

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
Air Quality Division
1110 W. Washington St. • Phoenix, AZ 85007 • Phone: 602-771-2338

GENERAL AIR QUALITY CONTROL PERMIT

for HOSPITAL FACILITIES

(As required by Title 49, Chapter 3, Article 2, Section 49-426, Arizona Revised Statutes)

This air quality control permit does not relieve applicant of responsibility for meeting all air pollution regulations



THIS GENERAL PERMIT ISSUED SUBJECT TO THE FOLLOWING Conditions contained in
Attachments "A" and "B"

PERMIT CLASS II EXPIRATION DATE _____

PERMIT ISSUED THIS _____ DAY OF _____,

SIGNATURE

Daniel Czecholinski, Director, Air Quality Division

TITLE

**AIR QUALITY CONTROL GENERAL PERMIT
FOR
HOSPITAL FACILITIES**

INTRODUCTION

Owners/operators of hospital facilities which operate a combination of boilers, internal combustion engines, and ethylene oxide sterilizers may obtain coverage under this General Permit in lieu of an individual permit. Such parties shall do so by obtaining an individual “Authorization to Operate” (ATO) for each boiler, internal combustion engine, and ethylene oxide sterilizer which will attest to their formal agreement to abide by all conditions contained herein.

The applicable requirements governing each permit condition are noted under each condition heading. Material permit conditions are indicated by a single underline and italics pursuant to A.A.C. R18-2-331.

Facilities that have boilers with a maximum heat rating greater than 100 million Btu per hour do not qualify for this general permit. Permittees covered under this General Permit may operate each boiler up to the maximum number of hours per year listed in the ATO. Internal combustion engine(s) are limited to the hours restriction in the ATOs during non-emergency periods. There are no restrictions on the hours of operation of the engines during emergency periods.

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ATTACHMENT "A": GENERAL PROVISIONS

I. GENERAL PERMIT EXPIRATION AND RENEWAL

[A.R.S. § 49-426.F, A.A.C.R18-2-306.A.1, -505]

- A.** This General Permit is valid for a period of five years from the date of issuance. The Director shall review and may renew this General Permit every five years from its date of issuance. All Permittee's Authorizations to Operate (ATOs) shall coincide with the term of this General Permit, regardless of when the individual authorization began during this five year period, except that the Director may require a Permittee authorized to operate under this General Permit to apply for and obtain an individual permit at any time, if the source is not in compliance with the terms and conditions of this General Permit.
- B.** At the time that the public notice is required, pursuant to issuance of the proposed General Permit renewal, the Director shall notify in writing all Permittees who have been granted, or who have applications pending for, ATO(s) under this General Permit. The written notice shall describe the source's duty to reapply and may include requests for information required under the proposed General Permit.

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. GENERAL PERMIT REOPENINGS, REVOCATION AND REISSUANCE, OR TERMINATION FOR CAUSE

- A.** The Director may reopen and reissue, or terminate this General Permit at any time if:
1. The Director has determined that the emissions from the sources in the facility class cause or contribute to ambient air quality standards violations which are not adequately addressed by the requirements in this General Permit, or

[A.A.C. R18-2-510.A.1]

2. The Director has determined that the terms and conditions of this General Permit no longer meet the requirements of A.R.S. §49-426 and 427.

[A.A.C. R18-2-510.A.2]

3. 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.
[A.A.C. R18-2-321.A.1.c]
 4. 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]
- B.** The Director shall provide written notice to all sources operating under this General Permit prior to reissuance or termination of this General Permit. Such notice shall include an explanation of the basis for the proposed action. Within 180 days of receipt of the notice of the expiration, termination or cancellation of this General Permit, sources notified shall submit an application to the Director for the appropriate permit.
[A.A.C. R18-2-510.B]
- C.** The Director may require a source authorized to operate under this General Permit to apply for and obtain an individual source permit at any time if:
1. The source is not in compliance with the terms and conditions of this General Permit;
 2. The Director has determined that the emissions from the source or facility class are significant contributors to ambient air quality standard violations which are not adequately addressed by the requirements in this General Permit.
 3. The Director has information which indicates that the effects on human health and the environment from the sources covered under this General Permit are unacceptable;
 4. The Director has reasonable cause to believe that the ATO was obtained by fraud or misrepresentation; or
 5. The person applying for an ATO failed to disclose a material fact required by the permit application or the regulations applicable to the ATO of which the applicant had or should have had knowledge at the time the application was submitted.
[A.A.C. R18-2-510.C]
- D.** If the Director revokes a source's authority to operate under this General Permit, the Director shall notify the Permittee by certified mail, return receipt requested. The notice shall include a statement detailing the grounds for the revocation of authority and a statement that the Permittee is entitled to a hearing. A source previously authorized to operate under this General Permit may operate under the terms of this General Permit until the earlier of the date it submits a complete application for an individual permit, at which time it may operate under that application, or 180 days after receipt of the notice of revocation of authority to operate under this General Permit.
[A.A.C. R18-2-510.D]

IV. POSTING OF GENERAL PERMIT

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

- A. The Permittee shall post this General Permit or a certificate of General Permit coverage at the location where the equipment is installed in such a manner as to be clearly visible and accessible.
- B. All equipment covered by this General Permit shall be clearly marked with a serial number or other equipment number that is listed on the ATO for that piece of equipment.
- C. A copy of the complete General Permit and associated ATOs shall be kept on the site.

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 General Permit condition. The Permittee shall list on the compliance certification all items of equipment issued ATO(s), on site at the time of annual certification. This certification shall be submitted no later than February 15th of each year and shall report the compliance status of the source during the previous calendar year.
- B. The compliance certification shall include the following:
 - 1. Identification of each term or condition of the permit that is the basis of the certification.
 - 2. Identification of the method or other means used by the Permittee for determining the compliance status with each term and condition during the certification period.
 - 3. The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the methods or means designated in Condition VII.B.2 above. The certification shall identify each deviation and take it into account for consideration in the compliance certification.
 - 4. All instances of deviations from permit requirements reported pursuant to Condition XII.B of this attachment.

5. Other facts the Director may require to determine the compliance status of the source.

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

VIII. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS

Any document required to be submitted by this General 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.

XII. EXCESS EMISSIONS, PERMIT DEVIATIONS, AND EMERGENCY REPORTING

A. Excess Emissions Reporting

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. Prompt reporting shall mean that the report was submitted to the Director by certified mail, facsimile, or hand delivery within two working days of the time when emission limitations were exceeded due to an emergency or within two working days of the time when the Permittee first learned of the occurrence of a deviation from a permit requirement.

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

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]

- C. All required records shall be maintained either in an unchangeable electronic format or in a handwritten logbook utilizing indelible ink.

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

XIV. REPORTING REQUIREMENTS

The Permittee shall submit the following reports:

- A. Compliance certifications in accordance with Section VII above.

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

- B. Excess emission; permit deviation, and emergency reports in accordance with Section XII above.

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

- C. Other reports required by any condition of Attachment "B".

XV. 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]

XVI. PERMIT AMENDMENT OR REVISION

[A.A.C. R18-2-318, -319 AND -320]

- A. The Permittee shall apply for revised General Permit coverage, or for an individual permit, for changes to the facility which do not qualify for a facility change without revision as follows:

- B. Administrative Permit Amendment (A.A.C. R18-2-318); or

- C. Subsequent ATOs (see Section XVII below).

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

XVII. FACILITY CHANGE WITHOUT A PERMIT REVISION

- A.** Except for a physical change or change in the method of operation at a Class II source subject to logging or notice requirements in Conditions XVII.B and XVII.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 (as long as the change does not require a new ATO), 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 XVII.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. 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 XVII.B.1.

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

F. Notwithstanding any other part of this Section, the Director may require a permit to be revised for any change that, when considered together with any other changes submitted by the 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]

G. If a source change is described under both Conditions XVII.B and C, the source shall comply with Condition XVII.C. If a source change is described under both Condition XVII.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]

- H.** A copy of all logs required under Condition XVII.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]

I. Logging Requirements

[Arizona Administrative Code, Appendix 3]

1. Each log entry required by a change under Condition XVII.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.

XVIII. 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 XVIII.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 XVIII.H.1, 2, and 3 above, the Permittee remains subject to the requirements of Section XVIII.

[A.A.C. R18-2-312.J.4]

5. For purposes of this Section XVIII, 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]

XIX. PROPERTY RIGHTS

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

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

XX. SEVERABILITY CLAUSE

The provisions of this General Permit are severable. In the event of a challenge to any portion of this General 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]

XXI. PERMIT SHIELD

As of the date an ATO for a source is granted, 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 **Error! Reference source not found.** 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 and -325]

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.** This General Permit does not cover sources located within Maricopa, Pima or Pinal Counties.
[A.A.C. R18-2-306.A.2]
- B.** All boiler stacks shall be designed in such a way that they are above the buildings in the vicinity, are capable of discharging vertically and there are no obstructions to gas flow such as rain caps, except for hinged rain caps.
[A.A.C. R18-2-306.01]
- C.** Within 30 days of obtaining coverage under this general permit, the Permittee shall have on-site or on-call a person certified in EPA Reference Method 9 unless all Method 9 observations or instantaneous visual observations required by this permit are conducted as Alternative Method-082 (Digital Camera Operating Technique). The Permittee shall certify the camera and the associated software in accordance with ALT-082 procedures. Any Method 9 test or instantaneous visual survey required by this permit can be conducted as ALT-082. The results of a Method 9 observation or any individual instantaneous visual observation conducted as ALT-082 shall be obtained within two hours of completing the Method 9 observation or individual instantaneous visual observation
[A.A.C. R18-2-306.A.3.c]
- D.** The Permittee shall operate all equipment in accordance with vendor-supplied operations and maintenance instructions. If vendor-supplied operations and maintenance instructions are not available, the Permittee shall prepare an Operations and Maintenance Plan which provides adequate information to properly operate and maintain the equipment in good working order. In the absence of vendor supplied operations and maintenance instructions, the Permittee shall operate the equipment in accordance with this Operation and Maintenance Plan. The Permittee shall keep a log of all activities conducted pursuant to the vendor supplied instructions or the Operation and Maintenance Plan.
[A.A.C.R18-2-306.A.3]
- E.** All records, analyses, and reports 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.
[A.A.C.R18-2-306.A.4]
- F.** The Permittee shall submit reports of all monitoring activities required in Attachment “B” along with the compliance certifications required by Section VII of Attachment “A”.
[A.A.C.R18-2-306.A.5]
- G.** *The Permittee shall not operate any boiler, in any rolling 12-month period, for more than the maximum hours listed in the ATO.*
[A.A.C.R18-2-306.01 and -331.A.3.a]
[Material permit conditions are indicated by underline and italics]
- H.** For each boiler that is limited to operate less than 8,760 hours per year as noted on the ATO, the Permittee shall maintain a log of actual hours of operation of each boiler. At the end of each calendar month, the Permittee shall calculate the rolling total hours of operation for each boiler for the previous 12 month period.
[A.A.C. R18-2-306.A.3.c]

- I.** Until the Department makes available the “myDEQ” e-portal service to apply and obtain permits, the Permittee shall follow the requirements of A.A.C. R18-2-503. Upon notification from the Director of “myDEQ” availability, the Permittee shall conduct all permitting services and transactions through the e-portal.

[A.A.C. R18-2-503.A, -B]

J. Boiler Fuel Requirements

1. *The Permittee shall only burn natural gas, liquefied petroleum gas (Butane or Propane), or diesel fuel in the boiler(s).*

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

[Material permit conditions are indicated by underline and italics]

2. *When firing diesel, the Permittee shall limit the operation of the boilers to no more than 48 hours in any rolling 12-month period outside of a gas curtailment or gas supply emergency.*

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

[Material Permit Conditions are indicated by underline and italics]

II. BOILERS SUBJECT TO STATE REGULATIONS

A. Applicability

This Section is applicable to any boiler with a maximum firing capacity of 100 MMBtu per hour or less that is not covered by Section III of this Attachment.

[A.A.C. R18-2-302.B and -724.A]

B. Fuel Limitation

1. *The Permittee shall not combust high sulfur oil (fuel containing 0.90 percent or more by weight of sulfur) in the boiler(s).*

[A.A.C. R18-2-724.G and A.A.C. R18-2-331.A.3.a]

2. Permit Shield

Compliance with Condition II.B.1 shall be deemed compliance with A.A.C. R18-2-724.G.

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

C. Particulate Matter and Opacity

1. Emission Limitation

- a. The Permittee shall not cause, allow or permit the emission of particulate matter, caused by combustion of fuel, from any fuel-burning operation 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.

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

- b. For purposes Condition II.C.1.a, the heat input shall be the aggregate heat content of all fuels whose products of combustion pass through a stack or other outlet.

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

2. Monitoring, Recordkeeping, and Reporting Requirements

The Permittee shall report all six-minute periods in which the opacity of any plume or effluent exceeds 15%.

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

3. Permit Shield

Compliance with Condition II.C shall be deemed compliance with A.A.C. R18-2-724.C.1, -724.B and -724.J.

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

D. Sulfur Dioxide

1. Emissions Limitation

While burning low-sulfur oil, the Permittee shall not cause, allow, or permit emissions of more than 1.0 pounds of sulfur dioxide per million Btu heat input.

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

2. Monitoring, Reporting and Record Keeping

The Permittee shall maintain records of fuel supplier certifications or other appropriate documentation to demonstrate compliance with the sulfur content limit specified in the Condition II.D.1 above. These records shall be made available to ADEQ upon request.

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

3. Permit Shield

Compliance with Condition II.D.1 of this Section shall be deemed compliance with A.A.C. R18-2-724.E and G.

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

III. NEW SOURCE PERFORMANCE STANDARDS FOR SMALL INDUSTRIAL-COMMERCIAL-INSTITUTIONAL STEAM GENERATING UNITS (NSPS SUBPART DC)

A. Applicability

Boilers with maximum firing capacities between 10 and 100 MMBtu/hr and commenced construction, modification, or reconstruction after June 9, 1989, are subject to the requirements of this Section.

[40 C.F.R. 60.40c(a)]

B. Initial Notification Requirements

1. The Permittee shall submit notification of the date of construction or reconstruction and actual startup, as provided by §60.7 of this part. This notification shall include:

[40 CFR 60.48c(a) and 60.7(a)]

a. The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.

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

b. Date of construction commencement – postmarked no more than 30 days after such date.

[40 CFR 60.7(a)(1)]

c. Date of actual start-up – postmarked within 15 days after such date.

[40 CFR 60.7(a)(3)]

d. If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §60.42c, or §60.43c.

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

e. The annual capacity factor at which Permittee anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

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

f. Notification if an emerging technology will be used for controlling SO₂ emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the Permittee to submit additional information concerning the control device. The affected facility is subject to the provisions of §60.42c(a) or (b)(1), unless and until this determination is made by the Administrator.

[40 CFR 60.48c(a)(4)]

g. Permit Shield

Compliance with the Condition II.B.1 shall be deemed compliance with 40 CFR 60.48c(a) and 60.7(a).

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

2. Monitoring & Recordkeeping

a. The Permittee shall record the amount of fuel combusted during each day for each boiler. While combusting diesel, the Permittee may elect to record

the amount of fuel combusted during each month for each boiler by providing a fuel certification with the following information:

[40 C.F.R 60.48c(g)(1)-(3)]

- (a) The name of the fuel supplier;
 - (b) A statement from the fuel supplier that the fuel complies with the specifications under the definition of distillate oil in §60.41c; and
 - (c) The sulfur content or maximum sulfur content of the fuel.
- (2) The Permittee shall maintain all records for a period of two years following the date of such record.

[40 CFR 60.48c(i)]

b. Permit Shield

Compliance with Condition III.B.2.a III.B of this Section shall be deemed compliance with 40 CFR 60.48c(g) and -60.48c(i).

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

C. Opacity Requirements

1. Emission Limitations and Standards

- a. *The Permittee of a boiler that is permitted in its ATO to burn diesel fuel and with a heat input capacity of 30 MMBtu/hr or greater, shall not cause, allow or permit the opacity of any plume or effluent from such boiler to exceed 20 percent, except for one 6-minute period per hour of not more than 27 percent opacity.*

[40 C.F.R. 60.43c(c)]

[Material permit conditions are indicated by underlines and italics]

- b. The opacity limit in Condition III.C.1.a applies at all times except during periods of startup, shutdown, or malfunction.

[40 C.F.R. 60.43c(d)]

2. Monitoring, Recordkeeping, and Reporting

- a. The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the boiler(s).
- b. The Permittee shall submit excess emission reports for any excess emissions from the boiler(s), in accordance with Section XII of Attachment “A” and maintain records according to the requirements specified in Condition III.C.2.c below.

[40 C.F.R. 60.48c(c)]

- c. The Permittee shall keep records including the following information:

[40 C.F.R. 60.48c(c)(1)]

- (1) Dates and time intervals of all opacity observation periods;
- (2) Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and
- (3) Copies of all visible emission observer opacity field data sheets.

3. Permit Shield

Compliance with Condition III.C III.B of this Section shall be deemed compliance with 60.43c(c), 60.43c(d), 60.7(b), and 60.48c(c)

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

D. Limitation on Sulfur Content of Fuel

1. Emission Limitations and Standards

- a. When firing diesel fuel, the Permittee shall burn only diesel fuel containing equal to or less than 0.5 percent by weight sulfur, as determined on a 30-day rolling average basis.

[40 C.F.R. §60.42c(d) and §60.42c(g)]

- b. The sulfur content limit in Condition III.D.1.a applies at all times, including periods of startup, shut down, or malfunction.

[40 C.F.R. §60.42c(i)]

2. Monitoring, Record Keeping and Reporting

- a. When firing diesel fuel, the initial performance test required under 40 CFR 60.8 shall consist of the first certification from the fuel supplier, containing the information described in Conditions III.D.2.b(1) through Condition III.D.2.b(3) below.

[40 CFR §60.44c(h)]

- b. The Permittee shall submit semi-annual reports to the Director, postmarked by the 30th day following the end of the reporting period. The report shall include:

[40 C.F.R. 60.48c(d), 60.48c(e)(11), 60.48c(f)(1), and 60.48c(j)]

- (1) Name of the oil supplier;
- (2) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil;
- (3) The sulfur content or maximum sulfur content of the oil; and
- (4) A certified statement signed by the Permittee that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

3. Permit Shield

Compliance with the conditions of Condition III.D shall be deemed compliance with 60.42c(d), 60.42c(g), 60.42c(i), 60.4c(h), 40 C.F.R 60.48c(d), 60.48c(e)(11), 60.48c(f)(1), and 60.48c(j)

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

IV. EMERGENCY INTERNAL COMBUSTION ENGINE(S)

A. Operation Requirements

1. *The Permittee shall only burn gasoline, natural gas, liquefied petroleum gas, or diesel fuel in the internal combustion engine(s).*

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

[Material permit conditions are indicated by underline and italics]

2. *The Permittee shall not operate the internal combustion engine(s) for more than the rolling 12-month hour restriction(s) identified in the ATOs or 500 hours per rolling 12-month period, whichever is less.* The hours restriction in the ATOs do not apply during emergency periods of operation. Operating hours shall be defined as the actual cumulative time an internal combustion engine was in use.

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

[Material permit conditions are indicated by underlines and italics]

3. Monitoring Recordkeeping and Reporting Requirements

The Permittee shall maintain copies of fuel supplier certifications which verify that the sulfur content of the fuel is less than the limit specified in Condition IV.C.2.a for engines marked as subject to NSPS Subpart IIII on the associated ATO or Condition IV.D for engines marked as not subject to NSPS on the associated ATO.

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

B. Compression Ignition Engines Subject To NSPS Subpart IIII

1. Applicability

- a. This Section is applicable to each CI ICE (emergency generator) identified in the ATO as subject to New Source Performance Standard (NSPS) Subpart IIII.

[40 CFR 60.4200(a)]

- (1) Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:

- (a) 2007 or later, for engines that are not fire pump engines;
 [40 CFR 60.4200(a)(i)]

- (b) The model year listed in Table 3 of 40 CFR 60 Subpart IIII or later model year, for fire pump engines.

[40 CFR 60.4200(a)(ii)]

- (2) Compression ignition (CI) internal combustion engines (ICE) that commenced construction after July 11, 2005, where the stationary CI ICE are:

[40 CFR 60.4200(a)(2)]

- (a) Manufactured after April 1, 2006, and are not fire pump engines, or

[40 CFR 60.4200(a)(2)(i)]

- (b) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.

[40 CFR 60.4200(a)(2)(ii)]

- (3) Any stationary CI ICE that are modified or reconstructed after July 11, 2005.

[40 CFR 60.4200(a)(3)]

2. Operating Requirements

- a. The Permittee shall operate and maintain the engine according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer over the lifetime of the engine. A copy of the instructions or procedures shall be kept onsite and made available to ADEQ upon request.

[40 CFR 60.4211(a)(1), 40 CFR 60.4206 and A.A.C. R18-2-306.A.3]

- b. The Permittee shall only change those engine settings that are permitted by the manufacturer.

[40 CFR 60.4211(a)(2)]

- c. The Permittee shall meet the requirements of 40 CFR Parts 89, 94, or 1068, as they apply.

[40 CFR 60.4211(a)(3)]

- d. Fuel Requirements

If the Permittee operates an engine that uses diesel fuel and has a displacement of less than 30 liters per cylinder, the Permittee shall use diesel fuel that meets the following requirements:

[40 CFR 60.4207(b)]

- (1) Sulfur content: 15 ppm maximum; and

[40 CFR 80.510(b)(1)(i)]

- (2) A minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

[40 CFR 80.510(b)(2)(i)-(ii)]

- e. Additional Emergency Engine Requirements

- (1) The Permittee shall install a non-resettable hour meter prior to startup of the engine.

[40 CFR 60.4209(a) and A.A.C. R18-2-331.A.3.c]

[Material permit conditions are indicated by underline and italics]

- (2) The Permittee shall operate the emergency stationary ICE according to Condition IV.B.2.e(2)(a) through (c). In order for the engine to be considered an emergency stationary ICE, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described below, is prohibited.

[40 CFR 60.4211(f)]

- (a) There is no time limit on the use of emergency stationary ICE in emergency situations.

[40 CFR 60.4211(f)(1)]

- (b) The Permittee may operate the emergency stationary ICE for any combination of the purposes specified below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Condition IV.B.2.e(2)(c) counts as part of the 100 hours per calendar year.

[40 CFR 60.4211(f)(2)]

- (i) The emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine.

[40 CFR 60.4211(f)(2)(i)]

- (ii) 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.

[40 CFR 60.4211(f)(2)(i)]

- (c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in Condition IV.B.2.e(2)(b). Except as provided

in Condition IV.B.2.e(2)(c)(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)]

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

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

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

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

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

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

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

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

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

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

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

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

- (3) 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 the Permittee changes emission-related settings in a way that is not permitted by the manufacturer, the Permittee shall demonstrate compliance as follows:

[40 CFR 60.4211(g)]

- (a) If the Permittee operates a stationary CI ICE with maximum engine power 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, if the Permittee does not install and configure the engine and control device according to the manufacturer's emission-related written instructions, or the Permittee changes the emission-related settings in a way that is not permitted by the manufacturer, the Permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of such action.

[40 CFR 60.4211(g)(1)]

- (b) If the Permittee operates a stationary CI 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 and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the Permittee changes emission-related settings in a way that is not permitted by the manufacturer.

[40 CFR 60.4211(g)(2)]

- (c) If the Permittee operates a stationary CI internal combustion engine 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 the Permittee changes emission-related settings in a way that is not permitted by the manufacturer. The Permittee shall conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

[40 CFR 60.4211(g)(3)]

f. Permit Shield

Compliance with the conditions of Condition IV.B.2 shall be deemed compliance with 40 CFR 60. 4211(a), 4207(b), 80.410(b), 60.4209(a), 4211(f)(1)-(3), and 4211(g).

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

3. Emission Limitations and Standards

a. Fire Pump Engines

The Permittee shall comply with the emission limits in Table 1 for fire pump engines with a displacement of less than 30 liters per cylinder:

[40 CFR 60. 4205(c) and 40 CFR 60 Subpart IIII Table 4]

Table 1

Maximum Engine Power (EP)	Model year	Emission Standard (g/HP-hr)		
		PM	NMHC + NO _x	CO
HP < 11	2010 and earlier	0.75	7.8	6.0
	2011 and later	0.30	5.6	N/A
11 ≤ HP < 25	2010 and earlier	0.60	7.1	4.9
	2011 and later	0.30	5.6	N/A
25 ≤ HP < 50	2010 and earlier	0.60	7.1	4.1
	2011 and later	0.22	5.6	N/A
50 ≤ HP < 75	2010 and earlier	0.60	7.8	3.7
	2011 and later	0.30	3.5	N/A
75 ≤ HP < 100	2010 and earlier	0.60	7.8	3.7
	2011 and later	0.30	3.5	N/A
100 ≤ HP < 175	2009 and earlier	0.60	7.8	3.7
	2010 and later	0.22	3.0	N/A
175 ≤ HP < 300	2008 and earlier	0.40	7.8	2.6
	2009 and later	0.15	3.0	N/A
300 ≤ HP < 600	2008 and earlier	0.40	7.8	2.6
	2009 and later	0.15	3.0	N/A
600 ≤ HP ≤ 750	2008 and earlier	0.40	7.8	2.6

Maximum Engine Power (EP)	Model year	Emission Standard (g/HP-hr)		
		PM	NMHC + NO _x	CO
HP > 750	2009 and later	0.15	3.0	N/A
	2007 and earlier	0.40	7.8	2.6
	2008 and later	0.15	4.8	N/A

- (1) For model years 2011 through 2013, fire pump engines that are greater than 50 horsepower, but less than 100 horsepower with a rated speed of greater than 2,650 revolutions per minute (rpm) may comply with the emission limitations for 2010 model year engines.

[Note 1 to Table 4 to 40 CFR 60 Subpart III]

- (2) For model years 2010 through 2012, fire pump engines that are greater than 100 horsepower, but less than 175 horsepower with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2009 model year engines.

[Note 2 to Table 4 to 40 CFR 60 Subpart III]

- (3) For model years 2009 through 2011, fire pump engines that are greater than 175 horsepower, but less than 600 horsepower with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2008 model year engines.

[Note 3 to Table 4 to 40 CFR 60 Subpart III]

b. Emergency Engines

- (1) Pre-2007 model year emergency stationary internal combustion engines with a displacement of less than 10 liters per cylinder that are not fire pump engines shall comply with the emission standards in Table 2:

[40 CFR 60.4205(a) and 40 CFR 60 Subpart III Table 1]

Table 2

Maximum Engine Power	Emission Standard (g/HP-hr)				
	NMHC + NO _x	HC	NO _x	CO	PM
HP < 11	7.8			6.0	0.75
11 ≤ HP < 25	7.1			4.9	0.60
25 ≤ HP < 50	7.1			4.1	0.60
50 ≤ HP < 75			6.9		
75 ≤ HP < 100			6.9		
100 ≤ HP < 175			6.9		
175 ≤ HP < 300		1.0	6.9	8.5	0.40

Maximum Engine Power	Emission Standard (g/HP-hr)				
	NMHC + NO _x	HC	NO _x	CO	PM
300 ≤ HP < 600		1.0	6.9	8.5	0.40
600 ≤ HP ≤ 750		1.0	6.9	8.5	0.40
HP > 750		1.0	6.9	8.5	0.40

- (2) 2007 model year and later emergency internal combustion engines with a displacement of less than 30 liters per cylinder and engine power less than or equal to 3,000 horsepower that are not fire pump engines shall comply with the appropriate emission limitation as follows:

[40 CFR 60.4205(b) and 4202(a)]

- (a) For engines with a maximum engine power less than 50 horsepower:

[40 CFR 60.4202(a)(1)]

- (i) 2007 model year engines shall meet the emission standards for new nonroad compression ignition engines in 40 CFR 89.112 and 40 CFR 89.113, for all pollutants, for the same model year and maximum engine power.

[40 CFR 60.4202(a)(1)(i)]

- (ii) 2008 model year and later engines shall meet the emission standards for new nonroad compression ignition engines in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, 40 CFR 1039.115, and Table 3 below:

[40 CFR 60.4202(a)(1)(ii)]

Table 3

Engine Power	Emission standards (g/HP-hr)		
	NOX + NMHC	CO	PM
HP < 11	5.6	6.0	0.30
11 < HP < 25	5.6	4.9	0.30
25 < HP < 50	5.6	4.1	0.22

[40 CFR 60 Subpart III Table 2]

- (b) For engines with a maximum engine power greater than or equal to 50 horsepower, the Permittee shall meet the emission standards for new nonroad compression ignition engines in 40 CFR 89.112 and 40 CFR 89.113, for all pollutants, for the same model year and maximum engine power.

[40 CFR 60.4202(a)(2)]

- (3) 2007 model year and later engines shall meet the emission standards for new marine compression ignition engines in 40 CFR 94.8, as applicable, for all pollutants, for the same displacement and maximum engine power.

[40 CFR 60.4202(e)]

- (4) Emergency stationary internal combustion engines with a displacement of less than 30 liters per cylinder that conduct performance tests in-use shall meet the NTE standards as indicated in 40 CFR 60.4212.

[40 CFR 60.4205(e)]

- (5) Modified or Reconstructed Emergency CI ICE

Any modified or reconstructed emergency stationary internal combustion engine shall meet the emission standards applicable to the model year, maximum engine power, and displacement of the modified or reconstructed internal combustion engine that are specified in Condition IV.C.3.

[40 CFR 60.4205(f)]

c. Permit Shield

Compliance with the conditions of Condition IV.B.3 shall be deemed compliance with 40 CFR 60.4205(c), 40 CFR 60 Subpart III Table 4, 4205(a), 40 CFR 60 Subpart III Table 1, 4205(b), 4202(a), 4202(e), 4205(e), 4205(f)

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

4. Compliance Determinations

a. General Requirements

The Permittee shall operate and maintain the control device according to the manufacturer's written instructions or procedures that are developed by the Permittee and approved by the engine manufacturer. A copy of the instructions or procedures shall be kept on-site and made available to ADEQ upon request.

[40 CFR 60.4211(a) and A.A.C. R18-2-306.A.3]

b. Pre-2007 CI ICE

The Permittee of a pre-2007 model year stationary compression ignition internal combustion engine that is required to comply with the emission standards specified in Condition IV.B.3.b(1), shall demonstrate compliance according to one of the methods specified below:

[40 CFR 60.4211(b)(1)-(5)]

- (1) Purchasing an engine certified according to 40 CFR Part 89 or 40 CFR Part 94, as applicable, for the same model year and maximum

engine power. The engine shall be installed and configured according to the manufacturer's specifications.

- (2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test shall have been conducted using the methods specified in this 40 CFR 60.4212 or 4213, and the methods shall have been followed correctly.
- (3) Keeping records of engine manufacturer data indicating compliance with the standards.
- (4) Keeping records of control device vendor data indicating compliance with the standards.
- (5) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR 60.4212, as applicable.

c. 2007 and Later CI ICE

For 2007 model year and later internal combustion engines that are required to comply with the emission standards specified in Condition IV.B.3.b(2), the Permittee shall comply by purchasing an engine certified to the emission standards in Condition IV.B.3.b(2), as applicable, for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's specifications.

[40 CFR 4211(c)]

d. 2007 and Later Fire Pump Engines

The Permittee of a 2007 model year and later stationary fire pump engines that is manufactured during or after the model year that applies to the fire pump engine power rating in Table 4 below and that are required to comply with the emission standards specified in Condition IV.C.3.b(1) shall comply by purchasing an engine certified to the emission standards in Condition IV.C.3.b(1) as applicable, for the same model year and National Fire Protection Association (NFPA) nameplate engine power. The engine shall be installed and configured according to the manufacturer's specifications.

[40 CFR 4211(c) and 40 CFR 60 Subpart III Table 3]

Table 4

Engine Power	Model Year
HP < 100	2011
100 ≤ HP < 175	2010
175 ≤ HP < 750	2009
HP ≥ 750	2008

- e. The Permittee shall maintain a copy of engine certifications or other documentation demonstrating that each 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]

f. Alternate Compliance Demonstration Requirements

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 change emission-related settings in a way that is not permitted by the manufacturer, the Permittee shall demonstrate compliance as follows:

[40 CFR 60.4211(g)]

(1) If the Permittee operates a stationary CI internal combustion engine with maximum engine power less than 100 HP, the Permittee shall keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, if the Permittee does not install and configure the engine and control device according to the manufacturer's emission-related written instructions, or the Permittee changes the emission-related settings in a way that is not permitted by the manufacturer, the Permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of such action.

[40 CFR 60.4211(g)(1)]

(2) If the Permittee operates a stationary CI internal combustion engine 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 must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the Permittee changes the emission-related settings in a way that is not permitted by the manufacturer.

[40 CFR 60.4211(g)(2)]

(3) If the Permittee operates a stationary CI internal combustion engine greater than 500 HP, the Permittee shall keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test to demonstrate compliance with the

applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the Permittee changes the emission-related settings in a way that is not permitted by the manufacturer. The Permittee shall conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

[40 CFR 60.4211(g)(3)]

g. Permit Shield

Compliance with the conditions of Condition IV.B.3 shall be deemed compliance with 40 CFR 60.4211(a)-(c), 4211(g)(1)-(3) and 40 CFR 60 Subpart III Table 3

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

5. Monitoring, Recordkeeping, and Reporting Requirements

a. If the Permittee elects to meet the emission limitations contained in Condition IV.B.3, the Permittee shall maintain records, including manufacturer specifications, demonstrating that the engine meets the horsepower and RPM specifications.

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

(1) The Permittee shall keep records of the following:

[40 CFR 60.4214(a)(2)]

(a) All notifications submitted to comply with this subpart and all documentation supporting any notification.

[40 CFR 60.4214(a)(2)(i)]

(b) Maintenance conducted on the engine.

[40 CFR 60.4214(a)(2)(ii)]

(c) If the stationary CI internal combustion engine is certified, documentation from the manufacturer that the engine is certified to meet the emission standards.

[40 CFR 60.4214(a)(2)(iii)]

(d) If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.

[40 CFR 60.4214(a)(2)(iv)]

b. If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the Permittee is not required to submit an initial notification. Starting with the model years in Table 5, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the Permittee shall keep records of the operation of the engine in emergency and non-emergency

service that are recorded through the non-resettable hour meter. The Permittee shall record the time of operation of the engine and the reason the engine was in operation during that time.

Table 5

Engine Power	Starting Model Year
$25 \leq \text{HP} < 75$	2013
$75 \leq \text{HP} < 175$	2012
$\text{HP} \geq 175$	2011

[40 CFR 60.4214(b) and 40 CFR 60 Subpart IIII Table 5]

c. If the stationary CI internal combustion 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)]

d. If the Permittee operates an emergency stationary CI ICE with a maximum engine power more than 100 HP for the purposes specified in Condition IV.B.2.e(2)(b)(i) and (ii), the Permittee shall submit an annual report according to the requirements below:

[40 CFR 60.4214(d)]

(1) The report shall contain the following information:

[40 CFR 60.4214(d)(1)]

(a) Company name and address where the engine is located.

[40 CFR 60.4214(d)(1)(i)]

(b) Date of the report and beginning and ending dates of the reporting period.

[40 CFR 60.4214(d)(1)(ii)]

(c) Engine site rating and model year.

[40 CFR 60.4214(d)(1)(iii)]

(d) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.

[40 CFR 60.4214(d)(1)(iv)]

(e) Hours spent for operation for the purposes specified in Condition IV.B.2.e(2)(c)(i), including the date, start time, and end time for engine operation for the purposes specified in Condition IV.B.2.e(2)(c)(i). The report shall also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

[40 CFR 60.4214(d)(1)(vii)]

- (2) Annual reports for each calendar year shall be submitted no later than March 31 of the following calendar year.

[40 CFR 60.4214(d)(2)]

- (3) The annual report shall be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (*www.epa.gov/cdx*). However, if the reporting form specific to 40 CFR Part 60, Subpart IIII is not available in CEDRI at the time that the report is due, the written report shall be submitted to the Administrator at the appropriate address listed in 40 CFR 60.4.

[40 CFR 60.4214(d)(3)]

- e. The Permittee shall maintain monthly records of engine operation. The records shall include the purpose of operation and the duration of time the engine was operated. The record shall identify whenever the operation of the engine was for emergency purposes.

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

- f. Permit Shield

Compliance with the conditions of Condition IV.B.5 shall be deemed compliance with 40 CFR 60.4214(a)(2), 4214(b), 4214(c), 4214(d)(1)-(3).

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

6. Testing Requirements

- a. If the ICE has a displacement of less than 30 liters per cylinder and is required to conduct performance tests, the Permittee shall do so according to 40 CFR 60.4212.

[40 CFR 60.4212]

- b. Permit Shield

Compliance with the conditions of Condition IV.B.6.aIV.B.3 shall be deemed compliance with 40 CFR 60.4212.

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

C. Spark-Ignition Engines Subject To NSPS Subpart JJJJ

1. Applicability

This Section is applicable to each emergency SI ICE (emergency generator) identified in the ATO as applicable to NSPS Subpart JJJJ.

2. Fuel Requirements

- a. Gasoline Fuel Sulfur Limits

If the Permittee burns gasoline in the stationary emergency SI ICE, then that gasoline shall meet the per gallon sulfur limit of 80 parts per million (ppm) as stated in 40 CFR 80.195.

[40 CFR 60.4235]

b. Permit Shield

Compliance with Condition IV.C.2.a shall be deemed compliance with 40 CFR 60.4235.

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

3. Operating Requirements

- a. The Permittee is prohibited from operating the emergency SI ICE for any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year.

[40 CFR 60.4243(d), A.A.C. R18-2-331.A.3.c]

[Material Permit Conditions are indicated by underline and italics]

- b. The Permittee shall install a non-resettable hour meter prior to start-up of the engine.

[A.A.C. R18-2-306.A.3, A.A.C. R18-2-331.A.3.c, and 40 CFR 60.4237]

[Material Permit Conditions are indicated by underline and italics]

- c. The Permittee shall operate the stationary emergency SI ICE according to the requirements in Conditions IV.C.3.c(1) through (3) below.

[40 CFR 60.4243(d)]

- (1) There is no time limit on the use of emergency stationary SI ICE in emergency situations.

[40 CFR 60.4243(d)(1)]

- (2) The Permittee may operate the stationary emergency SI ICE for any combination of the purposes specified in Conditions IV.D.3.c(2)(a) through (b) below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Condition IV.D.3(2) below counts as part of the 100 hours per calendar year allowed by this paragraph.

[40 CFR 60.4243(d)(2)]

- (a) Emergency stationary SI ICE may be operated for maintenance checks and readiness testing, 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.

[40 CFR 60.4243(d)(2)(i)]

- (b) The Permittee may petition the Administrator or Director for approval of additional hours to be used for maintenance checks and readiness testing, but a petition

is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency SI ICE beyond the 100 hours per calendar year.

[40 CFR 60.4243(d)(2)(i)]

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

[40 CFR 60.4243(d)(3)]

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

[40 CFR 60.4243(d)(3)(i)]

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

[40 CFR 60.4243(d)(3)(i)(A)]

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

[40 CFR 60.4243(d)(3)(i)(B)]

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

[40 CFR 60.4243(d)(3)(i)(C)]

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

[40 CFR 60.4243(d)(3)(i)(D)]

- (v) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission

or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[40 CFR 60.4243(d)(3)(i)(E)]

- d. The Permittee operating an emergency stationary natural gas fired SI ICE may operate the engine using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the Permittee shall conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233.

[40 CFR 60.4243(e)]

- e. The Permittee shall use air-to-fuel ratio controllers when operating a three-way catalysts/non-selective catalytic reduction. The air-to-fuel ratio controller shall be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

[40 CFR 60.4243(g)]

- f. Permit Shield

Compliance with the conditions of Condition IV.C.3 shall be deemed compliance with 40 CFR 60.4237, 40 CFR 60.4243(d), 40 CFR 60.4243(e), and 40 CFR 60.4243(g).

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

4. Emission Standards

- a. The Permittee shall operate and maintain the stationary emergency SI ICE such that it complies with the emission standards listed in Condition IV.C.4.b below over the entire life of the engine.

[40 CFR 60.4234]

- b. The Permittee operating a stationary emergency SI ICE that commenced construction (date engine was ordered) or modified or reconstructed after June 12, 2006, and was manufactured on or after the date specified in the Table below shall comply with the emission standards listed in the corresponding applicable standards.

[40 CFR 60.4233(d) and (f)]

Table 6

Engine Rating	Manufacture Date	Applicable Regulation		
< 25 HP	On or After July 1, 2008	40 CFR 60.4231(a) [40 CFR 60.4233(a)]		
> 25 HP	On or After January 1, 2009	Gasoline Engines 40 CFR 60.4231(b) [40 CFR 60.4233(b)]	Rich Burn LPG Engines 40 CFR 60.4231(c) [40 CFR 60.4233(c)]	
> 25 HP (excluding gasoline & rich burn LPG ICE)	On or After January 1, 2009	Emission Standards in Table 1 of 40 CFR Part 60 Subpart JJJJ [40 CFR 60.4233(d) and (e)]		
≥25 HP and <130 HP which are Modified or Reconstructed After June 12, 2006	On or After January 1, 2009	Emission Standards in Table 1 of 40 CFR Part 60 Subpart JJJJ [40 CFR 60.4233(d) and (e)]		
≥130 HP which are Modified or Reconstructed After June 12, 2006	Prior to January 1, 2009	NO_x 3.0 g/HP-hour or 250 ppmvd @ 15% O ₂ [40 CF60.4233(f)]	CO 4.0 g/HP-hr or 540 ppmvd @ 15% O ₂ [40 CF60.4233(f)]	VOC 1.0 g/HP-hr or 86 ppmvd @ 15% O ₂ [40 CF60.4233(f)]

c. Permit Shield

Compliance with the conditions of Condition IV.C.4 shall be deemed compliance with 40 CFR 60. 4234, 4233(d) and (f),

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

D. Generators Not Subject to NSPS

1. Applicability

This Section applies to internal combustion engines marked as not subject to NSPS on the associated ATO.

2. Particulate Matter and Opacity

a. Emission Limitations and Standards

- (1) The Permittee shall not cause or allow to be discharged into the atmosphere from the generator stack(s) particulate matter in excess of the amount 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.

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

- (2) For the purposes of the calculations required in Condition IV.D.2.a(1) above, 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 at 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) 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% 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 and Recordkeeping

- (1) A certified EPA Reference Method 9 observer shall conduct a monthly survey of visible emissions emanating from the stack of the generator(s). If the opacity of the emissions observed appears to exceed the standard, the observer shall conduct a certified EPA Reference Method 9 observation. The Permittee shall keep records of the initial survey and any EPA Reference Method 9 observations performed. These records shall include the emission point observed, location of observer, name of observer, date & time of observation, and the results of the observation. If the observation shows a Method 9 opacity reading in excess of 40%, the Permittee shall report this to the Director as an excess emission in accordance with Condition XII.A.1 of Attachment "A" and initiate appropriate corrective action to reduce the opacity below 40%. The Permittee shall keep a record of the corrective action performed.

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

- (2) 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]

c. Permit Shield

Compliance with the conditions of this Section shall be deemed compliance with A.A.C. R18-2-719.B, -719.C.1, and -719.E.

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

3. Sulfur Dioxide

a. Emission Limitations and Standards

- (1) The Permittee shall not emit or cause to emit more than 1.0 pound of sulfur dioxide per million Btu heat input.

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

- (2) The Permittee shall not burn high sulfur diesel fuel (sulfur content greater than 0.9 % by weight) in the generator(s).

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

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 generator(s). The Permittee shall keep records of fuel supplier certifications to demonstrate compliance with the sulfur content limit specified in Condition IV.D.3.a. The certification shall contain the sulfur content of the fuel 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%.

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

c. Permit Shield

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

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

V. ETHYLENE OXIDE STERILIZERS

A. Applicability

Section V applies to ethylene oxide sterilizers.

[40 CFR 63.10382]

B. Ethylene Oxide Requirements

1. Emission Standards and Limitations

The Permittee shall sterilize full loads of items having a common aeration time, except under medically necessary circumstances. Medically necessary means circumstances that a hospital central services staff, a hospital administrator, or a physician concludes, based on generally accepted medical practices, necessitate sterilizing without a full load in order to protect human health.

[40 CFR 63.10390 and 40 CFR 63.10448]

2. Compliance and Notification Requirements

a. To demonstrate initial compliance with the standard in Condition V.B.1 of this Attachment, the Permittee shall submit an Initial Notification of Compliance Status upon startup certifying that the Permittee is sterilizing full loads of items having a common aeration time except under medically necessary circumstances.

[40 CFR 63.10400, 40 CFR 63.10402]

b. The Initial Notification of Compliance Status above shall include the following information:

[40 CFR 63.10430(a)]

- (1) The name and address of the Permittee.
- (2) The address (i.e., physical location) of the affected source.
- (3) An identification of the standard and other applicable requirements in this Section that serve as the basis of the notification and the source's compliance date.
- (4) A brief description of the sterilization facility, including the number of ethylene oxide sterilizers, the size (volume) of each, the number of aeration units, if any, the amount of annual ethylene oxide usage at the facility, the control technique used for each sterilizer, and typical number of sterilization cycles per year.

(5) A statement that the affected source is an area source.

c. The Permittee shall submit the Initial Notification of Compliance Status to the Director. In addition, the Permittee shall submit a copy of the Initial Notification of Compliance Status to EPA's Office of Air Quality Planning and Standards. The notification can be sent via e-mail to *CCG-ONG@EPA.GOV* or via U.S. mail or other mail delivery service to U.S. EPA, Sector Policies and Programs Division, Coatings and Chemicals Group (E143-01), Attn: Hospital Sterilizers Project Leader, Research Triangle Park, NC 27711.

[40 CFR 63.10430(b)]

- d. For each sterilization unit not equipped with an air pollution control device, the Permittee shall demonstrate continuous compliance with the management practice standard in §63.10390 by recording the date and time of each sterilization cycle, whether each sterilization cycle contains a full load of items, and if not, a statement from a hospital central services staff, a hospital administrator, or a physician that it was medically necessary.

[40 CFR 63.10420]

3. Recordkeeping Requirements

The Permittee shall maintain following records in a form suitable and readily available for expeditious review. The records shall be kept for a period of 5 years following the date of each record. The Permittee shall maintain the record onsite for at least 2 years after the date of each record. The Permittee may keep the records offsite for the remaining 3 years.

[40 CFR 63.10432 and 40 CFR 63.10434]

- a. A copy of the Initial Notification of Compliance Status submitted under Condition V.B.2.b of this Attachment.
- b. The records required by Condition V.B.2.d of this Attachment for the sterilization unit.

4. Permit Shield

Compliance with the conditions Section V shall be deemed compliance with 40 CFR 63.10382, 63.10390, 63.10400, 63.10402, 63.10420, 63.10430(a), 63.10430(b), 63.10432, 63.10434 and 63.10448.

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

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

- 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]
- (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 Roads and Storage Piles

Water, or an equivalent control, shall be used to control visible emissions from unpaved 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

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]

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:

- (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]