permittee shall not cause, allow or permit to be emitted into the atmosphere from any roadway and site cleaning machinery smoke or dust for any period greater than ten consecutive seconds, the opacity of which exceeds 40 percent. Visible emissions when starting cold equipment shall be exempt from this requirement for this first ten minutes.

[R18-2-804.A]

(2) The Permittee shall take reasonable precautions to prevent particulate matter from becoming airborne, such as the use of dust

suppressants, before the cleaning of a site, roadway, or alley. Earth or other material shall be removed from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water or by other means.

[A.A.C. R18-2-804.B]

(3) Unless otherwise specified, no mobile source shall emit smoke or dust the opacity of which exceeds 40 percent.

[A.A.C. R18-2-801.B]

2. Recordkeeping Requirements

The Permittee shall keep a record of all emissions-related maintenance activities performed on the Permittee's mobile sources stationed at the facility as per manufacturer's specifications.

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

3. Permit Shield

Compliance with conditions of this part shall be deemed compliance with A.A.C. R18-2-801, -802, and -804.

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

ATTACHMENT "C": EQUIPMENT LIST

EQUIPMENT TYPE	MAX. CAPACITY	MAKE	MODEL	SERIAL NUMBER	INSTALLATION/ MFG. DATE	EQUIPMENT ID NUMBER	A.A.C. / NSPS / NESHAP
Boiler	59.9 MMBtu/hr	Cleaver Brooks	Nebraska	SP-4175G	2012	N-1	NSPS Subpart Dc
Boiler	59.9 MMBtu/hr	Cleaver Brooks	Nebraska	CP-4096G	2010	N-2	NSPS Subpart Dc
Boiler	59.9 MMBtu/hr	Cleaver Brooks	Nebraska	CP-4097G	2010	N-3	NSPS Subpart Dc
Boiler	61.2 MMBtu/hr	Zurn	12-M	99925	1980	N-4	A.A.C. R18-2-724
Boiler	59.2 MMBtu/hr	Erie City	11-M	97446	1966	N-5	A.A.C. R18-2-724
Boiler	12.6 MMBtu/hr	Universal	BF600WI-GP	15645	2000	S-1	NSPS Subpart Dc
Boiler	25.0 MMBtu/hr	Cleaver Brooks	DL-60	WL-1463	1970	S-2	A.A.C. R18-2-724
Boiler	57.4 MMBtu/hr	Cleaver Brooks	DLW-60	WL-2392	1975	S-3	A.A.C. R18-2-724
Boiler	0.125 MMBtu/hr	NA	NA	22503	NA	13-1	A.A.C. R18-2-724
Boiler	0.125 MMBtu/hr	NA	NA	71621	NA	13-2	A.A.C. R18-2-724
Boiler	0.9 MMBtu/hr	Aerco	GF-111 LN	G-10-1683	2010	25-1	A.A.C. R18-2-724
Boiler	0.9 MMBtu/hr	Aerco	GF-111 LN	G-10-1681	2010	25-2	A.A.C. R18-2-724
Boiler	0.9 MMBtu/hr	Aerco	GF-111 LN	G-10-1682	2010	25-3	A.A.C. R18-2-724

EQUIPMENT TYPE	MAX. CAPACITY	MAKE	MODEL	SERIAL NUMBER	INSTALLATION/ MFG. DATE	EQUIPMENT ID NUMBER	A.A.C. / NSPS / NESHAP
Boiler	0.232 MMBtu/hr	Burnham	P20813WNSB	17432815	1997	47-1	A.A.C. R18-2-724
Boiler	1.47 MMBtu/hr	Peerless	211-8-WP	211-1618-6	1976	51-1	A.A.C. R18-2-724
Boiler	1.14 MMBtu/hr	Parker	T-1140	25882	1980	52-1	A.A.C. R18-2-724
Boiler	1.14 MMBtu/hr	Parker	T-1140	25883	1980	52-2	A.A.C. R18-2-724
Boiler	3.25 MMBtu/hr	Ajax	WGB-3250-A	83-35622	1983	53-1	A.A.C. R18-2-724
Boiler	3.25 MMBtu/hr	Ajax	WGB-3250-A	83-35621	1983	53-2	A.A.C. R18-2-724
Boiler	1.80 MMBtu/hr	Lochinvar	CWN 1350	E 830238	1983	53-3	A.A.C. R18-2-724
Boiler	1.80 MMBtu/hr	Lochinvar	CWN 1350	E 830239	1983	53-4	A.A.C. R18-2-724
Boiler	6.8 MMBtu/hr	Parker	T-6800	38007	1990	55-1	A.A.C. R18-2-724
Boiler	6.8 MMBtu/hr	Parker	T-6800	38008	1990	55-2	A.A.C. R18-2-724
Boiler	2.16 MMBtu/hr	Bryan	G1300-WT-100-GI-LH	68305	1990	55-3	A.A.C. R18-2-724
Boiler	2.80 MMBtu/hr	Buderus	65/1-D, ZMD-LN	5665943	2006	56-1	A.A.C. R18-2-724
Boiler	2.80 MMBtu/hr	Buderus	65/1-D, ZMD-LN	5665944	2006	56-2	A.A.C. R18-2-724
Boiler	2.80 MMBtu/hr	Buderus	65/1-D, ZMD-LN	5665942	2006	56-3	A.A.C. R18-2-724
Boiler	6.2 MMBtu/hr	Rite	6879	8821105	1988	77-1	A.A.C. R18-2-724

EQUIPMENT TYPE	MAX. CAPACITY	MAKE	MODEL	SERIAL NUMBER	INSTALLATION/ MFG. DATE	EQUIPMENT ID NUMBER	A.A.C. / NSPS / NESHAP
Boiler	6.2 MMBtu/hr	Rite	6878	8821104	1988	77-2	A.A.C. R18-2-724
Boiler	3.0 MMBtu/hr	Bryan	RV-300-W-FDG	66470	1988	79-1	A.A.C. R18-2-724
Boiler	4.0 MMBtu/hr	Rite	A-400	22829	1991	82-1	A.A.C. R18-2-724
Boiler	4.0 MMBtu/hr	Rite	A-400	22830	1991	82-2	A.A.C. R18-2-724
Boiler	4.0 MMBtu/hr	Rite	A-400	22831	1991	82-3	A.A.C. R18-2-724
Heater	1.04 MMBtu/hr	Bonanza	B-1000	98011000.8	1992	77-3	A.A.C. R18-2-724
Generator	1,200 hp	Caterpillar	ACPXL27.0ESW	MJE 028387	2010	EG-1	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Generator	333 hp	Onan	250 DBY4 XR8/2697-A	769135910	1969	EG-2	A.A.C. R18-2-719
Generator	350 hp	Generac	EK 130	88486	1998	EG-3	A.A.C. R18-2-719
Generator	191 hp	Caterpillar	SR4	6HA00704	1983	EG-4	A.A.C. R18-2-719
Generator	380 hp	Caterpillar	G 3406TAH	NA	1999	EG-5	A.A.C. R18-2-719
Generator	1,200 hp	Onan	QST30-G5	37238398	2008	EG-6	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Generator	150 hp	Kohler	100ROZJ81	259770	1989	EG-7	A.A.C. R18-2-719
Generator	680 hp	Cummins	QSX15-G9	79446555	2010	EG-8	NSPS Subpart IIII, NESHAP Subpart ZZZZ

EQUIPMENT TYPE	MAX. CAPACITY	MAKE	MODEL	SERIAL NUMBER	INSTALLATION/ MFG. DATE	EQUIPMENT ID NUMBER	A.A.C. / NSPS / NESHAP
Generator	62 hp	Cummins	DGBB5553803	C020346805	2002	EG-9	A.A.C. R18-2-719
Generator	800 hp	Detroit Diesel	8163-7416	16VF10021	1991	EG-10	A.A.C. R18-2-719
Generator	113 hp	International	V549	1042108	1985	EG-11	A.A.C. R18-2-719
Generator	1,200 hp	Cummins	QSK23-G3	00314542	Jan., 2006	EG-12	A.A.C. R18-2-719
Generator	252 hp	Onan	DGFB-5751116	B060889878	Feb., 2006	EG-13	A.A.C. R18-2-719
Generator	93 hp	Caterpillar	BPKXL04.4NHI	E5M02230	2010	EG-14	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Generator	80 hp	J Deere	4024HF285B	PE4024L056210	2011	EG-15	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Generator	47 hp	Cummins	4B3.9-G2	46346532	2003	EG-16	A.A.C. R18-2-719
Generator	80 hp	J Deere	4024HF285B	PE4024L005616	2008	EG-17	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Generator	198 hp	FPT Ind.	F4GE9685AJ	602-00841160	2011	EG-18	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Generator	200 hp	Caterpillar	C6.6	E6M03017	2005	EG-19	A.A.C. R18-2-719
Generator	400 hp	J Deere	6090HF484ABC	RG6090L080653	2010	EG-20	NSPS Subpart IIII, NESHAP Subpart ZZZZ

EQUIPMENT TYPE	MAX. CAPACITY	MAKE	MODEL	SERIAL NUMBER	INSTALLATION/ MFG. DATE	EQUIPMENT ID NUMBER	A.A.C. / NSPS / NESHAP
Generator	230 hp	Caterpillar	APKXL06.6PJI	E6M02440	2010	EG-21	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Generator	100 hp	Cummins	QSBS-G3NR3	73274411	2011	EG-22	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Generator	380 hp	Cummins	LTA10-G1	12079	2005	EG-23	A.A.C. R18-2-719
Generator	133 hp	Komatsu	0671T	53164	1975	EG-24	A.A.C. R18-2-719
Generator	157 hp	CAT	C4.4	E5A00414	2012	EG-25	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Generator	101 hp	CAT	C4.4	E5A01797	2013	EG-26	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Generator	864 hp	CAT	C15	FTE01840	2014	EG-27E	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Generator	864 hp	CAT	C15	FTE01833	2014	EG-28C	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Generator	864 hp	CAT	C15	FTE01836	2014	EG-29W	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Generator	332 hp	CAT	C9	S9P00985	2015	EG-30	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Generator	102 hp	Cummins	4BT3.9-G4	46195578	2002	EG-31	A.A.C. R18-2-719

EQUIPMENT TYPE	MAX. CAPACITY	MAKE	MODEL	SERIAL NUMBER	INSTALLATION/ MFG. DATE	EQUIPMENT ID NUMBER	A.A.C. / NSPS / NESHAP
Generator	95 hp	CAT	C4.4	E5G01253	2018	EG-32	NSPS Subpart IIII, NESHAP Subpart ZZZZ
Gas Kiln	0.5 MMBtu/hr	West Coast	NA	NA	1990	80-1	A.A.C. R18-2-702, -730
Gas Kiln	0.5 MMBtu/hr	West Coast	NA	NA	1990	80-2	A.A.C. R18-2-702, -730
Gas Kiln	0.5 MMBtu/hr	West Coast	NA	NA	1990	80-3	A.A.C. R18-2-702, -730
Gas Kiln	0.5 MMBtu/hr	West Coast	NA	NA	1990	80-4	A.A.C. R18-2-702, -730
Gas Kiln	0.5 MMBtu/hr	West Coast	NA	NA	1990	80-5	A.A.C. R18-2-702, -730
Gas Kiln	0.5 MMBtu/hr	West Coast	NA	NA	1990	80-6	A.A.C. R18-2-702, -730
Gas Kiln	0.5 MMBtu/hr	West Coast	NA	NA	1990	80-7	A.A.C. R18-2-702, -730
Gas Kiln	0.5 MMBtu/hr	West Coast	NA	NA	1990	80-8	A.A.C. R18-2-702, -730
Wood Kiln	1.0 MMBtu/hr	NAU	NA	NA	1988	80-9	A.A.C. R18-2-702, -730
Wood Kiln	1.0 MMBtu/hr	NAU	NA	NA	1989	80-10	A.A.C. R18-2-702, -730
Wood Kiln	1.0 MMBtu/hr	NAU	NA	NA	1990	80-11	A.A.C. R18-2-702, -730
Wood Kiln	1.0 MMBtu/hr	NAU	NA	NA	1994	80-12	A.A.C. R18-2-702, -730
Wood Kiln	1.0 MMBtu/hr	NAU	NA	NA	2006	80-13	A.A.C. R18-2-702, -730
Wood Kiln	1.0 MMBtu/hr	NAU	NA	NA	2006	80-14	A.A.C. R18-2-702, -730

EQUIPMENT TYPE	MAX. CAPACITY	MAKE	MODEL	SERIAL NUMBER	INSTALLATION/ MFG. DATE	EQUIPMENT ID NUMBER	A.A.C. / NSPS / NESHAP
Paint Booth Extractor	28.4 KCFM	Binks	30-1800	FAF24U	1990	77-4	A.A.C. R18-2-702, -730
Paint Booth Extractor	10.0 KCFM	M & W	RAF 26A	MW4598	1991	77-5	A.A.C. R18-2-702, -730
Cooling Tower	1,000 gpm	Balt Aircoil	VFL-963-NM	94201204	1990	70-CT-1	A.A.C. R18-2-702, -730
Cooling Tower	1,000 gpm	Balt Aircoil	F1443P	90200582	1989	65-CT-1	A.A.C. R18-2-702, -730
Cooling Tower	1,000 gpm	Balt Aircoil	VTO-019GC	93201012	1991	66-CT-1	A.A.C. R18-2-702, -730
Cooling Tower	2,000 gpm	Balt Aircoil	F1482-NMR	90201623	1990	28-CT-1	A.A.C. R18-2-702, -730
Cooling Tower	2,000 gpm	Ridgeline Connglass	AT8324B	977519W	1990	24-CT-1	A.A.C. R18-2-702, -730
Cooling Tower	2,000 gpm	Ridgeline Connglass	AT8324B	977520W	1990	24-CT-2	A.A.C. R18-2-702, -730
Cooling Tower	2,500 gpm	Evapco	AT212624	4-109619	2006	67-CT-1	A.A.C. R18-2-702, -730
Cooling Tower	2,500 gpm	Evapco	AT212624	4-109620	2006	67-CT-2	A.A.C. R18-2-702, -730