

CLASS II AIR QUALITY PERMIT

DRAFT PERMIT No. 87288

PERMITTEE: United States Marine Corps
FACILITY: Marine Corps Air Station – Yuma (NAICS Code 481)
PLACE ID: 13527
DATE ISSUED: XXXX, 2021
EXPIRY DATE: XXXX, 2026

SUMMARY

This Class II synthetic minor air quality permit is issued to United States Marine Corps Air Station (MCAS), the Permittee, for the continued operation of the Yuma Air Station in Yuma County. The facility is located at Avenue 3E, Yuma, AZ 85369. This permit renews and supersedes Permit # 63582.

The facility's potential to emit (PTE), without controls or operating limitations, of air pollutants is above the major source thresholds. Facility has taken voluntary limitation on the operations of Internal Combustion Engines (ICEs) to stay below the major source threshold.

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 February 15th, and shall report the compliance status of the source during the period between January 1st and December 31st of the previous 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. R18-2-309.2.c.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 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 6-minute Method 9 observations required by this permit are conducted as a 6-minute Alternative Method-082 (Digital Camera Operating Technique) and all instantaneous visual surveys required by this permit are conducted as an instantaneous Alt-082 camera survey. Any 6-minute Method 9 observation required by this permit can be conducted as a 6-minute Alternative Method-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. Operations Requirements

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

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

C. Recordkeeping Requirements

[A.A.C. R18-2-306.A.3.b, -A.3.c & -A.4]

1. The Permittee shall maintain, on site, the manufacturer's data for all equipment identified in Attachment "C".
2. 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.

D. Reporting Requirements

At the time the compliance certifications required by Section VII of Attachment "A" are submitted, the Permittee shall submit reports of all 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, HEATERS, FURNACES, AND INFRARED HEATERS

A. Applicability

This Section applies to the boilers, heaters, furnaces, and IR Heaters listed in Table 1, Equipment List, Attachment "C".

B. Fuel Limitations

The Permittee shall only burn natural gas in the boilers, heaters, furnaces, and IR heaters.

[A.A.C. R18-2-306.A.2 and -331.A.3.e]

C. Particulate Matter and Opacity

1. Emissions Limitations and Standards

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

- a. 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 particulate emission rate in pounds-mass per hour

Q = the heat input in million Btu per hour

- b. 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]

- c. The Permittee shall not emit or cause to be emitted into the atmosphere from stacks associated with boilers gases exhibiting opacity greater than 15 percent, measured in accordance with EPA Reference Method 9.

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

2. Monitoring, Recordkeeping, and Reporting Requirements

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

[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 the equipment exceeds 15 percent.

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

3. Permit Shield

Compliance with the conditions of this Part shall be deemed compliance with A.A.C. R 18-2-724.B, C.1, and J.

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

III. EMERGENCY INTERNAL COMBUSTION ENGINES (ICES) AND GEAR ARRESTOR ENGINES

A. Applicability

This Section applies to the emergency ICES and gear arrestor engines listed in Table 2, Equipment List, Attachment "C".

B. Operating Limitations

1. Fuel Limitation

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

a. ICES

The Permittee shall burn only diesel fuel in the emergency ICES.

b. Gear Arrestor Engines

The Permittee shall burn only gasoline fuel in the gear arrestor engines.

2. Hourly Limitations

[A.A.C. R18-2-306.01 and -331.A.3.a]

[Material Permit Conditions are indicated by underline and italics]

- a. The Permittee shall not operate each of the emergency ICEs for more than the hours listed under the "Hours of Operation" column in Table 2, Equipment List, Attachment "C" in any rolling 12-month period.
- b. The Permittee shall not operate all the gear arrestor engines for more than the hours listed under the "Hours of Operation" column in Table 2, Equipment List, Attachment "C" in any rolling 12-month period.

3. Recordkeeping Requirements

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

- a. The Permittee shall keep records of the rolling 12-month total hours of operation of each emergency ICE to demonstrate compliance with the hourly limitation in Condition III.B.2.a.
- b. The Permittee shall keep records of the rolling 12-month total hours of operation of all the gear arrestor engines to demonstrate compliance with the hourly limitation in Condition III.B.2.b.

C. Requirements for Engines that are not subject to New Source Performance Standards

1. Applicability

This Section applies to the emergency ICEs and Gear Arrestor Engines marked as 'No' under the New Source Performance Standards (NSPS) Applicability column in Table 2, Equipment List, Attachment "C".

2. Particulate Matter & Opacity

a. Emission Limitations and Standards

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

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

$$E = 1.02 Q^{0.769}$$

Where:

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

Q = the heat input in million BTU per hour.

- (2) For the purpose 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 or premises shall be used

for determining the maximum allowable amount of particulate matter which may be emitted.

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

(3) Opacity

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

(a) 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.

(b) Visible emissions when starting cold equipment shall be exempt from this requirement for the first 10 minutes.

b. Monitoring, Reporting, and Recordkeeping

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

(1) The Permittee shall maintain a record of the daily lower heating value of the fuel fired in the ICES and gear arrestor engines. This may be accomplished by maintaining on record a copy of that part of the contract with the vendor that specifies the lower heating value of the fuel.

(2) A certified EPA Reference Method 9 observer shall conduct a monthly survey of visible emissions emanating from the ICE when in operation in accordance with Condition I.A of Attachment "B".

c. Permit Shield

Compliance with this section shall be deemed compliance with A.A.C.R 18-2-719.B, C.1, and E.

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

3. Sulfur Dioxide

a. Emission Limitations and Standards

(1) The Permittee shall not cause to emit more than 1.0 pound of sulfur dioxide per million Btu heat input when low sulfur oil is fired.

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

(2) The Permittee shall not fire high sulfur oil (greater than 0.9 percent sulfur) in the ICES.

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

b. Monitoring, Reporting, and Recordkeeping

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

The Permittee shall keep records of fuel supplier certification including the following information:

- (1) The name of the diesel supplier;
- (2) The sulfur content of diesel from which the shipment came; and
- (3) The method used to determine the sulfur content of the diesel

c. Permit Shield

Compliance with this section shall be deemed compliance with A.A.C.R18-2-719.F and H.

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

D. New Source Performance Standards (NSPS) Subpart IIII Requirements

1. Applicability

a. This Section applies to the emergency ICEs marked as ‘Yes’ under the NSPS Applicability column in Table 2, Equipment List, Attachment "C".

b. Emergency ICE Definition

[40 CFR 60.4219]

Except as provided in Condition III.D.3.b, an emergency ICE shall be limited to emergency situations and required testing and maintenance only such as to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source) is interrupted, or used to pump water in the case of fire or flood, etc.

2. New Engine Installation Requirements

The Permittee shall not install a stationary compression ignition ICE that does not meet the applicable requirements for 2007 or later model year engines.

[40 CFR 60.4208]

3. 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, and -331.A.3.a]
[Material Permit Conditions are indicated by underline and italics]

b. Operation of the ICEs other than emergency operation, maintenance and testing, and operation in non-emergency situations for more than 50 hours per year, is prohibited. These 50 hours of operation shall be counted towards the 100 hours per year provided for maintenance and testing.

[40 CFR 60.4211(f)]

- c. There is no time limit on the use of emergency ICE in emergency situations. [40 CFR 60.4211(f)]
- d. The Permittee shall operate and maintain the ICE and the control device according to the manufacturer’s written instructions. A copy of the instructions or procedures 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]
- e. The Permittee shall only change those emission related settings that are permitted by the manufacturer. [40 CFR 60.4211(a)(2)]
- f. The Permittee shall meet the applicable requirements of 40 CPR Part 89, 94 and 1068. [40 CFR 60.4211(a)(3)]
- g. The Permittee may operate the stationary ICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The Permittee may petition the Administrator and 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 year. [40 CFR 60.4211(f)]

4. Fuel Requirements

[40 CFR 60.4207(b)]

The Permittee operating a stationary ICE shall use diesel fuel that meets the requirements of non-road diesel fuel listed in 40 CFR 80.510(b) and listed below:

- a. Sulfur content: 15 ppm maximum; and
- b. A minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

5. Emission Limitations and Standards

The Permittee operating an emergency ICE shall comply with the emission standards listed in the corresponding applicable regulations for the same model year and cylinder displacement as stated in the Table below:

[40 CFR 60.4205(a), (b), (c), and (f)]

Table 1: Emission Standards for Emergency ICEs

Engine Type	Model Year	Displacement (Liters per cylinder)	Applicable regulations
Non-Fire Pump Engines	Pre-2007	Less than 10	Table 1 of 40 CFR Part 60 Subpart III
	2007 and Later	Less than 30	New Non-road engines in 40 CFR 60.4202
Fire Pump	All	Less than 30	Table 4 of 40 CFR Part 60 Subpart III

6. Compliance Requirements

- a. The Permittee operating a 2007 model year and later stationary ICE or a fire pump engine that is manufactured during or after the model year that applies to the fire pump engine power rating in Table 3 of 40 CFR Part 60, Subpart III, shall comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(b) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

[40 CFR 60.4211(c)]

- b. Modified or Reconstructed Stationary ICE

The Permittee operating a modified or reconstructed stationary ICE shall demonstrate compliance with the applicable standards using one of the following methods:

[40 CFR 60.4211(e) and 4205(e)]

- (1) Purchasing an engine certified to the emission standards in 40 CFR 60.4204(e) or 4205(f).
- (2) Conducting a performance test to demonstrate initial compliance with the emission standards according to the requirements specified in 40 CFR 60.4212. The test shall be conducted within 60 days after the engine commences operation after the modification or reconstruction. The in-use performance tests shall meet the not-to-exceed (NTE) standards as indicated in 40 CFR 60.4212.
- (3) If the Permittee does not install, configure, operate, and maintain the ICE and control device according to the manufacturer's emission-related written instructions, or change the emission-related setting in a way that is not permitted by the manufacturer, the Permittee shall demonstrate compliance as following:

[40 CFR 60.4211(g)]

(a) ICE 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.

(b) ICE 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 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 startup, or within 1 year after changing any non-permitted emission-related setting.

(c) ICE greater than 500 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 startup, or within 1 year after changing any non-permitted emission-related setting on the engine. Subsequent tests shall be conducted every 8760 hours of engine operation or 3 years, whichever comes first.

7. Recordkeeping & Reporting Requirements

a. The Permittee shall maintain a copy of engine certification 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.

[40 CFR 60.4211(c)]

b. 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)]

- c. The Permittee shall keep records of fuel supplier specifications. The specifications shall contain name of the 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]

8. Permit Shield

Compliance with the conditions of this Part shall be deemed compliance with 40 CFR 60. 4205(a), (b), (c), (e), & (f), 4207(b), 4208, 4209(a), 4211(a)(1), (2) & (3), (c), (e), (f), & (g), 4214(b), and 4219.

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

E. National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart ZZZZ Requirements

1. Applicability

- a. This Section is applicable to emergency ICES and gear arrestor engines marked as 'Yes' in NESHAP applicability column in Table 2, Equipment List, Attachment "C".

- b. Emergency stationary ICE means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance.

[40 CFR 63.6675]

2. General Operating Requirements

- a. The Permittee may operate the emergency ICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of the engine is limited to no more than 100 hours per year. The Permittee may petition the Administrator and 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 the Federal, State, or local standards require maintenance and testing beyond 100 hours per year. Copies of records shall be made available to ADEQ upon request.

[40 CFR 63.6640(f)(1)(ii)]

- b. The Permittee may operate the emergency ICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing.

[40 CFR 63.6640(t)(1)(iii)]

- c. *The Permittee shall install a non-resettable hour meter on each ICE.*

[40 CFR 63.6625(t) and A.A.C. R18-2-331.A.3.a]

[Material Permit Conditions are indicated by underline and italics]

d. The Permittee shall minimize the emergency ICEs time at idle during startup and minimize the ICE'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)]

e. The Permittee shall comply with the following:
[40 CFR 63.6603(a); Table 2d of Subpart ZZZZ]

(1) The Permittee shall change oil and filter every 500 hours of operation or annually, whichever comes first.

(2) The Permittee shall inspect air cleaner every 1,000 hours of operation or annually, whichever comes first.

(3) The Permittee shall inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

f. If the Permittee prefers to extend the oil change requirements specified in Condition III.E.2.e(1), an oil analysis program shall be performed. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity and water content. The condemning limits for these parameters are as follows:

Total Base Number: changed less than 30 percent of Total Base Number of oil when new;

Viscosity: changed more than 20 percent from the viscosity of oil when new;

Water Content: changed more than 0.5 percent by volume.

If all of the above limits are not exceeded, the Permittee is not required to change the oil. If any of the above limits are exceeded, the Permittee shall change the oil within 2 days of receiving the results of the analysis or before commencing operation, whichever is later. The analysis program shall be part of the maintenance plan for the operation of the engine.

[40 CFR 63.6625(i)]

3. Recordkeeping and Reporting Requirements

a. The Permittee shall keep records of the hours of operation of the emergency ICE that is recorded through the non-resettable hour meter. Records shall include the date; start and stop times, hours spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.
[40 CFR 63.6655(t)]

b. The Permittee shall keep records of the parameters that are analyzed and the results of the oil analysis, if any, and the oil changes for the engine.
[40 CFR 63.6625(i)]

- c. The Permittee operating an existing emergency ICE subject to management practices in Condition III.E.2.e above, shall keep records of the maintenance conducted on the ICE in order to demonstrate that the ICE and after-treatment control device (if any) were operated and maintained in accordance with the Permittee's maintenance plan.
[40 CFR 63.6655(e)]

- d. The Permittee shall, unless otherwise indicated, submit all reports required under this Attachment along with the annual compliance certification requirement specified in Attachment "A" of this general permit.
[40 CFR 63.6650(b)]

4. Compliance Requirement

The Permittee, for the emergency ICE subject to NSPS Subpart IIII, shall comply with the requirements of NESHAP ZZZZ by meeting requirements of NSPS Subpart IIII.
[40 CFR 63.6590(c)]

5. Permit Shield

Compliance with the conditions of this Part shall be deemed compliance with 40 CFR 63.6590(c), 6595(a)(l), 6603(a), 63.6625(t), (h), & (i), 6640(t)(1)(ii) & (iii), 6650(b), 6655 (e) & (t), 6590(c), and 6675.
[A.A.C. R18-2-325]

IV. TEST CELLS, WELDING, AND PARTS WASHER

A. Applicability

This Section is applicable to the Test Cells, Welding Machines, and Parts Washers listed in Table 3, Equipment List, Attachment "C".

B. Operating Limitations

1. Fuel Usage Limitation- Engine Test Cells

- a. The Permittee shall burn only F24 fuel in the engine test cells.
[A.A.C. R18-2-306.A.2]

- b. *The Permittee shall not use more than 381,000 gallons of fuel in Engine Test Cells ID #s 524, 525, and 527 in any rolling 12-month period.*
[A.A.C. R18-2-306.01 and -331.A.3.a]
[Material Permit Conditions are indicated by underline and italics]

- c. *The Permittee shall not use more than 74,000 gallons of fuel in Engine Test Cell ID #526 in any rolling 12- month period.*
[A.A.C. R18-2-306.01 and -331.A.3.a]
[Material Permit Conditions are indicated by underline and italics]

2. Recordkeeping Requirements

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

- a. The Permittee shall keep records of the rolling 12-month total usage of F24 in Test Cell #s 524, 525, and 527 to demonstrate compliance with the fuel usage in Condition IV.B.1.b.
- b. The Permittee shall keep records of the rolling 12-month total usage of F24 in Test Cell #526 to demonstrate compliance with the fuel usage in Condition IV.B.1.c.

C. Particulate Matter (PM)

1. Emission Limitation and Standard

- 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 one of the following equations:

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

- (1) 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:

$$E = 4.10 P^{0.67}$$

where:

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

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

- (2) 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:

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

where:

"E" and "P" are defined in Condition IV.C.1.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. 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 Limitation and Standards

a. The Permittee shall not cause to be discharged into the atmosphere from the equipment any gases which exhibit opacity greater than 20 percent, measured in accordance with EPA Reference Method 9.

[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

A certified EPA Reference Method 9 observer shall conduct a monthly survey of visible emissions emanating from the equipment 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. Sulfur Dioxide

1. Emissions Limitations and Standards

The Permittee shall not cause or allow the emission of sulfur dioxide from equipment, expressed as SO₂, 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]

F. Nitrogen Oxides (NO_x)

1. Emissions Limitations and Standards

The Permittee shall not cause or allow the emission of nitrogen oxides from equipment, 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]

G. Gaseous Emissions

1. Emission Limits and Standards

a. The Permittee shall not emit gaseous or odorous materials from equipment, operations or premises under his 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 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]

V. FACILITY-WIDE HAZARDOUS AIR POLLUTANT REQUIREMENTS

A. Emission Limitations

The Permittee shall operate in such a manner as to limit the total emissions of federally listed Hazardous Air Pollutants (HAPs) to no more than 9 tons in any 12-month rolling

period of any single HAP and to no more than 22.5 tons in any 12-month rolling period of any combination of HAPs from all emission units within the MCAS Yuma fenceline regardless of NAICS code designations. Any changes that affect HAP emissions within the MCAS Yuma fenceline shall be evaluated on a facility wide basis, and not on permit-specific basis.

[A.A.C. R18-2-306.01 and -331.A.3.a]

[Material permit conditions are indicated by italic and underline]

B. Monitoring and Recordkeeping

[A.A.C. R18-2-306.01]

1. For each location at the facility where a HAP-containing material is used, the Permittee shall record the following information:
 - a. Type and name of material used;
 - b. Location where material is used.
2. The Permittee shall keep records of the daily usage of all solvents, paints, or of other HAP-containing materials.
3. On a monthly basis, the Permittee shall determine the facility-wide total of HAP-containing materials used. If this usage exceeds the maximum monthly HAP-containing material usage from the previous calendar year by more than 25 percent, the Permittee shall perform mass balance for all HAP-containing materials for that month to demonstrate compliance with the HAP limits listed in Condition V.A.
4. On an annual basis, the Permittee shall perform mass balances for all HAP-containing materials to demonstrate compliance with the HAP limits listed in Condition V.A.

C. Reporting Requirements

The Permittee shall submit a summary of the records required in V.B to the Director as part of the annual compliance certifications required by Section VII of Attachment "A" of this permit.

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

VI. FUGITIVE DUST REQUIREMENTS

A. Applicability

Section VI 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

VI. FUGITIVE DUST REQUIREMENTS

- 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 the use of spray bars, wetting agents, dust suppressants, covering the load, and hoods to prevent excessive amounts of particulate matter from becoming airborne when crushing, screening, handling, transporting or conveying of materials or other operations likely to result in significant amounts of airborne dust.
[A.A.C. R18-2-605.B]
 - (5) 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. R18-2-606]
 - (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 to prevent excessive amounts of particulate matter from becoming airborne;
[A.A.C. R18-2-607.A]

VII. OTHER PERIODIC ACTIVITIES

- (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 to prevent excessive amounts of particulate matter from becoming airborne;

[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 Road 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 VI.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 month, the Permittee shall monitor visible emissions from fugitive sources in accordance with Condition I.A of Attachment "B".

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

C. Permit Shield

Compliance with Section VI shall be deemed compliance with A.A.C. R18-2-604, -605, -606, 607, -608, -614, and -804.B.

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

VII. 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 Requirement

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 VII.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/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:

VII. OTHER PERIODIC ACTIVITIES

- (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 VII.B.1.a(1), 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 VII.B.1.a(2), 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 VII.B.1.a(2), 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 VII.B.1.b(1).

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

c. Permit Shield

Compliance with Condition VII.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 VII.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 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 Condition VII.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

TABLE 1. BOILERS, HEATERS, FURNACES, AND INFRARED HEATERS

EQUIPMENT							APPLICABILITY OF	
Type	Capacity, MMBtu/hr	Make	Model	Equipment ID	SERIAL NUMBER	Year of Manufacture	NSPS	NESHAP
Boiler-HT/HW	0.199	Laars Neotherm	NTV199NXN3	263	G14278427	2014	No	No
Boiler-HT/HW	0.199	Laars Neotherm	NTV199NXN3	264	G14278418	2014	No	No
IR Heater	0.36	Reznor	VP1N60ASN	265	BM146780X	2014	No	No
Boiler-HT/HW	0.199	Laars Neotherm	NTV199NXN3	259	G14278431	2014	No	No
Boiler-HT/HW	0.199	Laars Neotherm	NTV199NXN3	260	G14278407	2014	No	No
IR Heater	0.36	Reznor	VP1N60ASN	261	BM632736X	2014	No	No
Water Heater	0.40	AO Smith	BTH400	253	1138M000924	2012	No	No
Water Heater	0.40	AO Smith	BTH400	254	1207M000790	2012	No	No
IR Heater	0.366	Ambirad	ARC18LR	255	101117430505	2011	No	No
IR Heater	0.492	Ambirad	ARC24LR	256	101117430531	2011	No	No
Water Heater	0.40	AO Smith	BTH400A100	249	1138M000923	2012	No	No
Water Heater	0.40	AO Smith	BTH400A100	250	1138M000178	2012	No	No
IR Heater	0.366	Ambirad	ARC18LR	251	101117430528	2011	No	No
IR Heater	0.492	Ambirad	ARC24LR	252	101117430533	2011	No	No
Boiler-Heat	0.333	Raypak	H3-0333	102	9811154374	1999	No	No
Water Heater	0.04	Whirlpool	N40T121-403 NOx	low 889	1514101282405	2015	No	No

EQUIPMENT							APPLICABILITY OF	
Type	Capacity, MMBtu/hr	Make	Model	Equipment ID	SERIAL NUMBER	Year of Manufacture	NSPS	NESHAP
Water Heater	0.199	AO Smith	BTH199100	228	0827M000793	2008	No	No
Water Heater	0.199	AO Smith	BTH199100	229	0827M000789	2008	No	No
Boiler-Heat	0.285	Lochinvar	KBN286	832	A14H10290193	2014	No	No
Water Heater	0.04	Whirlpool	BFG1H5040T3NOV	230	0838T46337	2002	No	No
Boiler-HT/HW	0.105	Laars	NTH105NXNS	806	G14278362	2014	No	No
Water Heater	0.034	Rheem	PROG40S-34NRH62 low NOx	890	Q071731980	2017	No	No
Water Heater	0.038	Vanguard	5AU69	266	VGLNQ431305965	2013	No	No
Boiler-Heat	0.399	Lochinvar	KBN400	293	H12H10230403	2013	No	No
Boiler-Heat	0.40	Lochinvar	KBN400	141	1712105377095	2017	No	No
Water Heater	0.10	AO Smith	BTXL-100	142	100211240	2017	No	No
Boiler-Heat	0.627	Raypak	H2-0624	220	0808286340	Pre- 2005	No	No
Water Heater	0.0751 MMBtu/hr	Rheem	PRO+G75-76N RH	143	Q521723434	NA	No	No
IR Heater	1.8	Roberts Gordon	CRV B-10	269	1402-027-100-0036	2013	No	No
Boiler-HW	0.399	Laars	NTH399NXN3	842	G13261293	NA	No	No
Water Heater	0.0751	Rheem	42V75F	298	RHLNM221213151	2012	No	No

EQUIPMENT							APPLICABILITY OF	
Type	Capacity, MMBtu/hr	Make	Model	Equipment ID	SERIAL NUMBER	Year of Manufacture	NSPS	NESHAP
Water Heater	0.154	AO Smith	BTR154106	134	ME000934039	1992	No	No
Boiler-Heat	0.5	Lochinvar	KBN501	294	H12H10217176	2013	No	No
Water Heater	0.1999	Rheem-Rudd	G100-200	126	URNG0998G00679	1992	No	No
Boiler-Heat	0.399	Lochinvar	KBN400	295	H12H10230393	2013	No	No
Boiler-HW	0.15	Lochinvar	KBN151	296	H12H10225796	2013	No	No
Boiler-Heat	0.5	Loars	NTH500N3	270	G1327665	2013	No	No
Boiler-Heat	0.20	Lochinvar	KHN199	181	183811184761	2018	No	No
Boiler-Heat	0.20	Lochinvar	KHN199	186	1839111968092	2018	No	No
Boiler-Heat	0.20	Lochinvar	KHN199	189	1838111884734	2018	No	No
Water Heater	0.12	AO Smith	BTH120A100	274	1149M000738	2011	No	No
Water Heater	0.04	AO Smith	GVR40 300 low NOx	891	1434J002499	2014	No	No
Boiler-Heat	0.1	Ajax	WGH100S	218	6882	1983	No	No
Water Heater	0.038	Vanguard	5AU69	807	VGNLQ431305966	2013	No	No
Boiler HW	0.399	AO Smith	BT400A118 low NOx	892	1648104152134	2016	No	No
Boiler-Heat	0.399	Lochinvar	KBN400 low NOx	893	3015101823257	2015	No	No

EQUIPMENT							APPLICABILITY OF	
Type	Capacity, MMBtu/hr	Make	Model	Equipment ID	SERIAL NUMBER	Year of Manufacture	NSPS	NESHAP
Water Heater	0.20	Bradford White	EF100T199E3N2	830	HM159009596	2014	No	No
Water Heater	0.04	AO Smith	SL GCV40100	130	J07J044802	2007	No	No
Boiler-HT/HW	0.285	Laars	NTH285NXN3	834	G14307838	2014	No	No
Boiler-HT/HW	0.285	Laars	NTH285NXN3	835	G14307858	2014	No	No
Boiler-Heat	0.65	Raypak	H3-0652B	246	1008313126	2010	No	No
Boiler-Heat	0.65	Raypak	H3-0652B	247	1008313125	2010	No	No
Boiler-Heat	0.395	TBD	TBD	864	TBD	1989	No	No
Water Heater	0.038	TBD	TBD	865	TBD	2015	No	No
Boiler-HT/HW	0.199	TBD	TBD	866	TBD	2015	No	No
Boiler-HT/HW	0.199	TBD	TBD	867	TBD	2015	No	No
IR Heater	0.36	TBD	TBD	868	TBD	2015	No	No
Water Heater	0.199	TBD	TBD	869	TBD	2015	No	No
Boiler-Heat	0.399	TBD	TBD	870	TBD	2015	No	No
IR Heater	1.8	TBD	TBD	871	TBD	2015	No	No
Water Heater	0.4	TBD	TBD	872	TBD	2015	No	No
Water Heater	0.4	TBD	TBD	873	TBD	2015	No	No

EQUIPMENT							APPLICABILITY OF	
Type	Capacity, MMBtu/hr	Make	Model	Equipment ID	SERIAL NUMBER	Year of Manufacture	NSPS	NESHAP
Water Heater	0.04	AO Smith	GCR40-400 NOx	low 895	1606J004299	2016	No	No
IR Heater	0.30	Space-Ray	CB20-N5	888	727162	2012	No	No

TABLE 2: EMERGENCY INTERNAL COMBUSTION ENGINES (ICEs) AND GEAR ARRERSTOR ENGINES

EQUIPMENT							HOURS OF OPERATION	APPLICABILITY OF	
Type	Capacity, HP	Make	Model	Equipment ID	SERIAL NUMBER	Year of Manufacture		NSPS	NESHAP
Emergency ICE	315	Kohler	220REOZJF	352	SGM3262D	2013	500	Yes	Yes
Emergency ICE	315	Kohler	220REOZJF	351	SGM3262C	2013	500	Yes	Yes
Emergency ICE	286	Onsite Energy	431CSL62061	343	MX168398	2012	500	Yes	Yes
Emergency ICE	286	Onsite Energy	431CSL62061	342	MX168027	2012	500	Yes	Yes
Emergency ICE (FL)	755	Cummins	500DFEK-756913	341	H110234933	2011	1,000	Yes	Yes
Emergency ICE (FL)	415	Kohler	250RE0ZD	301	2020818	2004	1,000	No	Yes
Emergency ICE (FL)	550	Kohler	250RE0ZD	302	0656546	1998	1,000	No	Yes
Emergency ICE	364	Cummings	DSHAD-1333043	350	G13053-1560	2013	500	Yes	Yes
Emergency ICE	385	Kohler	250REOZJE	338	2327521	2011	500	Yes	Yes
Emergency ICE	385	Kohler	250REOZJE	339	2327554	2011	500	Yes	Yes

EQUIPMENT							HOURS OF OPERATION	APPLICABILITY OF	
Type	Capacity, HP	Make	Model	Equipment ID	SERIAL NUMBER	Year of Manufacture		NSPS	NESHAP
Emergency ICE	145	Onan	DSFAA-10094821	349	B1200308603	2012	500	Yes	Yes
Emergency ICE	324	Cummins	DSGAD	354	G120367158	2012	500	Yes	Yes
Emergency ICE (FL)	220	Kohler	135REOZJC	304	2029656	2005	1,000	No	Yes
Emergency ICE (FL)	64	Kohler	30REOZJB	305	0744638	2002	1,000	No	Yes
Emergency ICE (FL)	64	Kohler	30REOZJB	306	0744639	2002	1,000	No	Yes
Emergency ICE (FL)	220	Kohler	135REOZJC	319	2021767	2004	1,000	No	Yes
Emergency ICE (FL)	757	Kohler	500REOZJV	307	2027943	2005	500	No	Yes
Emergency ICE	315	TBD	TBD	363	TBD	2013	500	Yes	Yes
Emergency ICE	315	TBD	TBD	364	TBD	2013	500	Yes	Yes
Emergency ICE	315	TBD	TBD	365	TBD	2013	500	Yes	Yes
Emergency ICE	364	TBD	TBD	366	TBD	2013	500	Yes	Yes
Emergency ICE	201	Kohler	125REOZJ4	358	TBD	2018	500	Yes	Yes
Emergency ICE	201	Kohler	125REOZJ4	359	TBD	2018	500	Yes	Yes
Gear Arrestor Engine	65.9	Wisconsin Motors	V465D1-467515	437	11030024	2013		No	Yes

EQUIPMENT							HOURS OF OPERATION	APPLICABILITY OF	
Type	Capacity, HP	Make	Model	Equipment ID	SERIAL NUMBER	Year of Manufacture		NSPS	NESHAP
Gear Arrestor Engine	65.9	Wisconsin Motors	V465D1-467515	438	12060017	2013	Totally 1,500 for all eight gear arrestor engines together	No	Yes
Gear Arrestor Engine	65.9	Wisconsin Motors	V465D1-467515	429	101000162	2010		No	Yes
Gear Arrestor Engine	65.9	Wisconsin Motors	V465D1-467515	430	10100002	2010		No	Yes
Gear Arrestor Engine	65.9	Wisconsin Motors	V465D1-467515	431	10100033	2010		No	Yes
Gear Arrestor Engine	65.9	Wisconsin Motors	V465D1-467515	432	10100009	2010		No	Yes
Gear Arrestor Engine	65.9	Wisconsin Motors	V465D1-467515	433	11030013	2010		No	Yes
Gear Arrestor Engine	65.9	Wisconsin Motors	V465D1-467515	434	11040003	2010		No	Yes

TABLE 3: MISCELLANEOUS EQUIPMENT

EQUIPMENT							APPLICABILITY OF	
Type	Capacity	Make	Model	Equipment ID	SERIAL NUMBER	Year of Manufacture	NSPS	NESHAP
Engine Test Cell T-10	381,000	Rolls Royce	F402-RR-408	525	NA	Pre 2001	No	No

EQUIPMENT							APPLICABILITY OF	
Type	Capacity	Make	Model	Equipment ID	SERIAL NUMBER	Year of Manufacture	NSPS	NESHAP
Engine Test Cell T-26	GAL/YR	Lucas Mark IV APU	GTS-APU-CR00305	524	LZH0026	Pre 2001	No	No
Engine Test Cell T-36		Rolls Royce	F402-RR-408	578	NA	2006	No	No
Engine Test Cell F-5	74,000 GAL/YR	General Electric	A/M37T-23	526	NA	2006	No	No
Blast Cabinet	194,472 LBS	Zero Blast Cabinets	3048INEX 300RDF	549	54413	2009	No	No
Blast Cabinet	194,472 LBS	Clemco Ind/Zero Products	14303	500	52736	2006	No	No
Blast Cabinet	700800 LBS	Clemco	Pulsar 6PE	513	Z56299	2014	No	No
Blast Cabinet	194,472 LBS	Allsource	41500	577	NA	2010	No	No
Blast Cabinet	700,800 LBS	Econoline	RA48X48CN	507	081748X48CB	2017	No	No
Parts Washer	35 GAL	Gray Mills	TG2420LP-B	596	220002	2012	No	No
Parts Washer Aqueous	45 GAL	Zep	S82701	600	NA	NA	No	No
Parts Washer	45 GAL	Gray Mills	PL422-A	503	IDNU-J-5	Pre 2001	No	No
Parts Washer	20 GAL	Micro-Sonic	81000SBC	504	888001096	Pre 2001	No	No
Parts Washer	50 GAL	NA	SS000284	505	NA	Pre 2001	No	No
Parts Washer	26 GAL	Kafka	Oil Eater Basic	509	FONTAINE 100	2017	No	No
Parts Washer	25 GAL	Kleer Flo	PW100G	583	1527	2001	No	No

EQUIPMENT							APPLICABILITY OF	
Type	Capacity	Make	Model	Equipment ID	SERIAL NUMBER	Year of Manufacture	NSPS	NESHAP
Parts Washer	25 GAL	Kleer Flo	PW100G	550	1757	2001	No	No
Cleaner Pressure Steam Jet	70 GAL	Better Engineering	F-SM-3000-N	587	21296	2012	No	No
Parts Washer	20 GAL	Safety Clean	33	552	NA	Pre 2001	No	No
Parts Washer	29 GAL	Ramco	MK24CMS	511	JB1538-05-121	2008	No	No
Parts Washer Ultrasonic	1 GAL	Ney Industries	HT 1206/NC	591	B515327-A3J	NA	No	No
Parts Washer Paint Gun Clnr	5 GAL	Inland Technology	IT-200	512	472	Pre 2001	No	No
Parts Washer	25 GAL	Ramco	MK24CMS	514	JB1431-04-008	2008	No	No
Parts Washer	25 GAL	Ramco	MK24CMS	515	JB1431-04-013	2008	No	No
Parts Washer Strip Tank	550 GAL	Automated Cleaning Technologies	STR7H	516	ACT1678-06	2008	No	No
Parts Washer	70 GAL	Better Engineering	F-SM-3000-N	592	21297	2010	No	No
Parts Washer	47 GAL	Gray Mills	A42618-A	529	285584-03	2018	No	No
Parts Washer	25 GAL	Ramco	MK24CMS	517	JB1538-05-127	2009	No	No

EQUIPMENT							APPLICABILITY OF	
Type	Capacity	Make	Model	Equipment ID	SERIAL NUMBER	Year of Manufacture	NSPS	NESHAP
Parts Washer	47 GAL	Graymills	A42618-A	530	285584-05	2018	No	No
Parts Washer	15 GAL	Graymills	720C36	590	HLF79315	2018	No	No
Parts Washer	40 GAL	Gray Mills	902-A	553	E876-A-07	2009	No	No
Parts Washer	30 GAL	TBD	TBD	608	TBD	2015	No	No
Parts Washer Strip Tank	312 GAL	Automated Cleaning Technologies	ACT STR 4XH/stripper	610	ACT471701	2020	No	No
Parts Washer Rinse Tank	312 GAL	Automated Cleaning Technologies	ACT S4X RINSE	611	ACT471702	2020	No	No
Booth Coating	2,000 GAL	COLMET	ECC-14-09-26-N-SB-S	599	JOB00055653-01	2017	No	No
Welder Smaw	3,504 LBS	Lincoln	Ideal ARC SP-255	568	U1961008068	NA	No	No
Welder Gmaw	3,504 LBS	Miller	300AEROWAVE ARC	528	LF028230.	NA	No	No
Welder Gmaw	1,752 LBS	Miller	MILLERMATIC 180	561	LJ0240717N	NA	No	No
Welder Gmaw	3,154 LBS	Miller	MILLERMATIC 350P	607	MF283016N	2015	No	No
Welder Gmaw	5,256 LBS	Miller	AEROWAVE	562	LC685609	NA	No	No