GENERAL PERMIT TO OPERATE AND/OR CONSTRUCT
As required by Title 49, Chapter 3, Article 2, Section 49-480, Arizona Revised Statutes
and Maricopa County Air Pollution Control Regulations

for

WASTEWATER TREATMENT PLANTS

This air quality permit to operate and/or construct does not relieve the applicant of the responsibility of meeting all air pollution regulations.

THE PERMITTEE IS SUBJECT TO THE SPECIFIC AND GENERAL CONDITIONS IDENTIFIED IN THIS PERMIT.

ISSUANCE DATE: 03/01/2017               EXPIRATION DATE: 08/31/2026

Philip McNeely, Director, Maricopa County Air Quality Department
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Any cited regulatory paragraphs or section numbers refer to the version of the rules and regulations that were in effect on the first date of public notice of the applicable Permit Condition unless specified otherwise. However, in the event the rules and regulations are amended during the term of this Permit, the amended rules and regulations shall apply to this Permit. Whenever the term, Control Officer, is used in this Permit it shall be interpreted to mean, Control Officer or designated representative. Where the term “Rule” appears, it shall be construed to mean “Maricopa County Air Pollution Control Regulations” unless otherwise noted.

SPECIFIC CONDITIONS

WASTEWATER TREATMENT PLANTS (WWTP)

1. General Permit Eligibility:
   a. Stand-alone drinking water plants that are not attached to a WWTP and do not accept raw sewage are not eligible for this General Permit. However, drinking water processes such as micro filtration, marsh or wetland filtration, reverse osmosis, microbial denitrification, ozone treatment and UV treatment are allowed under this General Permit.
   b. WWTP with the following equipment types or processes may not be constructed or operated under this General Permit:
      i. Biogas and waste gas combustors including, but not limited to, flares, engines, and oxidizers; and
      ii. Fuel burning equipment, such as boilers and heaters.
   c. Potential facility-wide emissions of NO\textsubscript{X} from stationary engines shall not exceed 20.0 tons per year. To demonstrate compliance with this requirement, the Permittee shall comply with the following:
      i. The maximum rating of any stationary emergency engine at the site shall not exceed 3,000 bhp; and
      ii. The Permittee shall either:
         1) Limit the total combined rating of all stationary ICE to no more than 2,580 brake horsepower (bhp); or
         2) Demonstrate that potential combined NO\textsubscript{X} emissions from stationary emergency engines operating 500 hours each per year do not exceed 20.0 tons per year.

2. Opacity:
   Except as indicated elsewhere in these Permit Conditions, the Permittee shall comply with the following requirements for opacity:
   a. No person shall discharge into the ambient air from any single source of emissions any air contaminant, other than uncombined water, in excess of 20% opacity for a period aggregating more than three minutes in any 60-minute period.
   b. If any non-compliant visible emissions (excluding water vapor) are detected or reported, the Permittee shall determine the cause and/or the source of emissions. The Permittee shall then take immediate corrective action(s) and if necessary, shut down the applicable equipment. If visible emissions (excluding water vapor) exceed the above opacity standards subsequent to implementing corrective action(s), the Permittee shall shut down the applicable equipment and institute repairs or changes necessary to ensure compliance prior to resuming operations.
   c. Opacity shall be determined by observations of visible emissions conducted in accordance with EPA Reference Method 9 as modified by EPA Reference Method 203B.

3. Standards:
   a. Hydrogen Sulfide (H\textsubscript{2}S) Limitation: The Permittee shall not emit H\textsubscript{2}S in such a manner or amount that the concentration of such emissions into the ambient air at any occupied place beyond the WWTP property exceeds 0.03 parts per million by volume (ppmv) for any averaging period of 30 minutes or
b. Emission Control System (ECS) Required:
   i. If needed to meet the 0.03 ppmv H$_2$S limitation, the Permittee shall vent sulfurous gases, vapors and gas-entrained effluents without bypass to a scrubbing or filtration system capable of removing sulfurous compounds. Typical ECS which qualify for this General Permit include:
      1) Wet or packed bed scrubbers;
      2) Use of chemical deodorizers such as sodium hydroxide or sodium hypochlorite; and
      3) Carbon adsorption systems.
   ii. The Permittee shall properly install, operate, and maintain in calibration and in good working order, devices for indicating temperatures, pressures, transfer rates, rates of flow, or other operating conditions necessary to determine if the required ECS is functioning properly and is properly maintained as described in an approved Operation and Maintenance (O&M) Plan, in accordance with Permit Condition 6.

4. **Compliance Demonstration:**
   a. The Permittee shall perform a compliance demonstration by conducting a test to monitor H$_2$S levels within 90 days of any of the following events:
      i. Being issued a Permit under this General Permit,
      ii. At the time of renewal of this General Permit,
      iii. The start-up of new ECS equipment,
      iv. The reception of a written request from the Control Officer.
   b. The compliance demonstration shall be performed using a handheld air analyzer with a suitable range (3.0 ppb – 10.0 ppm H$_2$S).
   c. The compliance demonstration shall be performed at a location representing the nearest point beyond the fence, borderline, boundary or property line that exists separating the premises on which the source of H$_2$S is located, from other premises, parcels or properties.
   d. Newly Permitted Sources or Sources with Newly Permitted ECS: The Permittee shall perform an additional compliance demonstration within six (6) months of completing the initial demonstration. If the average H$_2$S concentration is less than 0.03 ppmv in any of the first two demonstrations, the monitoring shall be subsequently conducted every five years, with each permit renewal.
   e. The Permittee shall submit a report within 30 days of completion of each demonstration to the Control Officer, Attn: Compliance Division Manager that details the results of each compliance demonstration.

5. **Compliance Plan:**
   a. In the event of an exceedance of the 0.03 ppmv H$_2$S limitation, as demonstrated by the H$_2$S compliance demonstration of Permit Condition 4, the Permittee shall comply with all of the following:
      i. Submit an application for a Non-Title V permit to the Control Officer.
      ii. Submit a Compliance Plan to the Control Officer (Attn: Compliance Manager), which shall include:
         1) Technological evaluation of ECS or additional ECS,
         2) Additional monitoring and/or air dispersion modeling to determine property line concentration of H$_2$S based on the implementation of selected ECS or ECS additions,
         3) Conceptual design and preliminary cost estimate for the proposed ECS or ECS additions.
4) Schedule for design and construction of the proposed ECS or ECS additions, and
5) Description of recommended actions.

   iii. Conduct the H₂S monitoring described in Permit Condition 4 semi-annually until two consecutive
demonstrations show that H₂S concentrations are below 0.03 ppmv.

b. The Permittee shall complete and submit the permit application and compliance plan to the Control
Officer within 120 days of exceeding the H₂S emission limitation. Both submittals shall be subject to
review by the Control Officer prior to approval. [Rule 220 §303] [Locally Enforceable Only]

6. Operation and Maintenance (O&M) Plan Requirements:
   a. Unless an O&M Plan has been previously submitted and approved, the Permittee shall submit an O&M
Plan for each ECS and each ECS monitoring device required under Permit Condition 3.b to the Control
Officer for approval within 45 days of the initial issuance of this permit, or within 45 days of its startup.
   b. The Permittee shall comply with all identified actions and schedules of the approved O&M Plan and shall
revise the O&M Plan upon the request of the Control Officer and whenever substantive changes are made
to the ECS or associated monitoring equipment.
   c. The O&M Plan shall specify key system operating parameters, such as temperatures, pressures and/or
flow rates, necessary to determine compliance and describe in detail procedures to maintain the approved
emission control system. The Permittee shall monitor, operate and maintain the equipment in accordance
with the device’s approved O&M Plan. At a minimum the plan shall include:

      i. Wet Scrubber: Scrubber system pressure drop, water recirculation rate, pH level and conductivity,
as applicable.
      ii. Carbon Adsorption System: Adsorption temperature, desorption temperature and effluent
concentration.
   d. Changes to an existing O&M Plan shall be made by submitting a complete, revised O&M Plan along
with a cover letter identifying all changes and the reason for such changes. The Permittee may implement
the changes addressed in the revised O&M plan after it submits the revision to the Control Officer. Unless
disapproved in writing by the Control Officer, the Permittee shall continue to operate in accordance with
the revised O&M plan.
   e. If any control device is found to be operating outside a specified range, the Permittee shall immediately
take corrective action to bring the device back into the specified operating range or shut down the device
and the associated equipment vented to it.
   f. If a pattern of excursions, as determined by the Control Officer or the Permittee, of operation outside the
specified operating range develops, the Permittee shall submit for Department approval a Corrective
Action Plan to bring the devices back into the specified operating range. The Plan shall be submitted to
the Control Officer, Attn: Compliance Manager, within 30 days of the determination of the existence of
excursions.
   g. Records for all required ECS shall be maintained and provided in accordance with Permit Condition 7.
[Rule 220 §302.4] [Rule 320 §304]

7. Recordkeeping:
The Permittee shall keep the following records on site and available upon request. The records shall be retained
for 5 years.
   a. The Permittee shall maintain records of any process upsets that would cause the release of H₂S or other
waste gases into the atmosphere. Examples of such upsets would include failure of the blowers in the
recirculation of gases in the aeration process or a catastrophic failure of the biological reactor responsible
for H₂S removal.
b. The Permittee shall retain all records pertaining to the repairs and schedules required to restore the treatment process after upset. The Permittee shall retain records of the operational parameter tests used to ensure proper operation of the process.

c. Monitoring and maintenance records specified in the O&M Plan:

i. Monitoring Records shall consist of an operations log sheet to be completed for every day the process and/or control device is in operation. Operations log sheets shall, at a minimum, contain the following information: equipment identification; date and time of readings; identification of the individual recording the data; operating parameters to be monitored including units of measure, operating limits (upper and lower limits), and locations for recording measurements; measurement frequency; and if applicable, corrective action taken. An explanation shall be recorded for any periods of operation when the control device was not operating.

ii. Maintenance Records shall, at a minimum, contain the following information: equipment identification; date; identification of the individual performing the maintenance check; procedures to be performed including frequency of occurrence; results of inspection; and corrective action taken.

d. Whenever the O&M Plan requires that maintenance be performed, a record shall be made of the maintenance actions taken within 24 hours of maintenance completion.

e. Daily records of the O&M Plan’s key system operating parameters. Account for any periods of operation when the control device was not operating.

f. An explanation shall be recorded for any scheduled maintenance that is not performed during the period designated in the O&M Plan.

g. Records of the compliance demonstration results performed in accordance with Permit Condition 4.

[SIP Rule 220 §§ 302.7, 500] [SIP Rule 100 §504]

STATIONARY EMERGENCY ENGINES

8. Operational Limitations:

a. The Permittee shall limit the operation of the emergency engines to no more than 100 hours each per calendar year for the purposes of maintenance checks and readiness testing.

[SIP Rule 324 §§104.5, 205] [40 CFR §§60.4211(f)(2), 60.4243(d), 63.6640(f)(2)]

b. The Permittee shall limit the total hours of operation of the emergency engines to no more than 500 hours each per any twelve consecutive months including the hours listed in Subsection [a] above.

[SIP Rule 324 §205]

c. The emergency engines shall not be used for peak shaving. The emergency engines shall only be used for the following purposes:

i. For power when normal power service fails from the serving utility or if onsite electrical transmission or onsite power generation equipment fails;

ii. Reliability-related activities such as engine readiness, calibration, or maintenance or to prevent the occurrence of an unsafe condition during electrical system maintenance as long as the total number of hours of the operation for these purposes does not exceed 100 hours per calendar year per engine as evidenced by an installed non-resetting hour meter. Hours of operation during the commissioning period do not count towards the 100 hour per calendar year limit on hours of operation for reliability-related activities though they do count towards the total 500 hour per any twelve consecutive months limit of Permit Condition 8.b;

iii. Emergency pumping of water resulting from a flood, fire, lightning strikes, police action or for any other essential public services which affect the public health and safety;

iv. Sewage overflow mitigation and/or prevention;
v. To operate standby emergency water pumps for fire control that activate when sensors detect low water pressure.

[SIP Rule 324 §104] [40 CFR §§60.4211(f), 60.4243(d), 63.6640(f)(1) - (2)]

9. Fuel Limitations:
   a. The Permittee shall only operate compression ignition (CI) engines using diesel fuel (i.e. fuel oil):
      i. The Permittee shall not use any diesel fuel that contains more than 0.0015% sulfur by weight, alone or in combination with other fuels.
         [Rule 324 §301.1] [40 CFR §§60.4207(b), 80.510(b)]
      ii. For engines subject to NSPS Subpart III, as specified in Permit Condition 14.a, the Permittee shall only use diesel fuel that has a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.
         [40 CFR §§60.4207(b), 80.510(b)]
   b. The Permittee shall only operate spark ignition (SI) engines using gasoline, natural gas or liquefied petroleum gas (LPG):
      i. The Permittee shall not use any gasoline that contains more than 80 ppm sulfur as a per-gallon cap.
      ii. The Permittee shall not use any natural gas or liquefied petroleum gas (LPG) that contains more than 0.05% sulfur by weight, alone or in combination with other fuels.
         [Rule 324 §301]
   c. The Permittee may operate a natural gas fired engine using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations but must keep records of such use.
      [40 CFR §60.4243(e)]

10. Maintenance Requirements:
The Permittee shall comply with one of the following for each stationary engine:
   a. Maintain the engine in accordance with the manufacturer's written instructions;
   b. Maintain the engine in accordance with the maintenance schedule provided by the manufacturer's authorized service provider; or
   c. Conduct preventative maintenance according to the following schedule, including all of the following tuning procedures, if the engine is so equipped, and if such procedures are appropriate to the type of engine:
      i. The following maintenance procedures shall be completed no less frequently than once every 300 hours of operation or at least once every 12 months, whichever comes first:
         1) Clean the inlet air filter (if so equipped);
         2) Change the oil filter; and
         3) Change the lubricating oil or conduct an oil analysis to determine Total Base Number, viscosity, and percent water content. The lubricating oil must be replaced within 2 business days after the analytical results are received if any of the following condemning limits are exceeded:
            a) Total Base Number is less than 30% of the Total Base Number of the oil when new;
            b) Viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or
            c) Percent water content (by volume) is greater than 0.5.
      ii. The following maintenance procedures shall be completed at least once every 12 months:
         1) Check the inlet air filter and replace as necessary;
2) Check all fuel filters and clean as necessary (except cartridge type fuel filters);
3) Check cartridge type fuel filters and replace as necessary;
4) Check and adjust the intake and exhaust valves;
5) Check spark plugs and ignition points and replace as necessary (if so equipped);
6) Check and adjust the spark timing and dwell or fuel injection timing (if adjustable);
7) Check and adjust the carburetor mixture (if adjustable);
8) Check coolant and change as necessary (if so equipped); and
9) Check the exhaust system and repair all leaks and/or restrictions.

[Rule 324 §302] [Locally Enforceable Only]

11. Monitoring:
   a. The Permittee shall install and operate a non-resetting totalizing hour meter.
   b. If the non-resetting totalizing hour meter is found to be malfunctioning, the Permittee shall:
      i. Record hours of operation daily until the function of the hour meter is restored; and
      ii. Restore the function of the hour meter within two weeks. If it is not possible to restore the function of the hour meter within two weeks, the Permittee shall notify the Control Officer in writing and provide a schedule for restoration of the function of the hour meter.

[Rule 324 §306]

12. Opacity:
   a. The Permittee shall not discharge into the ambient air from any single source of emissions any air contaminant, other than uncombined water, in excess of 20% opacity, except as specified in Permit Condition 14.d.
   b. Compliance with visible emissions shall be determined using the techniques specified in EPA Reference Method 9, 40 CFR Part 60, Appendix A.

[SIP Rule 324 §§303, 503.8]

13. New Source Performance Standards:
   a. If the Permittee modifies or reconstructs a stationary compression ignition internal combustion engine after July 11, 2005, that engine shall comply with all applicable requirements of 40 CFR 60 Subpart III.

   [40 CFR §60.4200(a)(3)]
   b. If the Permittee modifies or reconstructs a stationary spark ignition (SI) internal combustion engine after June 12, 2006, that engine shall comply with all applicable requirements of 40 CFR 60 Subpart JJJJ.

   [40 CFR §60.4230(a)(5)]

14. NSPS Subpart IIII Requirements:
   a. Applicability: The following engines are subject to NSPS Subpart III - Standards of Performance for Stationary Compression Ignition (CI) Internal Combustion Engines (ICE):
      i. Any stationary CI ICE that is not a fire pump engine that was ordered after July 11, 2005 and manufactured after April 1, 2006.
      iii. Any stationary emergency CI ICE that was modified or reconstructed after July 11, 2005.

   [40 CFR §60.4200(a)]
   b. Emission Standards: Stationary ICE shall comply with the EPA emission standards in Table 1 or Table 2, as applicable, for the same maximum engine power category and model year:
### Table 1: Emission Standards for Stationary CI ICE, Excluding Fire Pump Engines

<table>
<thead>
<tr>
<th>Maximum Engine Power</th>
<th>Model Year</th>
<th>Nonroad Engine Emission Rating</th>
<th>NMHC + NOX</th>
<th>HC</th>
<th>NOX</th>
<th>CO</th>
<th>PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW&lt;8 (HP&lt;11)</td>
<td>Pre-2007</td>
<td>Tier 1</td>
<td>10.5 (7.8)</td>
<td></td>
<td>8.0 (6.0)</td>
<td>1.0 (0.75)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2007</td>
<td>Tier 2</td>
<td>7.5 (5.6)</td>
<td></td>
<td>8.0 (6.0)</td>
<td>0.80 (0.60)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2008+</td>
<td>Tier 4</td>
<td>7.5 (5.6)</td>
<td></td>
<td>8.0 (6.0)</td>
<td>0.40 (0.30)</td>
<td></td>
</tr>
<tr>
<td>8≤KW&lt;19 (11≤HP&lt;25)</td>
<td>Pre-2007</td>
<td>Tier 1</td>
<td>9.5 (7.1)</td>
<td></td>
<td>6.6 (4.9)</td>
<td>0.80 (0.60)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2007</td>
<td>Tier 2</td>
<td>7.5 (5.6)</td>
<td></td>
<td>6.6 (4.9)</td>
<td>0.80 (0.60)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2008+</td>
<td>Tier 4</td>
<td>7.5 (5.6)</td>
<td></td>
<td>6.6 (4.9)</td>
<td>0.40 (0.30)</td>
<td></td>
</tr>
<tr>
<td>19≤KW&lt;37 (25≤HP&lt;50)</td>
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<td>9.5 (7.1)</td>
<td></td>
<td>5.5 (4.1)</td>
<td>0.80 (0.60)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2007</td>
<td>Tier 2</td>
<td>7.5 (5.6)</td>
<td></td>
<td>5.5 (4.1)</td>
<td>0.60 (0.44)</td>
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<tr>
<td></td>
<td>2008+</td>
<td>Tier 4</td>
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<td>5.5 (4.1)</td>
<td>0.30 (0.22)</td>
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<tr>
<td>37≤KW&lt;75 (50≤HP&lt;100)</td>
<td>Pre-2007</td>
<td>Tier 1</td>
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<td>9.2 (6.9)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2007</td>
<td>Tier 2</td>
<td>7.5 (5.6)</td>
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<td></td>
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<td>4.7 (3.5)</td>
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<td>75≤KW&lt;130 (100≤HP&lt;175)</td>
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<td>130≤KW&lt;560 (175≤HP≤750)</td>
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<td>Tier 1</td>
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<td>9.2 (6.9)</td>
<td>11.4 (8.5)</td>
<td>0.54 (0.40)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2007+</td>
<td>Tier 3</td>
<td>4.0 (3.0)</td>
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<td>3.5 (2.6)</td>
<td>0.2 (0.15)</td>
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<td>9.2 (6.9)</td>
<td>11.4 (8.5)</td>
<td>0.54 (0.40)</td>
<td></td>
</tr>
<tr>
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<td>2007+</td>
<td>Tier 2</td>
<td>6.4 (4.8)</td>
<td></td>
<td>3.5 (2.6)</td>
<td>0.2 (0.15)</td>
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### Table 2: Emission Standards for Stationary CI Fire Pump Engines

<table>
<thead>
<tr>
<th>Maximum engine power</th>
<th>Model years</th>
<th>Emission Rating</th>
<th>NMHC + NOX</th>
<th>CO</th>
<th>PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW&lt;8 (HP&lt;11)</td>
<td>Pre-2011</td>
<td>Tier 1</td>
<td>10.5 (7.8)</td>
<td></td>
<td>8.0 (6.0)</td>
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<tr>
<td></td>
<td>2011+</td>
<td>Tier 4i</td>
<td>7.5 (5.6)</td>
<td></td>
<td>8.0 (6.0)</td>
</tr>
<tr>
<td>8≤KW&lt;19 (11≤HP&lt;25)</td>
<td>Pre-2011</td>
<td>Tier 1</td>
<td>9.5 (7.1)</td>
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<td>6.6 (4.9)</td>
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<td></td>
<td>2011+</td>
<td>Tier 4i</td>
<td>7.5 (5.6)</td>
<td></td>
<td>6.6 (4.9)</td>
</tr>
<tr>
<td>19≤KW&lt;37 (25≤HP&lt;50)</td>
<td>Pre-2011</td>
<td>Tier 1</td>
<td>9.5 (7.1)</td>
<td></td>
<td>5.5 (4.1)</td>
</tr>
<tr>
<td></td>
<td>2011+</td>
<td>Tier 4i</td>
<td>7.5 (5.6)</td>
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<td>5.5 (4.1)</td>
</tr>
<tr>
<td>37≤KW&lt;75 (50≤HP&lt;100)</td>
<td>Pre-2011</td>
<td>---</td>
<td>10.5 (7.8)</td>
<td></td>
<td>5.0 (3.7)</td>
</tr>
<tr>
<td></td>
<td>2011+</td>
<td>Tier 3i</td>
<td>4.7 (3.5)</td>
<td></td>
<td>5.0 (3.7)</td>
</tr>
<tr>
<td>75≤KW&lt;130 (100≤HP&lt;175)</td>
<td>Pre-2010</td>
<td>---</td>
<td>10.5 (7.8)</td>
<td></td>
<td>5.0 (3.7)</td>
</tr>
<tr>
<td></td>
<td>2010–2012</td>
<td>---</td>
<td>10.5 (7.8)</td>
<td></td>
<td>5.0 (3.7)</td>
</tr>
<tr>
<td></td>
<td>2010+</td>
<td>Tier 3i</td>
<td>4.0 (3.0)</td>
<td></td>
<td>3.0 (2.6)</td>
</tr>
<tr>
<td>130≤KW&lt;450 (175≤HP&lt;600)</td>
<td>Pre-2009</td>
<td>---</td>
<td>10.5 (7.8)</td>
<td></td>
<td>3.5 (2.6)</td>
</tr>
<tr>
<td></td>
<td>2009–2011</td>
<td>---</td>
<td>10.5 (7.8)</td>
<td></td>
<td>3.5 (2.6)</td>
</tr>
<tr>
<td></td>
<td>2009+</td>
<td>Tier 3i</td>
<td>4.0 (3.0)</td>
<td></td>
<td>3.0 (2.6)</td>
</tr>
<tr>
<td>Maximum engine power</td>
<td>Model years</td>
<td>Emission Rating</td>
<td>NMHC + NO(_x) (g/KW-hr)</td>
<td>CO (g/KW-hr)</td>
<td>PM (g/KW-hr)</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------</td>
<td>-----------------</td>
<td>-----------------------------</td>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td>450≤KW≤560 (600≤HP≤750)</td>
<td>Pre-2009</td>
<td>---</td>
<td>10.5 (7.8)</td>
<td>3.5 (2.6)</td>
<td>0.54 (0.40)</td>
</tr>
<tr>
<td></td>
<td>2009+</td>
<td>Tier 3(^1)</td>
<td>4.0 (3.0)</td>
<td></td>
<td>0.20 (0.15)</td>
</tr>
<tr>
<td>KW&gt;560 (HP&gt;750)</td>
<td>Pre-2008</td>
<td>---</td>
<td>10.5 (7.8)</td>
<td>3.5 (2.6)</td>
<td>0.54 (0.40)</td>
</tr>
<tr>
<td></td>
<td>2008+</td>
<td>Tier 2(^1)</td>
<td>6.4 (4.8)</td>
<td></td>
<td>0.20 (0.15)</td>
</tr>
</tbody>
</table>

\(^1\) These ratings are more stringent than required for fire pump engines since they include CO standards. They can still be used by the Permittee to verify compliance with the emission standards.

\(^2\) The emission standards for these specified model year ranges only apply to engines in the specified maximum engine power category that have a rated speed greater than 2,650 rpm.

[40 CFR §60.4205]

c. Compliance Demonstration:

i. Pre-2007 model year engines, excluding fire pump engines: The Permittee shall demonstrate compliance with the emission standards specified in Table 1 by one of the following:

1) Purchasing an engine certified to the applicable emission standards for the same maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in 40 CFR §60.4212 and these methods must have been followed correctly.

3) Keeping records of data from the engine manufacturer or control device vendor indicating compliance with the standards.

4) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR §60.4212, as applicable.

ii. 2007 model year and later engines, excluding fire pump engines: Engines shall be certified by the manufacturer to meet the standards specified in Table 1 for the same maximum engine power category and corresponding model year.

iii. For fire pump engines manufactured after the dates in Table 3: the Permittee shall demonstrate compliance with the emission standards specified in Table 2 by one of the methods listed in Subsection [i] of this Permit Condition.

Table 3: Certification Dates for Stationary CI Fire Pump Engines

<table>
<thead>
<tr>
<th>Engine power</th>
<th>Starting model year new fire pump engines must be certified</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW&lt;75 (HP&lt;100)</td>
<td>2011</td>
</tr>
<tr>
<td>75≤KW&lt;130 (100≤HP&lt;175)</td>
<td>2010</td>
</tr>
<tr>
<td>130≤KW&lt;185 (175≤HP&lt;250)</td>
<td>2009</td>
</tr>
</tbody>
</table>

iv. Fire pump engines manufactured after the dates specified in Table 3: Engines shall be certified by the manufacturer to meet the standards specified in Table 2 for the same maximum engine power category and corresponding model year.

[40 CFR §60.4211]

d. Additional Opacity Standard:

For 2007 model year and later engines, the Permittee shall not allow exhaust opacity to exceed 15% during the lugging mode. This restriction does not apply to fire pump engines.

[40 CFR §§60.4205, 60.4202, 89.113(a)(2)]
e. Crankcase Emissions:
For 2007 model year and later engines, the Permittee shall not discharge crankcase emissions into the ambient atmosphere, unless such crankcase emissions are permanently routed into the exhaust and included in all exhaust emission measurements. This provision does not apply to engines using turbochargers, pumps, blowers, or superchargers for air induction or fire pump engines.

[40 CFR §§60.4205, 89.112(e)]

f. The Permittee shall operate and maintain each engine 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.

[40 CFR §§60.4211(a), 60.4206]

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

[40 CFR §60.4211(a)]

h. The Permittee shall meet the requirements of 40 CFR Part 89 as it applies.

[40 CFR §60.4211(a)]

15. NSPS Subpart JJJJ Requirements:

a. Applicability: The following engines listed below are subject to NSPS subpart JJJJ - Standards of Performance for Stationary Spark Ignition (SI) Internal Combustion Engines:

i. Any emergency stationary SI ICE that was ordered after June 12, 2006 and manufactured after January 1, 2009.

ii. Any emergency stationary SI ICE that was modified or reconstructed after June 12, 2006.

[40 CFR 60.4230(a)]

b. Emission Standards: Stationary SI ICE shall be certified by the engine manufacturer to meet the following emission standards:

i. Stationary SI ICE with a maximum engine power less than or equal to 25 HP manufactured on or after July 1, 2008 or that have been modified or reconstructed after June 12, 2006 shall be certified to meet the emission standards and related requirements for nonhandheld engines in Table 4. Engines with a date of manufacture prior to 7/1/08 must comply with the emission standards specified in Table 4 applicable to engines manufactured on 7/1/08.

<table>
<thead>
<tr>
<th>Engine Displacement</th>
<th>Manufacture Date</th>
<th>Emission Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 225 cc</td>
<td>7/1/08 to 12/31/11</td>
<td>40 CFR part 90.</td>
</tr>
<tr>
<td></td>
<td>1/1/12 or later</td>
<td>40 CFR part 1054.</td>
</tr>
<tr>
<td>≥ 225 cc</td>
<td>7/1/08 to 12/31/10</td>
<td>40 CFR part 90.</td>
</tr>
<tr>
<td></td>
<td>1/1/11 or later</td>
<td>40 CFR part 1054.</td>
</tr>
</tbody>
</table>

cc = cubic centimeters

[40 CFR §§60.4233(a) and (f)(1)] [40 CFR §90.103, 1054.103, 1054.105]

ii. Gasoline and rich burn LPG engines with a maximum engine power greater than 25 HP manufactured after January 1, 2009 or that have been modified or reconstructed after June 12, 2006 shall be certified to meet the emission standards and related requirements in Table 5. Engines with a date of manufacture prior to 1/1/09 must comply with the emission standards specified in Table 5 applicable to engines manufactured on 1/1/09.
Table 5: Certification Requirements for Gasoline and Rich Burn LPG Engines > 25 HP

<table>
<thead>
<tr>
<th>Maximum Engine Power</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 &lt; HP &lt; 130</td>
<td>Phase I emission standards in 40 CFR 90.103, applicable to class II engines</td>
</tr>
<tr>
<td>HP ≥ 130</td>
<td>40 CFR Part 1048</td>
</tr>
<tr>
<td>Alternative for SI ICE 25 &lt; HP ≤ 40, total displacement ≤ 1,000 cc</td>
<td>40 CFR part 90 or 1054, as appropriate</td>
</tr>
</tbody>
</table>

[40 CFR §§60.4233(b)-(c), 60.4233(f)(2)-(3)]

iii. SI ICE with a maximum engine power greater than 25 HP, excluding gasoline and rich burn LPG engines, shall be certified to meet the emission standards in Table 6. For engines with a maximum engine power greater than 100 HP manufactured prior to 1/1/2011, that were certified to the standards in 40 CFR Part 1048 applicable to engines that are not severe duty engines, if such engine was certified to a CO standard above the standard in Table 6, the Permittee may meet the CO certification standard for which the engine was certified.

Table 6: Certification Requirements for New SI ICE >25 HP, Excluding Gasoline and Rich Burn LPG Engines

<table>
<thead>
<tr>
<th>Maximum Engine Power</th>
<th>Manufacture Date</th>
<th>Emission standards (g/HP-hr)</th>
<th>Emission standards (ppmvd at 15% O₂)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>NOₓ</td>
<td>CO</td>
</tr>
<tr>
<td>25 &lt; HP &lt; 130</td>
<td>01/01/2009</td>
<td>N/A</td>
<td>387</td>
</tr>
<tr>
<td>HP ≥ 130</td>
<td></td>
<td>2.0</td>
<td>4.0</td>
</tr>
<tr>
<td>25 &lt; HP &lt; 100</td>
<td>01/01/2009 - 12/31/2010</td>
<td>2.0</td>
<td>4.0</td>
</tr>
</tbody>
</table>

[40 CFR §60.4233(d) - (e)]

iv. Natural gas and lean burn LPG engines with a maximum engine power:

1) Greater than 25 HP but less than 130 HP that were manufactured prior to 1/1/2009 and modified or reconstructed after 6/12/06 shall comply with the emission standards in Table 6;

2) Equal to or greater than 130 HP that were manufactured prior to 1/1/2009 and modified or reconstructed after 6/12/06 shall comply with the emission standards in Table 7.

Table 7: Emission Standards for Modified & Reconstructed Natural Gas & Lean Burn LPG ICE >130 HP

<table>
<thead>
<tr>
<th>Maximum Engine Power</th>
<th>Emission standards (g/HP-hr)</th>
<th>Emission standards (ppmvd at 15% O₂)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NOₓ</td>
<td>CO</td>
</tr>
<tr>
<td>HP ≥ 130</td>
<td>3.0</td>
<td>4.0</td>
</tr>
</tbody>
</table>

[40 CFR §60.4233(f)(4)]

c. The Permittee shall operate and maintain the engines according to the manufacturer’s emission-related written instructions

[40 CFR §60.4243]

d. The Permittee shall meet the requirements as specified in 40 CFR Part 1068, Subparts A through D, as they apply.
16. 40 CFR 63, Subpart ZZZZ Operating Requirements:

a. Applicability: Engines ordered by the original owner prior to June 12, 2006 are subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), except for the following:
   i. Emergency RICE subject to 40 CFR, Subpart IIII (see Permit Condition 14).
   ii. Emergency RICE subject to 40 CFR, Subpart JJJJ (see Permit Condition 15).
   iv. Stationary RICE that is tested at a stationary test cell/stand.
   v. Stationary RICE that is used for national security purposes.

b. The Permittee shall operate and maintain each engine and associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the 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.

c. The Permittee shall operate and maintain each engine according to the manufacturer's emission-related operation and maintenance instructions or develop and follow the Permittee’s own maintenance plan which must provide to the extent practicable for the operation and maintenance of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

d. The Permittee shall comply with the following maintenance schedule for each engine. For engines maintained in accordance with the schedule in Permit Condition 10.c, the Permittee shall comply with the most stringent maintenance requirements and frequency:
   i. Change oil and filter or perform an Oil Analysis Program every 500 hours of operation or annually, whichever comes first. 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:
      1) Total Base Number is less than 30 percent of the Total Base Number of the oil when new;
      2) Viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new;
      3) Percent water content (by volume) is greater than 0.5.
      If none of these limits are exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee must change the oil before continuing to use the engine. 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
   ii. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;
   iii. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;
   iv. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
e. If an engine is operating during an emergency and it is not possible to shut down the engine in order to perform the maintenance requirements on the schedule required by this Permit Condition, or if performing the maintenance operations on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the maintenance operations can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The maintenance operations shall be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the maintenance operations on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable, in accordance with Permit Condition 18.

[40 CFR §63.6603(a); Table 2d]

f. During periods of startup, the Permittee shall 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)]

17. Recordkeeping:

a. The Permittee shall maintain the following records for a period of at least five years from the date of the records and make them available to the Control Officer upon request:

   i. Stationary Engine List: Maintain a list of stationary engines that includes all of the following information for each engine: combustion type (compression-ignition, or lean-burn spark-ignition, or rich-burn spark-ignition); manufacturer; model designation, rated bhp, serial number, and the location of each engine at the facility. If the equipment list associated with the current permit includes all of the required information for each stationary engine located at the facility, this requirement may be fulfilled by keeping a complete copy of the current permit, including the equipment list, in a readily accessible location at the facility where the engines are located, and by providing the equipment list to the Control Officer upon request.

   ii. Operation Records: The Permittee shall maintain records of the monthly and 12-month rolling total hours of operation for each stationary engine. For emergency engines, the operation records shall also include:

   1) Monthly and annual hours of operation for reliability related activities such as engine readiness, calibration, or maintenance, or to prevent the occurrence of an unsafe condition during electrical system maintenance; and

   2) The number of operating hours for emergency use and an explanation for the emergency use.

   iii. Fuel Records:

   1) Maintain records of the type and amount of fuel purchased for use in the stationary engines (e.g. receipts, pipeline tickets, or bills of lading); and

   2) Maintain records of the fuel type and sulfur content of any fuel that is used in the stationary engines, excluding gasoline. For gasoline, maintain records that the fuel was purchased in the United States. The Permittee shall maintain fuel receipts, contract specifications, pipeline meter tickets, fuel supplier information or purchase records or test results of the fuel for sulfur content.

   [Rule 324 §502.4] [SIP Rule 324 §502.1] [40 CFR §§60.4214(b), 60.4245(b), 63.6655(f)]

   iv. Maintenance Records:

   1) The Permittee shall maintain records of all stationary engine maintenance, including the date when maintenance was performed, corresponding hours on the hour meter and the maintenance procedures that were performed.

   [Rule 324 §502.3] [SIP Rule 220 §302.7] [40 CFR §§60.4245(a)(2), 63.6655(e), 63.6660]

   2) The Permittee shall maintain records of oil analysis results if those results are used in lieu of an oil change.

   [SIP Rule 220 §302.7]
v. Manufacturer’s Operation and Maintenance Instructions: The Permittee shall keep the manufacturer's written instructions for operation and maintenance of the engine available at the facility where the engine is located at all times. If the manufacturer's written instructions are not available, the Permittee shall keep a preventative maintenance plan, indicating which procedures in Permit Condition 10 are appropriate to the engine, available at the facility where the engine is located at all times.

\[\text{Rule 324 §502.5] [SIP Rule 220 §302.7] [40 CFR §§63.6655(e), 63.6660}\]

b. The Permittee shall maintain a copy of the manufacturer’s data for each engine subject to Permit Condition 14 or 15 (NSPS Subpart III or JJJJ) indicating compliance with the standards in this Permit.

\[\text{[SIP Rule 220 §302.7][40 CFR §§60.4211(b)(3), 60.4245(a)(3)]}\]

c. If the Permittee is complying with Permit Condition 1.c.ii.2), the Permittee shall maintain a record of total potential annual NOx emissions from engines operating 500 hours per year and corresponding calculations to demonstrate eligibility for this General Permit.

\[\text{[SIP Rule 220 §302.7]}\]

18. Reporting Requirements:
Deviations from ICE Maintenance Schedule for Engine Subject to 40 CFR 63 Subpart ZZZZ: The Permittee shall report any failure to perform a maintenance operation on the schedule required by Permit Condition 16 and the Federal, State or local law under which the risk was deemed unacceptable. The Report shall be submitted to the Control Officer, Attn: Compliance Division Manager, within 2 working days after the date on which the maintenance operation was required to be performed. A subsequent report shall be submitted to the Control Officer within 2 working days after the required maintenance operation is performed.

\[\text{[SIP Rule 220 §302.8; Rule 130 §402.4] [40 CFR §63.6640(b)]}\]

19. Emergency Provisions:
The Permittee shall comply with all recordkeeping and reporting requirements of Rule 130 (Emergency Provisions) and Rule 140 (Excess Emissions) if the allowable hours of operation are exceeded.

\[\text{[Rule 130; Rule 140]}\]

NON-ROAD ENGINES

20. Applicability:

a. A non-road engine shall be defined as an engine, that, by itself or in or on a piece of equipment, is portable or transportable, meaning designed to be and capable of being carried or moved from one location to another. Indicia of transportability include but are not limited to, wheels, skids, carrying handles, dollies, trailers, or platforms.

\[\text{[Rule 324 §102.1(d)][SIP Rule 324 §212.1(c)]}\]

b. An engine that is operated or intended to be operated at one specific location for more than 12 consecutive months or that is attached to a foundation at the location is not a nonroad engine. A location is any single site at a building, structure, facility, or installation. An engine (or engines) that replace(s) an engine at a location and is intended to perform the same or similar function as the engine being replaced will be included in calculating the consecutive time period.

\[\text{[Rule 324 §§211, 220][SIP Rule 324 §212.2(c)]}\]

c. Should the engine remain in one location for more than 12 consecutive months, it shall lose its non-road designation and shall become subject to applicable sections of the Permit for stationary ICE. The Permittee shall also submit a notification to the Control Officer (Attn: Compliance Manager) in accordance with Permit Condition 46.

\[\text{[Rule 324 §212] [SIP Rule 324 §211][SIP Rule 220 §403]}\]

21. Fuel Limitation:
The Permittee shall only use fuel that contains less than 0.05% sulfur by weight to operate diesel non-road engines.

\[\text{[Rule 320 §§ 202, 305] [Locally Enforceable Only]}\]
22. Recordkeeping:
The Permittee shall maintain the following records for each non-road engine. Records shall be retained for five years and shall be made available to the Control Officer upon request.
   a. Date that the engine is brought to the facility; and
   b. For engines located at a stationary source greater than 14 consecutive days:
      i. Make, model, serial number and capacity of the engine;
      ii. Date of each instance in which the engine is moved from its existing location;
      iii. Fuel type and sulfur content of fuel; and
      iv. Fuel receipts, contract specifications, pipeline meter tickets, fuel supplier information, purchase records, or test results documenting the sulfur content of the fuel.

PARTICULATE MATTER FROM FUGITIVE AND PROCESS SOURCES

23. Applicability:
   a. The provisions of this Permit Section apply to all dust-generating operations except for those dust-generating operations listed in Permit Condition 24. Any person engaged in a dust-generating operation subject to this Permit Section shall be subject to the standards and/or requirements of this Permit Section before, after, and while conducting such dust-generating operation, including during weekends, after work hours, and on holidays.
   b. For the purpose of Rule 310, any control measure that is implemented must achieve the applicable standard(s) described in Rule 310, as determined by the corresponding test method(s), as applicable, and must achieve other applicable standard(s) set forth in Rule 310.
   c. Regardless of whether a dust-generating operation is in compliance with an approved Dust Control Plan or there is no approved Dust Control Plan, the owner and/or operator of a dust-generating operation shall be subject to all requirements of Rule 310 at all times.
   d. Failure to comply with the provisions of these requirements, as applicable, and/or of an approved Dust Control Plan, shall constitute a violation.

24. Exemptions:
The provisions of this Permit Section shall not apply to the following activities:
   a. Normal farm cultural practices according to Arizona Revised Statutes (A.R.S.) §49-457 and A.R.S. §49-504.4.
   b. Emergency activities that may disturb the soil conducted by any utility or government agency in order to prevent public injury or to restore critical utilities to functional status.
   c. Establishing of initial landscapes without the use of mechanized equipment or conducting landscape maintenance without the use of mechanized equipment. However, establishing initial landscapes without the use of mechanized equipment and conducting landscape maintenance without the use of mechanized equipment shall not include grading or trenching performed to establish initial landscapes or to redesign existing landscapes.
   d. Rooftop operations for cutting, drilling, grinding, or coring roofing tile when such activity is occurring on a pitched roof.
25. Emission Limitation:
   a. The Permittee shall not discharge or cause or allow the discharge of particulate matter (PM) emissions into the ambient air from material handling in excess of the allowable hourly emission rate determined by either of the following equations, whichever applies:
      i. \[ E = 3.59 \, P^{0.62} \] (P, material handling ≤ 30 tons/hr)
      ii. \[ E = 17.31 \, P^{0.16} \] (P, material handling > 30 tons/hr)
   
   Where:
   
   E = Maximum allowable PM emissions in pounds per hour, and
   P = Process weight (material handling) rate in tons per hour.
   
   b. The total process weight from all similar operations at the facility shall be used for determining the maximum allowable PM emission rate.

26. Emission Control System (ECS):
   If the Permittee cannot comply with the emission limitation of Permit Condition 25 without the use of an ECS, the Permittee shall apply for a Non-Title V permit.

27. Dust Control Plan Requirement:
   a. The owner and/or operator of a dust-generating operation shall submit to the Control Officer a Dust Control Plan with any permit applications that involve dust-generating operations with a disturbed surface area that equals or exceeds 0.10 acre (4,356 square feet) before commencing any routine dust-generating operation. The Dust Control Plan shall be kept available onsite at all times.
   
   b. The Permittee shall comply with the requirements of the Dust Control Plan and the provisions of MCAQD Rule 310 Sections 301 – 310 at all times.

28. Visible Emission Requirements for Dust-Generating Operations:
   a. The Permittee shall not cause or allow visible fugitive dust emissions to exceed 20% opacity.
   
   b. The Permittee shall not cause or allow visible emissions of particulate matter, including fugitive dust, beyond the property line within which the emissions are generated. Visible emissions shall be determined by a standard of no visible emissions exceeding 30 seconds in duration in any six-minute period as determined by using EPA Reference Method 22. This requirement does not apply to dust-generating operations conducted within 25 feet of the property line.

29. Exemptions from Dust-Generating Operation Opacity Limitation Requirement:
   a. If wind conditions cause fugitive dust emissions to exceed the opacity requirements in this permit, despite implementation of the Dust Control Plan, an owner and/or operator shall:
      i. Ensure that all control measures and requirements of the Dust Control Plan are implemented, and the subject violations cannot be prevented by better application, operation, or maintenance of these measures and requirements.
      ii. Cease dust-generating operations and stabilize any disturbed surface area consistent with the Stabilization Requirements of this Permit Section.
      iii. Compile records consistent with the Recordkeeping requirements in this Permit Section and document the control measure and other Dust Control Plan requirements implemented.
   
   b. Emergency Maintenance of Flood Control Channels and Water Retention Basins: The opacity limit shall not apply to emergency maintenance of flood control channels and water retention basins, provided that control measures are implemented.
30. **Stabilization Requirements for Dust-Generating Operations:**
   
   a. **Unpaved Parking Lot:** The owner and/or operator of any unpaved parking lot shall not allow visible fugitive dust emissions to exceed 20% opacity and shall not allow silt loading equal to or greater than 0.33 oz/ft². However, if silt loading is equal to or greater than 0.33 oz/ft², then the owner and/or operator shall not allow the silt content to exceed 8%.

   [SIP Rule 310 §303.2]

   b. **Disturbed Surface Area:** The owner and/or operator of any disturbed surface area on which no activity is occurring shall meet at least one of the standards described in MCAQD Rule 310 Section 304.

   [SIP Rule 310 §304]

31. **Control Measures for Dust-Generating Operations:**
   
   For dust-generating operations with a disturbed surface area less than 0.10 acre (4,356 square feet), the owner and/or operator shall install, maintain, and use control measures, as applicable. Control measures for specific dust-generating operations are described in MCAQD Rule 310 Section 305. The owner and/or operator of a dust-generating operation shall implement control measures before, after, and while conducting dust-generating operations, including during weekends, after work hours, and on holidays.

   [SIP Rule 310 §305]

32. **Trackout, Carry-Out, Spillage, and/or Erosion:**
   
   The owner and/or operator of a dust-generating operation shall prevent and control trackout, carry-out, spillage, and/or erosion in accordance with MCAQD Rule 310 Section 306.

   [SIP Rule 310 §306.2]

33. **Dust Control Plan Revisions:**
   
   For dust-generating operations with a disturbed surface area equal to or greater than 0.10 acre (4,356 square feet):

   a. If the Control Officer determines that an approved Dust Control Plan has been followed, yet fugitive dust emissions from any dust-generating operation still exceed the standards of this Permit, then the Control Officer shall issue a written notice to the owner and/or operator of the dust-generating operation explaining such determination.

   b. The owner and/or operator of a dust-generating operation shall make written revisions to the Dust Control Plan and shall submit such revised Dust Control Plan to the Control Officer within three working days of receipt of the Control Officer’s written notice, unless such time period is extended by the Control Officer, upon request, for good cause. During the time that such owner and/or operator is preparing revisions to the approved Dust Control Plan, such owner and/or operator must still comply with all requirements of this Permit.

   [SIP Rule 310 §403.1]

   c. The Permittee shall request a Dust Control Plan revision with a submittal in the manner and form prescribed by the Control Officer if:

      i. The acreage of a project changes;

      ii. The permit holder changes;

      iii. The name(s), address(es), or phone numbers of person(s) responsible for the submittal and implementation of the Dust Control Plan and responsible for the dust-generating operation change; and

      iv. If the activities related to the purposes for which the Dust Control permit was obtained change.

   [Rule 310 §403.2]
34. **Recordkeeping:**

The Permittee shall maintain the following records for a period of at least five years from the date such records are established and make them available to the Control Officer upon request:

a. For dust-generating operations with a disturbed surface area equal to or greater than 0.10 acre (4,356 square feet), the Permittee shall keep a written record of self-inspection on each day dust-generating operations are conducted. Self-inspection records shall include daily inspections for crusted or damp soil, trackout conditions and clean-up measures, daily water usage, and dust suppressant application. Such written record shall also include the following information:

i. Method, frequency, and intensity of application or implementation of the control measures;

ii. Method, frequency, and amount of water application to the site;

iii. Street sweeping frequency;

iv. Types of surface treatments applied to and maintenance of trackout control devices, gravel pads, fences, wind barriers, and tarps;

v. Types and results of test methods conducted;

vi. If contingency control measures are implemented, actual application or implementation of contingency control measures and why contingency control measures were implemented;

vii. List of subcontractors’ names and registration numbers updated when changes are made; and

viii. Names of employee(s) who successfully completed dust control training class(es), date of the class(es) that such employee(s) successfully completed, and name of the agency/representative who conducted such class(es).

[SIP Rule 310 §502.1]

b. For dust-generating operations with a disturbed surface area less than 0.10 acre (4,356 square feet), the Permittee shall compile and retain records (including records on any street sweeping, water applications, and maintenance of trackout control devices, gravel pads, fences, wind barriers, and tarps) that provide evidence of control measure application, by indicating the type of treatment or control measure, extent of coverage, and date applied.

[SIP Rule 310 §502.2]

c. Upon verbal or written request by the Control Officer, the log or the records and supporting documentation shall be provided as soon as possible but no later than 48 hours, excluding weekends. If the Control Officer is at the site where requested records are kept, records shall be provided without delay.

[SIP Rule 310 §502.3]

35. **Records Retention:**

a. For dust-generating operations with a disturbed surface area equal to or greater than 0.10 acre (4,356 square feet), the Permittee shall retain copies of approved Dust Control Plans, control measures implementation records, and all supporting documentation for at least six months following the termination of the dust-generating operation and for at least two years from the date such records were initiated.

[SIP Rule 310 §503]

b. For dust-generating operations with a disturbed surface less than 0.10 acre (4,356 square feet), the Permittee shall retain records required by this rule for at least five years from the date such records are established.

[SIP Rule 100 §504]
GENERAL CONDITIONS

36. **Coverage under the General Permit:**
Any facility shall be eligible for coverage under this General Permit if the facility meets the requirements specified in the Specific Conditions Section of this Permit and completes an Application for the Authority to Operate and/or Construct. However, if the facility does not meet the provisions of the Specific Conditions Section, the operation will be considered ineligible for coverage and the applicant may be required by the Control Officer to obtain an individual source permit.

[Rule 230 §303][Locally Enforceable Only]

37. **Revocation of the Authority to Operate under this General Permit:**
If the Permittee is notified by the Control Officer of the revocation of the Authority to Operate under this General Permit because of expiration, termination, or cancellation, the Permittee must file an application for an individual source permit. The application for an individual source permit must be filed within 180 days of receiving the notice from the Control Officer. The Permittee may continue to operate under this General Permit until the earlier of either

a. The date that it submits a complete application for an individual source permit, or
b. The date 180 days after receipt of the notice of expiration, termination, or cancellation.

[Rule 230 §311][Locally Enforceable Only]

38. **Posting of Permit:**
This Permit shall be posted in a clearly visible and accessible location on the site where the equipment is installed.

[SIP Rule 200 §312]

39. **Compliance:**

a. The issuance of any Permit or Permit revision shall not relieve the Permittee from compliance with any Federal laws, Arizona laws, or the County or SIP Rules, nor does any other law, regulation or permit relieve the Permittee from obtaining a Permit or Permit revision required under the County Rules.

[SIP Rules 200 §§309, 310.3, 220 §406.3]

b. The Permittee shall comply with all conditions of this Permit including all applicable requirements of Federal laws, Arizona laws, and Maricopa County Air Pollution Control Rules and Regulations now in effect and as amended in the future. Any Permit noncompliance is grounds for enforcement action, Permit termination or revocation, or for denial of a renewal application. In addition, non-compliance with any federally enforceable requirements constitutes a violation of the Clean Air Act.

[SIP Rules 200 §310.4, 220 §302.24][A.A.C. R18-2-306.A.8.a]

c. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with these Permit Conditions.

[SIP Rule 220 §302.10][A.A.C. R18-2-306.A.8.b]

d. Rights and Privileges: This Permit does not convey any property rights or exclusive privilege of any sort.

[SIP Rule 220 §302.12]

e. Fees: The Permittee shall pay all fees to the Control Officer in accordance with Rule 280. No permit or permit revision is valid until the applicable permit fee has been received and until the permit is issued by the Control Officer.

[SIP Rule 200 §409] [A.R.S. 49-480(D)][Rule 280 §302]

40. **Malfunctions, Emergency Upsets, and Excess Emissions:**
An affirmative defense of an emergency, excess emission, and/or during startup and shutdown shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence as outlined in Rule 130 for emergencies and Rule 140 for excess emissions.

[SIP Rule 140][Rule 130 §§201, 400]
41. Revision / Reopening / Revocation:
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.

[SIP Rule 220 §302.11]

42. Reporting:
Upon request of the Control Officer and as directed by the Control Officer, the Permittee shall complete and shall submit to the Control Officer an annual emissions inventory report. The report is due by April 30 or 90 days after the Control Officer makes the inventory forms available, whichever occurs later. The annual emissions inventory report shall be in the format provided by the Control Officer. The Control Officer may require submittal of supplemental emissions inventory information forms for air contaminants under ARS §49-476.01, and ARS §49-480.03.

[Rule 100 §505] [SIP Rule 40]

43. Records:
   a. The Permittee shall furnish information that the Control Officer may request in writing to determine whether cause exists for revising, revoking and reissuing this permit, or terminating this permit, or to determine compliance with this permit. The information shall be provided in a timeframe specified by the Control Officer. Upon request, the Permittee shall also furnish to the Control Officer copies of records required to be kept by this Permit. For information claimed to be confidential, the Permittee shall furnish a copy of such records directly to the Administrator along with a claim of confidentiality.

   [SIP Rules 100§106, 220 §302.13]

   b. If the Permittee fails to submit any relevant facts or has submitted incorrect information in a permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, the Permittee shall provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application is filed but prior to release of a proposed permit. Willful misrepresentation of facts in a permit application is cause for revocation or denial of a permit.

   [SIP Rule 220 §§301.5, 301.6]

44. Certification of Truth, Accuracy, and Completeness:
Any document that is required to be submitted by this General Permit, including reports, shall contain a certification by the facility owner, or other responsible official as defined in County Rule 100 §200.110, of truth, accuracy, and completeness. This certification and any other certification required under 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.

[SIP Rules 100 §401, 220 §302.14]

45. Facility Changes Requiring an Individual Source Permit:
   a. The following changes shall only be made after the Permittee obtains an individual source permit:
      i. A change that triggers a new applicable requirement, violates an existing applicable requirement, or violates any of the Specific Conditions of this Permit.
      ii. A change that will require a case-by-case determination of an emissions limitation.
      iii. A change that will result in the burning of any fuel that is not currently authorized by this permit.

   [SIP Rule 200 §301]

   b. Coverage under this General Permit shall terminate on the date the individual source permit is issued.

   [Rule 230 §307][Locally Enforceable Only]

46. Facility Changes Allowed:
   a. The Permittee may make the following changes at the facility only after providing written notification to the Control Officer at least 30 days before the change and only if such changes do not require the Permittee to obtain an individual source permit:
i. Adding new emissions units.
ii. Installing a replacement emissions unit.
iii. Adding or replacing air pollution control equipment.

b. The written notification shall include the following:
   i. When the proposed change will occur;
   ii. A description of the change; and
   iii. Any change in emissions of regulated air pollutants.

c. The Permittee shall keep a record of any physical change or change in the method of operation that could affect emissions. The record shall include a description of the change and date the change occurred.

[Rule 230 §312][Locally Enforceable Only]

47. Right to Entry:

a. The Control Officer during reasonable hours, for the purpose of enforcing and administering County or SIP Rules or the Clean Air Act, or any provision of the Arizona Revised Statutes relating to the emission or control prescribed pursuant thereto, may enter every building, premises, or other place, except the interior of structures used as private residences. Every person is guilty of a petty offense under A.R.S. 49-488 who in any way denies, obstructs or hampers such entrance or inspection that is lawfully authorized by warrant.

b. The Permittee shall allow the Control Officer or his designated representatives, upon presentation of proper credentials (e.g., Maricopa County Air Quality Department identification) and other documents as may be required by law, to:
   i. 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 pursuant to the conditions of the permit;
   ii. Have access to and copy, at reasonable times, any records that are required to be kept pursuant to the conditions of the permit;
   iii. Inspect, at reasonable times, any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;
   iv. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the Permit or other applicable requirements; and
   v. Record any inspection by use of written, electronic, magnetic, and photographic media.

[SIP Rules 100 §105, 220 §302.17-21]

48. Severability:

The rules, paragraphs, clauses, provisions, and/or sections of this Permit are severable, and, if any rule, paragraph, clause, provision, and/or section of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.

[SIP Rule 220 §302.9]