AIR QUALITY PERMIT
(As required by Title 17.11, Article II, Pima County Code)

ISSUED TO

UNIVERSITY OF ARIZONA
TUCSON, ARIZONA

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

THIS PERMIT ISSUED SUBJECT TO THE GENERAL AND SPECIFIC TERMS AND CONDITIONS IN THIS PERMIT.

PERMIT NUMBER 2371
ISSUED: October 14, 2021

PERMIT CLASS I
EXPIRES: October 13, 2026

Rupesh Patel, Air Program Manager, PDEQ
SIGNATURE TITLE
# TABLE OF CONTENTS

## Summary

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

## Part A: General Conditions

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Permit Expiration and Renewal</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>Compliance with Permit Conditions</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>Permit Revision, Reopening, Revocation and Reissuance, or Termination for Cause</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>Posting of Permit</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>Fee Payment</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>Annual Emissions Inventory Questionnaire</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>Compliance Certification</td>
<td>6</td>
</tr>
<tr>
<td>8</td>
<td>Certification of Truth, Accuracy and Completeness</td>
<td>7</td>
</tr>
<tr>
<td>9</td>
<td>Inspection and Entry</td>
<td>7</td>
</tr>
<tr>
<td>10</td>
<td>Permit Revision Pursuant to Federal Hazardous Air Pollutant Standard</td>
<td>7</td>
</tr>
<tr>
<td>11</td>
<td>Excess Emissions, Permit Deviations, and Emergency Reporting</td>
<td>7</td>
</tr>
<tr>
<td>12</td>
<td>Recordkeeping Requirements</td>
<td>11</td>
</tr>
<tr>
<td>13</td>
<td>Reporting Requirements</td>
<td>12</td>
</tr>
<tr>
<td>14</td>
<td>Duty to Provide Information</td>
<td>12</td>
</tr>
<tr>
<td>15</td>
<td>Permit Amendment or Revision</td>
<td>12</td>
</tr>
<tr>
<td>16</td>
<td>Facility Changes Without Permit Revision</td>
<td>12</td>
</tr>
<tr>
<td>17</td>
<td>Testing Requirements</td>
<td>14</td>
</tr>
<tr>
<td>18</td>
<td>Property Rights</td>
<td>15</td>
</tr>
<tr>
<td>19</td>
<td>Severability Clause</td>
<td>15</td>
</tr>
<tr>
<td>20</td>
<td>Permit Shield</td>
<td>15</td>
</tr>
<tr>
<td>21</td>
<td>Accident Prevention Requirements under the Clean Air Act (CAA § 112(r))</td>
<td>15</td>
</tr>
<tr>
<td>22</td>
<td>Requirement to Obtain Open Burn and NESHAP Activity Permits</td>
<td>15</td>
</tr>
<tr>
<td>23</td>
<td>Stratospheric Ozone Depleting Substances</td>
<td>16</td>
</tr>
</tbody>
</table>

## Part B: Specific Conditions

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 1</td>
<td>Authority, Classification, and Permit Organization</td>
<td>17</td>
</tr>
<tr>
<td>§ 2</td>
<td>Applicability</td>
<td>18</td>
</tr>
<tr>
<td>§ 3</td>
<td>Definitions</td>
<td>19</td>
</tr>
<tr>
<td>§ 4</td>
<td>Category A</td>
<td>NSPS for Small Industrial - Commercial - Institutional Steam Generating Units (40 CFR Part 60, Subpart Dc)</td>
</tr>
<tr>
<td>§ 5</td>
<td>Category B</td>
<td>NSPS for Stationary Gas Turbines (40 CFR Part 60, Subpart GG)</td>
</tr>
<tr>
<td>§ 6</td>
<td>Category C</td>
<td>[Reserved] NSPS for Non-Emergency Engines</td>
</tr>
<tr>
<td>§ 7</td>
<td>Category D</td>
<td>NSPS for Stationary Compression Ignition ICE (CI ICE) (40 CFR Part 60, Subpart IIII)–Emergency (non-fire-pump)</td>
</tr>
<tr>
<td>§ 8</td>
<td>Category E</td>
<td>NSPS for Stationary Spark Ignition ICE (SI ICE) (40 CFR Part 60, Subpart JJJJ)–Emergency &gt; 25 HP, Mfg. after January 1, 2009</td>
</tr>
<tr>
<td>§ 9</td>
<td>Category F</td>
<td>NESHAP for Stationary Reciprocating ICE (RICE) (40 CFR Part 63, Subpart ZZZZ)–Non-Emergency CI ≤ 300 HP</td>
</tr>
<tr>
<td>§ 10</td>
<td>Category G</td>
<td>New and Existing Stationary Source Performance Standards for ICE, CI and SI (PCC 17.16.340)</td>
</tr>
</tbody>
</table>
§ 11 – Category H  New and Existing Stationary Source Performance Standards for Fossil Fuel Fired Industrial and Commercial Equipment (PCC 17.16.165) – Boilers, not subject to NSPS ........................................................................................................43

§ 12 – Category I  New and Existing Stationary Source Performance Standards for the Pathological Incinerator (PCC17.16.170) .........................................................................................................................45

§ 13 – Category J  New and Existing Stationary Source Performance Standards for the Surface Coating and Solvent Degreasing Activities ........................................................................................................48

§ 14 – Category K  New Source Performance Standards (NSPS) for Combustion Turbines (40 CFR Part 60, Subpart KKKK) ....................................................................................................................49

§ 15 – Category L  General Facility-Wide Specific Standards .........................................................................................................................53

Attachment 1: Applicable Regulations ..................................................................................................................................................................55

Attachment 2: Equipment List ...........................................................................................................................................................................58

Attachment 3: Summary of Monitoring and Recordkeeping ...........................................................................................................................65
SUMMARY

This air quality permit is issued to the University of Arizona (herein known as the facility) for the operation of various pollutant-emitting equipment (emissions sources). The emission sources at the facility include:

- natural gas-fired boilers;
- diesel-fired emergency generators;
- natural gas-fired emergency generators;
- diesel-fired non-emergency generators;
- natural gas-fired turbines;
- a single pathological waste incinerator; and
- a single confined paint spray booth

The facility is classified as Class I; Stationary Major Source under Title 40 CFR, Part 70 (Title V of the CAA); The permitted facility sources constitute a major source of NOx and a true minor source of all other criteria pollutants based on 8760 hours of operation per year and the voluntary engine run hour limitations in this permit and from other aggregated sources at the facility which fall under the same SIC Code (8221).

The facility has voluntary operating hour limitations for stationary generators subject to applicable requirements as provided in the Categories in this permit based on the engine engine/service type (Fuel, Model Year, Emergency, Non-emergency). Notwithstanding the voluntary generator limitations, with respect to an actual emergency, there are no limitations on the number of hours an emergency engine in the equipment list can operate during true emergencies. The boilers, gas turbines, and other surface coating operations are not limited in any way on their hours of operation. A summary of the facility’s annual potential to emit (PTE) emissions of regulated are pollutants is presented in the following Table:

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Regulated Pollutant</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PM</td>
</tr>
<tr>
<td>Facility Wide Actual Emissions</td>
<td>18.02</td>
</tr>
</tbody>
</table>

Note: The table above is for informational purposes only and is used to establish the “baseline” emissions for the source. It is not intended for direct enforcement unless otherwise specified in the conditions of this permit, as an enforceable emissions limitation by rule, or as a voluntary accepted condition(s) by the Permittee. The table is a result of information contained in the renewal application submitted in July 2020. Particulate matter emissions are assumed to be predominately of PM$_{2.5}$ size fraction. Detailed emission calculations are provided in the renewal application dated July 10, 2020. The actual emissions include emissions changes due to the upgrade of the combustion turbine.

All terms and conditions of this permit are Federally Enforceable by the Administrator of the United States Environmental Protection Agency (U.S.EPA) under the Clean Air Act, except as otherwise noted.
PART A: GENERAL CONDITIONS

(Unless otherwise noted, references in this permit are to Title 17 of the Pima County Code (PCC), Arizona Revised Statutes (ARS), Arizona Administrative Code (AAC), or the Pima County State Implementation Plan (SIP). Underlined text are hyperlinked references to either definitions, Conditions, or to external web servers that contain the referenced provisions).

1. Permit Expiration and Renewal

   a. This permit is valid for a period of five years from the date of issuance of the permit.

   b. The Permittee shall submit an application for renewal of this permit at least 6 months, but not greater than 18 months prior to the date of permit expiration.

2. Compliance with Permit Conditions

   a. The Permittee shall comply with all Conditions of this permit including all applicable requirements of Arizona air quality statutes A.R.S. Title 49, Chapter 3, and Pima County air quality rules. 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.

   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.

3. Permit Revision, Reopening, Revocation and Reissuance, or Termination for Cause

   a. The permit may be revised, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit Condition.

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

      i. Additional applicable requirements under the Clean Air Act become applicable to a major source with a remaining permit term of three or more years. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and Conditions has been extended pursuant to PCC 17.12.140.B. Any permit reopening required in accordance with this paragraph shall comply with provisions in PCC 17.12.140 for permit renewal and shall reset the five-year permit term.

      ii. Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the Class I permit.

      iii. The Control Officer 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.

      iv. The Control Officer or the Administrator determines that the permit needs to be revised or revoked to assure compliance with the applicable requirements.

   c. Proceedings to reopen and issue a permit, including appeal of any final action relating to a permit reopening, shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such re-openings shall, except for re-openings under Condition 3.b.i above, affect only those parts of the permit for which cause to reopen exist. Such re-openings shall be made as expeditiously as practicable. Permit re-openings for reasons other than those stated in Condition 3.b.i above shall not result in the resetting of the five-year permit term.
4. **Posting of Permit**

The Permittee shall maintain a complete copy of this permit onsite. If it is not feasible to maintain a copy of the permit onsite, the Permittee may request, in writing, to maintain a copy of the permit at an alternate location. Upon written approval by the Control Officer, the Permittee must maintain a complete copy of the permit at the approved alternative location.

5. **Fee Payment**

The Permittee shall pay fees to the Control Officer pursuant to PCC 17.12.220.

6. **Annual Emissions Inventory Questionnaire**

   a. The Permittee shall complete and submit an annual emissions inventory questionnaire. The questionnaire is due by March 31 or ninety days after the Control Officer makes the inventory form available, whichever occurs later, and shall include emission information for the previous calendar year. These requirements apply whether or not a permit has been issued and whether or not a permit application has been filed.

   b. The questionnaire shall be on a form provided by or approved by the Control Officer and shall include the information required by PCC 17.12.160.

7. **Compliance Certification**

The Permittee shall submit to the Control Officer a compliance certification that describes the compliance status of the source with respect to each permit Condition. Certifications shall be submitted on the dates and frequency specified in Condition 152.c.

   a. The compliance certification shall include the following:

      i. Identification of each term or Condition contained in the permit including emission limitations, standards, work practice, or management practices that are the basis of the certification;

      ii. Identification of the method(s) or other means used by the Permittee for determining the compliance status of the source with each term and Condition during the certification period. Such methods and other means shall include, at a minimum, the methods and means required under PCC 17.12.040(A)(3), (monitoring including the related recordkeeping and reporting requirements that verify compliance with the monitoring). If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with § 113(c)(2) of the Clean Air Act, which prohibits knowingly making a false certification or omitting material information;

      iii. 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 in Condition 7.a.ii above. The certification shall identify each deviation and take it into account in the compliance certification;

      iv. For emission units subject to 40 CFR 64, the certification shall also identify as possible exceptions to compliance any period during which compliance is required and in which an excursion or exceedance defined under 40 CFR 64 occurred.

      v. All instances of deviations from permit requirements reported in accordance with Condition 11.b as well as progress reports on all outstanding compliance schedules submitted pursuant to PCC 17.12.080; and

      vi. Other facts the Control Officer may require to determine the compliance status of the facility.
b. A copy of all compliance certifications for Class I permits shall also be submitted to the EPA Administrator. The address for the EPA Administrator is:

EPA Region 9 Enforcement Office, 75 Hawthorne St (Air-5), San Francisco, CA 94105

8. Certification of Truth, Accuracy and Completeness

Any document required to be submitted by this permit, including reports, shall contain a certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required by this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

9. Inspection and Entry

The Permittee shall allow the Control Officer or the authorized representative of the Control Officer upon presentation of proper credentials to:

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

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

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

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

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

10. Permit Revision Pursuant to Federal Hazardous Air Pollutant Standard

If this source becomes subject to a standard promulgated by the Administrator pursuant to § 112(d) of the Clean Air Act (Hazardous Air Pollutants), 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.

11. Excess Emissions, Permit Deviations, and Emergency Reporting

a. Excess Emissions Reporting

   i. Excess emissions shall be reported as follows:

      (a) The Permittee shall report to the Control Officer any emissions in excess of the limits established by this permit. The report shall be in 2 parts as specified below:

          (i) Notification by telephone or facsimile within 24 hours of the time the Permittee first learned of the occurrence of excess emissions that includes all available information in Condition 11.a.i.(b) below. The number to call to report excess emissions is 520-724-7400. The facsimile number to report excess emissions is 520-838-7432. The e-mail address to report excess emissions is Air.Notices@pima.gov.

          (ii) Detailed written notification by submission of an excess emissions report within 72 hours of the notification in Condition 11.a.i.(a)(i) above. For the purpose of this paragraph, 72 hours shall mean 72 work hours (Monday through Friday) to prepare the report. Notifications should be sent to:

      PDEQ Air Program 33 N. Stone Avenue, Suite 700, Tucson, Arizona 85701.
      Air.Notices@pima.gov.
(b) The report shall contain the following information:

(i) The identity of each stack or other emission point where the excess emission occurred;

(ii) The 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;

(iii) The time and duration or expected duration of the excess emissions;

(iv) The identity of the equipment from which the excess emissions emanated;

(v) The nature and cause of the emissions;

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

(vii) The steps that were or are being taken to limit the excess emissions; If the source’s permit contains procedures governing source operation during periods of startup or malfunction and the excess emissions resulted from startup or malfunction, a list of the steps taken to comply with the permit procedures.

ii. 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 the 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 as provided in Condition 11.a.i above.

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 Control Officer by certified mail, facsimile, e-mail (Air.Notices@pima.gov) 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.

c. Emergency Provision

i. A "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 emission attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

ii. An emergency constitutes an affirmative defense to an action brought for noncompliance with the technology-based emission limitations if Condition 11.c.iii below is met.

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

(a) An emergency occurred and that the Permittee can identify the cause or causes of the emergency;
(b) At the time of the emergency, the permitted facility was being properly operated;

(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

(d) The Permittee submitted notice of the emergency to the Control Officer by certified mail, hand delivery, e-mail (Air.Notices@pima.gov) or facsimile transmission 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.

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

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

d. Compliance Schedule  

For any excess emission or permit deviation that cannot be corrected within 72 hours, the Permittee is required to submit a compliance schedule to the Control Officer within 21 days of such occurrence. The compliance schedule shall include a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with the permit terms or Conditions that have been violated.

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

i. Applicability

This rule 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 §§ 111 or 112 of the Clean Air Act,

(b) Promulgated pursuant to Titles IV or VI of the Clean Air Act,

(c) Contained in any Prevention of Significant Deterioration (PSD) or New Source Review (NSR) permit issued by the U.S. E.P.A., or

(d) Included in a permit to meet the requirements of PCC 17.16.590.A.5.

ii. Affirmative Defense for Malfunctions

Emissions in excess of an applicable emission limitation due to malfunction shall constitute a violation. The Permittee of a source with emissions in excess of an applicable emission limitation due to malfunction 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 owner or operator of the source has complied with the reporting requirements in Condition 11.a above and has demonstrated all of the following:

(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 operator;

(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;
Part A: General Conditions

(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 owner or operator satisfactorily demonstrated that the measures were impracticable;

(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;

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

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

(g) During the period of excess emissions there were no exceedances of the relevant ambient air quality standards established in PCC Chapter 17.08 that could be attributed to the emitting source;

(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;

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

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

iii. Affirmative Defense for Startup and Shutdown

(a) Except as provided in Condition 11.e.iii.(b) 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. The Permittee of a source with emissions in excess of an applicable emission limitation due to startup and shutdown 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 owner or operator of the source has complied with the reporting requirements of Condition 11.a above and has demonstrated all of the following:

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

(ii) 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;

(iii) The source’s 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;

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

(v) All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;
(vi) During the period of excess emissions there were no exceedances of the relevant ambient air quality standards established in PCC Chapter 17.08 that could be attributed to the emitting source;

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

(viii) The Permittee’s actions in response to the excess emissions were documented by contemporaneous records.

(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 11.e.ii above.

iv. 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 11.e.ii above.

v. Demonstration of Reasonable and Practicable Measures

For an affirmative defense under Conditions 11.e.ii or iii, the Permittee of the source shall demonstrate, through submission of the data and information required by Conditions 11.e.i through v and Condition 11.a above, that all reasonable and practicable measures within the owner or operator’s control were implemented to prevent the occurrence of the excess emissions.

12. Recordkeeping Requirements

a. The Permittee shall keep records of all required monitoring information including recordkeeping requirements established pursuant to PCC 17.12.080, where applicable, for the following:

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

ii. The date(s) analyses were performed;

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

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

v. The results of such analyses; and

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

b. The Permittee shall retain records of all required monitoring data and support information for a period of at least 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.

c. All required records shall be maintained using a normal business electronic recordkeeping format or printed records including handwritten forms or logbooks utilizing indelible ink.
13. **Reporting Requirements**

The Permittee shall comply with all of the reporting requirements of this permit. These include all of the following:

a. Compliance certifications in accordance with Condition 7 above.

b. Excess emissions; permit deviations, and emergency reports in accordance with Condition 11 above.

c. Performance test results in accordance with Condition 17 below.

d. Other reports required by any of the Conditions in Part B of this permit (See § 15 – Reporting Requirements).

14. **Duty to Provide Information**

a. The Permittee shall furnish to the Control Officer, within a reasonable time, any information that the Control Officer 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 Control Officer copies of records required to be kept by the permit. For information claimed to be confidential, the Permittee, for Class I sources, shall furnish an additional copy of such records directly to the Administrator along with a claim of confidentiality.

b. If the Permittee has failed to submit any relevant facts or if the Permittee 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. In addition, an applicant shall provide additional information as necessary to address any requirements that become applicable to the source after the date it filed a complete application but prior to release of a proposed permit.

15. **Permit Amendment or Revision**

The Permittee shall apply for a permit amendment or revision for changes to the facilities which do not qualify for a facility change without revision under Condition 16, as follows:

a. Administrative Permit Amendment (PCC 17.12.100);

b. Minor Permit Revision (PCC 17.12.110);

c. Significant Permit Revision (PCC 17.12.120).

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

16. **Facility Changes Allowed Without Permit Revisions**

The Permittee may make changes without a permit revision if all of the following apply:

a. The changes are not modifications under any provision of Title I of the Clean Air Act (Air Pollution Prevention and Control) or under modifications as defined in A.R.S. 49-401.01(24);

b. The changes do not exceed the emissions allowable under the permit whether expressed therein as a rate of emissions or in terms of total emissions;

c. The changes do not violate any applicable requirements or trigger any additional applicable requirements;
iv. The changes satisfy all requirements for a minor permit revision under PCC 17.12.110; and

v. The changes do not contravene federally enforceable permit terms and Conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements.

b. The substitution of an item of process or pollution control equipment for an identical or substantially similar item of process or pollution control equipment shall qualify as a change that does not require a permit revision, if the substitution meets all of the requirements of Conditions 16.a, d, and e.

c. Except for sources with authority to operate under general permits, permitted sources may trade increases and decreases in emissions within the permitted facility, as established in the permit under PCC 17.12.040.A.12 if an applicable implementation plan provides for the emissions trades, without applying for a permit revision and based on the seven working days’ notice prescribed in Condition 16.d below. This provision is available if the permit does not provide for the emissions trading as a minor permit revision.

d. For each change under Conditions 16.a through c above, a written notice, by certified mail or hand delivery, shall be received by the Control Officer and the Administrator a minimum of seven (7) working days in advance of the change. Notifications of changes associated with emergency conditions, such as malfunctions necessitating the replacement of equipment, may be provided less than 7 working days in advance of the change 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.

e. Each notification shall include:

   i. When the proposed change will occur;

   ii. A description of the change;

   iii. Any change in emissions of regulated air pollutants;

   iv. The pollutants emitted subject to the emissions trade, if any;

   v. The provisions in the implementation plan that provide for the emissions trade with which the source will comply and any other information as may be required by the provisions in the implementation plan authorizing the trade;

   vi. If the emissions trading provisions of the implementation plan are invoked, then the permit requirements with which the source will comply; and

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

f. The permit shield described in Condition 20 below shall not apply to any change made under this Condition. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the implementation plan authorizing the emissions trade.

g. Except as otherwise provided for in the permit, making a change from one alternative operating scenario to another as provided under PCC 17.12.040.A11 shall not require any prior notice.

h. Notwithstanding any other part of this Condition, the Control Officer may require a permit to be revised for any change that when considered together with any other changes submitted by the same source under these provisions over the term of the permit, do not satisfy the requirements in Condition 16.a.
17. **Testing Requirements** [PCC 17.11.210, SIP Reg 50, SIP Rule 212]

a. **Sources** required to conduct performance testing shall do so within 60 days after the source has achieved the capability to operate at its maximum production rate on a sustained basis but no later than 180 days after initial startup of such sources. The Permittee shall conduct performance testing as specified in Part B of this permit and at such other times as may be required by the Control Officer. The Permittee shall furnish the control officer a written report or the results of the tests.

b. **Operational Conditions**

Performance tests shall be conducted while the unit is operating at full load under representative operational conditions unless other conditions are required by the applicable test method or in this permit. With prior written approval from the Control Officer, testing may be performed at a lower rate. Operations during start-up, shutdown, and malfunction shall not constitute representative operational conditions unless otherwise specified in the applicable requirement.

c. Tests shall be conducted and data reduced in accordance with the test methods and procedures contained in the Arizona Testing Manual, 40 CFR 52: Appendices D and E; 40 CFR 60; Part 60, Appendices A through F; and 40 CFR 61, Appendices B and C unless modified by the Control Officer pursuant to PCC 17.11.210.B.

d. **Test Plan**

At least 14 calendar days prior to performing a test, the Permittee shall submit a test plan to the Control Officer, in accordance with PCC 17.11.210.D and the Arizona Testing Manual. This test plan must include the test duration, test location(s), test methods, and source operation and other parameters that may affect the test results.

e. **Stack Sampling Facilities**

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

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

ii. Safe sampling platform(s);

iii. Safe access to sampling platform(s); and,

iv. Utilities for sampling and testing equipment.

f. **Interpretation of Final Results** (Please see Part B of this permit for Specific Conditions).

Unless otherwise identified in Part B of this permit, 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 means of 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 irrereplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the Permittee’s control, compliance may, upon the Control Officer’s approval, be determined using the arithmetic mean of the results of the other two runs. If the Control Officer or the Control Officer’s designee is present, tests may only be stopped with the Control Officer’s or such designee’s approval. If the Control Officer or the Control Officer’s designee is not present, tests may only be stopped for good cause. Good cause includes: forced shutdown, failure of an irrereplaceable 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.
g. Report of Final Test Results

A written report of the results of all performance tests shall be submitted to the Control Officer within 30 days after the test is performed. The report shall be submitted in accordance with the Arizona Testing Manual and PCC 17.11.210.A. If additional time is needed to submit the results, the Permittee shall send a written request for an extension describing the circumstances and specifying the time needed to submit the report for approval by the Control Officer. [AZ Testing Manual Page 8 (4 Weeks ~ 30 days)]


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


The provisions of this permit are severable. In the event of a challenge to any portion of this permit that results in any provision of this permit being held invalid, the remainder of this permit shall not be affected thereby.

20. Permit Shield [PCC 17.11.080]

a. Compliance with the Conditions of this permit shall be deemed as such in accordance with the applicable requirements identified in the permit, provided that such applicable requirements are included and expressly identified in the permit. The Control Officer may include a permit determination that other requirements specifically identified are not applicable. The permit shield shall not apply to any change made in accordance with Conditions 15.b and 16 above.

b. In addition to the provisions of Condition 3 above, the permit may be reopened by the Control Officer and the permit shield revised when it is determined that standards or conditions in the permit are based on incorrect information provided by the applicant.

21. Accident Prevention Requirements under the Clean Air Act (CAA § 112(r))

Should this stationary source, as defined in 40 CFR Part 68.3, become subject to the accidental release prevention regulations in Part 68, then the Permittee shall submit a risk management plan (RMP) by the date specified in § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 CFR Part 70 and Part B of this permit.

22. Requirement to Obtain Open Burn and NESHAP Activity Permits [PCC Chapter 17.14] [ARS §49-501]

a. The Permittee shall not allow or commence demolition or renovation of any NESHAP facility, as defined in 40 CFR Part 61, Subpart M, National Emission Standards for Hazardous Air Pollutants — Asbestos, without first obtaining an activity permit from the Control Officer in accordance with PCC 17.14.060. Should this stationary source, pursuant to 40 CFR Part 61, Subpart M, become subject to asbestos regulations when conducting any renovation or demolition at this premises, then the Permittee or operator shall submit proper notification as described in 40 CFR Part 61, Subpart M and shall comply with all other applicable requirements of Subpart M. The Permittee shall keep a record of all relevant paperwork on file. [PCC 17.14.060 & 40 CFR Part 61, Subpart M, PCC 17.16.530.A.8]

b. The Permittee shall not ignite, cause to be ignited, permit to be ignited, allow or maintain any open outdoor fire without first obtaining an activity permit from the Control Officer or delegated authority unless exempted under PCC 17.14.080.C. [PCC 17.14.080]

c. This permit authorizes the Permittee to conduct fugitive dust activities without obtaining a fugitive dust activity permit in accordance with PCC 17.14.040.F.1
23. **Stratospheric Ozone Depleting Substances** [40 CFR 82 and PCC 17.16.710]

The Permittee shall not use, sell, or offer for sale any fluid as a substitute material for use in any motor vehicle, residential, commercial, or industrial air conditioning system, refrigerator or freezer unit, or other cooling or heating device designed to use a chlorofluorocarbon (CFC) or hydrochlorofluorocarbon (HCFC) compound as a working fluid, unless such fluid has been approved for sale and such use by the Administrator. The Permittee shall keep a record of all paperwork relevant to the applicable requirements of 40 CFR 82, Subpart F onsite.

24-25. [Reserved]
PART B: SPECIFIC CONDITIONS

(Unless otherwise noted, references in this permit are to Title 17 of the Pima County Code (PCC), Arizona Revised Statutes (ARS), Arizona Administrative Code (AAC), or the Pima County State Implementation Plan (SIP). Underlined text are hyperlinked references to either definitions, Conditions, or to external web servers that contain the referenced provisions or regulations).

§ 1 – AUTHORITY, CLASSIFICATION, AND PERMIT ORGANIZATION

26. Statutory Authority

Emissions from the facility, specifically the emissions from the equipment and operations described in the permit application, which fall under SIC Code (8221), NAICS Code (611310) are subject to enforceable limitations in the Specific Conditions in this Part B. This permit is issued pursuant to ARS § 49-480 and authorizes the construction and/or operation of the equipment and operations listed in the equipment list in Attachment 2 of this permit. This authorization is based on the regulations in effect on the date of issuance of this permit, and a finding that the allowable emissions from the facility, specifically the emissions from the equipment and operations more fully described in the permit application constitute a “major source” within the meaning of PCC 17.04.340.A.128. Notwithstanding the above findings, this permit shall not relieve the Permittee nor its subcontractors from compliance with all local or county codes, state statutes and federal laws or from obtaining permits for other operations or activities when required.

27. Permit Classification

Class I; Major Source under Part 70 (Title V) of the CAA; Stationary: The permitted facility sources constitute a major source of NOx and a true minor source of all other criteria pollutants based on 8760 hours of operation per year and the limitations in this permit and from other sources at the facility as provided in Condition 30.

28. Permit Sections

The Specific Conditions in this Part B have been organized into the following permit Sections (§§):

§ 1 – Authority, Classification, and Permit Organization (This Section)
§ 2 – Applicability
§ 3 – Definitions
§ 4 – Category A – NSPS, Subpart Dc
§ 5 – Category B – NSPS, Subpart GG
§ 6 – Category C – [RESERVED] – Non-emergency (CI ICE)
§ 7 – Category D – NSPS, Subpart III, Emergency (non-fire-pump) (CI ICE)
§ 8 – Category E – NSPS, Subpart JJJJ, Emergency SI > 25 HP
§ 9 – Category F – NESHAP, Subpart ZZZZ, RICE Non-Emergency < 300 HP
§ 10 – Category G – New and Existing (Local) Standards for ICE
§ 11 – Category H – New and Existing (Local) Standards for Boilers not subject to NSPS
§ 12 – Category I – New and Existing (Local) Standards for Pathological Incinerator
§ 13 – Category J – New and Existing (Local) Standards for Surface Coating and Solvent Degreasing
§ 14 – Category K – NSPS, Subpart KKKK, Combustion Turbines
§ 15 – Category L – General Facility Wide Specific Standards

Attachment 1: Applicable Regulations
Attachment 2: Equipment List
Attachment 3: Summary of Monitoring, Recordkeeping, and Reporting Requirements

29. Permit Organization

The Specific Conditions in this Part B have been organized under permit Sections (§§) corresponding to source Categories (A-L), which are affected facilities, emission sources, and operations that apply to the facility as provided in Condition 30 and the equipment and operations listed in Attachment 2.
30. This facility is an existing major source for NO\textsubscript{X} and a true minor source for all other pollutants. This statement is only true when the facility is operating and maintaining the air pollution control equipment as part of its operational design. The affected emission sources are grouped into the following emission limitation categories:

A. New Source Performance Standards (NSPS) for Small Industrial - Commercial - Institutional Steam Generating Units. (40 CFR Part 60, Subpart Dc)

B. New Source Performance Standards (NSPS) for Stationary Gas Turbines. (40 CFR Part 60, Subpart GG)

C. [Reserved] [New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines (CI ICE) (40 CFR Part 60, Subpart IIII), (Non-Emergency CI ICE)]

D. New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines (CI ICE) (40 CFR Part 60, Subpart IIII) (Emergency (non-fire-pump) CI ICE)


F. National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE) For Non-Emergency CI \leq 300 HP

G. New and Existing Stationary Source Performance Standards for Internal Combustion Engines, Compression and Spark Ignition.  
   (Locally Enforceable Conditions, unless otherwise stated)

H. New and Existing Stationary Source Performance Standards for Fossil-Fuel Fired Industrial and Commercial Equipment (Boilers, not subject to NSPS).  
   (Locally Enforceable Conditions, unless otherwise stated)

I. New and Existing Stationary Source Performance Standards for the Pathological Incinerator.  
   (Locally Enforceable Conditions, unless otherwise stated)

J. New and Existing Stationary Source Performance Standards for the Surface Coating and Solvent Degreasing Activities.  
   (Locally Enforceable Conditions, unless otherwise stated)

K. New Source Performance Standards (NSPS) for Combustion Turbines (40 CFR 60, Subpart KKKK)

L. General Facility-Wide Specific Standards

31-39. [Reserved]
§ 3 – Definitions

The following definitions shall have the meaning as defined in the Clean Act or Title 17 of the Pima County Code, NSPS Subparts Dc, GG, III, JJJ and/or NESHAP Subpart ZZZZ unless otherwise provided in this permit. Terms below marked with an asterisk (*) are terms defined in referenced NSPS/NESHAP regulations. If a term is not otherwise defined, it shall be interpreted in accordance with normal business use.

**Administrator** means the Administrator of the U.S. Environmental Protection Agency or his/her authorized representative or the Administrator of a state air pollution control agency. Contact Information: Phone (415) 947-8715; Website: www.epa.gov/region9

**Air Pollution or Air Pollutant** means the presence in the outdoor atmosphere of one or more air contaminants or combination thereof, in sufficient quantities, which either alone or in connection with other substances, by reason of their concentration and duration are or tend to be injurious to human, plant, or animal life; or causes damage to property; or unreasonably interferes with the enjoyment of life or property of a substantial part of a community, or obscures visibility; or which in any way degrades the quality of the ambient air below the standards established by the board of supervisors.

**Cause** means with respect to the Control Officer's ability to deny an application or to revise, reopen, revoke, reissue, or terminate a permit under any of the following circumstances:

a. Additional applicable requirements under the CAA become applicable to a source with a remaining term of three or more years, including excess emission requirements applicable to an affected source under the acid rain program.

b. The Control Officer or Administrator determines that the permit needs to be revised or revoked to assure compliance with the applicable requirements.

c. The Control Officer determines that an applicant has failed to disclose a material fact required by the permit application form or the regulation applicable to the permit, of which the applicant had or should have had knowledge at the time the application was submitted.

d. The terms and Conditions of the permit have been or are being violated.

e. The Control Officer has reasonable cause to believe it was obtained by fraud or misrepresentation.

**Concealment** with regard to an emission source shall include:

a. The use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gasses discharged to the atmosphere.

b. Operating in a piecemeal fashion to avoid compliance with a standard that would otherwise apply to the source on the basis of its size; and

c. Operating in a manner, under conditions, or during such times that emissions cannot be observed.

**Control Officer** means the director of Pima County Department of Environmental Quality who shall serve as the executive head of the Pima County air quality control district, or one of his authorized agents. Contact Information: Phone: (520) 724-7400; Pima County DEQ - air.

**Deviation** means any instance in which an affected source, subject to this permit, or an owner or operator of such a source, fails to meet any requirement or obligation established by this permit, including but not limited to any emission limitation or work practice standard; or fails to meet any emission limitation, (including any operating limit), or work practice standard in 40 CFR Part 63.

**Director** means the director of the Arizona Department of Environmental Quality. Contact Information: Phone: (602) 771-2285; ADEQ - Air Quality Division

**Federally enforceable** means:

a. The requirements of the New Source Performance Standards and National Emission Standards for Hazardous Air Pollutants contained in Articles VI and Article VII of Chapter 17.16.

b. The requirements of such other state or county rules or regulations approved by the administrator, including the requirements of approved state and county operating and new source review permit programs that have been approved by the administrator.

c. The requirements of any applicable implementation plan.

d. Emissions limitations, controls, and other requirements, and any associated monitoring, recordkeeping and reporting requirements, which are entered into voluntarily by a source pursuant to PCC 17.11.190.
§ 3 – Definitions

**Hazardous Air Pollutant (HAP)** means a pollutant listed in § 112(b) of the CAA.

**HAP containing material** means a material that contains any volatile or nonvolatile HAP that is an Occupational Safety and Health Administration (OSHA)-defined carcinogen as specified in 29 CFR 1910.1200(d) at a concentration greater than 0.1 percent by mass, or greater than 1.0 percent by mass for any other HAP compound. For the purpose of determining whether materials used contain the HAP compounds, the Permittee may rely on formulation data provided by the manufacturer or supplier, such as the safety data sheet (SDS), as long as it represents HAP compound in the material that is present at 0.1 percent by mass or more for OSHA-defined carcinogens as specified in 29 CFR 1910.1200(d) and at 1.0 percent by mass or more for other HAP compounds.

**Major source threshold** means the lowest applicable emissions rate for a pollutant that would cause the source to be a major source as defined in PCC 17.04.340.A.128.

**Malfunction** means any sudden and unavoidable failure of APC equipment, process equipment or a process to operate in a normal manner, but does not include failures that are caused by poor maintenance, careless operations or any other upset condition or equipment breakdown that could have been prevented by the exercise of reasonable care.

a. The Permittee has an affirmative defense for excess emissions due to malfunction, startup, and shutdown as provided in Condition 11.e of this permit.

b. For NESHAP sources listed in this permit: [40 CFR 63.6(e)]
   During a period of startup, shutdown, or malfunction, the general duty to minimize emissions requires that the owner or operator reduce emissions from the affected source to the greatest extent which is consistent with safety and good air pollution control practices. The general duty to minimize emissions during a period of startup, shutdown, or malfunction does not require the owner or operator to achieve emission levels that would be required by the applicable standard at other times if this is not consistent with safety and good air pollution control practices, nor does it require the owner or operator to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved.

**Material permit condition** means a condition that satisfies all of the following:

a. The condition is in a permit or permit revision issued by the Control Officer.

b. The condition is identified within the permit as a material permit condition.

c. The condition is one of the following:
   i. An enforceable emission standard imposed to avoid classification as a major modification or major source or to avoid triggering any other applicable requirement.
   ii. A requirement to install, operate or maintain a maximum achievable control technology or hazardous air pollutant reasonably available control technology required pursuant to the requirements of A.R.S. § 49-426.06.
   iii. A requirement for the installation or certification of a monitoring device.
   iv. A requirement for the installation of APC equipment.
   v. A requirement for the operation of APC equipment.
   vi. Any opacity standard required by Section 111 (Standards of Performance for New Stationary Sources) or Title I, Part C or D (Air Pollution Prevention and Control) of the Act.

d. Violation of the condition is not covered by subsections A through F, or H through J of A.R.S. § 49-464 or subsections A through F, or H through J of A.R.S. § 49-514.

**Mobile equipment** means any device that may be drawn and/or driven on a roadway including, but not limited to, heavy-duty trucks, truck trailers, fleet delivery trucks, buses, mobile cranes, bulldozers, street cleaners, agriculture equipment, motor homes, and other recreational vehicles (including camping trailers and fifth wheels).

**Modification or modify** means a physical change in or change in the method of operation of a source that increases the emissions of any regulated air pollutant emitted by such source by more than any relevant de minimis amount or that results in the emission of any regulated air pollutant not previously emitted by more than such de minimis amount.

**Monthly** means once per calendar month at regular intervals of no less than 28 days and no more than 35 days.

**Nonpoint Source** means, for the purpose of this permit, any source of air contaminants which due to a lack of an identifiable emission point or plume cannot be considered a point source, including fugitive dust producing activities. In applying this criteria, such items as air curtain destructors, heater planers, and conveyor transfer points shall be considered to have identifiable plumes.
§ 3 – Definitions

**Operation** means any physical or chemical action resulting in the change in location, form, physical properties or chemical character of a material.

**Petroleum liquids** means petroleum, condensate, and any finished or intermediate products manufactured in a petroleum refinery but does not mean Number 2 through Number 6 fuel oils as specified in ASTM D-396-90a (Specification for Fuel Oils), gas turbine fuel oils Numbers 2-GT through 4-GT as specified in ASTM D-2880-90a (Specification for Gas Turbine Fuel Oils), or diesel fuel oils Numbers 2-D and 4-D as specified in ASTM D-975-90 (Specification for Diesel Fuel Oils).

**Prompt Reporting** shall mean that the report was submitted to the Control Officer by certified mail, facsimile, e-mail (Air.Permits@pima.gov) 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.

**Portable Source** means any building, structure, facility or installation subject to regulation under ARS § 49-426 that emits or may emit any air pollutant and is capable of being operated at more than one location.

**Source** means any building, structure, facility or installation that may cause or contribute to air pollution or the use of which may eliminate, reduce or control the emission of air pollution. Source also means the Permittee as a facility-wide entity.

**Startup** means the setting into operation of any air pollution control equipment or process equipment for any purpose except routine phasing in of process equipment.

**Shutdown** means the cessation of operation of any air pollution control equipment or process equipment for any purpose, except the phasing out of process equipment.

**VHAP Containing** means a HAP containing material that contains volatile HAP contaminants.

**Volatile Organic Compounds (VOC)** means any compound of carbon, excluding carbon monoxide (CO), carbon dioxide (CO₂), carbonic acid, metallic carbides, or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions. This includes any organic compound other than those in the definition in PCC 17.04.340.A(250), which have been determined to have negligible photochemical reactivity.

**Work practice standard** means any design, equipment, work practice, or operational standard, or combination thereof, that is promulgated pursuant to section 112(h) of the Clean Air Act.
Part B, § 4 – Category A

§4 – CATEGORY A

New Source Performance Standards (NSPS) for
Small Industrial - Commercial - Institutional Steam Generating Units
(40 CFR Part 60, Subpart Dc) – NSPS Boiler Specific Conditions

Unless otherwise stated, the provisions of this Section apply to the NSPS boilers identified in Table 1, Attachment 2 of this permit. 40 CFR 60, Subpart Dc – Small Industrial-Commercial-Institutional Steam Generating Units is incorporated by reference as applicable requirements.

| [Federally Enforceable Conditions] |

Emission Limitations and Standards

40. Opacity Standard

The Permittee shall not cause, allow, or permit the effluent from the boilers to have an average optical density equal to or greater than 20 percent. [SIP Rule 321 & PCC 17.16.040.A]

41. Fuel Limitation

The Permittee shall combust only natural gas fuel in each boiler identified in, Table 1, Attachment 2 of this Permit. [PCC 17.11.120, PCC 17.11.190.B]

| [Locally Enforceable and Material Permit Condition] |

Monitoring & Recordkeeping Requirements

42. A demonstration to show compliance with the emission limitation for opacity in Condition 40 shall not be required since the percent of opacity of visible emissions from the boilers whilst combusting natural gas fuel is inherently low. The Permittee shall operate and maintain the boilers at all times - including periods of startup, shutdown, and malfunction - in a manner consistent with good air pollution control practices and consistent with manufacturer’s guidelines. [40 CFR 60.11(d)]

43. The Permittee shall be considered in compliance with the fuel limitations in Condition 41 by making available for the Control Officer’s inspection, documentation such as invoices or statements from the fuel supplier showing that only natural gas was purchased for use in the equipment; Alternatively, the demonstration may be made by actual inspection of the equipment showing that natural gas is the only fuel supply plumbed to the equipment for firing.

44. The Permittee shall record the total amount of fuel combusted (delivered) to each affected facility (steam generating unit set within Buildings 46 and 205) during each calendar month. [40 CFR 60.48c(g)(2), (3) & PCC 17.12.040.A.2]

45. The Permittee shall retain all records specifying the amount of natural gas delivered to each affected boiler set on a monthly basis for period of 5 years in accordance with Condition 12.b. (Maintenance of the records for a period of two years following the date of such records is Federally Enforceable).

| Reporting Requirements |

46. The Permittee shall report to the Control Officer any emissions in excess of the limits established by this permit in accordance with Condition 11 of this permit. [PCC 17.12.170]
47. In accordance with Condition 13.d, the Permittee shall report to the Control Officer the annual amount of natural gas combusted in each affected boiler set. The annual amount of natural gas combusted shall be determined from the sum of 12 consecutive calendar months of fuel combusted as recorded in Condition 44. [EPA DETERMINATION DETAIL CONTROL NUMBER 0300118]

**Testing Requirements** [PCC 17.20.010] [Locally Enforceable Conditions]

48. For purposes of demonstrating compliance, test methods shall be used, provided that for the purpose of establishing whether or not the facility has violated or is in violation of any provision of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance with applicable federal requirements if the appropriate performance or compliance procedures or methods had been performed. [PCC 17.12.050 & PCC 17.20.010]

a. Opacity

When required, the Permittee shall perform EPA Method 9 visible emissions observations on the facility operations to demonstrate compliance with the opacity standard in Condition 40. [PCC 17.12.040.B & PCC 17.20.010]

b. Fuel Limitation

When required, the Permittee need only demonstrate that pipeline quality natural gas was fired exclusively since the sulfur content of pipeline quality natural gas is regulated by the Federal Energy Regulatory Commission. [PCC 17.12.040.A.3 & PCC 17.20.010]

c. Alternative Test Method

The Permittee may submit an alternate and equivalent test method(s) that is listed in 40 CFR Part 60, Appendix A, to the Control Officer in a test plan, for approval by the Control Officer. [PCC 17.12.045.D]

49. [Reserved]
New Source Performance Standards (NSPS) for Stationary Gas Turbines

(40 CFR Part 60, Subpart GG) NSPS Turbine Specific Conditions

Unless otherwise stated, the provisions of this Section apply to the NSPS Stationary Gas Turbines identified in Table 2, Attachment 2 of this permit. 40 CFR 60, Subpart GG – Stationary Gas Turbines is incorporated by reference as applicable requirements.

Emission Limitations and Standards

50. Nitrogen Oxide (NOX) Limitation

In accordance with the requirements in 40 CFR §60.332(a)(2), the Permittee shall not cause to be discharged into the atmosphere from the stationary gas turbine(s) any gases which contain nitrogen oxides in excess of the following (STD) concentration(s):

<table>
<thead>
<tr>
<th>Affected Turbine</th>
<th>STD (^1)</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 460306 - Solar Taurus 70 GT</td>
<td>212 PPM(_v)</td>
<td>Per Manufacturer Data; Y= 10.18; F=0</td>
</tr>
</tbody>
</table>

\(^1\) STD = 0.0150 \(\frac{(14.4)}{Y} + F\) where:

- STD = Allowable ISO corrected NO\(_x\) emission concentration (percent by volume at 15 percent oxygen and on a dry basis),
- Y = Manufacturer's rated heat rate at manufacturer's rated peak load (kilojoules per watt hour);
- F = The NO\(_x\) emission allowance for fuel-bound nitrogen. Note: F=0

51. Sulfur Dioxide (SOX) Limitation

Permittee shall not burn fuel in either gas turbine that contains total sulfur in excess of 0.8 percent by weight (8000 PPM\(_w\)).

52. Fuel Limitation

The Permittee shall combust only natural gas in the stationary gas turbine engines identified in, Table 2, Attachment 2 of this Permit.

53. Operational Restrictions

i. At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator or the Control Officer which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

ii. The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.
54. Nitrogen Oxide (NOx), Sulfur Dioxide (SOx) and Fuel Limitation

The Permittee shall be considered in compliance with the NOx, SOx and fuel limitation requirements in Conditions 50, 51, and 52 respectively, by demonstrating that only commercially available pipeline quality natural gas was fired in the turbines identified in, Table 2, Attachment 2 of this permit. Such a demonstration may be made by making available for the Control Officer’s inspection, documentation, such as invoices or statements from the fuel supplier, showing that only natural gas was purchased for use in the equipment. Alternatively, the demonstration may be made by actual inspection of the equipment showing that natural gas is the only fuel supply plumbed to the equipment for firing. [40 CFR 60.334(h)(3) & PCC 17.12.040.A.2]

55. Operational Records

The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment. [40 CFR 60.7(b)]

56. Retention of Monitoring Records

The Permittee shall maintain a file of all required monitoring data and support information for a period of five years from the date of the monitoring sample, measurement report, or application. Support information includes all calibration and maintenance records, performance testing measurements and copies of all reports required by the permit. [40 CFR 60.7(f) & PCC 17.12.040.A.4.b]

Reporting Requirements

57. For purposes of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any standard in this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed. [40 CFR 60.11(g)]

Testing Requirements

58. For purposes of demonstrating compliance, test methods shall be used, provided that for the purpose of establishing whether or not the facility has violated or is in violation of any provision of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance with applicable federal requirements if the appropriate performance or compliance procedures or methods had been performed.

a. Performance Testing for NOx

i. The Control Officer may require the Permittee to periodically test the natural gas turbines for NOx if the Control Officer determines in writing that all of the following conditions are met:

(a) The actual or potential emissions of air pollutants may adversely affect public health or the environment, and,

(b) An adequate scientific basis for the test method exists, and,

(c) The testing is technically feasible for the subject contaminant and source, and,

(d) The test method is reasonably accurate, and,

(e) The cost of the test is reasonable in light of the use to be made of the data.
b. Before requiring such periodic testing, the Control Officer shall consider the relative cost and accuracy of any alternatives which may be reasonable under the circumstances such as emission factors, modeling, mass balance analysis, or emissions projections.

59. [Reserved]
§6 – CATEGORY C

[Reserved]

This Section has been reserved for non-emergency stationary Compression Ignition Internal Combustion Engines (CI ICE) that commence construction after July 11, 2005 where the stationary CI ICE are manufactured after April 1, 2006 or the stationary CI ICE is modified or reconstructed after July 11, 2005. 40 CFR 60, Subpart IIII – Stationary Compression Ignition Internal Combustion Engines (ICE) is incorporated by reference as applicable requirements.

[Federally Enforceable Conditions]

At the time of this permit issuance; The Permittee does not operate any emissions units that are subject to the above rule. Engines subject to this Category are intended to be listed in Table 3, Attachment 2.

Reporting Requirements

60. The University of Arizona shall furnish PDEQ a written notification 60 days or as soon as practicable before construction or reconstruction is commenced for a unit greater than 2,237 KW (3000 HP) and obtain a final decision from the Control Officer on the submittal of a significant permit revision prior to commissioning such a unit for operation. The notification must include the following information:

a. Name and address of the owner or operator;

b. The address of the affected source;

c. Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;

d. Emission control equipment; and

e. Fuel used.

61-69. [Reserved]
New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines (CI ICE) (40 CFR Part 60, Subpart IIII) Emergency (non-fire-pump) (CI ICE) Specific Conditions

Unless otherwise stated, the subject CI ICE unit(s) is/are identified in, Table 4, Attachment 2 of this permit.

Applicability

70. 40 CFR 60, Subpart IIII – Stationary Compression Ignition Internal Combustion Engines (CI ICE)

a. The General Provisions of 40 CFR 60.1 through 19 apply to subject sources as indicated in Table 8 of 40 CFR 60, Subpart IIII except that the Permittee is not required to submit an initial notification.

b. The provisions of this Section apply to emergency CI ICE that commence construction after July 11, 2005 where the stationary CI ICE are manufactured after April 1, 2006 or the stationary CI ICE is modified or reconstructed after July 11, 2005.

c. The provisions of this Section apply to emergency CI ICE (non-fire pump) with a maximum engine power ≤ 2,237 kW (3,000 hp) and displacement less than 10 liters/cylinder.

Emission Limitations and Standards

71. Emission Limits

a. The subject CI ICE must be certified by the manufacturer to meet the applicable emission standards identified in Table A of this Section for the useful life of the engine. The “useful life” of the engine is identified in Table B of this Section. Constant speed engines are exempt from opacity requirements identified in the NSPS Subpart IIII.

b. Except as otherwise specified in this Section, the opacity of all plumes and effluents from all point and non-point sources shall not exceed 20% as determined by EPA Reference Method 9, Appendix A in 40 CFR 60.

[c] 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 ten consecutive seconds that exceeds 40 percent opacity. Visible emissions when starting cold equipment shall be exempt from this requirement for the first ten minutes.

[d] The Permittee shall not cause or permit the effluent from any subject diesel fired CI ICE to have an average optical density equal to or greater than 60 percent during the first 10 minutes when a cold diesel engine is started or when a diesel engine is accelerated under load as measured in accordance with EPA Reference Method 9, Appendix A in 40 CFR 60.

[e] The Permittee must operate and maintain subject engines according to the manufacturer's written instructions, or procedures developed by the Permittee that are approved by the engine manufacturer, over the entire life of the engine. The Permittee may only change those settings that are permitted by the manufacturer.
### Table A

<table>
<thead>
<tr>
<th>Maximum engine power</th>
<th>Model years</th>
<th>PM</th>
<th>HC</th>
<th>NOx +NMHC</th>
<th>NOx</th>
<th>CO</th>
</tr>
</thead>
<tbody>
<tr>
<td>kW &lt; 8 (&lt;11 hp)</td>
<td>Pre-2007</td>
<td>1.0</td>
<td>10.5</td>
<td>8.0</td>
<td>8.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2007</td>
<td>1.0</td>
<td>10.5</td>
<td>8.0</td>
<td>8.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2008 and later</td>
<td>0.40</td>
<td>7.5</td>
<td>8.0</td>
<td>8.0</td>
<td></td>
</tr>
<tr>
<td>8 ≤ kW &lt; 19 (11 ≤ hp &lt; 25)</td>
<td>Pre-2007</td>
<td>0.80</td>
<td>9.5</td>
<td>6.6</td>
<td>6.6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2007</td>
<td>0.80</td>
<td>7.5</td>
<td>6.6</td>
<td>6.6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2008 and later</td>
<td>0.40</td>
<td>7.5</td>
<td>6.6</td>
<td>6.6</td>
<td></td>
</tr>
<tr>
<td>19≤kW&lt;37 (25 ≤ hp &lt; 50)</td>
<td>Pre-2007</td>
<td>0.80</td>
<td>9.5</td>
<td>5.5</td>
<td>5.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2007</td>
<td>0.60</td>
<td>7.5</td>
<td>5.5</td>
<td>5.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2008 and later</td>
<td>0.30</td>
<td>7.5</td>
<td>5.5</td>
<td>5.5</td>
<td></td>
</tr>
<tr>
<td>37≤kW&lt;75 (50 ≤ hp &lt; 100)</td>
<td>Pre-2007</td>
<td>0.80</td>
<td>9.5</td>
<td>7.5</td>
<td>5.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2007</td>
<td>0.40</td>
<td>7.5</td>
<td>5.0</td>
<td>5.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2008 and later</td>
<td>0.40</td>
<td>4.7</td>
<td>5.0</td>
<td>5.0</td>
<td></td>
</tr>
<tr>
<td>75≤kW&lt;130 (100 ≤ hp &lt; 175)</td>
<td>Pre-2007</td>
<td>0.30</td>
<td>4.0</td>
<td>5.0</td>
<td>5.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2007 and later</td>
<td>0.30</td>
<td>4.0</td>
<td>5.0</td>
<td>5.0</td>
<td></td>
</tr>
<tr>
<td>130 ≤ kW ≤ 560 (175 ≤ hp ≤ 750)</td>
<td>Pre-2007</td>
<td>0.54</td>
<td>1.3</td>
<td>9.2</td>
<td>11.4</td>
<td>8.5</td>
</tr>
<tr>
<td></td>
<td>2007 and later</td>
<td>0.20</td>
<td>4.0</td>
<td>3.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>kW&gt;560 (&gt;750 hp)</td>
<td>Pre-2007</td>
<td>0.54</td>
<td>1.3</td>
<td>9.2</td>
<td>11.4</td>
<td>8.5</td>
</tr>
<tr>
<td></td>
<td>2007 and later</td>
<td>0.20</td>
<td>6.4</td>
<td>3.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Table B

<table>
<thead>
<tr>
<th>If the engine is certified as…</th>
<th>And its maximum power is…</th>
<th>And its rated speed is…</th>
<th>Then its useful life is…</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i) Variable speed or constant speed</td>
<td>kW &lt; 19 (HP &lt; 25)</td>
<td>Any speed</td>
<td>3,000 hours or five years, whichever comes first.</td>
</tr>
<tr>
<td>(ii) Constant speed</td>
<td>19≤kW&lt;37 (25 ≤ HP &lt; 50)</td>
<td>3,000 rpm or higher</td>
<td>3,000 hours or five years, whichever comes first.</td>
</tr>
<tr>
<td>(iii) Constant speed</td>
<td>19≤kW&lt;37 (25 ≤ HP &lt; 50)</td>
<td>Less than 3,000 rpm</td>
<td>5,000 hours or seven years, whichever comes first.</td>
</tr>
<tr>
<td>(iv) Variable</td>
<td>19≤kW&lt;37 (25 ≤ HP &lt; 50)</td>
<td>Any speed</td>
<td>5,000 hours or seven years, whichever comes first.</td>
</tr>
<tr>
<td>(v) Variable speed or constant speed</td>
<td>kW ≥ 37 (HP ≥ 50)</td>
<td>Any speed</td>
<td>8,000 hours or ten years, whichever comes first.</td>
</tr>
</tbody>
</table>
72. Fuel Requirements [40 CFR 60.4207]

a. Beginning October 1, 2010, the Permittee shall use diesel fuel that meets the following requirements on a per gallon basis: [40 CFR 60.4207(b) & 40 CFR 80.510(b)]

   i. Sulfur content: 15 ppm maximum;

   ii. Cetane index or aromatic content, as follows:

      (a) A minimum cetane index of 40; or

      (b) A maximum aromatic content of 35 volume percent.

b. With respect to pre-2011 model year stationary CI ICE subject to this Section, the Permittee may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of Condition 72.a beyond the dates required for the purpose of using up existing fuel inventories. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the Permittee shall be required to submit a new petition. [40 CFR 60.4207(c)]

73. Installation Restrictions [40 CFR 60.4208]

a. The Permittee may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines in 40 CFR 60, Subpart III, as applicable. [40 CFR 60.4208(a)]

b. After December 31, 2009, the Permittee may not install stationary CI ICE with a maximum engine power of less than 25 HP (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines in 40 CFR 60, Subpart III, as applicable. [40 CFR 60.4208(b)]

c. The requirements of Conditions 73.a and 73.b do not apply to stationary CI ICE that have been modified or reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location. This provision does not extend to imported units which shall be treated as new sources. [40 CFR 60.4208(g) & (h)]

74. Operational Hours (Emergency Designation) [40 CFR 60.4211(e)]

Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. The Permittee may petition the Control Officer for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Any operation other than emergency operation, and maintenance and testing as permitted in this Section, is prohibited.

75. Compliance [40 CFR 60.4211]

a. The Permittee must install a non-resettable hour meter on each subject stationary CI ICE prior to startup of each engine. [40 CFR 60.4209(a)]

b. The Permittee must operate and maintain the subject stationary CI ICE according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer. In addition, the Permittee may only change those settings that are permitted by the manufacturer. [40 CFR 60.4211(a)]
Monitoring & Recordkeeping Requirements

76. All records required by, or generated to verify compliance with this Section shall be maintained for five years and shall include the following:

   a. Hourly Operational Records
      i. In order to demonstrate compliance with the operational hour limitation in Condition 74, the Permittee shall record the monthly maintenance checks and readiness testing operating hours for each emergency engine. In addition, the Permittee shall recalculate a rolling twelve (12) month total within 30 calendar days of the end of the month.

   ii. Starting with the model years in Table C below, if the emergency engine does not meet the standards identified in Table A of this Section in the applicable model year, the Permittee must 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 C
   
   Recordkeeping Requirements for New Stationary Emergency Engines
   (40 CFR 60, Subpart IIII, Table 5)

<table>
<thead>
<tr>
<th>Engine Power</th>
<th>Starting model year</th>
</tr>
</thead>
<tbody>
<tr>
<td>19 ≤ kW &lt; 56 (25 ≤ HP &lt; 75)</td>
<td>2013</td>
</tr>
<tr>
<td>56 ≤ kW &lt; 130 (75 ≤ HP &lt; 175)</td>
<td>2012</td>
</tr>
<tr>
<td>kW ≥ 130 (HP ≥ 175)</td>
<td>2011</td>
</tr>
</tbody>
</table>

   b. Manufacturer Certifications

   The Permittee shall maintain records of manufacturer certifications that identify the applicable emission limits for the appropriate model year and maximum engine power and certify the subject engines to those standards.

   c. Diesel Fuel Recordkeeping

   The Permittee shall maintain records that verify compliance with the diesel fuel requirements in Condition 72.

   d. Opacity

   The Permittee shall keep all records generated to show compliance with the opacity level measurement requirements of Condition 71, if measurements are required. The Permittee shall also retain records of visible emissions checks/observations as required below.

   i. In order to demonstrate compliance with the operational limitation for opacity in Condition 71, the Permittee shall conduct a visible emissions check on the exhaust stack of all subject CI ICE firing at least quarterly while the subject CI ICE is/are operating. For the purposes of this permit, a visible emissions check shall be conducted by an observer certified in measuring opacity in accordance with EPA Reference Method 9, verifying that abnormal emissions are not present at the subject CI ICE stack. The Permittee shall record the date and time of the check, the name of the person conducting the check, the results of the check, and the type of corrective action taken (if required).

Reporting Requirements

77. The Permittee shall report to the Control Officer any emissions in excess of the limits established by this permit in accordance with Condition 11.
Testing Requirements

78. Should the Permittee conduct performance testing to demonstrate compliance with the applicable standards of this Section, the Permittee shall do so in accordance with 40 CFR 60.4212.

79. [Reserved]
New Source Performance Standards (NSPS) for
Stationary Spark Ignition Internal Combustion Engines (SI ICE)

Unless otherwise stated, the subject SI ICE unit(s) is/are identified in, Table 5, Attachment 2 of this permit.

Applicability

80. 40 CFR 60, NSPS Subpart JJJJ – Stationary Spark Ignition Internal Combustion Engines (SI ICE)

a. The provisions of this Section apply to emergency SI ICE that commence construction after June 12, 2006

b. The General Provisions of 40 CFR 60.1 through 60.19 apply to subject sources as indicated in Table 3 of

Subpart JJJJ except that the Permittee is not required to submit an initial notification.

Emission Limitations and Standards

81. Emission Limits

The subject emergency SI ICE must be certified by the manufacturer to meet the following emission standards:

a. NOX  2.0g/hp-hr or 160 PPMvd at 15% O2

b. CO  4.0g/hp-hr or PPMvd at 15% O2

c. VOC\(^1\)  1.0g/hp-hr or PPMvd at 15% O2

82. Installation Restrictions

a. After January 1, 2011, the Permittee may not install emergency stationary SI ICE with a maximum engine

b. The requirements of Condition 82.a do not apply to stationary SI ICE that have been modified or

reconstructed, and do not apply to engines that were removed from one existing location and reinstalled

at a new location.

83. Compliance

a. The Permittee shall install a non-resettable hour meter on each subject emergency SI ICE.

b. The Permittee must operate and maintain subject engines according to the manufacturer's written

instructions over the entire life of the engine. The Permittee may adjust the engine settings according to

and consistent with the manufacturer's instructions.

c. Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing,

provided that the tests are recommended by Federal, State, or local government, the manufacturer, the

vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing

of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary

ICE in emergency situations. The Permittee may petition the Control Officer for approval of additional

---

\(^1\) When calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included. [Subpart JJJJ, Table 1, footnote d.]
Natural gas fired SI ICE may be operated using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but the Permittee 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 owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233.

Monitoring & Recordkeeping Requirements

84. All records required by, or generated to verify compliance with this Section shall be maintained in accordance with Condition 12 and shall include the following:

   a. In order to demonstrate compliance with the operational hour limitation in Condition 83.c, the Permittee shall record the monthly maintenance checks and readiness testing operating hours for each subject engine. In addition, the Permittee shall recalculate a rolling 12-month total within 30 calendar days of the end of the month.

   b. The Permittee shall record and retain all maintenance conducted on the subject engines.

   c. The Permittee shall maintain records of the manufacture certifications that identify the applicable emission limits for the appropriate model year and maximum engine horsepower and certify the subject engines to those standards.

Reporting Requirements

85. The Permittee shall report to the Control Officer any emissions in excess of the limits established by this permit in accordance with Condition 11 of this permit.

Testing Requirements

86. Should the Permittee conduct performance testing to demonstrate compliance with the applicable standards, the Permittee shall do so in accordance with 40 CFR 60.4244.
§9 – CATEGORY F

**National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)**

For Non-Emergency CI ≤ 300 HP

Unless otherwise stated, the subject Compression Ignition (CI) ICE unit(s) is/are identified in Table 3, Attachment 2 of this permit.

**Applicability**

   
   a. Applicable to each existing stationary compression ignition (CI) RICE at an area source. [PCC 17.16.530.B.83]
      
      i. A stationary RICE is “existing,” if construction or reconstruction was commenced before June 12, 2006. [40 CFR 63.6585]
   
   b. Existing CI RICE must comply with the applicable requirements in this Section no later than May 3, 2013. [40 CFR 63.6595(a)(1)]

**Emission Limitations and Standards**

91. **Hour Limitation**

   a. The Permittee must install a non-resettable hour meter if one is not already installed. [PCC 17.11.120.A.3.c]
      
      [Material Permit Condition]
   
   b. The Permittee shall not operate the CI RICE for more than the number of hours per year specified in the permit equipment list on a rolling twelve (12) month total basis. [PCC 17.11.190.B]

92. **Management Practices**

   The Permittee must comply with the following: [40 CFR 63.6603(a) and Table 2d to Subpart ZZZZ, PCC 17.11.120]
   
   [Material Permit Conditions]

   a. The Permittee must comply with the following management practice requirements except during periods of startup:
      
      [Row 1 of Table 2d to Subpart ZZZZ]
   
      i. Change oil and filter every 1,000 hours of operation or annually, whichever comes first; and
   
      ii. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
   
      iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

   The Permittee has the option to utilize an oil analysis program as described in Condition 95.b.ii in order to extend the specified oil change requirement in Condition 92.a.i.
      
      [Footnote 1, Table 2d to Subpart ZZZZ of Part 63 & 40 CFR 63.6625(i)]
   
   b. The Permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)]
c. The Permittee must be in compliance with the emission limitations, operating limitations and other requirements in Conditions 91 and 92 at all times. [40 CFR 63.6605(a)]

93. Opacity and Fuel Requirements

a. The Permittee shall burn only the specified fuel allowed for each applicable generator specified in the permit equipment list. The Permittee shall only fire fuel with a sulfur content less than 0.90 percent by weight. [PCC 17.11.120.A.3.a & PCC 17.11.190.B] [Locally Enforceable Condition]

b. Except as otherwise specified in this Section, the opacity of all plumes and effluents from all point and non-point sources shall not exceed 20% as determined by EPA Reference Method 9, Appendix A 40 CFR 60. [SIP Rule 321, PCC 17.16.040, PCC 17.16.050.B & PCC 17.16.130.B.1] [This condition is Federally Enforceable when opacity is above 40%]

c. 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 ten consecutive seconds that exceeds 40 percent opacity. Visible emissions when starting cold equipment shall be exempt from this requirement for the first ten minutes. [SIP Rule 321, PCC 17.16.040.A & PCC 17.16.340.E]

d. The Permittee shall not cause or permit the effluent from any generator to have an average optical density equal to or greater than 60 percent when a cold diesel engine is started or when a diesel engine is accelerated under load as measured in accordance with EPA Reference Method 9. [SIP Rule 321, PCC 17.16.040.A & PCC 17.16.040]


94. The Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, at all times, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this Section have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Control Officer which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605(b)]

95. The Permittee shall monitor and keep the following records for each RICE unit in accordance with Condition 12:

a. Hour Limitation

For each generator identified as having an operational limitation in the permit equipment list, the Permittee shall record the monthly operating hours and recalculate a rolling twelve (12) month total within 10 calendar days of the end of the month. All records shall be maintained for five years. [PCC 17.12.040.A.3]

b. Management Practices and Maintenance

i. The Permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e), 40 CFR 63.6625(e)(4), 63.6640(a) - Table 6 to Subpart ZZZZ of Part 63 (Row 9)
ii. If the Permittee decides to utilize an oil analysis program in order to extend the specified oil change requirement in Condition 92.a.i, the oil analysis must be performed at the same frequency specified for changing the oil in II.B.1.a of this Section. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee must change the oil within 2 business days or before commencing operation, whichever is later. The Permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[40 CFR 63.6625(i) & Table 2d to Subpart ZZZZ of Part 63]

iii. The Permittee must keep records of the maintenance conducted on the RICE in order to demonstrate that the Permittee operated and maintained the RICE and after-treatment control device (if any) according to the Permittee’s own maintenance plan.

[40 CFR 63.6655(e), & 40 CFR 63.6655(e)(3)]

c. Fuel Limitation

[Locally Enforceable Conditions]

i. The Permittee shall be considered in compliance with the fuel limitations required in Condition 93.a by demonstrating that only the specified fuel identified in the permit equipment list was fired in the subject engine. Such a demonstration may be made by making available to the Control Officer for his inspection, documentation, such as invoices or statements from the fuel supplier which verify the sulfur content of the fuel being delivered.

[PCC 17.12.040.A.3.c]

ii. The Permittee shall maintain records of fuel supplier specifications which verify the sulfur content of the fuel as delivered. All records shall be maintained for five years.

[PCC 17.12.040.A.4]

d. Opacity

[Locally Enforceable Conditions]

i. In order to demonstrate compliance with the opacity limitations in Condition 93, the Permittee shall conduct a visible emissions check on the exhaust stack of the generator at least monthly if the generator is run during the month. For the purposes of this permit, a visible emissions check shall be conducted by an observer certified in measuring opacity in accordance with EPA Reference Method 9, verifying that abnormal emissions are not present at the subject stack. The Permittee shall record the date and time of the check, the name of the person conducting the check, the results of the check, and the type of corrective action taken (if required).

[PCC 17.12.040.A.3.c]

ii. The Permittee shall retain records of visible emissions checks/observations. The Permittee shall record the date and time of the check, the name of the person conducting the check, the results of the check, and the type of corrective action taken (if required). All records shall be maintained for five years.

[PCC 17.12.040.A.4]

iii. If the observer sees visible emissions from the generator that, on an instantaneous basis, appears to exceed the opacity limitations in Condition 93 then the Permittee shall, if practicable, take an EPA Reference Method 9 observation of the plume. If the emissions exceed the opacity limitations, then this occurrence shall be recorded and reported as an excess emission.

[PCC 17.12.040.A.3.c]

e. The Permittee shall keep records according to Condition 11 and the following:

i. The Permittee’s records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1).

[40 CFR 63.6660(a)]
ii. As specified in 40 CFR 63.10(b)(1), the Permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.  

[iii. The Permittee must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1).] 

Reporting Requirements 

96. The Permittee shall report to the Control Officer any emissions in excess of the limits established by this Section in accordance with Condition 11. 

Testing Requirements 

97. For purposes of demonstrating compliance, these test methods shall be used, provided that for the purpose of establishing whether or not the facility has violated or is in violation of any provision of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance with applicable federal requirements if the appropriate performance or compliance procedures or methods had been performed. 

Methods referenced below are from 40 CFR Part 60, Appendix A unless otherwise noted. 

a. Opacity 

When required by the Control Officer, the Permittee shall perform EPA Reference Method 9 visible emissions observations on the engines identified in this Section to demonstrate compliance with the opacity limits in Condition 93. 

98-99. [Reserved]
§10 – CATEGORY G

New and Existing Stationary Source Performance Standards for Internal Combustion Engines, Compression and Spark Ignition
(Locally Enforceable Conditions, unless otherwise stated)

Unless otherwise stated, the provisions of this Section apply to the equipment identified as Non-NSPS in Table 4 and Table 5 of Attachment 2 of this permit.

Emission Limitations and Standards

100. Particulate Matter Limitation

a. The Permittee shall not cause, allow or permit the emission of particulate matter, caused by combustion of fuel, from any stationary rotating machinery subject to this Section in excess of the amounts calculated by one of the following equations:

i. For equipment having a heat input rate of 4200 million BTU per hour or less, the maximum allowable emissions shall be determined by the following equation:

\[ E = 1.02Q^{0.769} \]

where:

- \( E \) = the maximum allowable particulate emissions rate in pounds-mass per hour (rounded off to 2 decimal places)
- \( Q \) = the heat input in million BTU per hour.

ii. For equipment having a heat input rate greater than 4200 million BTU per hour, the maximum allowable emissions shall be determined by the following equation:

\[ E = 17.0Q^{0.432} \]

"E" and "Q" have the same meaning as in Condition 100.a.

101. Opacity Limitation

a. Except as otherwise specified in this Section, the opacity of all plumes and effluents from all point and non-point sources shall not exceed 20% as determined by Reference Method 9, Appendix A 40 CFR 60.

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

c. The Permittee shall not cause or permit the effluent from any diesel fired generator to have an average optical density equal to or greater than 60 percent during the first 10 minutes when a cold diesel engine is started or when a diesel engine is accelerated under load as measured in accordance with EPA Reference Method 9, Appendix A in 40 CFR 60.
Part B, § 10 – Category G

102. Sulfur Dioxide Limitation

The Permittee shall limit the emission of sulfur dioxide to 1.0 pound per million Btu heat input from the stationary rotating machinery subject to this Section when firing diesel fuel. [PCC 17.16.340.F]

103. Operational Limitation

The Permittee shall not operate any emergency generator for more than the number of hours per year allowed in Attachment 2 of this permit calculated on a rolling twelve (12) month total basis, except during periods when normal electrical power is interrupted. [PCC 17.11.190.B, PCC 17.11.120] [Material Permit Condition]

104. Fuel Limitation

a. The Permittee shall burn only the specified fuel allowed for each engine identified in Attachment 2 of this Permit. [PCC 17.11.190.B, PCC 17.11.120] [Material Permit Condition]

b. For those subject engines listed in Table 3 and Table 4 of Attachment 2 as firing only diesel fuel, the Permittee shall burn only low sulfur oil (fuel oil containing less than 0.90 percent by weight sulfur). [PCC 17.11.190.B, PCC 17.11.120] [Material Permit Condition]


105. The Permittee shall monitor and keep the following records for listed equipment in accordance with Condition 12:

a. Particulate Matter

A demonstration to show compliance with the emission limitation for particulate matter in Condition 100 shall not be required unless the Control Officer has reason to believe that conditions may exist which have the potential to cause a violation of the applicable requirement. The Permittee shall operate and maintain the internal combustion engines at all times - including periods of startup, shutdown, and malfunction - in a manner consistent with good air pollution control practices and consistent with manufacturer’s guidelines. [17.12.180.B.2]

b. Opacity

i. Gaseous Fuel-Fired Equipment

A demonstration to show compliance with the emission limitation for opacity in Condition 101 shall not be required since the percent of opacity of visible emissions whilst combusting natural gas is inherently low. The Permittee shall operate and maintain the engines at all times - including periods of startup, shutdown, and malfunction - in a manner consistent with good air pollution control practices and consistent with manufacturer’s guidelines.

ii. All other Fuel Sources

In order to demonstrate compliance with the emission limitation for opacity in Condition 101, the Permittee shall conduct a visible emissions check on the exhaust stack of each generator firing any fuel other than a gaseous fuel at least quarterly while the generator is operating. For the purposes of this permit, a visible emissions check shall be conducted by an observer certified in measuring opacity in accordance with EPA Reference Method 9, verifying that abnormal emissions are not present at the subject CI ICE stack. The Permittee shall record the date and time of the check, the name of the person conducting the check, the results of the check, and the type of corrective action taken (if required).

iii. The Permittee shall retain records of visible emissions checks/observations when required.
c. Sulfur Dioxide

Compliance with the fuel limitation requirement of Condition 104.b (PCC 17.16.340.H) shall ensure compliance with the sulfur dioxide limitation of Condition 102 (PCC 17.16.340.F).

d. Operational Hours

The Permittee shall monitor the monthly operating hours for each engine identified as having an operational limitation in Table 3 and Table 4 of Attachment 2.

i. The Permittee shall record the operating hours monthly. In addition, the Permittee shall recalculate a rolling twelve (12) month total within 30 calendar days of the end of the month.

ii. The Permittee shall retain records of all operational hour logs for each generator for a period of five years.

e. Fuel Records

i. The Permittee shall be considered in compliance with the fuel limitations in Condition 104.a by demonstrating that each engine was fired only by the specified fuel allowed as listed in Table 3 and Table 4 of Attachment 2. Such a demonstration may be achieved by making available for the Control Officer’s inspection, documentation, such as invoices or statements from the fuel supplier, showing that only the specified fuel was purchased for use in the equipment. Alternatively, the demonstration may be made by actual inspection of the equipment showing that the specified fuel is the only fuel supply plumbed to the equipment for firing.

ii. The Permittee shall be considered in compliance with the fuel limitations in Condition 104.b by making available for the Control Officer’s inspection, documentation, such as fuel supplier specifications, showing that only low sulfur fuel is provided by the supplier.

iii. For those subject engines listed in Table 3 and Table 4 of Attachment 2, the Permittee shall record daily the sulfur content and lower heating value of the fuel being fired. [PCC 17.16.340.I]

[The Permittee shall be considered in compliance with this recordkeeping requirement by demonstrating that each engine was fired only by the specified fuel allowed as listed in Table 3 and Table 4 of Attachment 2. Such a demonstration may be achieved by making available for the Control Officer’s inspection, documentation, such as invoices or statements from the fuel supplier, showing that only the specified fuel was purchased for use in the equipment. Alternatively, the demonstration may be made by actual inspection of the equipment showing that the specified fuel is the only fuel supply plumbed to the equipment for firing.]

iv. The Permittee shall keep copies of the fuel supplier specifications/delivery sheets for each generator.

**Reporting Requirements**

106. The Permittee shall report to the Control Officer any emissions in excess of the limits established by this permit according to Condition 11. [PCC 17.12.040]

107. The Permittee shall report to the Control Officer any daily period during which the sulfur content of the fuel being fired in the diesel fired engines exceeds 0.8 percent. [PCC 17.16.340.J]
Testing Requirements

108. For purposes of demonstrating compliance, these test methods shall be used, provided that for the purpose of establishing whether or not the facility has violated or is in violation of any provision of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance with applicable federal requirements if the appropriate performance or compliance procedures or methods had been performed.

[PCC 17.12.050 & PCC 17.20.010]

a. Opacity

When required by the Control Officer, the Permittee shall perform EPA Method 9 visible emissions observations on the engines identified in Table 3 and Table 4 of Attachment 2 to demonstrate compliance with the opacity standard in Condition 101.

[PCC 17.16.040.B & PCC 17.20.010]

b. Fuel Limitation

i. Natural Gas Fired Equipment

When required, the Permittee need only demonstrate that pipeline quality natural gas was fired, in the natural gas fired equipment, exclusively since the sulfur content of pipeline quality natural gas is regulated by the Federal Energy Regulatory Commission.

[PCC 17.12.040.A.3 & PCC 17.20.010]

ii. When required, the following reference methods shall be used to determine compliance with the fuel limitation standard in Condition 104.b.


b. ASTM Method D-1072-90 (Test Method for Total Sulfur in Fuel Gases) for the sulfur content of gaseous fuels.

iii. When required, to determine the sulfur content of the fuel being fired for purposes of the reporting requirement in Condition 105.b.iii, the following reference methods in the Arizona Testing Manual shall be used:


b. ASTM Method D-1072-90 (Test Method for Total Sulfur in Fuel Gases) for the sulfur content of gaseous fuels.

c. Alternative Test Method

The Permittee may submit an alternate and equivalent test method(s) that is listed in 40 CFR Subpart 60, Appendix A, to the Control Officer in a test plan, for approval by the Control Officer.

[PCC 17.12.045.D]

109. [Reserved]
§11 – CATEGORY H

New and Existing Stationary Source Performance Standards for Fossil-Fuel Fired Industrial and Commercial Equipment (Boilers, not subject to NSPS)

(Locally Enforceable Conditions, unless otherwise stated)

Unless otherwise stated, the provisions of this Section apply to the equipment identified in, Table 6, Attachment 2 of this permit.

Emission Limitations and Standards

110. Particulate Matter Limitation

a. The Permittee shall not cause, allow or permit the emission of particulate matter, caused by combustion of fuel, from fuel burning equipment subject to this Section in excess of the amount calculated by the following equation:  

\[ E = 1.02Q^{0.769} \]

where:

- \( E \) = the maximum allowable particulate emissions rate in pounds-mass per hour.
- \( Q \) = the heat input in million BTU per hour.

111. Opacity Limitation

The Permittee shall not cause, allow or permit the effluent from any boiler to have an average optical density equal to or greater than 20 percent.

112. Fuel Limitation

a. The Permittee shall burn only the specified fuel allowed for the boilers in Table 5, Attachment 2.

b. The Permittee shall not use high sulfur oil (fuel sulfur content >0.90% by weight) as a fuel unless the Permittee demonstrates to the satisfaction of the Control Officer that sufficient quantities of low sulfur oil are not available for use by the source and that it has adequate facilities and contingency plans to insure that the sulfur dioxide ambient air quality standards set forth in PCC 17.08.020 will not be violated.

Monitoring & Recordkeeping Requirements

113. The Permittee shall monitor and keep the following records for each boiler in accordance with Condition 112:

a. Particulate Matter

A demonstration to show compliance with the particulate matter limitation in Condition 110 shall not be required unless the Control Officer has reason to believe that conditions may exist which have the potential to cause a violation of the applicable requirement. The Permittee shall operate and maintain the boilers at all times - including periods of startup, shutdown, and malfunction - in a manner consistent with good air pollution control practices and consistent with manufactures guidelines.
Part B, § 11 – Category H

b. Opacity

A demonstration to show compliance with the emission limitation for opacity in Condition 111 shall not be required since the percent of opacity of visible emissions whilst combusting natural gas is inherently low. The Permittee shall operate and maintain the boilers at all times - including periods of startup, shutdown, and malfunction - in a manner consistent with good air pollution control practices and consistent with manufacturer’s guidelines. [PCC 17.12.040.A.3]

c. Fuel

The Permittee shall be considered in compliance with the fuel limitation in Condition 112 by demonstrating that each boiler was fired only by the specified fuel allowed as listed in Table 5 of Attachment 2. Such a demonstration may be made by making available to the Control Officer for his inspection, documentation, such as invoices or statements from the fuel supplier, showing that only the specified fuel was purchased for use in the equipment. Alternatively, the demonstration may be made by actual inspection of the equipment showing that the specified fuel is the only fuel supply plumbed to the equipment for firing.

Reporting Requirements

114. The Permittee shall report to the Control Officer any emissions in excess of the limits established by this permit according to Condition 11. [PCC 17.12.170]

Testing Requirements

115. For purposes of demonstrating compliance, these test methods shall be used, provided that for the purpose of establishing whether or not the facility has violated or is in violation of any provision of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance with applicable federal requirements if the appropriate performance or compliance procedures or methods had been performed. [PCC 17.12.050 & PCC 17.20.010]

a. Opacity

When required, the Permittee shall perform EPA Method 9 visible emissions observations on the facility operations to demonstrate compliance with the opacity standard. [PCC 17.16.040.B & PCC 17.20.010]

b. Fuel Limitation

When required the Permittee need only demonstrate that pipeline quality natural gas was fired exclusively since the sulfur content of pipeline quality natural gas is regulated by the Federal Energy Regulatory Commission. [PCC 17.12.040.A.3 & PCC 17.20.010]

c. Alternative Test Method

The Permittee may submit an alternate and equivalent test method(s) that is listed in 40 CFR Subpart 60, Appendix A, to the Control Officer in a test plan, for approval by the Control Officer. [PCC 17.12.045.D]

116-119. [Reserved]
§12 – CATEGORY I

New and Existing Stationary Source Performance Standards for
Pathological Incinerator
(Locally Enforceable Conditions, unless otherwise stated)

Unless otherwise stated, the provisions of this Section apply to the equipment identified in Table 7, Attachment 2, of this permit.

Emission Limitations and Standards

120. Opacity Limitation

The Permittee shall not cause, allow, or permit to be emitted into the atmosphere, smoke, fumes, gases, particulate matter or other gas-borne material which exceeds 20 percent opacity except for 30 seconds in any 60-minute period. [SIP Rule 321.A, PCC 17.16.170.B & PCC 17.16.170.E.1]

121. Particulate Matter Limitation

Emissions from the incinerator shall not exceed 0.08 grains per cubic foot based on dry flue gas at standard conditions, corrected to 12 percent carbon dioxide, except for 30 seconds in any 60-minute period. [SIP Rule 332.A, PCC 17.16.170.C.1 & PCC 17.16.170.E.1, 17.16.510]

123. Visibility Limitation

The Permittee shall not cause or permit the airborne diffusion of visible emissions, excluding water vapor, beyond the property boundary line without appropriately controlling the emissions at the point of discharge. [PCC 17.16.050.D]

124. Operational Limitations

a. Allowable Waste for Incineration

The Permittee shall not burn any substance greater than 10 percent or more by weight (on a calendar quarter basis and excluding the weight of auxiliary fuel and combustion air) of material other than pathological waste, defined as material consisting of only human or animal remains, anatomical parts, and/ or tissue, the bags/containers used to collect and transport the waste material, and animal bedding (if applicable). [PCC 17.12.040.A.2, PCC 17.11.120]

b. Hour Limitation

The Permittee shall limit the hours of operation of the pathological incinerator to daylight hours between the times of official sunrise and sunset. [SIP Rule 313.A & PCC 17.16.170.A]

c. Fuel Limitation

The Permittee shall burn only the specified fuel allowed for the pathological incinerator identified in Table 6 of Attachment 2. [PCC 17.11.190.B, PCC 17.11.120]
125. The Permittee shall monitor and keep the following records for the pathological incinerator in accordance with Condition 12:

a. Opacity and Visible Emissions
   
i. In order to demonstrate compliance with the opacity and visible emissions limitation in Conditions 120 and 123 respectfully, the Permittee shall conduct daily visible emission checks on the exhaust stack of the incinerator while the unit is operating. For the purposes of this permit, a visible emissions check shall be conducted by an observer certified in measuring opacity in accordance with EPA Reference Method 9, verifying that abnormal emissions are not present at the incinerator stack. If the observer sees a plume that, on an instantaneous basis, appears to exceed 20% opacity or the plume is crossing property boundaries, then the Permittee shall, if practicable, take a six-minute Method 9 observation of the plume. If the six-minute Method 9 observation results in an average opacity reading in excess of the opacity limit, or is crossing the property boundary this shall be recorded and reported as an excess emission and a permit deviation pursuant to Condition 11.
   
   ii. The Permittee shall record all observations made under opacity and visible emissions monitoring to include; the date and time of the check, the name of the person conducting the check, the results of the check and the type of corrective action taken (if required). If no visible emissions are observed, the record shall reflect this.

b. Particulate Matter
   
   A demonstration to show compliance with the emission limitation for particulate matter in Condition 121 shall not be required unless the Control Officer has reason to believe that conditions may exist which have the potential to cause a violation of the applicable requirement. The Permittee shall operate and maintain the incinerator unit at all times - including periods of startup, shutdown, and malfunction - in a manner consistent with good air pollution control practices and consistent with manufacturers’ guidelines.

c. Allowable Waste
   
i. To assure compliance with the allowable waste limitation in Condition 124.a, the Permittee shall monitor the type and quantity (by weight) of waste incinerated. The Permittee shall determine the percent of pathological waste incinerated in a calendar quarter basis.
   
   ii. The percent by weight of pathological waste incinerated per calendar quarter basis shall be determined and presented in the operational log at such time when sufficient data is available for each calendar quarter basis.

d. Operating Log Requirement
   
i. To assure compliance with the operational hour limitation in Condition 124.b, of this permit, the Permittee shall monitor the charging rate, time of operation and hours of operation of the incinerator per day of operation. [PCC 17.16.170.F, 40 CFR 60.53, PCC 17.16.510]
   
   ii. The Permittee shall maintain an operation log for the incinerator showing: the percent by weight of pathological waste incinerated, the hours of startup and shutdown of the incinerator, including date, starting time (in hours and minutes), the shutting down time (in hours and minutes) and the duration of the burn. [PCC 17.16.170.F]
   
   iii. The operation log shall be updated at the end of each operating day.
e. Fuel Limitations

i. The Permittee shall be considered in compliance with the fuel limitation in Condition 124.e by demonstrating that the incinerator was fired only by the specified fuel allowed as listed in Table 6 of Attachment 2. Such a demonstration may be made by making available to the Control Officer for his inspection, documentation, such as invoices or statements from the fuel supplier, showing that only the specified fuel was purchased for use in the equipment.

ii. In order to demonstrate compliance with the fuel limitation required in Condition 124.e, the Permittee shall maintain records of fuel supplier specifications which verify the sulfur content of the fuel, piped and/or as delivered. Alternatively, the demonstration may be made by actual inspection of the equipment showing that the specified fuel is the only fuel supply plumbed to the equipment for firing.

Reporting Requirements

126. The Permittee shall report to the Control Officer any emissions in excess of the limits established by this permit according to Condition 11. [PCC 17.12.040]

Testing Requirements

127. For purposes of demonstrating compliance, these test methods shall be used, provided that for the purpose of establishing whether or not the facility has violated or is in violation of any provision of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance with applicable federal requirements if the appropriate performance or compliance procedures or methods had been performed.

[PCC 17.12.050 & PCC 17.20.010]

a. Opacity

When required by the Control Officer, the Permittee shall perform EPA Method 9 visible emissions observations on the facility operations to demonstrate compliance with the opacity standard in I.A of this Section. [PCC 17.12.040.B & PCC 17.20.010]

b. Particulate Matter

EPA Test Method 4 and 5 for the concentration of particulate matter and associated moisture content in Condition 121 if requested by the Control Officer in accordance with 40 CFR 60.54 [PCC 17.12.040.A.3.a, PCC 17.16.170.G.1.a & PCC 17.20.010, PCC 17.16.510]

c. Fuel

The Permittee need only demonstrate that pipeline quality natural gas was fired exclusively since the sulfur content of pipeline quality natural gas is regulated by the Federal Energy Regulatory Commission. [PCC 17.12.040.A.3 & PCC 17.20.010]

d. Alternative Test Method

The Permittee may submit an alternate and equivalent test method(s) that is listed in 40 CFR Subpart 60, Appendix A, to the Control Officer in a test plan, for approval by the Control Officer. [PCC 17.12.045.D]

128-129. [Reserved]
§13 – CATEGORY J

New and Existing Stationary Source Performance Standards for
Surface Coating and Solvent Degreasing Activities
(Locally Enforceable Conditions, unless otherwise stated)

Unless otherwise stated, the provisions of this Section apply to the equipment identified in Table 8, Attachment 2 of this permit

Emission Limitations and Standards

130. Surface Coating Overspray Control

Confined paint spraying operations, identified in Table 7 of Attachment 2 shall be conducted in an enclosed area equipped with controls containing no less than 96 percent of the overspray.

131. Standard Operating Procedure

The Permittee shall conduct spray painting activities in accordance with a Standard Operations Procedure (SOP) developed by the facility and approved by the Control Officer.

132. Solvent Degreasing Gaseous/Odorous Materials and VOC Control

a. The Permittee shall not emit gaseous or odorous materials from equipment, operations or premises under his control in such quantities or concentrations as to cause air pollution.

b. All materials used in the facility which contain VOCs, shall be transported, stored, used and processed in a manner, and by such means that they will not evaporate, leak, escape or discharge into the ambient air so as to cause or contribute to air pollution. Where means are available to effectively reduce the contribution to air pollution from evaporation, leakage or discharge, the installation and use of such control methods, devices, or equipment shall be mandatory.

Monitoring & Recordkeeping Requirements

133. The Permittee shall monitor and keep the following records for the surface coating operations in accordance with Condition 12:

a. Conditions for Confined Paint Spray Operations

The Permittee shall demonstrate compliance with the operational limitation for the surface coating operations required in Condition 130 by retaining documentation detailing the specifications of the arrestance ratings of the filters used in the paint spray booths.

b. Conditions for the Solvent Degreasing Activities

Monitoring for gaseous/odorous materials to determine compliance with Condition 132 is not normally necessary as the use of good modern practices prevents the emission of odors beyond the property boundary.

Reporting Requirements

134. The Permittee shall report to the Control Officer any emissions in excess of the limits established by this permit according to Condition 11.

Testing Requirements

None specified in Pima County Code.

135-139. [Reserved]
§14 – CATEGORY K

New Source Performance Standards (NSPS) for Combustion Turbines
(40 CFR Part 60, Subpart KKKK) NSPS Turbine Specific Conditions

Unless otherwise stated, the provisions of this Section apply to the modified T60 NSPS Stationary Gas Turbine (Equipment Identification 2050301) identified in Table 9, Attachment 2 of this permit. 40 CFR 60, Subpart KKKK – Combustion Turbines is incorporated by reference as applicable requirements.

Applicability

140. Stationary combustion turbines regulated under this Section are exempt from the requirements of Subpart GG of Part 60 (§2 of this permit). The pollutants regulated in this Section are nitrogen oxide (NO\textsubscript{X}) and sulfur dioxide (SO\textsubscript{2}).

Emission Limitations and Standards

141. Emission limits

   a. Nitrogen Oxide Emission Limits

      The Permittee shall meet the emission limits for NO\textsubscript{X} specified in Table 1 of 40 CFR 60 Subpart KKKK. Table 1 requires the modified natural gas fired turbine with a heat input at peak load between 50 MMBtu/hr and 850 MMBtu/hr, to meet a NO\textsubscript{X} emission standard of 42 ppm at 15 percent O\textsubscript{2} or 250 ng/J of useful output (2.0 lb/MW-hr).[40 CFR 60.4320(a), Table 1 – Modified or reconstructed turbine firing natural gas]

   b. Sulfur Dioxide Emission Limits

      i. The Permittee shall comply with either of the following: [40 CFR 60.4330(a)]

         (a) The Permittee must not cause to be discharged into the atmosphere from the subject stationary combustion turbine any gases which contain SO\textsubscript{2} in excess of 110 nanograms per Joule (ng/J) (0.90 pounds per megawatt-hour (lb/MWh)) gross output; [40 CFR 60.4330(a)(1)]

         (b) The Permittee must not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 26 ng SO\textsubscript{2}/J (0.060 lb SO\textsubscript{2}/MMBtu) heat input. [40 CFR 60.4330(a)(2)]

142. General Requirements

   a. The Permittee must operate and maintain the stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction. [40 CFR 60.4333(a)]

   b. When an affected unit with heat recovery utilizes a common steam header with one or more combustion turbines, the owner or operator shall either: [40 CFR 60.4333(b)]

      a. Determine compliance with the applicable NO\textsubscript{X} emissions limits by measuring the emissions combined with the emissions from the other unit(s) utilizing the common heat recovery unit; or
b. Develop, demonstrate, and provide information satisfactory to the Control Officer on methods for apportioning the combined gross energy output from the heat recovery unit for each of the affected combustion turbines. The Control Officer may approve such demonstrated substitute methods for apportioning the combined gross energy output measured at the steam turbine whenever the demonstration ensures accurate estimation of emissions related under 40 CFR Part 60.

**Monitoring & Recordkeeping**

143. Nitrogen Oxides

The Permittee must perform annual performance tests in accordance Condition 147 and 40 CFR 60.4400 to demonstrate continuous compliance with the limit in Condition 141.a. If the NO$_X$ emission result from the performance test is less than or equal to 75 percent of the NO$_X$ emission limit for the turbine, the Permittee may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NO$_X$ emission limit for the turbine, you must resume annual performance tests. [40 CFR 60.4340(a)]

144. Fuel Sulfur Content

The Permittee may elect not to monitor the total sulfur content of the fuel combusted in the turbine, if the fuel is demonstrated not to exceed potential sulfur emissions of 26 ng SO$_2$/J (0.060 lb SO$_2$/MMBtu) heat input for units located in continental areas and 180 ng SO$_2$/J (0.42 lb SO$_2$/MMBtu) heat input for units located in non-continental areas or a continental area that the Control Officer determines does not have access to natural gas and that the removal of sulfur compounds would cause more environmental harm than benefit. The Permittee must use one of the following sources of information to make the required demonstration:

a. The fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the maximum total sulfur content for oil use in continental areas is 0.05 weight percent (500 PPM$_w$) or less and 0.4 weight percent (4,000 PPM$_w$) or less for non-continental areas, the total sulfur content for natural gas use in continental areas is 20 grains of sulfur or less per 100 standard cubic feet and 140 grains of sulfur or less per 100 standard cubic feet for non-continental areas, has potential sulfur emissions of less than less than 26 ng SO$_2$/J (0.060 lb SO$_2$/MMBtu) heat input for continental areas and has potential sulfur emissions of less than less than 180 ng SO$_2$/J (0.42 lb SO$_2$/MMBtu) heat input for non-continental areas; or [40 CFR 60.4365(a)]

b. Representative fuel sampling data which show that the sulfur content of the fuel does not exceed 26 ng SO$_2$/J (0.060 lb SO$_2$/MMBtu) for continental areas or 180 ng SO$_2$/J (0.42 lb SO$_2$/MMBtu) for non-continental areas. At a minimum, the historical fuel sampling data for the previous 12 months shall be used in this demonstration. [40 CFR 60.4365(b), Section 2.3.1.4 or 2.3.2.4 of Appendix D to part 75]

**Reporting Requirements**

145. For each affected unit that performs annual performance tests in accordance with Condition 147, the Permittee must submit a written report of the results of each performance test in accordance with Condition 17.g [40 CFR 60.4375(b)]

146. The Permittee shall report to the Control Officer any emissions in excess of the limits established by this permit according to Condition 11. [PCC 17.12.040]
Performance Tests

147. The Permittee must conduct an initial performance test, as required in 40 CFR 60.8. Subsequent NO\textsubscript{X} performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test).

\[\text{[40 CFR 60.4400(a)]}\]

a. There are two general methodologies that you may use to conduct the performance tests. For each test run:

\[\text{[40 CFR 60.4400(a)(1)]}\]

i. Measure the NO\textsubscript{X} concentration (in parts per million (ppm)), using EPA Method 7E or EPA Method 20 in appendix A of 40 CFR 60. For units complying with the output based standard, concurrently measure the stack gas flow rate, using EPA Methods 1 and 2 in Appendix A of 40 CFR 60, and measure and record the electrical and thermal output from the unit. Then, use the following equation to calculate the NO\textsubscript{X} emission rate:

\[
E = \frac{1.194 \times 10^{-7} \times (NO_X)_c \times Q_{std}}{P}
\]

Where:

\[\text{[40 CFR 60.4400(a)(1)(Eq. 5)]}\]

\[
E = \text{NO}_X \text{ emission rate, in lb/MWh}
\]

\[
1.194 \times 10^{-7} = \text{conversion constant, in lb/dscf-ppm}
\]

\[
(NO_X)_c = \text{average NO}_X \text{ concentration for the run, in ppm}
\]

\[
Q_{std} = \text{stack gas volumetric flow rate, in dscf/hr}
\]

\[
P = \text{gross electrical and mechanical energy output of the combustion turbine, in MW (for simple-cycle operation), for combined-cycle operation, the sum of all electrical and mechanical output from the combustion and steam turbines, or, for combined heat and power operation, the sum of all electrical and mechanical output from the combustion and steam turbines plus all useful recovered thermal output not used for additional electric or mechanical generation, in MW, calculated according to 40 CFR 60.4350(f)(2); or}
\]

\[\text{[40 CFR 60.4400(a)(1)(ii)]}\]

\[
i. \text{Measure the NO}_X \text{ and diluent gas concentrations, using either EPA Methods 7E and 3A, or EPA Method 20 in appendix A of this part. Concurrently measure the heat input to the unit, using a fuel flowmeter (or flowmeters), and measure the electrical and thermal output of the unit. Use EPA Method 19 in Appendix A of 40 CFR 60 to calculate the NO}_X \text{ emission rate in lb/MMBtu. Then, use Equations 1 and, if necessary, 2 and 3 in 40 CFR 60.4350(f) to calculate the NO}_X \text{ emission rate in lb/MWh.}}
\]

\[\text{[40 CFR 60.4400(a)(1)(ii)]}\]

b. Sampling traverse points for NO\textsubscript{X} and (if applicable) diluent gas are to be selected following EPA Method 20 or EPA Method 1 (non-particulate procedures), and sampled for equal time intervals. The sampling must be performed with a traversing single-hole probe, or, if feasible, with a stationary multi-hole probe that samples each of the points sequentially. Alternatively, a multi-hole probe designed and documented to sample equal volumes from each hole may be used to sample simultaneously at the required points.

\[\text{[40 CFR 60.4400(a)(2)]}\]

c. Notwithstanding Condition 147.b, the Permittee may test at fewer points than are specified in EPA Method 1 or EPA Method 20 in appendix A of 40 CFR 60 if the following conditions are met:

\[\text{[40 CFR 60.4400(a)(3)]}\]

i. The Permittee may perform a stratification test for NO\textsubscript{X} and diluent pursuant to:

\[\text{(a) [Reserved], or}\]
(b) The procedures specified in section 6.5.6.1(a) through (e) of appendix A of 40 CFR 40 CFR Part 75.

ii. Once the stratification sampling is completed, you may use the following alternative sample point selection criteria for the performance test: [40 CFR 60.4400(a)(3)(ii)]

(a) If each of the individual traverse point NOX concentrations is within ±10 percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than ±5ppm or ±0.5 percent CO2 (or O2) from the mean for all traverse points, then you may use three points (located either 16.7, 50.0 and 83.3 percent of the way across the stack or duct, or, for circular stacks or ducts greater than 2.4 meters (7.8 feet) in diameter, at 0.4, 1.2, and 2.0 meters from the wall). The three points must be located along the measurement line that exhibited the highest average NOX concentration during the stratification test; or [40 CFR 60.4400(a)(3)(ii)(A)]

(b) For turbines with a NOX standard greater than 15 ppm @ 15% O2, you may sample at a single point, located at least 1 meter from the stack wall or at the stack centroid if each of the individual traverse point NOX concentrations is within ±5 percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than ±3ppm or ±0.3 percent CO2 (or O2) from the mean for all traverse points; or [40 CFR 60.4400(a)(3)(ii)(B)]

(c) For turbines with a NOX standard less than or equal to 15 ppm @ 15% O2, you may sample at a single point, located at least 1 meter from the stack wall or at the stack centroid if each of the individual traverse point NOX concentrations is within ±2.5 percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than ±1ppm or ±0.15 percent CO2 (or O2) from the mean for all traverse points. [40 CFR 60.4400(a)(3)(ii)(C)]

148. The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. You may perform testing at the highest achievable load point, if at least 75 percent of peak load cannot be achieved in practice. You must conduct three separate test runs for each performance test. The minimum time per run is 20 minutes. [40 CFR 60.4400(b)]

a. If the stationary combustion turbine combusts both oil and gas as primary or backup fuels, separate performance testing is required for each fuel. [40 CFR 60.4400(b)(1)]

b. For a combined cycle and CHP turbine systems with supplemental heat (duct burner), you must measure the total NOX emissions after the duct burner rather than directly after the turbine. The duct burner must be in operation during the performance test. [40 CFR 60.4400(b)(2)]

c. If water or steam injection is used to control NOX with no additional post-combustion NOX control and you choose to monitor the steam or water to fuel ratio in accordance with 40 CFR 60.4335, then that monitoring system must be operated concurrently with each EPA Method 20 or EPA Method 7E run and must be used to determine the fuel consumption and the steam or water to fuel ratio necessary to comply with the applicable 40 CFR 60.4320 NOX emission limit. [40 CFR 60.4400(b)(3)]

d. Compliance with the applicable emission limit in 40 CFR 60.4320 must be demonstrated at each tested load level. Compliance is achieved if the three-run arithmetic average NOX emission rate at each tested level meets the applicable emission limit in 40 CFR 60.4320. [40 CFR 60.4400(b)(4)]

e. If you elect to install a CEMS, the performance evaluation of the CEMS may either be conducted separately or (as described in 40 CFR 60.4405) as part of the initial performance test of the affected unit. [40 CFR 60.4400(b)(5)]

f. The ambient temperature must be greater than 0°F during the performance test. [40 CFR 60.4400(b)(6)]
§15 – CATEGORY L

General Facility-Wide Specific Standards

The provisions of this Section apply to all facility operations.

Emission Limitations and Standards & Monitoring

150. General Facility Wide Requirements

a. Facility Changes

Before installing additional units, removing units, modifying existing emission equipment or switching fuels, the Permittee shall apply for the appropriate revision pursuant to PCC 17.12.090, PCC 17.12.110 or PCC 17.12.120. [PCC 17.12.040.A.2]

b. Air Pollution Control Equipment

Where a stack, vent or other outlet is at such a level that fumes, gas mist, odor, smoke, vapor or any combination thereof constituting air pollution are discharged to adjoining property, the Control Officer may require the installation of abatement equipment or the alteration of such stack, vent or other outlet by the owner or operator thereof to a degree that will adequately reduce or eliminate the discharge of air pollution to adjoining property. [PCC 17.16.020.B]

c. Odor Limiting Standard

i. The Permittee shall not cause or permit emissions from malodorous matter to cross a property line between the source and a residential, recreational, institutional, educational, retail sales, hotel, or business premise without minimizing the emissions by applying good modern practices. [PCC 17.16.030]

ii. Monitoring for odors at the facility to determine compliance is not normally necessary as the use of good modern practices prevents the emission of odors beyond the property boundary. The Control Officer may ask the Permittee to test for odor emissions if the Control Officer has reasonable cause to believe a violation of a standard has been committed. [PCC 17.12.010]

Recordkeeping Requirement

151. The Permittee shall retain all records relating to this permit and a copy of the permit at the permit site in accordance with Conditions 4 and 12. [PCC 17.12.080]

Reporting Requirements

152. The Permittee shall follow the following Facility Wide Reporting requirements:

a. The Permittee shall report to the Control Officer any emissions in excess of the limits established by this permit according to Condition 11. [PCC 17.12.040]
b. Semiannual Reports of Required Monitoring

The Permittee shall submit semiannual summary reports of any required monitoring required within the Specific Conditions of this permit, at least every six months. All instances of excess emissions and deviations from permit requirements as defined in Condition 11, shall be clearly identified in such reports. The report must be certified in accordance with Condition 8. The semiannual reports shall be due by January 31st (covering the period July 1st through December 31st) and July 31st (covering the period January 1st through June 30th) of each year. Wherever the permit requires an annual report this report shall be included in the semiannual report due by January 31st any quarterly reports may be included in the semi-annual reports.

c. Compliance Certification Reporting

The Permittee shall submit semiannual compliance certifications to the Control Officer and to EPA Region IX pursuant to Condition 7 of this permit. The compliance certification reports shall be due by January 31st and July 31st of each year covering the same periods identified in Condition 152.b. The first reports due after permit issuance may not cover a 6-month period.

d. Emissions Inventory Reporting

Every source with a Class I permit shall complete and submit an annual emissions inventory questionnaire by March 31, or 90 days after the Control Officer makes the inventory form available, whichever occurs later and shall include emission information for the previous calendar year. (See also Condition 6 for additional information on this report.)

Testing Requirements

153. The Permittee shall follow the general testing requirements in Condition 17 and the Specific testing requirements listed within each Section of this permit.

154-159. [Reserved]
ATTACHMENT 1 – APPLICABLE REGULATIONS

Requirements Specifically Identified as Applicable:

Code of Federal Regulations, Title 40 Part 60

Subpart A: General Provisions.

60.7(a)(1), 60.7(a)(3), 60.7(a)(4), 60.7(b), 60.7(f), 60.7(f)(3), 60.8(a), 60.8(b), 60.8(c), 60.8(d), 60.8(e), 60.8(f), 60.11(d), 60.11(g), 60.12, and 60.15

Subpart Dc: New Source Performance Standards (NSPS) for Small Industrial - Commercial - Institutional Steam Generating Units.

(60.48c(a) and 60.48c(a)(3))


60.330(a), 60.330(b), 60.332(a)(2), 60.333(b), 60.335(a), 60.335(b), 60.335(c), 60.335(c)(1), and 60.335(f)

40 CFR Part 60 Subpart IIII: New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines

40 CFR 60.4203, 60.4204(a) & Table 1 of Subpart IIII, 40 CFR 60.4206, 60.4211(a), 40 CFR 60.4207(b) & 40 CFR 80.510(b), 40 CFR 60.4207(c), 40 CFR 60.4208, 40 CFR 60.4208(a), 40 CFR 60.4208(b), 40 CFR 60.4208(c), 40 CFR 60.4208(d), 40 CFR 60.4208(e), 40 CFR 60.4208(f), 40 CFR 60.4208(g) & (h), 40 CFR 60.4211, 40 CFR 60.4211(a), PCC 17.12.040.A.2, PCC 17.12.040.A.4, 40 CFR 60.4214(a)(1) and PCC 17.12.040.A.5, 40 CFR 60.4212 and PCC 17.12.040.A.3.a, 40 CFR 60.4218 & 40 CFR 60.4214(b) and PCC 17.12.040.A.4.

40 CFR Part 60 Subpart JJJJ: New Source Performance Standards (NSPS) for Stationary Spark Ignition Internal Combustion Engines

40 CFR 60.4230(a), 60.4230(a)(4), 60.4230(a)(4)(iv), 60.4233, 60.4233(e), 60.4234, 60.4236, 60.4236(a), 60.4236(c), 60.4236(e), 60.4243(d), 60.42434(a), 60.4243(b), 60.4243(b)(1), 60.4237(b), 60.4245, 60.4245(a)(2), 60.4245(a)(3), 60.4244 and 60.4246.

Code of Federal Regulations, Title 40 Part 63


40 CFR 63.6585, 63.6590 (a)(iii), 63.6595, 63.66039(a), 63.6605(a) and (b), 63.6625(e)(4), 63.6625(h), 63.6625(i), 63.6640(a), 66.6645(a)(5), 63.6655(a)(1, 2, 4 & 5), 63.6660, 63.6670(a), Table 2d, (Row 1) & footnote 1, Table 6 (Row 9)

General Provisions (40 CFR Part 63) – See Table 8: Yes, except 63.6645(a)(5), the following do not apply:

63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h)
Code of Federal Regulations, Title 40 Part 60, Subpart KKKK


40 CFR 60.4305(b), 61.4315, 60.4320(a), 60.4330(a)(1), 60.4330(a)(2), 60.4333(a), 60.4333(b), 60.4340(a), 60.4345, 60.4345a, 60.4365(b), Section 2.3.1.4 or 2.3.2.4 of Appendix D to part 75, 60.4375(b), 60.4400(a), 60.4400(a)(1), 60.4400(a)(1)(i), 60.4400(a)(1)(Eq. 5), 60.4400(a)(1)(ii), 60.4400(a)(2), 60.4400(a)(3), 60.4400(a)(3)(i), 60.4400(a)(3)(ii)(i), 60.4400(a)(3)(ii)(ii), 60.4400(a)(3)(ii)(iii), 60.4400(a)(3)(ii)(iv), 60.4400(b), 60.4400(b)(1), 60.4400(b)(2), 60.4400(b)(3), 60.4400(b)(4), 60.4400(b)(5), 60.4400(b)(6).

Code of Federal Regulations, Title 40 Part 82, Subpart F (as applicable)

Pima County SIP:
- Rule 103 Authority
- Rule 111 General Applicability
- Rule 212 Sampling, Testing, and Analysis Requirements
- Rule 222 Posting of Permit
- Rule 224 Fugitive Dust Producing Activities
- Reg 24 Permit Fee Schedule/Non-Fee Requirements
- Reg 25 Permit Fee Schedules Adjustment
- Rule 301 Planning, Construction, or Operating Without a Permit
- Rule 313 Incinerators
- Rule 314 Petroleum Liquids
- Rule 316 Particulate Materials (Subsections A, C, D)
- Rule 321 Emissions Discharge Opacity Limiting Standards - Standards and Applicability (Includes NESHAP)
- Rule 332 Compilation of Mass Rates and Concentrations (NESHAPS)
- Rule 343 Visibility Limiting Standard
- Rule 344 Odor Limiting Standards
- Reg 50 Periodic Testing
- Rule 621 Reporting for Compliance Evaluations
- Rule 623 Reporting for Emission Inventories

Pima County Code (PCC) Title 17:

Chapter 17.11 – General Provisions for Permits
- 17.11.120 Material Permit Condition
- 17.11.160 Test Methods and Procedures
- 17.11.190 Permits Containing Synthetic Emission Limitations and Standards
- 17.11.210 Performance Tests

Chapter 17.12 – Individual Permits and Permit Revisions for Class I Permits
- 17.12.010 Permit Application Processing
- 17.12.040 Permit Contents
- 17.12.080 Compliance Plan – Certification
- 17.12.090 Facility Changes Allowed Without Permit Revisions
- 17.12.100 Administrative Permit Amendment
- 17.12.110 Minor Permit Revision
- 17.12.120 Significant Permit Revisions
- 17.12.130 Reopening, Revocation, Reissuance, or Termination
- 17.12.140 Permit Renewal and Expiration
- 17.12.160 Annual Emission Inventory Questionnaire
- 17.12.170 Excess Emissions Reporting Requirements
- 17.12.180 Affirmative Defenses for Excess Emissions due to Malfunctions, Startup, and Shutdown
- 17.12.220 Fees
Chapter 17.14 – Activity Permits
17.14.060 Asbestos NESHAP Activity Permits
17.14.080 Open Burning Permits

Chapter 17.16 – Emission Limiting Standards
17.16.010 Local Rules and Standards – Applicability of More Than One Standard
17.16.020 Noncompliance with Applicable Standards
17.16.030 Odor Limiting Standards
17.16.040 Visible Emission Standards - Standards and Applicability (Includes NESHAP)
17.16.050 Visibility Limiting Standard
17.16.130 Applicability
17.16.160 Standards of Performance for Fossil-Fuel Fired Steam Generators and General Fuel Burning Equipment
17.16.165.E Standards of Performance for Fossil-Fuel Fired Industrial and Commercial Equipment - (Sulfur Dioxide Limitation)
17.16.170 Incinerators
17.16.230 Standards of Performance for Storage Vessels for Petroleum Liquids
17.16.340 Standards of Performance for Stationary Rotating Machinery
17.16.400 Organic Solvents and Other Organic Materials (Sections A and C)
17.16.430 Standards of Performance for Unclassified Sources (Subpart D and F)
17.16.490 Standards of Performance for New Stationary Sources (NSPS)
   - (5. Subpart Dc)
   - (43. Subpart GG)
   - (84. Subpart IIII)
   - (85. Subpart JJJJ)
   - (86. Subpart KKKK)
17.16.510 Standards of Performance for Incinerators
17.16.530 Subsection A
   – (8. Subpart M – Asbestos)
17.16.530 Subsection B
   – (83. Subpart ZZZZ – Stationary Reciprocating Internal Combustion Engines)
17.16.710 Sale and use of Refrigerant Substitutes

Chapter 17.20 – Emission Source Testing and Monitoring
17.20.010 Source Sampling, Monitoring, and Testing

Chapter 17.24 – Emission Source Recordkeeping and Reporting
17.24.020 Recordkeeping for compliance determination.
17.24.030 Recordkeeping for emission inventories
17.24.040 Reporting for compliance evaluations
17.24.050 Reporting as a permit requirement
17.24.060 Reporting for emission inventories

Article IV – Penalty for noncompliance (inclusive)

Chapter 17.28 – Violations and Conditional Orders
Article I – Violations (inclusive)
Article II – Conditional Orders (inclusive)
Article III – Circumvention (inclusive)
### ATTACHMENT 2: EQUIPMENT LIST

#### TABLE 1: NSPS Small Industrial-Commercial-Institutional-Steam Generating Units (Part B, Category A)

<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>Equipment ID</th>
<th>Primary Fuel</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Serial Number</th>
<th>Maximum Rated Capacity (MMBtu/hr)</th>
<th>Model year/Applicability Date¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler</td>
<td>460303</td>
<td>Natural Gas</td>
<td>Rentech</td>
<td>860</td>
<td>2001-07</td>
<td>59.52</td>
<td>2001</td>
</tr>
<tr>
<td>Boiler</td>
<td>460304</td>
<td>Natural Gas</td>
<td>Rentech</td>
<td>860</td>
<td>2001-09</td>
<td>59.52</td>
<td>2001</td>
</tr>
<tr>
<td>Boiler</td>
<td>460305</td>
<td>Natural Gas</td>
<td>Combustion Engineering</td>
<td>CE Type VU-10</td>
<td>N/A</td>
<td>67.50</td>
<td>2002</td>
</tr>
<tr>
<td>Boiler</td>
<td>460307</td>
<td>Natural Gas</td>
<td>Miura</td>
<td>LX-300 SG</td>
<td>48S414008U</td>
<td>11.54</td>
<td>2014</td>
</tr>
<tr>
<td>Boiler</td>
<td>460308</td>
<td>Natural Gas</td>
<td>Miura</td>
<td>LX-300 SG</td>
<td>48S414025U</td>
<td>11.54</td>
<td>2014</td>
</tr>
<tr>
<td>Boiler</td>
<td>460309</td>
<td>Natural Gas</td>
<td>Miura</td>
<td>LX-300 SG</td>
<td>48S414026U</td>
<td>11.54</td>
<td>2014</td>
</tr>
<tr>
<td>Boiler</td>
<td>2050208</td>
<td>Natural Gas</td>
<td>Rentech</td>
<td>860</td>
<td>2001-05</td>
<td>42.20</td>
<td>2001</td>
</tr>
<tr>
<td>Boiler</td>
<td>2050209</td>
<td>Natural Gas</td>
<td>Rentech</td>
<td>860</td>
<td>2001-03</td>
<td>42.20</td>
<td>2001</td>
</tr>
<tr>
<td>Boiler</td>
<td>2050210</td>
<td>Natural Gas</td>
<td>English Boiler &amp; Tube, Inc.</td>
<td>50 DS 250</td>
<td>27033</td>
<td>60.10</td>
<td>2008</td>
</tr>
</tbody>
</table>

¹ The most recent date of order, manufacture, reconstruction, or modification.

#### TABLE 2: NSPS Stationary Gas Turbines (Part B, Category B)

<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>Equipment ID</th>
<th>Primary Fuel</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Serial Number</th>
<th>Maximum Rated Capacity (MW)</th>
<th>Date of Manufacture</th>
<th>Emission Limit CFR §60.332(a)(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbine</td>
<td>460306</td>
<td>Natural Gas</td>
<td>Taurus</td>
<td>T70S</td>
<td>OHB19-B6814</td>
<td>7</td>
<td>2001</td>
<td>212 PPM</td>
</tr>
</tbody>
</table>

#### TABLE 3: Non-Emergency NSPS & NESHAP Compression Ignition Internal Combustion Engines (ICE) (Part B, Categories C or F)

<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>Equipment ID</th>
<th>Primary Fuel</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Serial Number</th>
<th>Maximum Rated Capacity¹</th>
<th>Model year/Applicability Date²</th>
<th>Voluntary Operating Hours Limit (hrs/yr)</th>
<th>NESHAP Subpart.ZZZ.ZZZ Applicability, Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generator</td>
<td>1740101</td>
<td>Diesel</td>
<td>MQ Power Whisper Quiet</td>
<td>DCA45USI</td>
<td>8200371</td>
<td>38.2 HP</td>
<td>2004</td>
<td>1500</td>
<td>Y, Cat. F</td>
</tr>
</tbody>
</table>

¹ Maximum Rate Capacity listed in kilowatts, unless noted otherwise.

² The most recent date of order, manufacture, reconstruction, or modification.
TABLE 4: Emergency CI (NSPS and Local Requirement) Engines (Part B, Categories D or G)

<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>Equipment ID</th>
<th>Primary Fuel</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Serial Number</th>
<th>Maximum Rated Capacity</th>
<th>Model year/Applicability Date</th>
<th>Voluntary Operating Hours Limit (hrs/yr)</th>
<th>NSPS Subpart IIII Applicability Y/N, Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Generator</td>
<td>45A-4</td>
<td>Diesel</td>
<td>Cummins</td>
<td>QSX15-G9</td>
<td>79740396</td>
<td>475 HP</td>
<td>2014</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>Spare 2</td>
<td>Diesel</td>
<td>Olympian</td>
<td>D200P4</td>
<td>OLY0000000L N800475</td>
<td>200</td>
<td>2002</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>Spare 7</td>
<td>Diesel</td>
<td>Caterpillar</td>
<td>XQ60</td>
<td>E5M00771</td>
<td>98 HP</td>
<td>2008</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>40105</td>
<td>Diesel</td>
<td>Kohler</td>
<td>50R0ZJ71</td>
<td>289529</td>
<td>55</td>
<td>1993</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>290001</td>
<td>Diesel</td>
<td>Generac</td>
<td>96A02642-S</td>
<td>2028042</td>
<td>10</td>
<td>1996</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>340102</td>
<td>Diesel</td>
<td>Caterpillar</td>
<td>C4.4</td>
<td>N600831</td>
<td>132 HP</td>
<td>10/2019</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>45B0001</td>
<td>Diesel</td>
<td>Cummins</td>
<td>QSB7-G5 NR3</td>
<td>73406031</td>
<td>242</td>
<td>2012</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>4700001</td>
<td>Diesel</td>
<td>Kohler</td>
<td>6359T (Engine)</td>
<td>T06059T308972 (Engine)</td>
<td>100 (134 HP)</td>
<td>1990</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>550103</td>
<td>Diesel</td>
<td>Caterpillar (Generator and Engine)</td>
<td>C15</td>
<td>FSE02883</td>
<td>350</td>
<td>2009</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>670112</td>
<td>Diesel</td>
<td>Caterpillar</td>
<td>C6.6</td>
<td>E6L00732</td>
<td>175</td>
<td>May 7, 2013</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>730104</td>
<td>Diesel</td>
<td>Kohler</td>
<td>KTTA19GS1</td>
<td>D8900232504</td>
<td>450</td>
<td>1985</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>730105</td>
<td>Diesel</td>
<td>Caterpillar</td>
<td>R43-CD</td>
<td>G5X00092</td>
<td>1750</td>
<td>2007</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>730106</td>
<td>Diesel</td>
<td>Kohler</td>
<td>60R0ZJ71</td>
<td>262596</td>
<td>33</td>
<td>1990</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>760102 (Spare 8)</td>
<td>Diesel</td>
<td>Caterpillar</td>
<td>C6.6</td>
<td>E6M02060</td>
<td>230 HP</td>
<td>2010</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>760103</td>
<td>Diesel</td>
<td>Caterpillar</td>
<td>D150-8</td>
<td>CAT00C66JN6D 01616</td>
<td>220 HP</td>
<td>2010</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>770101</td>
<td>Diesel</td>
<td>Cummins</td>
<td>500FDR7116JJW</td>
<td>PA-19-50676-1/27-5</td>
<td>250</td>
<td>1986</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
</tbody>
</table>

1. Maximum Rate Capacity listed in kilowatts, unless noted otherwise.
2. The most recent date of order, manufacture, reconstruction, or modification.
<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>Equipment ID</th>
<th>Primary Fuel</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Serial Number</th>
<th>Maximum Rated Capacity</th>
<th>Model year/Applicability Date</th>
<th>Voluntary Operating Hours Limit (hrs/yr)</th>
<th>NSPS Subpart III Applicability Y/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Generator</td>
<td>900001</td>
<td>Diesel</td>
<td>Caterpillar (Generator and Engine)</td>
<td>C15</td>
<td>C5E02719</td>
<td>689 HP</td>
<td>2010</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>90101</td>
<td>Diesel</td>
<td>Caterpillar</td>
<td>TBD</td>
<td>TBD</td>
<td>69 hp</td>
<td>TBD</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1010103</td>
<td>Diesel</td>
<td>Caterpillar</td>
<td>SR4-3406</td>
<td>6HF00351</td>
<td>275</td>
<td>1990</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1030111</td>
<td>Diesel</td>
<td>Kohler</td>
<td>50R0271</td>
<td>222084</td>
<td>50</td>
<td>1988</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1040206</td>
<td>Diesel</td>
<td>Onan</td>
<td>1250DVD15R</td>
<td>H850774146</td>
<td>125</td>
<td>1986</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1060101</td>
<td>Diesel</td>
<td>Caterpillar</td>
<td>3406B SR4</td>
<td>79F00428</td>
<td>300</td>
<td>1990</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1070101</td>
<td>Diesel</td>
<td>Katolite</td>
<td>D500FRX4</td>
<td>XJ3801465-K-3854</td>
<td>500</td>
<td>1992</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1080106</td>
<td>Diesel</td>
<td>Katolite</td>
<td>D300FRZ4</td>
<td>WK3726615</td>
<td>300</td>
<td>1991</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1130302</td>
<td>Diesel</td>
<td>Caterpillar</td>
<td>C9</td>
<td>S9L03579</td>
<td>480 HP</td>
<td>2010</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1200101</td>
<td>Diesel</td>
<td>Cutler Hammer</td>
<td>432RSL4015 (Generator)</td>
<td>WA-GM06616-01-0994 Type RSL (Generator)</td>
<td>200</td>
<td>1996</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1310001</td>
<td>Diesel</td>
<td>John Deere</td>
<td>6068HF485T</td>
<td>0G3639</td>
<td>297 HP</td>
<td>2010</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1320001</td>
<td>Diesel</td>
<td>Iveco</td>
<td>F3BE9685A-E</td>
<td>OH2052</td>
<td>560 HP</td>
<td>2010</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1370001</td>
<td>Diesel</td>
<td>Cummins</td>
<td>QSL9-G7 NR3</td>
<td>S73618948</td>
<td>300 kW (464 HP)</td>
<td>2013</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1580001</td>
<td>Diesel</td>
<td>Kohler</td>
<td>250R007D71</td>
<td>364350</td>
<td>250</td>
<td>1996</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1760103</td>
<td>Diesel</td>
<td>Caterpillar (Generator &amp; Engine)</td>
<td>C4.4ACERTTA (Engine)</td>
<td>E5M00551 (Engine)</td>
<td>100 (156.9 HP)</td>
<td>May 14, 2008</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>2030101</td>
<td>Diesel</td>
<td>Caterpillar (Generator &amp; Engine)</td>
<td>C32PDGCD-1000EKW</td>
<td>PH08166</td>
<td>1,483 HP</td>
<td>2019</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>2050211</td>
<td>Diesel</td>
<td>Caterpillar</td>
<td>C15</td>
<td>FSE03601</td>
<td>645</td>
<td>2010</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>2010407</td>
<td>Diesel</td>
<td>Caterpillar</td>
<td>C32</td>
<td>PRH04058</td>
<td>1000 kW (1,474 HP)</td>
<td>Oct 21, 2013</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>460205</td>
<td>Diesel</td>
<td>Caterpillar</td>
<td>TBD</td>
<td>TBD</td>
<td>600</td>
<td>2011</td>
<td>100</td>
<td>Y, Cat. D</td>
</tr>
</tbody>
</table>

1. Maximum Rate Capacity listed in kilowatts, unless noted otherwise.
2. The most recent date of order, manufacture, reconstruction, or modification.
### TABLE 5: Spark Ignition Internal Combustion Engines (Part B, Categories E or G)

<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>Equipment ID</th>
<th>Primary Fuel</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Serial Number</th>
<th>Maximum Rated Capacity</th>
<th>Model year/Applicability Date</th>
<th>Voluntary Operating Hours Limit (hrs/yr)</th>
<th>NSPS Subpart JJJJ Applicability Y/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Generator</td>
<td>Spare 5</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>115R72</td>
<td>435510</td>
<td>110</td>
<td>1976</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>20805</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>30R82</td>
<td>293726</td>
<td>30</td>
<td>1972</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>50109</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>10RM82</td>
<td>62606</td>
<td>10</td>
<td>1978</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>70105</td>
<td>Natural Gas</td>
<td>Generac</td>
<td>09428-5 (Engine)</td>
<td>3152386 (Engine)</td>
<td>8</td>
<td>2000</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>170608</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>200RZD</td>
<td>0677238</td>
<td>205</td>
<td>2001</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>310111</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>10R82</td>
<td>062108</td>
<td>10</td>
<td>1978</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>370101</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>170R82</td>
<td>354006</td>
<td>170</td>
<td>1975</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>440001</td>
<td>Natural Gas</td>
<td>Caterpillar</td>
<td>ZBA0014 63516LE</td>
<td>SR4B</td>
<td>1040</td>
<td>2006</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>500103</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>20R82</td>
<td>62077</td>
<td>20</td>
<td>1978</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>520106</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>20R82</td>
<td>62074</td>
<td>20</td>
<td>1978</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>540101</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>15R82</td>
<td>330317</td>
<td>15</td>
<td>1972</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>550102</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>250R72</td>
<td>413893</td>
<td>250</td>
<td>1976</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>590110</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>30RZ82</td>
<td>59240</td>
<td>30</td>
<td>1978</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>630004</td>
<td>Natural Gas</td>
<td>Generac</td>
<td>3991750200</td>
<td>2076801</td>
<td>70</td>
<td>2004</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>630104</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>55R82</td>
<td>436724</td>
<td>50kW</td>
<td>1976</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>650304</td>
<td>Natural Gas</td>
<td>Generac</td>
<td>91A03104-S</td>
<td>2000390</td>
<td>20</td>
<td>1992</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>670111</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>45R82</td>
<td>272394</td>
<td>45</td>
<td>1972</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>680108</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>GGHD-3385225</td>
<td>A000044019</td>
<td>100</td>
<td>2000</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
</tbody>
</table>

1. Maximum Rated Capacity listed in kilowatts, unless noted otherwise.
2. The most recent date of order, manufacture, reconstruction, or modification.
TABLE 5: Spark Ignition Internal Combustion Engines (Part B, Category E or G) - continued

<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>Equipment ID</th>
<th>Primary Fuel</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Serial Number</th>
<th>Max Rated Capacity(^1)</th>
<th>Model year/Applicability Date(^2)</th>
<th>Voluntary Operating Hours Limit (hrs/yr)</th>
<th>NSPS Subpart JJJJ Applicability Y/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Generator</td>
<td>690101</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>30R82</td>
<td>305544</td>
<td>30</td>
<td>1972</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>700101</td>
<td>Natural Gas</td>
<td>Stamford</td>
<td>GTA1462 (Engine)</td>
<td>12006745 (Engine)</td>
<td>280</td>
<td>2001</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>790104</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>30RZ82</td>
<td>58696</td>
<td>30</td>
<td>1978</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>830107</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>30RZ82</td>
<td>59243</td>
<td>30</td>
<td>1978</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>880002</td>
<td>Natural Gas</td>
<td>Generac</td>
<td>2588320100</td>
<td>2069026</td>
<td>100</td>
<td>2002</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>880104</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>45R82 78123B29</td>
<td>308023</td>
<td>45</td>
<td>1972</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>890101</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>15RM82</td>
<td>292617</td>
<td>15</td>
<td>1978</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>890102</td>
<td>Natural Gas</td>
<td>Olympian</td>
<td>G25LTA</td>
<td>4G64S4M</td>
<td>25</td>
<td>March 27, 2013</td>
<td>100</td>
<td>Y, Cat. E</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>920207</td>
<td>Natural Gas</td>
<td>Cummins</td>
<td>UC1274D/14</td>
<td>375242</td>
<td>100</td>
<td>1992</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>940001</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>45R82</td>
<td>301350</td>
<td>45</td>
<td>1972</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>940405</td>
<td>Natural Gas</td>
<td>Stamford (New Age)</td>
<td>GTA855G1 (Engine)</td>
<td>25292829 (Engine)</td>
<td>185</td>
<td>2005</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>950001</td>
<td>Natural Gas</td>
<td>Energy Dynamics</td>
<td>EDI250NLC</td>
<td>207723</td>
<td>250</td>
<td>2002</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>960102</td>
<td>Natural Gas</td>
<td>Caterpillar</td>
<td>G13.3</td>
<td>EK130A16180</td>
<td>274 HP</td>
<td>2010</td>
<td>100</td>
<td>Y, Cat. E</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1000101</td>
<td>Natural Gas</td>
<td>Onan</td>
<td>GGFB3387825</td>
<td>R000061634</td>
<td>35</td>
<td>2000</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1170202</td>
<td>Natural Gas</td>
<td>Cummins Generator with Ford Engine</td>
<td>WSF-1068 (engine)</td>
<td>E182A300708 212028</td>
<td>131.1 kW 176 hp</td>
<td>July 30, 2008</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1180101</td>
<td>Natural Gas</td>
<td>Generac</td>
<td>94A05936-S</td>
<td>2017719</td>
<td>60</td>
<td>1995</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1190206</td>
<td>Natural Gas</td>
<td>Stamford</td>
<td>GTA28 (Engine)</td>
<td>25199549 (Engine)</td>
<td>375</td>
<td>1996</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1810001</td>
<td>Natural Gas</td>
<td>Cummins</td>
<td>GGHG-5563083</td>
<td>F020381388</td>
<td>85</td>
<td>2003</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>1820001</td>
<td>Natural Gas</td>
<td>Cummins</td>
<td>GGHG-5585111</td>
<td>K020435538</td>
<td>85</td>
<td>2003</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
</tbody>
</table>

1. Maximum Rated Capacity listed in kilowatts, unless noted otherwise.
2. The most recent date of order, manufacture, reconstruction, or modification.
### TABLE 5: Spark Ignition Internal Combustion Engines (Part B, Category E or G) – continued

<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>Equipment ID</th>
<th>Primary Fuel</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Serial Number</th>
<th>Maximum Rated Capacity</th>
<th>Model year/Applicability Date</th>
<th>Voluntary Operating Hours Limit (hrs/yr)</th>
<th>NSPS Subpart JJJJ Applicability Y/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Generator</td>
<td>2020001</td>
<td>Natural Gas</td>
<td>Cummins</td>
<td>GGHH5699478</td>
<td>L040727899</td>
<td>100</td>
<td>2006</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>2220105</td>
<td>Natural Gas</td>
<td>Cummins</td>
<td>GTA28 (Engine)</td>
<td>25Z10168 (Engine)</td>
<td>515</td>
<td>1996</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>2400001</td>
<td>Natural Gas</td>
<td>Caterpillar</td>
<td>SR4B</td>
<td>2DM02272</td>
<td>1040</td>
<td>2006</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>2400002</td>
<td>Natural Gas</td>
<td>Caterpillar</td>
<td>SR4B</td>
<td>2DM02273</td>
<td>1040</td>
<td>2006</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>2410001</td>
<td>Natural Gas</td>
<td>Caterpillar</td>
<td>SR4B</td>
<td>2DM02332</td>
<td>1040</td>
<td>2006</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>180B0002</td>
<td>Natural Gas</td>
<td>Onan</td>
<td>GGKD-5668125</td>
<td>C040615971</td>
<td>150</td>
<td>2001</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>4680001</td>
<td>Natural Gas</td>
<td>Kohler</td>
<td>8.5 RMY</td>
<td>0634522</td>
<td>10</td>
<td>2006</td>
<td>100</td>
<td>N, Cat. G</td>
</tr>
</tbody>
</table>

1. Maximum Rated Capacity listed in kilowatts, unless noted otherwise.
2. The most recent date of order, manufacture, reconstruction, or modification.

### TABLE 6: Fossil-Fuel Fired Industrial and Commercial Equipment (Boilers, not subject to NSPS, Part B, Category H)

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>Equipment ID</th>
<th>Primary Fuel</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Serial Number</th>
<th>Maximum Rated Capacity (MMBtu/hr)</th>
<th>Date of Manufacture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler</td>
<td>170004</td>
<td>Natural Gas</td>
<td>Parker</td>
<td>50L</td>
<td>52560</td>
<td>1.995</td>
<td>Unknown</td>
</tr>
<tr>
<td>Boiler</td>
<td>850105</td>
<td>Natural Gas</td>
<td>Parker</td>
<td>WH-3000</td>
<td>38510</td>
<td>3.000</td>
<td>1990</td>
</tr>
<tr>
<td>Boiler</td>
<td>142001</td>
<td>Natural Gas</td>
<td>Daikin</td>
<td>RPS110DLAS6</td>
<td>FBOU18110104</td>
<td>1.25</td>
<td>November 23, 2018</td>
</tr>
<tr>
<td>Boiler</td>
<td>142002</td>
<td>Natural Gas</td>
<td>Daikin</td>
<td>RPS110DLAS6</td>
<td>FBOU181101568</td>
<td>1.25</td>
<td>November 23, 2018</td>
</tr>
<tr>
<td>Boiler</td>
<td>1080201</td>
<td>Natural Gas</td>
<td>Parker</td>
<td>T1730R</td>
<td>961429</td>
<td>1.730</td>
<td>1999</td>
</tr>
<tr>
<td>Boiler</td>
<td>1080202</td>
<td>Natural Gas</td>
<td>Parker</td>
<td>T1730R</td>
<td>N/A</td>
<td>1.730</td>
<td>1999</td>
</tr>
<tr>
<td>Boiler</td>
<td>1170304</td>
<td>Natural Gas</td>
<td>Parker</td>
<td>WH2650</td>
<td>57486</td>
<td>2.65</td>
<td>2006</td>
</tr>
<tr>
<td>Boiler</td>
<td>1180002</td>
<td>Natural Gas</td>
<td>Raypak</td>
<td>H3-1631A-CECRAA</td>
<td>9312112040</td>
<td>1.63</td>
<td>1995</td>
</tr>
<tr>
<td>Boiler</td>
<td>1310102</td>
<td>Natural Gas</td>
<td>Parker</td>
<td>WH1210</td>
<td>59661</td>
<td>1.21</td>
<td>2009</td>
</tr>
<tr>
<td>Boiler</td>
<td>1320002</td>
<td>Natural Gas</td>
<td>Parker</td>
<td>WH2270</td>
<td>59648</td>
<td>2.27</td>
<td>2009</td>
</tr>
<tr>
<td>Boiler</td>
<td>1510103</td>
<td>Natural Gas</td>
<td>Parker</td>
<td>WH1210</td>
<td>60782</td>
<td>1.210</td>
<td>2012</td>
</tr>
<tr>
<td>Boiler</td>
<td>1760101</td>
<td>Natural Gas</td>
<td>Parker</td>
<td>T2160R</td>
<td>50650</td>
<td>2.160</td>
<td>1999</td>
</tr>
</tbody>
</table>

1. These units are located at Hillenbrand Pool, Building 96A.
2. Although the individual capacities of these boilers are below 1 MMBtu/hr, they are listed because they can be operated simultaneously and the combined capacity is greater than 1 MMBtu/hr.
### TABLE 7: Pathological Incinerator (Part B, Category I)

<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>Equipment ID</th>
<th>Primary Fuel</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Serial Number</th>
<th>Date of Manufacture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incinerator</td>
<td>1010102</td>
<td>Natural Gas</td>
<td>International</td>
<td>300CA</td>
<td>89225</td>
<td>1989</td>
</tr>
</tbody>
</table>

### TABLE 8: Paint Spray Booths (Part B, Category J)

<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>Equipment ID</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Serial Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facilities Management Paint Spray Booth</td>
<td>206A0001</td>
<td>Custom Equipment</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TABLE 9: NSPS Stationary Combustion Turbines (Part B, Category K)

<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>Equipment ID</th>
<th>Primary Fuel</th>
<th>Manufacturer</th>
<th>Model1</th>
<th>Serial Number</th>
<th>Maximum Rated Capacity (MMBtu/hr)</th>
<th>Date of Manufacture</th>
<th>Emission Limit CFR §60.4320(a)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbine</td>
<td>2050301</td>
<td>Natural Gas</td>
<td>Solar</td>
<td>Taurus 60-7801S (T-60)</td>
<td>OHH15-T4948</td>
<td>55.79</td>
<td>11/15/2015 2</td>
<td>42 PPM</td>
</tr>
</tbody>
</table>

1 The last digit of this model number corresponds to the number of engine shafts; however, Solar provides engine data for each type of engine and does not differentiate data based on number of shafts. Therefore, the engine data provided for Model Number 60-7800S in the permit revision to incorporate the modified turbine engine corresponds to this engine.

2 The turbine engine was modified on 11/15/2015. The original date of manufacture was 2001.
## ATTACHMENT 3 – Summary of Monitoring, Recordkeeping, and Reporting Requirements

<table>
<thead>
<tr>
<th>Condition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part A: General Provisions</strong></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Permit Posting &amp; Equipment Identification</td>
</tr>
<tr>
<td>12</td>
<td>General Recordkeeping</td>
</tr>
<tr>
<td>15, 16</td>
<td>Amendment, Revision, Facility Change</td>
</tr>
<tr>
<td>22</td>
<td>Other Required Activity Permits</td>
</tr>
<tr>
<td>13</td>
<td>General Reporting and Notifications</td>
</tr>
<tr>
<td>11</td>
<td>Excess Emissions and Emergency Reporting</td>
</tr>
<tr>
<td>17</td>
<td>Testing Notifications and Reports (if applicable)</td>
</tr>
</tbody>
</table>

### §4 – Category A – NSPS Subpart Db – Small – Institutional – Steam Generating Units

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>§42</td>
<td>No opacity monitoring</td>
</tr>
<tr>
<td>§43 - 45</td>
<td>Fuel Records, Retention, Total Natural Gas delivered to each unit in Bldg.(s) 46 and 205</td>
</tr>
<tr>
<td>§47</td>
<td>Annual report of amount of natural gas combusted in each boiler set.</td>
</tr>
</tbody>
</table>

### §5: Category B – NSPS Subpart GG, Stationary Gas Turbines

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>54 - 56</td>
<td>Natural Gas only, startup, shutdown or malfunction records, record retention of gas turbine identified in Table 2, Attachment 2</td>
</tr>
<tr>
<td>56</td>
<td>Copy, upon request, of the current ISO corrected NOx emission factor calculated from the most recent performance test results.</td>
</tr>
</tbody>
</table>

### §6: Category C: [Reserved] – NSPS Subpart IIII, CI ICE – Non-emergency Engines

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>Revision Required for NSPS ICE non-emergency engines <em>(See Summary for Engines</em>)</td>
</tr>
</tbody>
</table>

### §7: Category D – NSPS Subpart IIII, CI ICE Emergency (non-fire-pump)

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>76</td>
<td>Monitoring and Recordkeeping <em>(See Summary for Engines)</em></td>
</tr>
</tbody>
</table>

### §8: Category E – NSPS Subpart JJJJ – SI ICE Emergency MFG after January 1, 2009 > 25 Hp

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>84</td>
<td>Monitoring and Recordkeeping; No opacity monitoring <em>(See Summary for Engines)</em></td>
</tr>
</tbody>
</table>

### §9: Category F – NESHAP Subpart ZZZZ – CI RICE Non-emergency < 300 Hp

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>94-95</td>
<td>Monitoring and Recordkeeping <em>(See Summary for Engines)</em></td>
</tr>
</tbody>
</table>

### §10: Category G – PCC 17.16.340 – ICE

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>105</td>
<td>Monitoring and Recordkeeping <em>(See Summary for Engines)</em></td>
</tr>
<tr>
<td>107</td>
<td>Reports of any daily period that fuel fired exceeds 0.8 percent S.</td>
</tr>
</tbody>
</table>

1 *Summary for Engines* – Monitoring and Reporting Continued on Next Page
### Summary for Engines (Category’s C, D, E, F, & G)

The following is a summary of monitoring, recordkeeping and reporting for permitted engines which shall be made available for review by the Control Officer upon request (as applicable):

<table>
<thead>
<tr>
<th>Condition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Run hour records:</td>
<td>[All Engine Categories]</td>
</tr>
<tr>
<td>60, 76.a, 95.a, 76.b, 105.d</td>
<td>a) 12-consecutive month totals for subject engines. [All Engine Categories]</td>
</tr>
<tr>
<td>76.a.ii</td>
<td>b) Records of 12 consecutive month hours emergency and non-emergency service engines for applicable engines in the size and date ranges Table C of Category D that do not meet the requirements in Table A of Category D. [Category D Engines]</td>
</tr>
<tr>
<td>60, 73, 82</td>
<td>2) Compliance with installation restrictions [Category C, D, &amp; E Engines]</td>
</tr>
<tr>
<td>60, 76.b.</td>
<td>3) Manufacturer Certifications: Identification of engines for which manufacturer’s Certification meeting the standards are on file. [Category C, D, &amp; E Engines]</td>
</tr>
<tr>
<td>60.e, 76.c</td>
<td>4) Diesel Fuel Certifications: Summary of fuel deliveries, and copy of a fuel supplier specification or delivery receipt showing diesel fuel delivered meets the fuel specifications. [Category C &amp; D Engines]</td>
</tr>
<tr>
<td>60, 76.d, 95.d, 105.b.ii</td>
<td>5) Dates of any abnormal emissions during VE checks, and Method 9 VE’s (if required) for liquid fueled engines. Documentation of VE certification for observers. [Category C, D, F &amp; G Engines]</td>
</tr>
<tr>
<td>60, 75.b, 83.b, 95.b</td>
<td>6) Maintenance Records Demonstrating, the following: [Category C, D, E, F Engines]</td>
</tr>
<tr>
<td>60, 75.b, 95.b</td>
<td>a) Maintained in accord with manufacturer’s written instructions; or</td>
</tr>
<tr>
<td>60, 75.b, 95.b</td>
<td>b) Copy of approved manufacturer O &amp; M Plan or developed and approved an O &amp; M Plan to meet management practices; [Category C &amp; D, F engines (option to above)]</td>
</tr>
<tr>
<td>84.b, 95.b.iii</td>
<td>c) Records of dates and description of maintenance conducted: [Category E &amp; F Engines]</td>
</tr>
<tr>
<td>95.e.iii</td>
<td>d) Records of each occurrence, measurement, maintenance, corrective action, report or record (management practices). [Category F Engines]</td>
</tr>
<tr>
<td>105.a</td>
<td>e) Consistent with good APC practices and consistent with manufacturer’s guidelines [Category G Engines]</td>
</tr>
<tr>
<td>107</td>
<td>7) Any daily period during which the sulfur content of the fuel being fired in the diesel fired engines exceeds 0.8 percent.</td>
</tr>
</tbody>
</table>

### § 11: Category H – PCC 17.16.165 – Fossil Fuel Fired Industrial and Commercial Equipment

113 1) Certification statement (Tariff Agreement); or
2) Records demonstrating Natural Gas was the only fuel fired in the units listed in Table 5

### § 12: Category I – Local Standards – PCC 17.16.170 – Pathological Incinerator

125 1) Days Operated; VE checks, records of corrective actions if VE abnormal;
2) Percent of pathological waste incinerated during previous 2 quarters
3) copy of most recent operating log entry, and statement that logs are being maintained.
<table>
<thead>
<tr>
<th>§ 13: Category J – Local Standards – PCC 17.16.400 – Surface Coating &amp; Solvent Degreasing Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>133</td>
</tr>
<tr>
<td>Copy of the manufacturer’s data and specification and arrestance rating of paint spray booth filters, and summary log of maintenance or filter change-outs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>§ 14: Category K – NSPS Subpart KKKK – Combustion Turbines</th>
</tr>
</thead>
<tbody>
<tr>
<td>143 - 144</td>
</tr>
<tr>
<td>1) Periodic performance test results; and</td>
</tr>
<tr>
<td>2) Gas transport tariff agreement – specification of maximum sulfur content</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>143, 145</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Submit written report of performance test results in accordance with Condition 17.g</td>
</tr>
<tr>
<td>2) Compliance statement, date of most recent performance test and results, if results indicate less than 75% of 42 ppm limit @ 15% O2; or 250 ng/J (2.0 lb/MW-hr); emission factor.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>§ 15: Category L – General Facility-Wide Specific Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>150-151</td>
</tr>
<tr>
<td>Monitoring and Recordkeeping</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>152</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit Semiannual Compliance Certification Reports</td>
</tr>
<tr>
<td>Submit Semiannual Report of Required Monitoring</td>
</tr>
<tr>
<td>Submit Annual Emission Inventory Report</td>
</tr>
</tbody>
</table>