

AIR QUALITY DIVISION
CHAPTER 6, SECTION 3
OPERATING PERMIT

**WYOMING DEPARTMENT OF
ENVIRONMENTAL QUALITY**
AIR QUALITY DIVISION
122 West 25th Street
Cheyenne, Wyoming 82002



PERMIT NO. 3-0-264

Issue Date: XXXX
Expiration Date: XXXX
Effective Date: XXXX

In accordance with the provisions of W.S. §35-11-203 through W.S. §35-11-212 and Chapter 6, Section 3 of the Wyoming Air Quality Standards and Regulations,

WGR Asset Holding Company LLC
Augusta-Pebble Beach Compressor Station
Section 29, Township 51 North, Range 76 West
Johnson County, Wyoming

is authorized to operate a stationary source of air contaminants consisting of emission units described in this permit. The units described are subject to the terms and conditions specified in this permit. All terms and conditions of the permit are enforceable by the State of Wyoming. All terms and conditions of the permit, except those designated as not federally enforceable, are enforceable by EPA and citizens under the Act. A copy of this permit shall be kept on-site at the above named facility.

Steven A. Dietrich, Administrator
Air Quality Division

Date

Todd Parfitt, Director
Department of Environmental Quality

Date

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WAQSR CHAPTER 6, SECTION 3 OPERATING PERMIT

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

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FACILITY SUMMARY*

| Company/ AOD ID | IMPACT ID | Type | DESCRIPTION | SIZE | Ch.6- Sec.2 PERMITS |
|--------------------|--------------|------|--|--------------------------|------------------------|
| E1 | ENG002 | EU | Waukesha L7044GSI Compressor Engine ^a | 1680 hp | CT-11766 |
| | CNC002 | CE | NSCR Catalyst with AFRC | | CT-11766 |
| | VER002 | RP | Vertical Stack | 32.8 ft | CT-11766 |
| E2 | ENG004 | EU | Waukesha L7044GSI Compressor Engine ^a | 1680 hp | CT-11766 |
| | CNC004 | CE | NSCR Catalyst with AFRC | | CT-11766 |
| | VER004 | RP | Vertical Stack | 32.8 ft | CT-11766 |
| E3 ^c | ENG007 | EU | Waukesha L7044GSI Compressor Engine ^a or Caterpillar G3606LE Compressor Engine ^b | 1680 hp or 1775 hp | CT-11766 |
| E4 ^c | ENG008 | EU | Waukesha L7044GSI Compressor Engine ^a or Caterpillar G3606LE Compressor Engine ^b | 1680 hp or 1775 hp | CT-11766 |
| E5 | ENG001 | EU | Waukesha F3524GSI Compressor Engine ^a | 840 hp | CT-11766 |
| | CNC001 | CE | NSCR Catalyst with AFRC | | CT-11766 |
| | VER001 | RP | Vertical Stack | 32.8 ft | CT-11766 |
| E6 | ENG003 | EU | Waukesha F3524GSI Compressor Engine ^a | 840 hp | CT-11766 |
| | CNC003 | CE | NSCR Catalyst with AFRC | | CT-11766 |
| | VER003 | RP | Vertical Stack | 32.8 ft | CT-11766 |
| E7 | ENG005 | EU | Waukesha F3524GSI Compressor Engine ^a | 840 hp | CT-11766 |
| | CNC005 | CE | NSCR Catalyst with AFRC | | CT-11766 |
| | VER005 | RP | Vertical Stack | 32.8 ft | CT-11766 |
| E8 | ENG006 | EU | Waukesha F3524GSI Compressor Engine ^a | 840 hp | CT-11766 |
| | CNC006 | CE | NSCR Catalyst with AFRC | | CT-11766 |
| | VER006 | RP | Vertical Stack | 32.8 ft | CT-11766 |
| E9 ^c | ENG009 | EU | Waukesha F3524GSI Compressor Engine ^a or Caterpillar G3512LE Compressor Engine ^b | 840 hp or 915 hp | CT-11766 |
| D1a | DHY001 | EU | Dehydration Unit 1 Still Vent | 30 MMSCFD | CT-11766 |
| | VER007 | RP | Vertical Stack | 14 ft | CT-11766 |
| D1b | HET001 | EU | Dehydration Unit 1 Reboiler Heater | 0.75 MMbtu/hr | CT-11766 |
| | VER008 | RP | Vertical Stack | | CT-11766 |
| D2a ^c | DHY002 | EU | Dehydration Unit 2 Still Vent | 30 MMSCFD | CT-11766 |
| D2b ^c | HET002 | EU | Dehydration Unit 2 Reboiler Heater | 0.75 MMbtu/hr | CT-11766 |

| Company/ AQD ID | IMPACT ID | Type | DESCRIPTION | SIZE | Ch.6, Sec.2 PERMITS |
|--------------------|--------------|------|---|---------|------------------------|
| PWT1 | TNK001 | EU | Produced Water Storage Tank 1 | 400 bbl | CT-11766 |
| | AVL001 | RP | Standing, Working, and Breathing Losses | | CT-11766 |
| PWT2 ^c | TNK002 | EU | Produced Water Storage Tank 2 | 400 bbl | CT-11766 |

^a Four Stroke Rich Burn Engine

^b Four Stroke Lean Burn Engine

^c On April 27, 2015, these units were not yet installed.

* The Facility Summary reflects the IMPACT Facility Inventory (Version Start Date 3/12/2015).

TOTAL FACILITY ESTIMATED EMISSIONS

For informational purposes only. These emissions are not to be assumed as permit limits.

| POLLUTANT | EMISSIONS (TPY) |
|---|-------------------------|
| CRITERIA POLLUTANT EMISSIONS | |
| Particulate Matter | 7 |
| PM ₁₀ Particulate Matter | 7 |
| PM _{2.5} Particulate Matter | 7 |
| Sulfur Dioxide (SO ₂) | Negligible |
| Nitrogen Oxides (NO _x) | 79 |
| Carbon Monoxide (CO) | 211 |
| Volatile Organic Compounds (VOCs) | 76 |
| HAZARDOUS AIR POLLUTANT (HAP) EMISSIONS | 3.66^a |
| GREENHOUSE GAS EMISSIONS (CO₂e) | 46492 |

Emission estimates are from the operating permit application.

^a Formaldehyde is the only significant HAP emitted.

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FACILITY-SPECIFIC PERMIT CONDITIONS

Facility-Wide Permit Conditions

- (F1) ENGINE CONFIGURATION REQUIREMENTS [WAQSR Ch 6, Sec 2 Permit CT-11766]
- (a) The facility shall be limited to no more than nine engines consisting of the following:
 - (i) Four Waukesha F3524GSI engines, each equipped with an AFRC and NSCR catalyst (E5, E6, E7, and E8).
 - (ii) Two Waukesha L7044GSI engines, each equipped with an AFRC and NSCR catalyst (E1 and E2).
 - (iii) Two, of any combination of either Waukesha L7044GSI engines, each equipped with an AFRC and NSCR catalyst, or Caterpillar G3606LE engines, each equipped with an oxidation catalyst (E3 and E4).
 - (iv) One, either a Waukesha F3524GSI engine equipped with an AFRC and NSCR catalyst, or a Caterpillar G3512LE engine equipped with an oxidation catalyst (E9).
 - (b) Once constructed, the units referenced in paragraph (iii) and (iv) listed above lose their flexibility and cannot be replaced by a different model engine unless authorized by an appropriate permit modification (except as allowed for temporary engine replacement under condition F4).
 - (c) The stack heights for the engines (E3, E4, and E9) shall be a minimum of 2.0 times the compressor building height, upon installation.
 - (d) Once removed from the facility, an engine cannot be installed and operated in its place unless authorized by an appropriate permit modification (except as allowed for temporary engine replacement under condition F4).
 - (e) The permittee may expand the engine configuration beyond that described in paragraph (a) upon receipt of a construction or modification permit issued under WAQSR Ch 6, Sec 2 that authorizes such change. The permittee must, however, submit an application to modify this operating permit within 12 months of commencement of operation for any engine not already included in this permit.

Source-Specific Permit Conditions

- (F2) VISIBLE EMISSIONS [WAQSR Ch 3, Sec 2]
 Visible emissions of any contaminant discharged into the atmosphere from any single emission source shall not exhibit greater than 20 percent opacity except for one period or periods aggregating not more than six minutes in any one hour of not more than 40 percent opacity.
- (F3) ENGINE EMISSIONS [WAQSR Ch 6, Sec 2 Permit CT-11766]
- (a) NO_x, CO, VOC, and formaldehyde emissions shall not exceed the limits specified for each engine listed in Table I.
 - (b) Compliance with the g/hp-hr limits is considered compliance with the lb/hr and TPY limits as long as each engine is operated at or below its site-rated capacity.
 - (c) The permittee shall operate and maintain each engine, air pollution control equipment, and monitoring equipment according to good air pollution control practices at all times, including startup, shutdown, and malfunction.

| Engine Description | NO _x | | | CO | | | VOC | | | Formaldehyde | |
|--|-----------------|-------|------|---------|-------|------|---------|-------|------|--------------|------|
| | g/hp-hr | lb/hr | TPY | g/hp-hr | lb/hr | TPY | g/hp-hr | lb/hr | TPY | lb/hr | TPY |
| Waukesha L7044GSI (E1, E2, E3, E4) | 0.7 | 2.6 | 11.4 | 2.0 | 7.4 | 32.4 | 0.7 | 2.6 | 11.4 | | |
| Caterpillar G3606LE (E3, E4) | 0.7 | 2.7 | 12.0 | 0.25 | 1.0 | 4.3 | 0.7 | 2.7 | 12.0 | 0.27 | 1.20 |
| Waukesha F3524GSI (E5, E6, E7, E8, E9) | 0.7 | 1.3 | 5.7 | 2.0 | 3.7 | 16.2 | 0.7 | 1.3 | 5.7 | | |
| Caterpillar G3512LE (E9) | 1.0 | 2.0 | 8.8 | 0.5 | 1.0 | 4.4 | 0.7 | 1.4 | 6.2 | 0.14 | 0.62 |

- (F4) ENGINE REPLACEMENT [WAQSR Ch 6, Sec 2; Ch 6, Sec 3(h)(i)(I)]
- (a) Permanent replacement of an engine must be evaluated by the Division under WAQSR Ch 6, Sec 2 prior to such replacement to determine the appropriate permitting action and evaluate the need for additional requirements resulting from the permanent replacement.

- (b) Should an engine break down or require an overhaul, the permittee may bring on site and operate a temporary replacement engine until repairs are made. The temporary replacement unit shall be identical or similar to the unit replaced, with emission levels at or below those of the unit replaced. The permittee shall notify the Division in writing of such temporary replacement within five working days and include the following:
 - (i) The startup date of the temporary replacement unit; and
 - (ii) A statement regarding the applicability of any New Source Performance Standards (NSPS) in 40 CFR 60 and any National Emission Standards for Hazardous Air Pollutants (NESHAP) in 40 CFR 63 for the temporary replacement unit.
- (F5) FUEL BURNING EQUIPMENT [WAQSR Ch 3, Sec 3]
 NO_x emissions from each dehydration unit reboiler heater (D1b and D2b) shall not exceed 0.20 lb/MMBtu heat input.
- (F6) COMMENCEMENT OF CONSTRUCTION [WAQSR Ch 6, Sec 2 Permit CT-11766]
 Approval to construct the engines (E3, E4, and E9), the dehydration unit with still vent and reboiler heater (D2a/D2b), and the produced water storage tank (PWT2) shall become invalid if construction is discontinued for a period of 24 months or more. The Administrator may extend the period based on satisfactory justification of the requested extension.

Testing and Monitoring Requirements

- (F7) EMISSIONS TESTING [W.S. 35-11-110]
- (a) The Division reserves the right to require additional testing as provided under condition G1 of this permit. The Division shall specify the necessary test method(s) and procedure(s) prior to the test, which may include the following test methods found at 40 CFR 60 Appendix A:
 - (i) For visible emissions, Method 9 shall be used.
 - (ii) For NO_x, CO, and VOC emissions from engines, testing shall follow 40 CFR 60 Subpart JJJJ §60.4244, except that §60.8 only applies to engines subject to 40 CFR 60 Subpart JJJJ.
 - (iii) For NO_x emissions from other sources, Methods 1-4 and 7 or 7E shall be used.
 - (iv) For formaldehyde emissions, the testing shall consist of one 1-hour test following EPA Reference Methods and a Division approved formaldehyde test method. Formaldehyde emissions in terms of lb/hr shall be calculated using the methodology in Sections 10.1.1.1 and 10.1.1.2 of the State of Wyoming's Portable Analyzer Protocol. The monitoring protocol can be downloaded from the Air Quality website at <http://deq.wyoming.gov/aqd/title-v/> or is available from the Division upon request.
 - (v) For alternative test methods, or methods used for other pollutants, the approval of the Administrator must be obtained prior to using the test method to measure emissions.
 - (b) Unless otherwise specified, testing shall be conducted in accordance with WAQSR Ch 5, Sec 2(h).
- (F8) INITIAL PERFORMANCE TESTING [WAQSR Ch 6, Sec 2 Permit CT-11766]
 In accordance with WAQSR Ch 6, Sec 2(j), performance tests shall be conducted on the engines (E3, E4, and E9) within 30 days of achieving maximum design rate but not later than 90 days after initial start-up. If the maximum design rate is not achieved within 90 days of start-up, the Administrator may require testing be done at the rate achieved and again when the maximum rate is achieved. A test protocol shall be submitted to the Division for review and approval at least 30 days prior to testing.
- (a) Initial performance testing for NO_x, CO and VOC emissions for each engine shall follow 40 CFR 60 Subpart JJJJ §60.4244, except that §60.8 only applies to engines subject to Subpart JJJJ. For the initial performance test, testing shall not consist of Method 19 or ASTM Methods.
 - (b) For any of the engines (E3, E4, or E9) that are selected to be lean burn (Caterpillar) engines, initial performance testing for formaldehyde emissions must be conducted and shall consist of three 1-hour tests following EPA Reference Methods and a Division approved formaldehyde test method.
 - (c) The reference pressure drop across the catalyst for each engine must be established during initial performance testing.
 - (d) Notification of the test date shall be provided to the Division as specified in condition F14(b). Results of the tests shall be submitted to the Division as specified in condition F15.

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- (F9) **VISIBLE EMISSIONS MONITORING [WAQSR Ch 6, Sec 3(h)(i)(C)(I)]**
 For periodic monitoring of visible emissions from the engines (E1-E9) and the dehydration unit reboiler heaters (D1b and D2b), the permittee shall monitor the type of fuel used to ensure natural gas is the sole fuel source for these units.
- (F10) **ENGINE EMISSIONS MONITORING [WAQSR Ch 6, Sec 3(h)(i)(C)(I); Ch 6, Sec 2 Permit CT-11766]**
- (a) For NO_x, CO, and VOC emissions from the engines (E1-E9), the permittee shall conduct monitoring as follows to assess the compliance with the limits specified in condition F3:
 - (i) Each engine (E1-E9) shall be tested for NO_x, CO, and VOC emissions at least once every 12 calendar months, or more frequently as specified by the Administrator.
 - (ii) Testing for NO_x, CO, and VOC emissions shall follow the methods specified in condition F7(a)(ii).
 - (b) For any of the engines (E3, E4, or E9) that are selected to be lean burn (Caterpillar) engines, the permittee shall conduct monitoring for formaldehyde emissions as follows to assess compliance with the limits specified in condition F3:
 - (i) Each lean burn engine shall be tested for formaldehyde emissions at least once every 12 calendar months, or more frequently as specified by the Administrator.
 - (ii) Testing for formaldehyde emissions shall follow the methods specified in condition F7(a)(iv).
 - (c) For each engine (E1-E9):
 - (i) Annual tests are required within 12 calendar months after completion of the initial performance test or the last periodic test.
 - (ii) Notification of the test date shall be provided to the Division as specified in condition F14(b). Results of the tests shall be submitted to the Division within 45 days of completing the tests, in accordance with condition F15.
 - (d) For any engine installed:
 - (i) The permittee shall notify the Division within 24-hours if any engine testing/monitoring shows operation outside the emission limits specified in condition F3.
 - (ii) Within no later than seven calendar days of such a testing/monitoring event, the permittee shall repair and retest/monitor the affected engine to demonstrate the engine has been returned to operation within the limits in condition F3.
 - (iii) Compliance with this condition regarding repair and retesting/monitoring shall not be deemed to limit the authority of the Division to cite the owner or operator for an exceedance of the emission limits for any testing which shows noncompliance.
- (F11) **CATALYST MONITORING AND MAINTENANCE [WAQSR Ch 6, Sec 2 Permit CT-11766]**
 The permittee shall follow the monitoring and maintenance requirements as follows for the engines (E1-E9) equipped with an oxidation catalyst or NSCR catalyst:
- (a) Install, operate and maintain a thermocouple to measure the temperature at the inlet of the catalyst. The inlet temperature shall be monitored and recorded at least monthly. If the temperature is outside the range listed below, corrective action shall be taken.
 - (i) NSCR Catalyst (all Waukesha engines): 750°F to 1250°F
 - (ii) Oxidation Catalyst (all Caterpillar engines): 450°F to 1350°F
 - (b) Install, operate and maintain a device to measure the pressure drop across the catalyst. The pressure drop across the catalyst shall be monitored and recorded at least monthly. If the pressure changes by more than two inches of water at 100 percent load, plus or minus ten percent, from the reference pressure drop as determined below, corrective action shall be taken.
 - (i) Reference pressure drop for each engine shall be established during the initial performance test.
 - (ii) When a catalyst is replaced, the reference pressure drop shall be re-established for that engine during the first periodic test conducted in compliance with condition F10 which occurs after the catalyst replacement.
 - (c) Compliance with 40 CFR 63 Subpart ZZZZ §63.6605 and §63.6640 may be used in lieu of the monitoring and maintenance requirements in this condition (F11).

Recordkeeping Requirements

- (F12) **TESTING AND MONITORING RECORDS**
 [WAQSR Ch 6, Sec 3(h)(i)(C)(II); Ch 6, Sec 2 Permit CT-11766]
- (a) For any testing or monitoring performed under conditions F7, F8, or F10, other than Method 9 observations, the permittee shall record, as applicable, the following:
 - (i) The date, place, and time of sampling, measurements, or observations;

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- (ii) The date(s) analyses were performed;
 - (iii) The company or entity that performed the analyses or observations;
 - (iv) The analytical techniques or methods used;
 - (v) The results of such analyses or observations;
 - (vi) The operating conditions and parameters as they existed at the time of testing, monitoring, or observation including, for engines, horsepower, inlet temperature to the catalyst, and pressure drop across the catalyst; and
 - (vii) Any corrective actions taken.
- (b) For any Method 9 observations required by the Division under condition F7(a)(i), the permittee shall keep field records in accordance with Section 2.2 of Method 9.
 - (c) For the catalyst monitoring required under condition F11, the permittee shall record the catalyst inlet temperature, pressure drop across the catalyst, the reference pressure drop for each engine at the time of the monitoring, and the dates of catalyst replacement for each engine.
 - (d) The permittee shall retain these records on-site at the facility for a period of at least five years from the date the records are generated.
- (F13) MAINTENANCE RECORDS [WAQSR Ch 6, Sec 3(h)(i)(C)(II); Ch 6, Sec 2 Permit CT-11766]
- (a) The permittee shall maintain records of maintenance activities performed for the engines (E1-E9), which shall include:
 - (i) The maintenance activity performed;
 - (ii) The date and place the activity was performed;
 - (iii) The company and individual(s) that performed the activity;
 - (iv) The purpose of the activity;
 - (v) An explanation for any deviation from good air pollution control practices; and
 - (vi) Any corrective actions taken.
 - (b) The permittee shall retain these records on-site at the facility, for a period of at least five years from the date the records are generated.

Reporting Requirements

- (F14) NOTIFICATION OF START-UP, TESTING, AND SHUTDOWN [WAQSR Ch 6, Sec 3(h)(i)(C)(III); Ch 6, Sec 2 Permit CT-11766]
- (a) Written notification of the actual date of initial start-up for each source (E3, E4, E9, D2a, D2b, and PWT2) is required within 15 days of start-up in accordance with WAQSR Ch 6, Sec 2(i)(ii). For engines, such notification shall be submitted on a complete Engine Installation/Removal form. The form can be downloaded from the Air Quality Division website at <http://deq.wyoming.gov/aqd/new-source-review/> or obtained from the Air Quality Division upon request.
 - (i) With the start-up notification for the engines (E3, E4, and E9), the permittee shall address the applicability of 40 CFR 60 Subpart JJJJ.
 - (b) For the testing required by conditions F7, F8 and F10, the permittee shall notify the Division as follows:
 - (i) For engines subject to the requirements of 40 CFR 60 Subpart JJJJ, the permittee shall provide test notification as specified in §60.8 of 40 CFR 60.
 - (ii) For other engines, notification of the test date shall be provided at least 15 days prior to testing.
 - (c) Upon shutdown and removal of an engine from the facility, written notification is required within 15 days of removal. Such notification must be submitted on a complete Engine Installation/Removal form.
 - (d) Notifications may be provided electronically through the Division's IMPACT system (<https://airimpact.wyo.gov>), or in writing to the DEQ Air Quality Contact listed on page 3 of this permit.
- (F15) TEST REPORTS [WAQSR Ch 6, Sec 3(h)(i)(C)(III); Ch 6, Sec 2 Permit CT-11766]
- (a) The permittee shall report the results of any emissions tests performed under conditions F7, F8, or F10 within 45 days of completing the tests.
 - (i) However, if testing for any engine shows operation out of compliance, the Division must be notified within 24 hours as indicated under condition F10(d)(i).
 - (b) The reports shall include the information specified under condition F12, reference this permit condition (F15), and be submitted to the Division in accordance with condition G4.

- (F16) MONITORING REPORTS [WAQSR Ch 6, Sec 3(h)(i)(C)(III)]
- (a) The following shall be reported to the Division for each semiannual reporting period from January 1 through June 30, and from July 1 through December 31, within 31 days of the end of each period (by July 31 and January 31, respectively, each year):
 - (i) A statement verifying that the emissions units listed in condition F9 fired only natural gas during the reporting period.
 - (ii) The number, duration, and cause of any excursions from the temperature and pressure drop ranges specified in condition F11 for each of the catalytically controlled engines. The report shall include a summary of any maintenance and/or corrective actions taken. If no excursions occurred during the reporting period, this shall be stated in the report.
 - (b) All instances of deviations from the conditions of this permit must be clearly identified in each report.
 - (c) The reports shall include the information specified under condition F12, reference this permit condition (F16), and be submitted to the Division in accordance with condition G4.
- (F17) GREENHOUSE GAS REPORTS [W.S. 35-11-110]
- The permittee shall submit to the Division a summary of any report(s) required to be submitted to the EPA under 40 CFR 98.
- (a) The reports shall be submitted to the Division within 60 days of submission to EPA, in a format as specified by the Division.
 - (b) The reports shall be submitted in accordance with condition G4(a) of this permit, to the attention of the Division's Emission Inventory Program. A copy need not be sent to the DEQ Air Quality contact.
- (F18) REPORTING EXCESS EMISSIONS & DEVIATIONS FROM PERMIT REQUIREMENTS [WAQSR Ch 6, Sec 3(h)(i)(C)(III)]
- (a) General reporting requirements are described under the General Conditions of this permit. The Division reserves the right to require reports as provided under condition G1 of this permit.
 - (b) Emissions which exceed the limits specified in this permit and which are not reported under a different condition of this permit shall be reported annually with the emission inventory unless specifically superseded by condition G17, condition G19, or other condition(s) of this permit. The probable cause of such exceedance, the duration of the exceedance, the magnitude of the exceedance, and any corrective actions or preventative measures taken shall be included in this annual report. For sources and pollutants which are not continuously monitored, if at any time emissions exceed the limits specified in this permit by 100 percent, or if a single episode of emission limit exceedance spans a period of 24 hours or more, such exceedance shall be reported to the Division within one working day of the exceedance. (Excess emissions due to an emergency shall be reported as specified in condition G17. Excess emissions due to unavoidable equipment malfunction shall be reported as specified in condition G19.)
 - (c) Any other deviation from the conditions of this permit shall be reported to the Division in writing within 30 days of the deviation or discovery of the deviation.

**WAQSR CHAPTER 5, SECTION 2 NEW SOURCE PERFORMANCE STANDARDS (NSPS)
AND 40 CFR 60 SUBPART JJJJ REQUIREMENTS
FOR STATIONARY SPARK IGNITION INTERNAL COMBUSTION ENGINES**

SUBPART JJJJ REQUIREMENTS

[40 CFR 60 Subparts A and JJJJ; WAQSR Ch 5, Sec 2; Ch 6, Sec 2 Permit CT-11766]

As applicable, the permittee shall meet all requirements of 40 CFR 60 Subparts A and JJJJ and WAQSR Ch 5, Sec 2, as they apply to affected stationary spark ignition (SI) internal combustion engines (ICE). (As required by condition F4(c), if an engine is replaced or reconstructed, subpart applicability will need to be reevaluated and a statement regarding applicability submitted to the Division.) For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator. An affected source is defined at §60.4230.

On April 27, 2015, engines E1, E2, and E8 were subject to Subpart JJJJ and engine E5 was not subject to Subpart JJJJ according to information submitted to the Division by the permittee. Engines E6 and E7 must meet the requirements of Subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart JJJJ. However, on April 27, 2015, engines E6 and E7 had no applicable requirements from Subpart JJJJ because of their dates of manufacture. The permittee shall determine the applicability of Subpart JJJJ to engines E3, E4, and E9 upon construction of each engine.

**WAQSR CHAPTER 5, SECTION 2 NEW SOURCE PERFORMANCE STANDARDS (NSPS) AND
40 CFR 60 SUBPART OOOO REQUIREMENTS FOR CRUDE OIL AND NATURAL GAS
PRODUCTION, TRANSMISSION AND DISTRIBUTION**

SUBPART OOOO REQUIREMENTS [40 CFR 60 Subparts A and OOOO; and WAQSR Ch 5, Sec 2]

The permittee shall meet all applicable requirements of 40 CFR 60 Subparts A and OOOO and WAQSR Ch 5, Sec 2 as they apply to affected facilities as specified under §60.5365.

The subparts are available at <http://www.gpoaccess.gov/cfr/retrieve.html>, or from the Division upon request.

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**WAQSR CHAPTER 5, SECTION 3 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR
POLLUTANTS (NESHAP) AND 40 CFR 63 SUBPART HH REQUIREMENTS
FOR OIL AND NATURAL GAS PRODUCTION FACILITIES**

SUBPART HH REQUIREMENTS

[40 CFR 63 Subparts A and HH; and WAQSR Ch 5, Sec 3; Ch 6, Sec 2 Permit CT-11766]

The permittee shall meet all requirements of 40 CFR 63 Subparts A and HH and WAQSR Ch 5, Sec 3, as they apply to affected sources as defined in §63.760, located at oil and natural gas production facilities. For area sources, the affected source includes each triethylene glycol (TEG) dehydration unit as specified in §63.760(b)(2), including unit D1a and, if constructed, D2a.

**WAQSR CHAPTER 5, SECTION 3 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR
POLLUTANTS (NESHAP) AND 40 CFR 63 SUBPART ZZZZ REQUIREMENTS FOR
STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES**

SUBPART ZZZZ REQUIREMENTS

[40 CFR 63 Subparts A and ZZZZ; WAQSR Ch 5, Sec 3; Ch 6, Sec 2 Permit CT-11766]

The permittee shall meet all requirements of 40 CFR 63 Subparts A and ZZZZ and WAQSR Ch 5, Sec 3 as they apply to each affected source as indicated in §63.6590(a). An affected source is any existing, new, or reconstructed stationary reciprocating internal combustion engine (RICE) located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand. (As required by condition F4(c), if an engine is replaced or reconstructed, subpart applicability will need to be re-evaluated and a statement regarding applicability submitted to the Division.) This facility is currently identified as an area source of HAP emissions. Affected sources at this facility include engines E1, E2, E5-E8 and, if constructed, engines E3, E4, and E9.

The subparts are available at <http://www.gpoaccess.gov/cfr/retrieve.html>, or from the Division upon request.

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COMPLIANCE CERTIFICATION AND SCHEDULE

Compliance Certification [WAQSR Ch 6, Sec 3(h)(iii)(E)]

- (C1) (a) The permittee shall submit by January 31 each year a certification addressing compliance with the requirements of this permit. The certification shall be submitted as a stand-alone document separate from any monitoring reports required under this permit.
- (b) (i) For visible emissions, the permittee shall assess compliance with condition F2 of this permit by verifying natural gas was the sole fuel source used for the units specified in condition F9.
- (ii) For NO_x, CO, VOC, and formaldehyde emissions, the permittee shall assess compliance with condition F3 by conducting the testing and monitoring required by conditions F8, F10, and F11.
- (iii) For greenhouse gas reporting, the permittee shall assess compliance with condition F17 by verifying that reports were submitted in accordance with condition F17(a) and (b).
- (iv) For any engine subject to 40 CFR 60 Subpart JJJJ, the permittee shall assess compliance with Subpart JJJJ by conducting any applicable testing and monitoring required by §§60.4237, 60.4243, and 60.4244, and by reviewing the records required by §§60.4245 and 60.4246.
- (v) For any affected facility subject to 40 CFR 60 Subpart OOOO, the permittee shall assess compliance with Subpart OOOO by conducting any applicable testing and monitoring required by §§60.5413 through 60.5417 and by reviewing any applicable records required by §60.5420.
- (vi) The permittee shall assess compliance with 40 CFR 63 Subpart HH by reviewing any records required by §§63.760 and 63.774.
- (vii) For the reciprocating internal combustion engines, the permittee shall assess compliance with 40 CFR 63 Subpart ZZZZ by conducting any applicable testing and monitoring required by §§63.6610 through 63.6640 and by reviewing the records required by §§63.6655 and 63.6665.
- (c) The compliance certification shall include:
- (i) The permit condition or applicable requirement that is the basis of the certification;
- (ii) The current compliance status;
- (iii) Whether compliance was continuous or intermittent; and
- (iv) The methods used for determining compliance.
- (d) For any permit conditions or applicable requirements for which the source is not in compliance, the permittee shall submit with the compliance certification a proposed compliance plan and schedule for Division approval.
- (e) The compliance certification shall be submitted to the Division in accordance with condition G4 of this permit and to the Assistant Regional Administrator, Office of Enforcement, Compliance, and Environmental Justice (8ENF-T), U.S. EPA - Region VIII, 1595 Wynkoop Street, Denver, CO 80202-1129.
- (f) Determinations of compliance or violations of this permit are not restricted to the monitoring requirements listed in paragraph (b) of this condition; other credible evidence may be used.

Compliance Schedule [WAQSR Ch 6, Sec 3(h)(iii)(C) and (D)]

- (C2) The permittee shall continue to comply with the applicable requirements with which the permittee has certified that it is already in compliance.
- (C3) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.

GENERAL PERMIT CONDITIONS

Powers of the Administrator: [W.S. 35-11-110]

- (G1) (a) The Administrator may require the owner or operator of any point source to complete plans and specifications for any application for a permit required by the Wyoming Environmental Quality Act or regulations made pursuant thereto and require the submission of such reports regarding actual or potential violations of the Wyoming Environmental Quality Act or regulations thereunder.
- (b) The Administrator may require the owner or operator of any point source to establish and maintain records; make reports; install, use and maintain monitoring equipment or methods; sample emissions, or provide such other information as may be reasonably required and specified.

Permit Renewal and Expiration: [WAQSR Ch 6, Sec 3(c)(i)(C), (d)(ii), (d)(iv)(B), and (h)(i)(B)] [W.S. 35-11-206(f)]

- (G2) This permit is issued for a fixed term of five years. Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application is submitted at least six months prior to the date of permit expiration. If the permittee submits a timely and complete application for renewal, the permittee's failure to have an operating permit is not a violation of WAQSR Chapter 6, Section 3 until the Division takes final action on the renewal application. This protection shall cease to apply after a completeness determination if the applicant fails to submit by the deadline specified in writing by the Division any additional information identified as being needed to process the application.

Duty to Supplement: [WAQSR Ch 6, Sec 3(c)(iii)]

- (G3) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information. The permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after this permit is issued.

Submissions: [WAQSR Ch 6, Sec 3(c)(iv)] [W.S. 35-11-206(c)]

- (G4) (G4) Any application form, report, or certification submitted shall be certified as being true, accurate, and complete by a responsible official.
- (a) Submissions to the Division including reports, certifications, and emission inventories required under this permit shall be submitted either:
- (i) Electronically through the Division's IMPACT system (<https://airimpact.wyo.gov>); or
 - (ii) As separate, stand-alone documents sent to:
 - (A) Administrator, Air Quality Division
122 West 25th Street
Cheyenne, Wyoming 82002
 - (B) Unless otherwise noted elsewhere in this permit, a copy of each submission shall also be sent to the DEQ Air Quality Contact listed on page 3 of this permit.
- (b) Submissions to EPA.
- (i) Each certification required under condition C1 of this permit shall also be sent to:
Assistant Regional Administrator
Office of Enforcement, Compliance, and Environmental Justice (8ENF-T)
U.S. EPA - Region VIII
1595 Wynkoop Street
Denver, CO 80202-1129.
 - (ii) All other required submissions to EPA shall be sent to:
Office of Partnerships and Regulatory Assistance
Air and Radiation Program (8P-AR)
U.S. EPA - Region VIII
1595 Wynkoop Street
Denver, CO 80202-1129

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Changes for Which No Permit Revision Is Required: [WAQSR Ch 6, Sec 3(d)(iii)]

- (G5) The permittee may change operations without a permit revision provided that:
- (a) The change is not a modification under any provision of title I of the Clean Air Act;
 - (b) The change has met the requirements of Chapter 6, Section 2 of the WAQSR and is not a modification under Chapter 5, Section 2 or Chapter 6, Section 4 of the WAQSR and the changes do not exceed the emissions allowed under the permit (whether expressed therein as a rate of emissions or in terms of total emissions); and
 - (c) The permittee provides EPA and the Division with written notification at least 14 days in advance of the proposed change. The permittee, EPA, and the Division shall attach such notice to their copy of the relevant permit. For each such change, the written notification required shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change. The permit shield, if one exists for this permit, shall not apply to any such change made.

Transfer of Ownership or Operation: [WAQSR Ch 6, Sec 3(d)(v)(A)(IV)]

- (G6) A change in ownership or operational control of this facility is treated as an administrative permit amendment if no other change in this permit is necessary and provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Division.

Reopening for Cause: [WAQSR Ch 6, Sec 3(d)(vii)] [W.S. 35-11-206(f)(ii) and (iv)]

- (G7) The Division will reopen and revise this permit as necessary to remedy deficiencies in the following circumstances:
- (a) Additional applicable requirements under the Clean Air Act or the WAQSR that become applicable to this source if the remaining permit term is three or more years. Such reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No 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 have been extended.
 - (b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - (c) The Division or EPA 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.
 - (d) The Division or EPA determines that the permit must be revised or revoked to assure compliance with applicable requirements.

Annual Fee Payment: [WAQSR Ch 6, Sec 3(f)(i), (ii), and (vi)] [W.S. 35-11-211]

- (G8) The permittee shall, as a condition of continued operations, submit an annual fee to the Division as established in Chapter 6, Section 3 (f) of the WAQSR. The Division shall give written notice of the amount of fee to be assessed and the basis for such fee assessment annually. The assessed fee is due on receipt of the notice unless the fee assessment is appealed pursuant to W.S. 35-11-211(d). If any part of the fee assessment is not appealed it shall be paid to the Division on receipt of the written notice. Any remaining fee which may be due after completion of the appeal is immediately due and payable upon issuance of the Council's decision. Failure to pay fees owed the Division is a violation of Chapter 6, Section 3 (f) and W.S. 35-11-203 and may be cause for the revocation of this permit.

Annual Emissions Inventories: [WAQSR Ch 6, Sec 3(f)(v)(G)]

- (G9) The permittee shall submit an annual emission inventory for this facility to the Division for fee assessment and compliance determinations within 60 days following the end of the calendar year. The emissions inventory shall be in a format specified by the Division and be submitted in accordance with condition G4(a) of this permit.

Severability Clause: [WAQSR Ch 6, Sec 3(h)(i)(E)]

- (G10) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

Compliance: [WAQSR Ch 6, Sec 3(h)(i)(F)(I) and (II)] [W.S. 35-11-203(b)]

(G11) The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Air Act, Article 2 of the Wyoming Environmental Quality Act, and the WAQSR and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. 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.

Permit Actions: [WAQSR Ch 6, Sec 3(h)(i)(F)(III)] [W.S. 35-11-206(f)]

(G12) This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Property Rights: [WAQSR Ch 6, Sec 3(h)(i)(F)(IV)]

(G13) This permit does not convey any property rights of any sort, or any exclusive privilege.

Duty to Provide Information: [WAQSR Ch 6, Sec 3(h)(i)(F)(V)]

(G14) The permittee shall furnish to the Division, within a reasonable time, any information that the Division may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Division copies of records required to be kept by the permit, including information claimed and shown to be confidential under W.S. 35-11-1101 (a) of the Wyoming Environmental Quality Act. Upon request by the Division, the permittee shall also furnish confidential information directly to EPA along with a claim of confidentiality.

Emissions Trading: [WAQSR Ch 6, Sec 3(h)(i)(H)]

(G15) No permit revision is required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

Inspection and Entry: [WAQSR Ch 6, Sec 3(h)(iii)(B)] [W.S. 35-11-206(c)]

(G16) Authorized representatives of the Division, upon presentation of credentials and other documents as may be required by law, shall be given permission to:

- (a) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) have access to and copy at reasonable times any records that must be kept under the conditions of this permit;
- (c) inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) sample or monitor any substances or parameters at any location, during operating hours, for the purpose of assuring compliance with this permit or applicable requirements.

Excess Emissions Due to an Emergency: [WAQSR Ch 6, Sec 3(l)]

(G17) The permittee may seek to establish that noncompliance with a technology-based emission limitation under this permit was due to an emergency, as defined in Ch 6, Sec 3(l)(i) of the WAQSR. To do so, the permittee shall demonstrate the affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (a) an emergency occurred and that the permittee can identify the cause(s) of the emergency;
- (b) the permitted facility was, at the time, 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 this permit;
- (d) The permittee submitted notice of the emergency to the Division within one working day of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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Diluting and Concealing Emissions: [WAQSR Ch 1, Sec 4]

- (G18) No person shall cause or permit the installation or use of any device, contrivance, or operational schedule which, without resulting in reduction of the total amount of air contaminant released to the atmosphere, shall dilute or conceal an emission from a source. This condition shall not apply to the control of odors.

Unavoidable Equipment Malfunction: [WAQSR Ch 1, Sec 5]

- (G19) (a) Any source believing that any emissions in excess of established regulation limits or standards resulted from an unavoidable equipment malfunction, shall notify the Division within 24 hours of the incident via telephone, electronic mail, fax, or other similar method. A detailed description of the circumstances of the incident as described in paragraph 5(a)(i)(A) Chapter 1, including a corrective program directed at preventing future such incidents, must be submitted within 14 days of the onset of the incident. The Administrator may extend this 14-day time period for cause.
- (b) The burden of proof is on the owner or operator of the source to provide sufficient information to demonstrate that an unavoidable equipment malfunction occurred.

Fugitive Dust: [WAQSR Ch 3, Sec 2(f)]

- (G20) The permittee shall minimize fugitive dust in compliance with standards in Ch 3, Sec 2(f) of WAQSR for construction/demolition activities, handling and transportation of materials, and agricultural practices.

Carbon Monoxide: [WAQSR Ch 3, Sec 5]

- (G21) The emission of carbon monoxide in stack gases from any stationary source shall be limited as may be necessary to prevent ambient standards from being exceeded.

Asbestos: [WAQSR Ch 3, Sec 8]

- (G22) The permittee shall comply with emission standards for asbestos during abatement, demolition, renovation, manufacturing, spraying and fabricating activities.
- (a) No owner or operator shall build, erect, install, or use any article, machine, equipment, process, or method, 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 dilutants to achieve compliance with a visible emissions standard, and the piecemeal carrying out of an operation to avoid coverage by a standard that applies only to operations larger than a specified size.
- (b) All owners and operators conducting an asbestos abatement project, including an abatement project on a residential building, shall be responsible for complying with Federal requirements and State standards for packaging, transportation, and delivery to an approved waste disposal facility as provided in paragraph (m) of Ch 3, Sec 8.
- (c) The permittee shall follow State and Federal standards for any demolition and renovation activities conducted at this facility, including:
- (i) A thorough inspection of the affected facility or part of the facility where the demolition or renovation activity will occur shall be conducted to determine the presence of asbestos, including Category I and Category II non-friable asbestos containing material. The results of the inspection will determine which notification and asbestos abatement procedures are applicable to the activity.
- (ii) The owner or operator shall follow the appropriate notification requirements of Ch 3, Sec 8(i)(ii).
- (iii) The owner or operator shall follow the appropriate procedures for asbestos emissions control, as specified in Chapter 3, Section 8(i)(iii).
- (d) No owner or operator of a facility may install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. The provisions of this paragraph do not apply to spray-applied insulating materials regulated under paragraph (j) of Ch 3, Sec 8.
- (e) The permittee shall comply with all other requirements of WAQSR Ch 3, Sec 8.

Open Burning Restrictions: [WAQSR Ch 10, Sec 2]

- (G23) The permittee conducting an open burn shall comply with all rules and regulations of the Wyoming Department of Environmental Quality, Division of Air Quality, and with the Wyoming Environmental Quality Act.
- (a) No person shall burn prohibited materials using an open burning method, except as may be authorized by permit. "**Prohibited materials**" means substances including, but not limited to, natural or synthetic rubber products, including tires; waste petroleum products, such as oil or used oil filters; insulated

wire; plastic products, including polyvinyl chloride ("PVC") pipe, tubing and connectors; tar, asphalt, asphalt shingles, or tar paper; railroad ties; wood, wood waste, or lumber that is painted or chemically treated; explosives or ammunition; batteries; hazardous waste products; asbestos or asbestos containing materials; or materials which cause dense smoke discharges, excluding refuse and flaring associated with oil and gas well testing, completions and well workovers.

- (b) No person or organization shall conduct or cause or permit open burning for the disposal of trade wastes, for a salvage operation, for the destruction of fire hazards if so designated by a jurisdictional fire authority, or for firefighting training, except when it can be shown by a person or organization that such open burning is absolutely necessary and in the public interest. Any person or organization intending to engage in such open burning shall file a request to do so with the Division.

Sulfur Dioxide Emission Trading and Inventory Program [WAQSR Ch 14]

- (G24) Any BART (Best Available Retrofit Technology) eligible facility, or facility which has actual emissions of SO₂ greater than 100 tpy in calendar year 2000 or any subsequent year, shall comply with the applicable requirements of WAQSR Ch 14, Sections 1 through 3, with the exceptions described in sections 2(c) and 3(a).

Stratospheric Ozone Protection Requirements: [40 CFR Part 82]

- (G25) The permittee shall comply with all applicable Stratospheric Ozone Protection Requirements, including but not limited to:
- (a) *Standards for Appliances* [40 CFR Part 82, Subpart F]
The permittee shall comply with the standards for recycling and emission reduction pursuant to 40 CFR Part 82, Subpart F - Recycling and Emissions Reduction, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
- (i) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
 - (ii) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
 - (iii) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
 - (iv) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. ("MVAC-like appliance" is defined at §82.152).
 - (v) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.166.
 - (vi) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
 - (vii) The permittee shall comply with all other requirements of Subpart F.
- (b) *Standards for Motor Vehicle Air Conditioners* [40 CFR Part 82, Subpart B]
If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant in the MVAC, the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the airtight sealed refrigeration system used as refrigerated cargo, or the system used on passenger buses using HCFC-22 refrigerant.

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STATE ONLY PERMIT CONDITIONS

The conditions listed in this section are State only requirements and are not federally enforceable.

Ambient Standards

(S1) The permittee shall operate the emission units described in this permit such that the following ambient standards are not exceeded:

| POLLUTANT | STANDARD | CONDITION | WAQSR CH 2, SEC |
|--------------------------------------|--|--|-----------------|
| PM ₁₀ particulate matter | 50 micrograms per cubic meter | annual arithmetic mean | 2 (a) |
| | 150 micrograms per cubic meter | 24-hr average concentration with not more than one exceedance per year | |
| PM _{2.5} particulate matter | 15 micrograms per cubic meter | annual arithmetic mean | 2 (b) |
| | 35 micrograms per cubic meter | 98 th percentile 24-hr average concentration | |
| Nitrogen dioxide | 53 parts per billion | annual average concentration | 3 |
| | 100 parts per billion | three-year average of the annual 98 th percentile of the daily maximum 1-hr average concentration | |
| | 0.053 parts per million | annual arithmetic mean | |
| Sulfur dioxide | 75 parts per billion | three-year average of the annual (99 th percentile) of the daily max 1-hr average | 4 |
| | 0.5 parts per million | 3-hr blocks not to be exceeded more than once per calendar year | |
| Carbon monoxide | 10 milligrams per cubic meter | max 8-hr concentration with not more than one exceedance per year | 5 |
| | 40 milligrams per cubic meter | max 1-hr concentration with not more than one exceedance per year | |
| Ozone | 0.075 parts per million | three-year average of the annual fourth-highest daily maximum 8-hr average concentration | 6 |
| Hydrogen sulfide | 70 micrograms per cubic meter | ½ hour average not to be exceeded more than two times per year | 7 |
| | 40 micrograms per cubic meter | ½ hour average not to be exceeded more than two times in any five consecutive days | |
| Suspended sulfate | 0.25 milligrams SO ₃ per 100 square centimeters per day | maximum annual average | 8 |
| | 0.50 milligrams SO ₃ per 100 square centimeters per day | maximum 30-day value | |
| Lead and its compounds | 0.15 micrograms per cubic meter | maximum arithmetic 3-month mean concentration for a 3-year period | 10 |

*Exceedances of these standards shall be determined using the procedures in 40 CFR 50.

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Hydrogen Sulfide: [WAQSR Ch 3, Sec 7]

- (S2) Any exit process gas stream containing hydrogen sulfide which is discharged to the atmosphere from any source shall be vented, incinerated, flared or otherwise disposed of in such a manner that ambient sulfur dioxide and hydrogen sulfide standards are not exceeded.

Odors: [WAQSR Ch 2, Sec 11]

- (S3) (a) The ambient air standard for odors from any source shall be limited to an odor emission at the property line which is undetectable at seven dilutions with odor free air as determined by a scentometer as manufactured by the Barnebey-Cheney Company or any other instrument, device, or technique designated by the Division as producing equivalent results. The occurrence of odors shall be measured so that at least two measurements can be made within a period of one hour, these determinations being separated by at least 15 minutes.
- (b) Odor producing materials shall be stored, transported, and handled in a manner that odors produced from such materials are confined and that accumulation of such materials resulting from spillage or other escape is prevented.

SUMMARY OF SOURCE EMISSION LIMITS AND REQUIREMENTS

Source ID#: E1 and E2 Source Description: Waukesha L7044GSI Engine

| Pollutant | Emissions Limit/ Work Practice Standard | Corresponding Regulation(s) | Testing Requirements | Monitoring Requirements | Recordkeeping Requirements | Reporting Requirements |
|--|---|--------------------------------------|---|---|--|---|
| Particulate | 20 percent opacity [F2] | WAQSR Ch 3, Sec 2 | Testing if required [F7] | Verification of natural gas firing [F9] | Record any additional test results [F12] | Semiannual: report type of fuel fired [F16] Report excess emissions and permit deviations [F18] |
| NOx | 0.7 g/hp-hr 2.6 lb/hr 11.4 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| CO | 2.0 g/hp-hr 7.4 lb/hr 32.4 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| VOC | 0.7 g/hp-hr 2.6 lb/hr 11.4 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Annual testing [F10] Additional testing if required [F7] | Annual Testing [F10] | Record test results [F12] | Notifications [F14] 45 days: report test results [F15] Report excess emissions and permit deviations [F18] |
| Additional NO _x , CO, and VOC | | | | | | |
| HAPs | | | | | | |

WAQSR Ch 5, Sec 2 and 40 CFR 60 Subparts A & JJJJ

WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ

These tables are intended only to highlight and summarize applicable requirements for each source. The corresponding permit conditions, listed in brackets, contain detailed descriptions of the compliance requirements. Compliance with the summary conditions in these tables may not be sufficient to meet permit requirements. These tables may not reflect all emission sources at this facility.

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Source ID#: E3 and/or E4 if installed Source Description: Waukesha L7044GSI Engine

| Pollutant | Emissions Limit Work Practice Standard | Corresponding Regulation(s) | Testing Requirements | Monitoring Requirements | Recordkeeping Requirements | Reporting Requirements |
|--|--|--------------------------------------|---|---|--|---|
| Particulate | 20 percent opacity [F2] | WAQSR Ch 3, Sec 2 | Testing if required [F7] | Verification of natural gas firing [F9] | Record any additional test results [F12] | Semiannual: report type of fuel fired [F16] Report excess emissions and permit deviations [F18] |
| NOx | 0.7 g/hp-hr 2.6 lb/hr 11.4 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Initial performance testing [F8] Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| CO | 2.0 g/hp-hr 7.4 lb/hr 32.4 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Initial performance testing [F8] Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| VOC | 0.7 g/hp-hr 2.6 lb/hr 11.4 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Initial performance testing [F8] Annual testing [F10] Additional testing if required [F7] | Annual testing [F10] | Record test results [F12] | Notifications [F14] 45 days: report test results [F15] Report excess emissions and permit deviations [F18] |
| Additional NO _x , CO, and VOC | | | | | | WAQSR Ch 5, Sec 2 and 40 CFR 60 Subparts A & JJJJ (determine applicability upon construction) |
| HAPs | | | | | | WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ |

These tables are intended only to highlight and summarize applicable requirements for each source. The corresponding permit conditions, listed in brackets, contain detailed descriptions of the compliance requirements. Compliance with the summary conditions in these tables may not be sufficient to meet permit requirements. These tables may not reflect all emission sources at this facility.

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Source ID#: E3 and/or E4 if installed Source Description: Caterpillar G3606LE Engine

| Pollutant | Emissions Limit/ Work Practice Standard | Corresponding Regulation(s) | Testing Requirements | Monitoring Requirements | Recordkeeping Requirements | Reporting Requirements |
|-----------------------------|---|--------------------------------------|---|---|--|---|
| Particulate | 20 percent opacity [F2] | WAQSR Ch 3, Sec 2 | Testing if required [F7] | Verification of natural gas firing [F9] | Record any additional test results [F12] | Semiannual: report type of fuel fired [F16] Report excess emissions and permit deviations [F18] |
| NOx | 0.7 g/hp-hr 2.7 lb/hr 12.0 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Initial performance testing [F8] Annual testing [F10] Additional testing if required [F7] | Annual testing [F10] | Record test results [F12] | Notifications [F14] 45 days: report test results [F15] Report excess emissions and permit deviations [F18] |
| CO | 0.25 g/hp-hr 1.0 lb/hr 4.3 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Initial performance testing [F8] Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| VOC | 0.7 g/hp-hr 2.7 lb/hr 12.0 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Initial performance testing [F8] Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| Formaldehyde | 0.27 lb/hr 1.20 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Initial performance testing [F8] Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| Additional NOx, CO, and VOC | | | WAQSR Ch 5, Sec 2 and 40 CFR 60 Subparts A & JJJJ (determine applicability upon construction) | | | |
| HAPs | | | WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ | | | |

These tables are intended only to highlight and summarize applicable requirements for each source. The corresponding permit conditions, listed in brackets, contain detailed descriptions of the compliance requirements. Compliance with the summary conditions in these tables may not be sufficient to meet permit requirements. These tables may not reflect all emission sources at this facility.

Source ID#: E5 Source Description: Waukesha F3524GSI Engine

| Pollutant | Emissions Limit Default Standard | Work Practice Standard | Corresponding Regulations | Testing Requirements | Monitoring Requirements | Recordkeeping Requirements | Reporting Requirements | |
|-----------------|---|---------------------------|---|---|---|--|---|--|
| Particulate | 20 percent opacity [F2] | | WAQSR Ch 3, Sec 2 | Testing if required [F7] | Verification of natural gas firing [F9] | Record any additional test results [F12] | Semiannual: report type of fuel fired [F16] Report excess emissions and permit deviations [F18] | |
| NO _x | 0.7 g/hp-hr 1.3 lb/hr 5.7 tpy [F3] | | WAQSR Ch 6, Sec 2 Permit CT-11766 | Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] | |
| CO | 2.0 g/hp-hr 3.7 lb/hr 16.2 tpy [F3] | | WAQSR Ch 6, Sec 2 Permit CT-11766 | Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] | |
| VOC | 0.7 g/hp-hr 1.3 lb/hr 5.7 tpy [F3] | | WAQSR Ch 6, Sec 2 Permit CT-11766 | Annual testing [F10] Additional testing if required [F7] | Annual testing [F10] | Record test results [F12] | Notifications [F14] 45 days: report test results [F15] Report excess emissions and permit deviations [F18] | |
| HAPs | | | WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ | | | | | |

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Source ID#: E6 and E7 Source Description: Waukesha F3524GSI Engine

| Pollutant | Emissions Limit/Work Practice Standard | Corresponding Regulation(s) | Testing Requirements | Monitoring Requirements | Recordkeeping Requirements | Reporting Requirements |
|--|---|--------------------------------------|---|---|--|---|
| Particulate | 20 percent opacity [F2] | WAQSR Ch 3, Sec 2 | Testing if required [F7] | Verification of natural gas firing [F9] | Record any additional test results [F12] | Semiannual: report type of fuel fired [F16] Report excess emissions and permit deviations [F18] |
| NO _x | 0.7 g/hp-hr 1.3 lb/hr 5.7 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| CO | 2.0 g/hp-hr 3.7 lb/hr 16.2 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| VOC | 0.7 g/hp-hr 1.3 lb/hr 5.7 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Annual testing [F10] Additional testing if required [F7] | Annual testing [F10] | Record test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Report excess emissions and permit deviations [F18] |
| Additional NO _x , CO, and VOC | | | | | | |
| HAPs | | | | | | |

As applicable, WAQSR Ch 5, Sec 2 and 40 CFR 60 Subparts A & JJJJ

WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ

These tables are intended only to highlight and summarize applicable requirements for each source. The corresponding permit conditions, listed in brackets, contain detailed descriptions of the compliance requirements. Compliance with the summary conditions in these tables may not be sufficient to meet permit requirements. These tables may not reflect all emission sources at this facility.

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Source ID#: E8 Source Description: Waukesha F3524GSI Engine

| Pollutant | Emissions Limit, Work Practice Standard | Corresponding Regulations | Testing Requirements | Monitoring Requirements | Record Keeping Requirements | Reporting Requirements |
|-----------------------------|---|--------------------------------------|---|---|--|---|
| Particulate | 20 percent opacity [F2] | WAQSR Ch 3, Sec 2 | Testing if required [F7] | Verification of natural gas firing [F9] | Record any additional test results [F12] | Semiannual: report type of fuel fired [F16] Report excess emissions and permit deviations [F18] |
| NOx | 0.7 g/hp-hr 1.3 lb/hr 5.7 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| CO | 2.0 g/hp-hr 3.7 lb/hr 16.2 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| VOC | 0.7 g/hp-hr 1.3 lb/hr 5.7 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Annual testing [F10] Additional testing if required [F7] | Annual testing [F10] | Record test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Report excess emissions and permit deviations [F18] |
| Additional NOx, CO, and VOC | | | | | | |
| HAPs | | | | | | |

WAQSR Ch 5, Sec 2 and 40 CFR 60 Subparts A & JJJJ

WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ

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Source ID#: E9 if installed Source Description: Waukesha F3524GSI Engine

| Pollutant | Emissions Limit/Work Practice Standard | Corresponding Regulation(s) | Testing Requirements | Monitoring Requirements | Recordkeeping Requirements | Reporting Requirements |
|-----------------------------|---|--------------------------------------|---|---|--|---|
| Particulate | 20 percent opacity [F2] | WAQSR Ch 3, Sec 2 | Testing if required [F7] | Verification of natural gas firing [F9] | Record any additional test results [F12] | Semiannual: report type of fuel fired [F16] Report excess emissions and permit deviations [F18] |
| NOx | 0.7 g/hp-hr 1.3 lb/hr 5.7 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Initial performance testing [F8] Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| CO | 2.0 g/hp-hr 3.7 lb/hr 16.2 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Initial performance testing [F8] Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| VOC | 0.7 g/hp-hr 1.3 lb/hr 5.7 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Initial performance testing [F8] Annual testing [F10] Additional testing if required [F7] | Annual testing [F10] | Record test results [F12] | Notifications [F14] 45 days: report test results [F15] Report excess emissions and permit deviations [F18] |
| Additional NOx, CO, and VOC | | | | | | |
| HAPs | | | | | | |

WAQSR Ch 5, Sec 2 and 40 CFR 60 Subparts A & JJJJ (determine applicability upon construction)

WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ

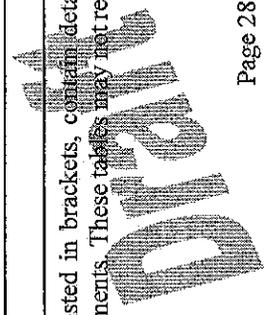
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Source ID#: E9 if installed Source Description: Caterpillar G3512LE Engine

| Pollutant | Emissions Limit/Work Practice Standard | Concessions Regulation(s) | Testing Requirements | Monitoring Requirements | Recordkeeping Requirements | Reporting Requirements |
|--|--|--------------------------------------|---|---|--|---|
| Particulate | 20 percent opacity [F2] | WAQSR Ch 3, Sec 2 | Testing if required [F7] | Verification of natural gas firing [F9] | Record any additional test results [F12] | Semiannual: report type of fuel fired [F16] Report excess emissions and permit deviations [F18] |
| NO _x | 1.0 g/hp-hr 2.0 lb/hr 8.8 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Initial performance testing [F8] Annual testing [F10] Additional testing if required [F7] | Annual testing [F10] | Record test results [F12] | Notifications [F14] 45 days: report test results [F15] Report excess emissions and permit deviations [F18] |
| CO | 0.5 g/hp-hr 1.0 lb/hr 4.4 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Initial performance testing [F8] Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| VOC | 0.7 g/hp-hr 1.4 lb/hr 6.0 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Initial performance testing [F8] Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| Formaldehyde | 0.14 lb/hr 0.62 tpy [F3] | WAQSR Ch 6, Sec 2 Permit CT-11766 | Initial performance testing [F8] Annual testing [F10] Additional testing if required [F7] | Catalyst monitoring and maintenance [F11] | Record monitoring and test results [F12] Record maintenance [F13] | Notifications [F14] 45 days: report test results [F15] Semiannual: report monitoring results [F16] Report excess emissions and permit deviations [F18] |
| Additional NO _x , CO, and VOC | | | | | | |
| HAPs | | | | | | |
| WAQSR Ch 5, Sec 2 and 40 CFR 60 Subparts A & JJJ (determine applicability upon construction) | | | | | | |
| WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ | | | | | | |

These tables are intended only to highlight and summarize applicable requirements for each source. The corresponding permit conditions, listed in brackets, contain detailed descriptions of the compliance requirements. Compliance with the summary conditions in these tables may not be sufficient to meet permit requirements. These tables may not reflect all emission sources at this facility.



Source ID#: D1a and D2a if installed Source Description: Dehydration Unit Still Vents

| Pollutant | Emissions Limit/Work Practice Standard | Corresponding Regulation(s) | Testing Requirements | Monitoring Requirements | Recordkeeping Requirements | Reporting Requirements |
|-----------|--|-----------------------------|--|-------------------------|----------------------------|------------------------|
| Benzene | | | WAQSR Ch 5, Sec 3; 40 CFR 63 Subparts A and HH | | | |

Source ID#: D1b and D2b if installed Source Description: Dehydration Unit Reboiler Heaters

| Pollutant | Emissions Limit/Work Practice Standard | Corresponding Regulation(s) | Testing Requirements | Monitoring Requirements | Recordkeeping Requirements | Reporting Requirements |
|-------------|--|-----------------------------|--------------------------|---|--|--|
| Particulate | 20 percent opacity [F2] | WAQSR Ch 3, Sec 2 | Testing if required [F7] | Verification of natural gas firing [F9] | Record any additional test results [F12] | Semiannual: report type of fuel fired [F16] Report excess emissions and permit deviations [F18] |
| NOx | 0.20 lb/MMBtu [F5] | WAQSR Ch 3, Sec 3 | Testing if required [F7] | None | Record any additional test results [F12] | Report excess emissions and permit deviations [F18] |

These tables are intended only to highlight and summarize applicable requirements for each source. The corresponding permit conditions, listed in brackets, contain detailed descriptions of the compliance requirements. Compliance with the summary conditions in these tables may not be sufficient to meet permit requirements. These tables may not reflect all emission sources at this facility.

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ABBREVIATIONS

| | |
|------------------|---|
| ACFM | Actual cubic feet per minute |
| AFRC | Air-fuel ratio controls |
| AQD | Air Quality Division |
| BACT | Best available control technology (see Definitions) |
| Btu | British thermal unit |
| CAA | Clean Air Act |
| CAM | Compliance Assurance Monitoring |
| CE | Control Equipment |
| CFR | Code of Federal Regulations |
| CO | Carbon monoxide |
| CO _{2e} | Carbon dioxide equivalent |
| DEQ | Wyoming Department of Environmental Quality |
| EPA | United States Environmental Protection Agency (see Definitions) |
| ESP | Electrostatic Precipitator |
| EU | Emission Unit |
| g/hp-hr | Gram(s) per horsepower hour |
| gal | Gallon(s) |
| gr | Grain(s) |
| H ₂ S | Hydrogen sulfide |
| HAP(s) | Hazardous air pollutant(s) |
| hp | Horsepower |
| hr | Hour(s) |
| lb | Pound(s) |
| M | Thousand |
| MACT | Maximum available control technology (see Definitions) |
| mfr | Manufacturer |
| mg | Milligram(s) |
| MM | Million |
| MVACs | Motor vehicle air conditioners |
| NO _x | Oxides of nitrogen |
| NSCR | Non-selective catalytic reduction |
| O ₂ | Oxygen |
| PM | Particulate matter |
| PM ₁₀ | Particulate matter less than or equal to a nominal diameter of 10 micrometers |
| ppmv | Parts per million (by volume) |
| ppmw | Parts per million (by weight) |
| QIP | Quality Improvement Plan |
| RICE | Reciprocating internal combustion engine |
| RP | Release Point |
| SCF | Standard cubic foot (feet) |
| SCFD | Standard cubic foot (feet) per day |
| SCM | Standard cubic meter(s) |
| SIC | Standard Industrial Classification |
| SO ₂ | Sulfur dioxide |
| SO _x | Oxides of sulfur |
| TBD | To be determined |
| TPD | Ton(s) per day (1 ton = 2000 pounds, unless otherwise specified) |
| TPH | Ton(s) per hour (1 ton = 2000 pounds, unless otherwise specified) |
| TPY | Tons per year (1 ton = 2000 pounds, unless otherwise specified) |
| U.S.C. | United States Code |
| µg | Microgram(s) |
| VOC(s) | Volatile organic compound(s) |
| W.S. | Wyoming Statute |
| WAQSR | Wyoming Air Quality Standards & Regulations (see Definitions) |

DEFINITIONS

"Act" means the Clean Air Act, as amended, 42 U.S.C. 7401, *et seq.*

"Administrator" means Administrator of the Air Quality Division, Wyoming Department of Environmental Quality.

"Applicable requirement" means all of the following as they apply to emissions units at a source subject to Chapter 6, Section 3 of the WAQSR (including requirements with future effective compliance dates that have been promulgated or approved by the EPA or the State through rulemaking at the time of issuance of the operating permit):

- (a) Any standard or other requirement provided for in the Wyoming implementation plan approved or promulgated by EPA under title I of the Act that implements the relevant requirements of the Act, including any revisions to the plan promulgated in 40 CFR Part 52;
- (b) Any standards or requirements in the WAQSR which are not a part of the approved Wyoming implementation plan and are not federally enforceable;
- (c) Any term or condition of any preconstruction permits issued pursuant to regulations approved or promulgated through rulemaking under title I, including parts C or D of the Act and including Chapter 5, Section 2 and Chapter 6, Sections 2 and 4 of the WAQSR;
- (d) Any standard or other requirement promulgated under Section 111 of the Act, including Section 111(d) and Chapter 5, Section 2 of the WAQSR;
- (e) Any standard or other requirement under Section 112 of the Act, including any requirement concerning accident prevention under Section 112(r)(7) of the Act and including any regulations promulgated by EPA and the State pursuant to Section 112 of the Act;
- (f) Any standard or other requirement of the acid rain program under title IV of the Act or the regulations promulgated thereunder;
- (g) Any requirements established pursuant to Section 504(b) or Section 114(a)(3) of the Act concerning enhanced monitoring and compliance certifications;
- (h) Any standard or other requirement governing solid waste incineration, under Section 129 of the Act;
- (i) Any standard or other requirement for consumer and commercial products, under Section 183(e) of the Act (having to do with the release of volatile organic compounds under ozone control requirements);
- (j) Any standard or other requirement of the regulations promulgated to protect stratospheric ozone under title VI of the Act, unless the EPA has determined that such requirements need not be contained in a title V permit;
- (k) Any national ambient air quality standard or increment or visibility requirement under part C of title I of the Act, but only as it would apply to temporary sources permitted pursuant to Section 504(e) of the Act; and
- (l) Any state ambient air quality standard or increment or visibility requirement of the WAQSR.
- (m) Nothing under paragraphs (A) through (L) above shall be construed as affecting the allowance program and Phase II compliance schedule under the acid rain provision of Title IV of the Act.

"BACT" or "Best available control technology" means an emission limitation (including a visible emission standard) based on the maximum degree of reduction of each pollutant subject to regulation under the WAQSR or regulation under the Federal Clean Air Act, which would be emitted from or which results for any proposed major emitting facility or major modification which the Administrator, on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such source or modification through application or production processes and available methods, systems, and techniques, including fuel cleaning or treatment or innovative fuel combustion techniques for control of such pollutant. If the Administrator determines that technological or economic limitations on the application of measurement methodology to a particular class of sources would make the imposition of an emission standard infeasible, he may instead prescribe a design, equipment, work practice or operational standard or combination thereof to satisfy the requirement of Best Available Control Technology. Such standard shall, to the degree possible, set forth the emission reduction achievable by implementation of such design, equipment, work practice, or operation and shall provide for compliance by means which achieve equivalent results. Application of BACT shall not result in emissions in excess of those allowed under Chapter 5, Section 2 of the WAQSR and any other new source performance standard or national emission standards for hazardous air pollutants promulgated by EPA but not yet adopted by the state.

"Department" means the Wyoming Department of Environmental Quality or its Director.

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"Director" means the Director of the Wyoming Department of Environmental Quality.

"Division" means the Air Quality Division of the Wyoming Department of Environmental Quality or its Administrator.

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

"EPA" means the Administrator of the U.S. Environmental Protection Agency or the Administrator's designee.

"Fuel-burning equipment" means any furnace, boiler apparatus, stack, or appurtenances thereto used in the process of burning fuel or other combustible material for the purpose of producing heat or power by indirect heat transfer.

"Fugitive emissions" means those emissions which could not reasonably pass through a stack chimney, vent, or other functionally equivalent opening.

"Insignificant activities" means those activities which are incidental to the facility's primary business activity and which result in emissions of less than one ton per year of a regulated pollutant not included in the Section 112 (b) list of hazardous air pollutants or emissions less than 1000 pounds per year of a pollutant regulated pursuant to listing under Section 112 (b) of the Act provided, however, such emission levels of hazardous air pollutants do not exceed exemptions based on insignificant emission levels established by EPA through rulemaking for modification under Section 112 (g) of the Act.

"MACT" or "Maximum achievable control technology" means the maximum degree of reduction in emissions that is deemed achievable for new sources in a category or subcategory that shall not be less stringent than the emission control that is achieved in practice by the best controlled similar source, as determined by the Administrator. Emission standards promulgated for existing sources in a category or subcategory may be less stringent than standards for new sources in the same category or subcategory but shall not be less stringent, and may be more stringent than:

- (a) the average emission limitation achieved by the best performing 12 percent of the existing sources (for which the Administrator has emission information), excluding those sources that have, within 18 months before the emission standard is proposed or within 30 months before such standard is promulgated, whichever is later, first achieved a level of emission rate or emission reduction which complies, or would comply if the source is not subject to such standard, with the lowest achievable emission rate applicable to the source category and prevailing at the time, in the category or subcategory for categories and subcategories with 30 or more sources, or
- (b) the average emission limitation achieved by the best performing five sources (for which the Administrator has or could reasonably obtain emissions information) in the category or subcategory for categories or subcategories with fewer than 30 sources.

"Modification" means any physical change in, or change in the method of operation of, an affected facility which increases the amount of any air pollutant (to which any state standards applies) emitted by such facility or which results in the emission of any such air pollutant not previously emitted.

"Permittee" means the person or entity to whom a Chapter 6, Section 3 permit is issued.

"Potential to emit" means the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in title IV of the Act or the regulations promulgated thereunder.

"Regulated air pollutant" means the following:

- (a) Nitrogen oxides (NO_x) or any volatile organic compound;
- (b) Any pollutant for which a national ambient air quality standard has been promulgated;
- (c) Any pollutant that is subject to any standard established in Chapter 5, Section 2 of the WAQSR or Section

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- 111 of the Act;
- (d) Any Class I or II substance subject to a standard promulgated under or established by title VI of the Act; or
 - (e) Any pollutant subject to a standard promulgated under Section 112 or other requirements established under Section 112 of the Act, including Sections 112(g), (j), and (r) of the Act, including the following:
 - (i) Any pollutant subject to requirements under Section 112(j) of the Act. If EPA fails to promulgate a standard by the date established pursuant to Section 112(e) of the Act, any pollutant for which a subject source would be major shall be considered to be regulated on the date 18 months after the applicable date established pursuant to Section 112(e) of the Act; and
 - (ii) Any pollutant for which the requirements of Section 112(g)(2) of the Act have been met, but only with respect to the individual source subject to Section 112(g)(2) requirement.
 - (f) Pollutants regulated solely under Section 112(r) of the Act are to be regulated only with respect to the requirements of Section 112(r) for permits issued under this Chapter 6, Section 3 of the WAQSR.

"Renewal" means the process by which a permit is reissued at the end of its term.

"Responsible official" means one of the following:

- (a) For a corporation:
 - (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or
 - (ii) A duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
 - (A) the facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars); or
 - (B) the delegation of authority to such representative is approved in advance by the Division;
- (b) For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
- (c) For a municipality, State, Federal, or other public agency: Either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency; or
- (d) For affected sources:
 - (i) The designated representative or alternate designated representative in so far as actions, standards, requirements, or prohibitions under title IV of the Act or the regulations promulgated thereunder are concerned; and
 - (ii) The designated representative, alternate designated representative, or responsible official under Chapter 6, Section 3 (b)(xxvi) of the WAQSR for all other purposes under this section.

"WAQSR" means the Wyoming Air Quality Standards and Regulations promulgated under the Wyoming Environmental Quality Act, W.S. §35-11-101, *et seq.*

