

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. 3-2-040-3

Issue Date: **April 28, 2015**
Expiration Date: **June 30, 2015**
Effective Date: **April 28, 2015**
Replaces Permit No.: **3-2-040-2**

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,

Tallgrass MLP Operations, LLC
(Amended July 7, 2014)
Casper Gas Plant & Compressor Station
Section 5, Township 33 North, Range 78 West
Natrona County, Wyoming

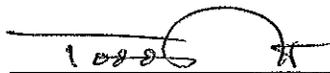
is authorized to operate a stationary source of air contaminants consisting of emission units described in this permit. The units described are subject to the terms and conditions specified in this permit. All terms and conditions of the permit are enforceable by the State of Wyoming. All terms and conditions 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

4-28-15

Date



Todd Parfitt, Director
Department of Environmental Quality

5/1/15

Date

WAQSR CHAPTER 6, SECTION 3 OPERATING PERMIT

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

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(Modified May 23, 2011)

(Modified February 26, 2013)

(Modified April 28, 2015)

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GENERAL INFORMATION

Company Name: *Tallgrass MLP Operations, LLC (Amended July 7, 2014)*

Mailing Address: 370 Van Gordon Street (Amended May 31, 2011)

City: **Lakewood** State: **CO** Zip: **80228**

Plant Name: **Casper Gas Plant & Compressor Station**

Plant Location: **Section 5, Township 33 North, Range 78 West (approximately 1 mile east of Evansville on Highway 201)**

Latitude / Longitude (WGS84): 42.8561/-106.2370 (Modified February 26, 2013)
(Modified April 28, 2015)

Plant Mailing Address: **5750 E. Yellowstone Highway**

City: **Casper** State: **WY** Zip: **82602**

Name of Owner: *Tallgrass MLP Operations, LLC* Phone: *(303) 763-2950*
(Amended July 7, 2014)

Responsible Official: Reserved (Modified April 28, 2015)

Plant Manager/Contact: *Paula Menten* Phone: *(303) 763-3257*
(Modified May 23, 2011) (Modified February 26, 2013)

DEQ Air Quality Contact: **District 2 Engineer** Phone: **(307) 473-3455**
152 N. Durbin Street, Suite 100
Casper, WY 82601

SIC Code: **1321 & 4922**

Description of Process: **The Casper Gas Plant & Compressor Station is a natural gas processing plant and transmission facility. The plant produces residue gas and natural gas liquid (NGL) products from collected field gas.**

SOURCE EMISSION POINTS

(Modified February 26, 2013) (Modified April 28, 2015)

This table may not include any or all insignificant activities at this facility.

SOURCE ID#	SOURCE DESCRIPTION	SIZE	CIL6, SEC2 PERMITS
F015C-D1	C.E. Natco Ethylene Glycol EG Dehydration Unit	70 MMSCFD	MD-16181
F015C-E2	Solar T-1000 Turbine Engine	1,000 hp	MD-1150
F015C-E3	Solar T-1000 Turbine Engine	1,000 hp	MD-1150
F015C-E4	Ingersoll Rand SVG-10 Compressor Engine ^a	550 hp	MD-1150
F015C-E6	Worthington SLHC-10 Compressor Engine ^b	1,000 hp	MD-1150
F015C-E7	Cooper Bessemer GMVH-10C Compressor Engine ^c	2,000 hp	MD-952, MD-1150
F015C-E8	Cooper Bessemer GMVC-6 Compressor Engine ^c	1,000 hp	MD-1150
F015C-E9	Cooper Bessemer GMVC-6 Compressor Engine ^c	1,000 hp	MD-1150
F015C-E10	Ford B6PF-6006B Water Pump Engine ^d	50 hp	MD-1150
F015C-E11	Ford B6PF-6006B Water Pump Engine ^d	50 hp	MD-1150
F023E-E1	Ajax DPC-540LE Compressor Engine ^c	425 hp	AP-083, MD-1150
F015C-F1	Enclosed Ground Flare	7,600 lb/hr throughput	AP-2207, AP-10118
F015C-F2	Elevated Flare	30.6 MMBtu/hr	OP-201
F015C-H1	Glycol Reboiler Heater	0.75 MMBtu/hr	N/A
F015C-H2	Lean Oil Reboiler, north stack (H2-1)	30 MMBtu/hr	AP-0643
	Lean Oil Reboiler, south stack (H2-2)		
F015C-H4	Water Tank Heater	1.5 MMBtu/hr	N/A
F015C-H5	Bruest HotCat Line Heater	0.0864 MMBtu/hr	AP-6771
F015C-FL1	Facility-wide equipment leak fugitive emissions	N/A	wv-11234, wv-11904 and wv-13758
F015C-FL2	Condensate Load-Out and NGL Off Loading	N/A	AP-10118
F015C-FL3	Condensate Stabilizer System Fugitive Emissions	N/A	AP-X07
F015C-EG1	Caterpillar G3412 TA Emergency Generator ^d	592 hp	AP-8118
F015C-EG2	Generac SG035-A Emergency Generator ^d	47 hp	wv-13071
F015C-T38	Pressurized Condensate Tank		AP-10118
F015C-T39	Pressurized Condensate Tank		AP-10118
Tank 11	Pressurized Propane Storage Tank	60,000 gal	wv-16133

^a Engine is 4-stroke rich burn, equipped with non-selective catalytic reduction (NSCR)

^b Engine is 4-stroke lean burn

^c Engine is 2-stroke lean burn

^d Engine is 4-stroke rich burn

TOTAL FACILITY ESTIMATED EMISSIONS

(Modified February 26, 2013)

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

<u>POLLUTANT</u>	<u>EMISSIONS (TPY)</u>
CRITERIA POLLUTANT EMISSIONS	
Particulate Matter	<u>8</u>
PM ₁₀ Particulate Matter	<u>8</u>
Sulfur Dioxide (SO ₂)	<u>Negligible</u>
Nitrogen Oxides (NO _x)	<u>622</u>
Carbon Monoxide (CO)	<u>278</u>
Volatile Organic Compounds (VOCs)	<u>250</u>
HAZARDOUS AIR POLLUTANT (HAP) EMISSIONS	<u>39¹</u>

Emission estimates are from Waiver wv-13071, except for HAPs.

¹ The largest single HAP is n-Hexane at 11.3 TPY. HAPs estimates are from the operating permit application and include the fugitive emission estimate.

FACILITY-SPECIFIC PERMIT CONDITIONS

Facility-Wide Permit Conditions

(F1) **FACILITY COMPRESSOR REQUIREMENTS**

[WAQSR Ch 6, Sec 3(h)(i)(I); Ch 6, Sec 2 Permit MD-1150] **(Modified May 23, 2011)**

- (a) The compressor and turbine engine configuration shall be limited to the following:
- (i) Two Solar T-1000 turbine engines (units F015C-E2 and F015C-E3);
 - (ii) One Ingersoll Rand SVG-10 compressor engine (unit F015C-E4);
 - (iii) One Worthington SLHC-10 compressor engine (unit F015C-E6);
 - (iv) One Cooper GMVH-10C compressor engine (unit F015C-E7);
 - (v) Two Cooper GMVC-6 compressor engines (units F015C-E8 and F015C-E9);
 - (vi) Two Ford B6PF-6006B **water pump** engines (units F015C-E10 and F015C-E11); and
 - (vii) One Ajax DPC-540LE compressor engine (unit F023E-E1).
- (b) The permittee may expand the engine configuration beyond that described in paragraph (a) upon receipt of a construction or modification permit issued under Ch 6, Sec 2 of WAQSR 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; Ch 3, Sec 6; and Ch 6, Sec 2 Waiver AP-10118]

(Modified February 26, 2013)

- (a) Visible emissions from the Cooper GMVH-10C compressor engine, the two Ford B6PF-6006B water pump engines, the water tank heater, the Bruest HotCat line heater, the lean oil reboiler, the Caterpillar emergency generator, **the Generac emergency generator**, and the Ajax DPC-540LE compressor engine (sources F015C-E7, -E10, -E11, -H4, -H5, -H2, -EG1, ~~-EG2~~, and F023E-E1) 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.
- (b) The plant enclosed ground flare (source F015C-F1) and the standby elevated flare (source F015C-F2) shall be operated and maintained to be smokeless, with no visible emissions except for periods not to exceed a total of five minutes during any two consecutive hours, as determined by 40 CFR 60, Appendix A, Method 22. The ground flare and the standby flare must be equipped and operated with an automatic igniter or continuous burning pilot which must be maintained in good working order. The ground flare and standby flare shall be operated with a flame present during all periods in which emissions may be routed to the flare.
- (c) Visible emissions from each other source at this facility shall not exceed 40 percent opacity.

(F3) **ENGINE NO_x AND CO EMISSIONS** [WAQSR Ch 6, Sec 2 Permits MD-952 & MD-1150; Waivers AP-083, AP-8118, & **wv-13071**] **(Modified February 26, 2013)**

- (a) NO_x and CO emissions shall not exceed the limits specified in Table I.

Table I: Engine NO_x and CO Emission Limits							
Source ID	Engine Description	NO _x			CO		
		g/hp-hr	lb/hr	TPY	g/hp-hr	lb/hr	TPY
F023E-E1	Ajax DPC-540LE	2.0	1.9	8.2	1.6	1.5	6.6
F015C-E4	Ingersoll Rand SVG-10	3.0	3.6	15.9	4.0	4.9	21.2
F015C-E6	Worthington SLHC-10	20.0	44.1	193.1	5.0	11.0	48.3
F015C-E7	Cooper GMVH-10C	2.0	8.8	38.6	2.5	11.0	48.3
F015C-EG1	Caterpillar G3412 TA	0.5	0.7	0.2 ^a	0.5	0.7	0.2 ^a

^a Annual emissions based on 500 hours of operation.

- (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, except for the Caterpillar G3412TA engine (source F015C-EG10). For the Caterpillar G3412TA engine, compliance with the g/hp-hr limits is considered compliance with the lb/hr limits as long as the engine is operated at or below its site-rated capacity.

- (c) The permittee shall follow the Preventative Maintenance Plan, attached as Appendix A of this permit, for the Cooper GMVH-10C compressor engine (source F015C-E7).
 - (d) The operating hours for the two Ford B6PF-6006B water pump engines (sources F015C-E10 & -E11), the Generac emergency generator (F015-EG2), and the Caterpillar G3412 TA emergency generator (source F015C-EG1) shall not exceed 500 hours per year for each engine. The two Ford water pump engines (sources F015C-E10 & -E11) and the Caterpillar emergency generator (source F015C-EG1) shall be equipped with an hour meter.
 - (e) The permittee shall perform manufacturers' or suppliers' recommended maintenance on the NSCR and air/fuel ratio controls on the Caterpillar G3412 TA emergency generator (source F015C-EG1).
 - (f) The permittee shall perform manufacturer's or supplier's recommended maintenance on the Generac emergency generator (F015-EG2).
- (F4) FUEL BURNING EQUIPMENT [WAQSR Ch 3, Sec 3; Ch 6, Sec 2 Waiver AP-0643]
(Modified February 26, 2013)
- (a) NO_x emissions from the glycol reboiler heater (source F015C-H1) shall not exceed 0.23 lb/MMBtu of heat input.
 - (b) NO_x emissions from the water tank heater and the Bruest HotCat line heater (sources F015C-H4 and -H5) shall not exceed 0.20 lb/MMBtu of heat input.
 - (c) Emissions from the lean oil reboiler (source F015C-H2) shall not exceed:
 - (i) 0.06 lb/MMBtu, 1.8 lb/hr and 7.9 TPY for NO_x; and
 - (ii) 0.079 lb/MMBtu, 2.4 lb/hr and 10.4 TPY for CO.
- (F5) DEHYDRATION UNIT *BENZENE AND BTEX EMISSION LIMITATIONS* [40 CFR 63 Subpart HH; WAQSR Ch 6, Sec 2 Permit MD-16181] (Modified April 28, 2015)
- (a) Total *actual annual average* benzene emissions from the *Natco EG* dehydration unit (source F015C-D1) reboiler overhead still vent and flash tank are limited to less than 1 TPY.
 - (b) *Annual BTEX emissions from the Natco EG dehydration unit (source F015C-D1) reboiler overhead still vent shall not exceed the limit determined in accordance with 40 CFR 63, Subpart HH §63.765, Equation 1.*
- (F6) NGL OFF-LOADING/CONDENSATE LOAD OUT FACILITY EMISSIONS
[WAQSR Ch 6, Sec 2 Waivers AP-2207 and AP-10118]
- (a) The NGL Off-Loading facility (source F015C-FL2) shall be limited to a calendar monthly average throughput of 40,000 gallons per day of NGL.
 - (b) Emissions from tanker blowdowns, and from truck vapor displacement in the condensate truck load-out system, shall be routed to the pressurized condensate tanks F015C-T38 and -T39 for recollection. In the event of an upset in the process, the emissions shall be diverted to the ground flare (source F015C-F1) for destruction.
 - (c) The permittee shall maintain and operate the ground flare (source F015C-F1) during all periods of active operation of the condensate truck load-out system such that the flare remains effective as a viable emissions control device in the event of an upset in the process.
- (F7) TEMPORARY ENGINE REPLACEMENT [WAQSR Ch 6, Sec 3(h)(i)(I)]
- (a) Should an engine break down or require an overhaul during the term of this permit, the permittee may bring on site and operate a temporary replacement engine until repairs are made. Permanent replacement of an engine **must** be evaluated by the Division under Ch 6, Sec 2 of WAQSR to determine appropriate permitting action and evaluate the need for additional requirements resulting from the permanent replacement.
 - (b) The temporary replacement unit shall be identical or similar to the unit replaced with emission levels at or below those of the unit replaced.
 - (c) The permittee shall notify the Division in writing of such replacement within five working days, provide the date of startup of the replacement engine, and provide a statement regarding the applicability of any New Source Performance Standards (NSPS) in 40 CFR, Part 60 and/or the applicability of any National Emission Standards for Hazardous Air Pollutants (NESHAPs) in 40 CFR, Part 63.

Testing Requirements

- (F8) **ADDITIONAL 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. Should testing be required, test methods found at 40 CFR 60, Appendix A, shall be used as follows:
 - (i) For visible emissions from the flares, Method 22 shall be used.
 - (ii) For visible emissions from sources other than the flares, Method 9 shall be used.
 - (iii) For NO_x emissions, Methods 1-4 and 7 or 7E shall be used.
 - (iv) For CO emissions, Methods 1-4 and 10 shall be used.
 - (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).
- (F9) **RESERVED (Modified February 26, 2013)**

Monitoring Requirements

- (F10) **VISIBLE EMISSIONS MONITORING [WAQSR Ch 6, Sec 3(h)(i)(C)(I)] (Modified February 26, 2013)**
- (a) Periodic monitoring for visible emissions from the compressor, generator, and water pump engines (sources F015C-E2, -E3, -E4, -E6, -E7, -E8, -E9, -E10, -E11, -EG1, ~~-EG2~~, and F023E-E1), and the heaters (sources F015C-H1, -H2, -H4, and -H5) shall consist of monitoring the type of fuel used to ensure natural gas is the sole fuel source for these units.
 - (b) The permittee shall perform, at minimum, a quarterly Method 22 test on the enclosed ground flare (source F015C-F1). The Method 22 test shall be performed for a period of 15 consecutive minutes. If visible emissions are observed during the 15 minute period, the test shall continue for two consecutive hours.
- (F11) **FLARE MONITORING [WAQSR Ch 6, Sec 2 Waiver AP-2207; Ch 6, Sec 3(h)(i)(C)(I)]**
- (a) The permittee shall monitor for the presence of a flare pilot flame at the enclosed ground flare and the standby flare (sources F015C-F1, and -F2).
 - (i) For the enclosed ground flare (source F015C-F1), the permittee shall monitor for the presence of a pilot flame using a thermocouple and continuous recording device or any other equivalent device.
 - (ii) For the standby flare (source F015C-F2), monitoring for the presence of a pilot flame shall consist of using a thermocouple or equivalent device and an alarm system to notify the operator any time the flare operates without a flame present. The permittee shall verify the operability of the alarm system at least semi-annually.
 - (b) The permittee shall monitor the use of the standby elevated flare (source F015C-F2).
- (F12) **ENGINE MONITORING [WAQSR Ch 6, Sec 3(h)(i)(C)(I); Ch 6, Sec 2 Permits MD-952 and MD-1150 and Waivers AP-8118 and wv-13071] (Modified February 26, 2013) (Modified April 28, 2015)**
- (a)
 - (i) The permittee shall measure NO_x and CO emissions from the Ingersoll Rand SVG-10, the Worthington SLHC-10, and the Cooper GMVH-10C compressor engines (sources F015C-E4, -E6, and -E7) at least semiannually for comparison with the emissions limits specified in condition F3(a).
 - (ii) The permittee shall measure NO_x and CO emissions from the Caterpillar G3412 TA emergency generator (source F015C-EG1) at least once every two years from the date of the initial testing for comparison with the emission limits specified in condition F3(a).
 - (iii) The permittee shall measure NO_x and CO emissions from the Ajax DPC-540LE engine (F023E-E1) at least once every five years for comparison with the emission limits specified in condition F3(a).
 - (iv) The permittee shall measure NO_x and CO emissions using the Division's portable analyzer monitoring protocol, or the EPA reference methods described in condition F8. The monitoring protocol can be downloaded at <http://deq.wyoming.gov/aqd/title-v/resources/forms-operating-permits/> or is available from the Division upon request.
 - (b) The permittee shall monitor the operating hours for the two Ford B6PF-6006B water pump engines, the Caterpillar G3412 TA emergency generator, and the Generac emergency generator (sources F015C-E10, -E11, -EG1, and -EG2) monthly.

- (F13) DEHYDRATION UNIT EMISSIONS MONITORING [WAQSR Ch 6, Sec 2 Permit MD-16181; Ch 6, Sec 3(h)(i)(C)(I)] (Modified April 28, 2015)
- (a) The permittee shall *calculate benzene and total BTEX emission rates, in units of tons per day, at a minimum once per month with GRI-GLYCalc version 4.0 or higher, using inputs from the model that are representative of actual operating conditions including:*
 - (i) *One extended hydrocarbon fraction analysis shall be conducted monthly that is representative of the inlet gas to the EG dehydration unit.*
 - (ii) *A continuous monitoring instrument shall directly measure natural gas flow rate to the glycol dehydration unit with an accuracy of plus or minus two percent or better. Monthly natural gas flow rate shall be converted to a daily average by dividing the monthly flow rate by the number of days per month the glycol dehydration unit processed natural gas.*
 - (iii) *Glycol flow rate, plant inlet pressure, gas inlet temperature, plant outlet pressure, and cold separator temperature inputs to the GRI-GLYCalc model run shall be representative of the actual operating conditions.*
 - (b) Compliance with the benzene *and BTEX* emission limits in condition F5 shall be determined as follows:
 - (i) *The permittee shall calculate monthly BTEX and benzene emissions in units of Mg per month and tons per month, calculated from the GRI-GlyCalc results specified in paragraph (a) of this condition.*
 - (ii) For each calendar year, the *monthly* emission rates shall be summed.
 - (c) The permittee shall maintain on site and follow the most recent Division-approved quality assurance plan addressing maintenance and calibration of each parameter monitoring and recording device.
- (F14) NGL OFF-LOADING FACILITY MONITORING [WAQSR Ch 6, Sec 3(h)(i)(C)(I)]
The permittee shall monitor the actual daily and calendar monthly average NGL throughput per day at the NGL off-loading facility (source F015C-FL2) to ensure the limit in condition F6(a) is not exceeded.
- (F15) COMPRESSOR OIL BLOWDOWN MONITORING [WAQSR Ch 6, Sec 3(h)(i)(C)(I)]
The permittee shall monitor compressor oil blowdown events noting the date, time, and volume of each blowdown event.

Recordkeeping Requirements

- (F16) TESTING AND MONITORING RECORDS [WAQSR Ch 6, Sec 3(h)(i)(C)(II); Ch 6, Sec 2 Waivers AP-QW2, AP-2207, AP-8118, and AP-10118] (Modified February 26, 2013) (Modified April 28, 2015)
- (a) For any testing or monitoring required under conditions F8 and F12, other than Method 9 or Method 22 observations, the permittee shall record, as applicable, the following:
 - (i) The date, place, and time of sampling or measurements;
 - (ii) The date(s) the analyses were performed;
 - (iii) The company or entity that performed the analyses;
 - (iv) The analytical techniques or methods used;
 - (v) The results of such analyses;
 - (vi) The operating conditions as they existed at the time of sampling or measurement; and
 - (vii) Any corrective actions taken.
 - (b) For any Method 9 observations required by the Division under condition F8, the permittee shall keep field records in accordance with Section 2.2 of Method 9.
 - (c) For the Method 22 observations required by the Division under conditions F8 and F10(b), the permittee shall keep field records in accordance with Sections 11.2 and 11.5 of Method 22.
 - (d) The permittee shall maintain records of the date and duration for periods when the flame was not present at each flare (sources F015C-F1 and -F2) or the flame alarm system was inoperative. The permittee shall record corrective actions taken when a flame was not present at each flare or upon discovery that the flame monitoring system was inoperative. The permittee shall maintain records for the ground flare (source F015C-F1) noting date and duration of time during active operation of the condensate truck load-out system when the pilot flame was not present.
 - (e) The permittee shall maintain records of the date and duration of use of the standby elevated flare (source F015C-F2) to control emissions.
 - (f) The permittee shall maintain records of the operating hours per month monitored under condition F12(b).

- (g) The permittee shall maintain records of *the BTEX emission limit calculation and supporting documentation in accordance with* condition F5(b).
 - (h) The permittee shall maintain the following records *for the monitoring requirements* under condition F13.
 - (i) *The monthly GRI-GLYCalc input summary and results in units of tons per day.*
 - (ii) *Calculations of benzene emissions in units of tons per month for each calendar month.*
 - (iii) *Calculations of BTEX emissions in units of Mg per month for each calendar month.*
 - (iv) *Calculation of annual benzene and BTEX emissions in TPY and Mg/yr, respectively.*
 - (i) The permittee shall maintain records of the actual daily and calendar monthly average daily NGL off-loading throughput monitored under condition F14.
 - (j) The permittee shall maintain records of the date, time, and volume of each compressor oil blowdown event monitored under condition F15.
 - (k) The permittee shall retain on-site at the facility, or at an acceptable alternative location, the records of each test, measurement, or observation and support information for a period of at least five years from the date of the test, measurement, or observation.
- (F17) **MAINTENANCE RECORDS [WAQSR Ch 6, Sec 3(h)(i)(C)(II); Ch 6, Sec 2, Waivers AP-8118 and wv-13071 (Modified February 26, 2013)**
- (a) The record of maintenance and calibration activities for the glycol dehydration unit monitoring equipment, the Cooper GMVH-10C compressor engine, the Caterpillar G3412 TA emergency generator control equipment, and the Generac emergency generator (sources F015C-D1, -E7, -EG1, and EG-2) shall include:
 - (i) The maintenance activity performed;
 - (ii) The date, place, and time the activity was performed;
 - (iii) The company and individual(s) that performed the activity;
 - (iv) The purpose of the activity; and
 - (v) An explanation for any deviation from the following:
 - (A) The Division-approved quality assurance plan for the parameter monitoring and recording equipment on the glycol dehydration unit (unit F015C-D1);
 - (B) The Preventative Maintenance Plan, attached as Appendix A, for the Cooper GMVH-10C compressor engine (source F015C-E7); and
 - (C) Manufacturers' or suppliers' recommended maintenance for the NSCR and AFRC on the Caterpillar G3412 TA emergency generator (source F015C-EG1) or for the Generac emergency generator (source F015C-EG2).
 - (b) The permittee shall retain on-site at the facility the records of each maintenance activity for the sources described in this condition for a period of at least five years from the date of the inspection or maintenance activity.

Reporting Requirements

(F18) **RESERVED (Modified February 26, 2013)**

(F19) **TESTING AND ENGINE MONITORING REPORTS [WAQSR Ch 6, Sec 3(h)(i)(C)(III); Ch 6, Sec 2 Permits MD-952 & MD-1150, Waivers AP-8118 & wv-13071 (Modified February 26, 2013)**

- (a) Notification of the test date for the engine monitoring required by condition F12 shall be provided to the Division at least 15 days prior to testing.
- (b) (i) The permittee shall report the results of the emissions monitoring required under condition F12, and any additional testing required by the Division under condition F8, within 30 days of conducting the tests.
- (ii) The reports shall include the information specified under condition F16(a) and shall be submitted to the Division in accordance with condition G4.
- (c) The permittee shall report to the Division, by January 31 each year, the total number of operating hours for the two Ford B6PF-6006B water pump engines (sources F015C-E10 & -E11), the Caterpillar G3412 TA emergency generator and the Generac emergency generator (sources F015C-EG1 & -EG2), for the previous calendar year. The report shall be submitted in accordance with condition G4 of this permit.

(F20) OTHER MONITORING REPORTS [WAQSR Ch 6, Sec 3(h)(i)(C)(III)] *(Modified April 28, 2015)*

- (a) The permittee shall submit to the Division by January 31 and July 31 each year the following:
- (i) Documentation that all emissions units are firing natural gas as specified in condition F10(a).
 - (ii) Summary results of the quarterly Method 22 observations of the enclosed ground flare required under condition F10(b). Only monitoring during which visible emissions are observed and any corrective actions taken upon observing visible emissions shall be included in the report. If no visible emissions are observed during the reporting period, this shall be stated in the report.
 - (iii) Summary results of the pilot flame monitoring required by condition F11(a). All periods during which no flame was present or the alarm system was inoperative shall be included in the report. If each monitoring system was operative and each flare operated with a flame present for all periods during which emissions may have been routed to the flare, this shall be stated in the report.
 - (iv) The date and duration of each event where the standby elevated flare (source F015C-F2) was used to control emissions.
 - (v) The calendar monthly average daily throughput for the NGL off-loading facility (source F015C-FL2), for each of the six months in the semiannual period prior to the report. If the throughput limit was not exceeded during the reporting period this shall be stated in the report.
- (b) The permittee shall submit to the Division by January 31 each year a summary report of the glycol dehydration unit monitoring as follows:
- (i) *The monthly GRI-GLYCalc results for benzene and BTEX in units of tons per day and Mg per day, respectively.*
 - (ii) *Annual benzene emissions in TPY summarized from each calendar month.*
 - (iii) *Annual BTEX emissions in Mg/year summarized from each calendar month.*
 - (iv) *Annual BTEX emission limit calculated in accordance with 40 CFR 63, Subpart HH §63.765, Equation 1 and the input parameters to determine that limit (annual average daily natural gas throughput in standard cubic meters per day and the average annual BTEX concentration of the natural gas at the inlet to the glycol dehydration unit in ppmv).*
- (c) All instances of deviations from the conditions of this permit must be clearly identified in each report.
- (d) The semiannual reports shall be submitted in accordance with condition G4 of this permit.

(F21) MAINTENANCE REPORTS [WAQSR Ch 6, Sec 3(h)(i)(C)(III)] *(Modified February 26, 2013)*

The permittee shall report to the Division by January 31 and July 31 the following:

- (a) Whether the permittee has maintained and calibrated each parameter monitoring and recording device for the glycol dehydration unit (source F015C-D1) monitoring equipment in accordance with the most recent Division-approved quality assurance plan, as specified in condition F13(d).
- (b) Whether the permittee has adhered to the Preventative Maintenance Plan, attached as Appendix A, for the Cooper GMVH-10C compressor engine (source F015C-E7) as specified in condition F3(c).
- (c) Whether the permittee has adhered to the recommended maintenance for the NSCR and AFRC on the Caterpillar G3412 TA emergency generator (source F015C-EG1) as specified in condition F3(e), **and the recommended maintenance for the Generac emergency generator (source F015C-EG2), as specified in condition F3(f).**
- (d) Any deviation from the applicable maintenance requirements must be clearly identified in each report. If the permittee has adhered to the applicable maintenance during the reporting period, this shall be stated in the report.
- (e) The semiannual reports shall be submitted in accordance with condition G4 of this permit.

(F22) GREENHOUSE GAS REPORTS [W.S. 35-11-110] *(Modified May 23, 2011)*

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 EPA, in a format as specified by the Division.
- (b) The reports shall be submitted in accordance with condition G4(a)(i) 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.

(F23) **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.

Accidental Release Prevention Requirements

(F24) **ACCIDENTAL RELEASE PREVENTION REQUIREMENTS [40 CFR Part 68]**

- (a) The permittee shall meet all requirements of 40 CFR Part 68 as they apply to the facility.
- (b) The permittee shall submit, as part of the annual compliance certification submitted under condition C1 of this permit, a certification statement concerning the facility's compliance with all requirements of 40 CFR Part 68, including the registration and submission of a Risk Management Plan.

PSD (Prevention of Significant Deterioration) Applicability Demonstration Requirements
(Modified February 26, 2013)

(F25) **PROJECT EMISSION LIMITS AND REQUIREMENTS [WAQSR Ch 6, Sec 2 Waiver wv-13758]**
(Modified February 26, 2013)

- (a) For the Sinclair Refinery Project, starting in calendar year 2012 and lasting 5 years, the permittee shall track actual emissions from the facility to demonstrate that the proposed project, described in permit waiver wv-13758, does not result in a major modification under WAQSR Ch 6, Sec 4.
- (b) The sum of the actual emissions, on a calendar year basis, from the sources at the facility shall not exceed the following emission levels:

Pollutant	Tons Per Year
NO_x	413
CO	498
VOC	234

(F26) **PROJECT EMISSIONS MONITORING [WAQSR Ch 6, Sec 2 Waiver wv-13758]**
(Modified February 26, 2013)

For the Sinclair Refinery Project, actual emissions from the sources at the facility shall be monitored and determined using the methodologies and testing that is accepted for the Title V emission inventories under WAQSR Ch 6, Sec 3(f)(v).

(F27) **PROJECT RECORDKEEPING REQUIREMENTS**
[WAQSR Ch 6, Sec 2 Waiver wv-13758; Ch 6 Sec 3(h)(i)(C)(II)] (Modified February 26, 2013)

The permittee shall maintain a record of the calculations and data described in condition F26 used to determine the annual emissions in tons per calendar year. The permittee shall retain these records on-site for at least 5 years from the date they are generated.

(F28) PROJECT REPORTING REQUIREMENTS

[WAQSR Ch 6, Sec 2 Waiver wv-13758; Ch 6 Sec 3(h)(i)(C)(III)] (Modified February 26, 2013)

(a) The annual emission inventories required under condition G9 of this permit shall include:

(i) The annual emissions for each source at the facility, and

(ii) The annual totals for each pollutant listed in F25(b).

(b) The reports shall reference this condition (F28) and be submitted in accordance with condition G4 and G9.

(F29) PROJECT COMPLETION REQUIREMENTS [WAQSR Ch 6, Sec 2 Waiver wv-13758]

(Modified February 26, 2013)

Upon completion of the five year monitoring period established in condition F27(a), the requirements of conditions F25, F26 and F28 shall expire. The records required by condition F27 shall be maintained for a period of at least five years from the date such records are generated.

**WAQSR CHAPTER 5, SECTION 2 NEW SOURCE PERFORMANCE STANDARDS (NSPS) and
40 CFR 60 SUBPART KKK REQUIREMENTS (FOR EQUIPMENT LEAKS OF VOC FROM ONSHORE
NATURAL GAS PROCESSING PLANTS) and VV (FOR EQUIPMENT LEAKS OF VOC IN THE
SYNTHETIC ORGANIC CHEMICALS MANUFACTURING INDUSTRY)**

(Modified February 26, 2013)

**SUBPART KKK REQUIREMENTS [40 CFR 60 Subparts A, KKK and VV; WAQSR Ch 5, Sec 2; and Ch 6,
Sec 2 Waivers AP-X07, AP-10118, wv-11234, wv-11904, and wv-13758]**

**The permittee shall meet all applicable requirements of 40 CFR 60 Subparts A, KKK, and VV and
WAQSR Ch 5, Sec 2 as they apply to the Casper Gas Plant, which includes affected facilities in
onshore natural gas processing plants as defined under §60.630.**

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

(Modified February 26, 2013)

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

**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 F7(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 November
19, 2012, there were no engines at the facility subject to Subpart JJJJ according to information
submitted to the Division by the permittee.**

**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**

(Modified April 28, 2015)

**SUBPART OOOO REQUIREMENTS [40 CFR 60 Subparts A and OOOO; WAQSR Ch 5, Sec 2; Ch 6 Sec 2
Permit/Waivers MD-16181, wv-14388, and wv-16133]**

**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.

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

(Modified February 26, 2013) (Modified April 28, 2015)

SUBPART HH REQUIREMENTS [40 CFR 63 Subparts A and HH; WAQSR Ch 5, Sec 3; and Ch 6, Sec 2 Permits and Waivers MD-1150 and MD-16181, wv-11234, wv-11904, and wv-14388]

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 major sources, the affected source includes the equipment described in §63.760(b)(1), including the glycol dehydration unit (source F015C-D1).**

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

(Modified February 26, 2013)

SUBPART ZZZZ REQUIREMENTS [40 CFR 63 Subparts A and ZZZZ; WAQSR Ch 5, Sec 3 and Ch 6, Sec 2 Permits and Waivers AP-083, AP-8118, MD-952, MD-1150 and wv-13071]

The permittee shall meet all requirements of WAQSR Ch 5, Sec 3 and 40 CFR 63 **Subparts A and ZZZZ** as they apply to each affected source as indicated in §63.6590(a). An affected source is any existing, new, or reconstructed stationary 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 F7(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 a major source of HAP emissions.** Affected sources at this facility include the Ingersol Rand SVG-10 compressor engine (source F015C-E4), the Worthington SLHC-10 compressor engine (source F015C-E6), the Cooper GMVH-10C compressor engine (source F015C-E7), the two Cooper GMVC-6 compressor engines (sources F015C-E8 and F015C-E9), the two Ford B6PF-6006B water pump engines (sources F015C-E10 and F015C-E11), the Ajax DPC-540LE compressor engine (source F023E-E1), the Caterpillar G3412 TA emergency generator (source F015C-EG1), and the Generac emergency generator (source F015C-EG2).

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

**SUBPART DDDDD REQUIREMENTS FOR
INDUSTRIAL, COMMERCIAL, AND INSTITUTIONAL BOILERS AND PROCESS HEATERS**

(Modified February 26, 2013)

SUBPART DDDDD REQUIREMENTS [40 CFR 63 Subparts A and DDDDD]

The permittee shall meet all requirements of 40 CFR 63 Subparts A and DDDDD as they apply to owners or operators of an industrial, commercial, or institutional boiler or process heater as defined in §63.7575 that is located at, or is part of, a major source of HAP as defined in §63.2 or §63.761 (40 CFR Part 63, Subpart HH, National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities), except as specified in §63.7491. This subpart applies to existing, new or reconstructed industrial, commercial, and institutional boilers and process heaters, including the Glycol Reboiler Heater (source F015C-H1), the Lean Oil Reboiler (source F015C-H2), the Glycol Pre-Heater (source F015C-H3), the Water Tank Heater (source F015C-H4), and the Bruest HotCat Line Heater (source F015C-H5).

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

COMPLIANCE CERTIFICATION AND SCHEDULE

Compliance Certification [WAQSR Ch 6, Sec 3(h)(iii)(E)] (Modified February 26, 2013) (*Modified April 28, 2015*)

- (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 from the fuel fired sources, the permittee shall assess compliance with condition F2(a) and (c) by verifying natural gas was the sole fuel source used for the units listed in condition F10(a).
- (ii) For operating requirements and emissions limitations from the enclosed ground flare and the standby elevated flare (sources F015C-F1 and -F2), the permittee shall assess compliance with condition F2(b) and F6(c) by conducting the monitoring required by condition F10(b) and F11.
- (iii) For NO_x and CO emissions from the engines, the permittee shall assess compliance with condition F3(a) by conducting the monitoring required by condition F12.
- (iv) For maintenance requirements for the Cooper GMVH-10C compressor engine, the Caterpillar emergency generator, the Generac emergency generator, and the glycol dehydration unit (sources F015C-E7, -EG1, ~~-EG2~~, and -D1), the permittee shall assess compliance with conditions F3(c), (e), and (f) and F13(d) by reviewing the records kept in accordance with condition F17.
- (v) For the operating hours limitation for the two Ford water pump engines, the Caterpillar emergency generator, and the Generac emergency generator (sources F015C-E10, -E11, -EG1, and ~~-EG2~~), the permittee shall assess compliance with condition F3(d) by conducting the monitoring required by condition F12(b).
- (vi) For benzene *and BTEX* emissions from the glycol dehydration unit (source F015C-D1), the permittee shall assess compliance with condition F5 by conducting the monitoring required by condition F13 and reviewing records maintained in accordance with conditions F16(g) and (h).
- (vii) For the NGL throughput at the NGL Off-Loading Facility (source F015C-FL2), the permittee shall assess compliance with condition F6(a) by conducting monitoring required by condition F14.
- (viii) For the compressor oil blowdown monitoring required by condition F15, the permittee shall assess compliance by reviewing the records maintained in accordance with condition F16(j).
- (ix) For greenhouse gas reporting, the permittee shall verify that reports were submitted in accordance with condition F22.
- (x) For accidental release prevention requirements, the permittee shall assess compliance with condition F24(a) by submitting a certification statement in accordance with condition F24(b).
- (xi) For the Sinclair Refinery Project emission limitations, the permittee shall assess compliance with conditions F25 and F29 by conducting the monitoring required by condition F26 and reviewing the records required by condition F27.
- (xii) 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.
- (xiii) For any unit subject to 40 CFR 60 Subpart KKK, the permittee shall assess compliance with Subpart KKK by reviewing the records required by §60.635.
- (xiv) 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, 60.5421, and 60.5423.*
- (xv) The permittee shall assess compliance with Part 63 Subpart HH by conducting any compliance demonstrations and monitoring required by §§63.772 and 63.773 and reviewing any records required by §§63.760 and 63.774.
- (xvi) The permittee shall assess compliance with Part 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.

(xvii) For the boilers and process heaters, the permittee shall assess compliance with Subpart DDDDD by conducting any applicable testing and monitoring required by the subpart, and by reviewing the records required by subpart.

- (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) Any document submitted shall be certified as being true, accurate, and complete by a responsible official.
- (a) Submissions to the Division.
- (i) Any submissions to the Division including reports, certifications, and emission inventories required under this permit shall be submitted as separate, stand-alone documents and shall be sent to:
- Administrator, Air Quality Division
122 West 25th Street
Cheyenne, Wyoming 82002
- (ii) Unless otherwise noted elsewhere in this permit, a copy of each submission to the Administrator under paragraph (a)(i) of this condition shall 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

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.

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.

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 fire fighting 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" as 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 motor vehicle air conditioner (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 air-tight sealed refrigeration system used as refrigerated cargo, or the system used on passenger buses using HCFC-22 refrigerant.

STATE ONLY PERMIT CONDITIONS

(Modified May 23, 2011)

(Modified February 26, 2013) (Modified April 28, 2015)

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	<u>53 parts per billion</u>	<u>annual average concentration</u>	3
	<u>100 parts per billion</u>	<u>three-year average of the annual 98th percentile of the daily maximum 1-hr average concentration</u>	
	<u>0.053 parts per million</u>	<u>annual arithmetic mean</u>	
Sulfur dioxide	<u>75 parts per billion</u>	<u>three-year average of the annual (99th percentile) of the daily max 1-hr average</u>	4
	<u>0.5 parts per million</u>	<u>3-hr blocks not to be exceeded more than once per calendar year</u>	
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	<u>0.075 parts per million</u>	<u>three-year average of the annual fourth-highest daily maximum 8-hr average concentration</u>	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	<u>0.15 micrograms per cubic meter</u>	<u>maximum arithmetic 3-month mean concentration for a 3-year period</u>	10

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

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#: **F015C-D1**

Source Description: **C.E. Natco Ethylene Glycol Dehydration Unit (Modified February 26, 2013)
(Modified April 28, 2015)**

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Benzene	< 1 TPY [F5]	WAQSR Ch 6, Sec 2 Permit MD-16181	Testing if required [F8]	Monthly gas analysis and continuous parameter monitoring to calculate benzene (in tpd) emissions once per month [F13] Follow Division approved QA plan [F13]	Monitoring records [F16] Equipment maintenance records [F17]	Annual monitoring report [F20] Maintenance report [F21] Report excess emissions and permit deviations [F23]
BTEX	40 CFR 60, Subpart HH §63.765, Equation 1 [F5]	WAQSR Ch 6, Sec 2 Permit MD-16181	Testing if required [F8]	Monthly gas analysis and continuous parameter monitoring [F13] to calculate total BTEX (in tpd) emissions once per month [F13] Follow Division approved QA plan [F13]	Monitoring records [F16] Equipment maintenance records [F17]	Annual monitoring report [F20] Maintenance report [F21] Report excess emissions and permit deviations [F23]
WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & HH						

Source ID#: **F015C-E2 and -E3**

Source Description: **Solar T-1000 Turbine Engines**

Pollutant	Emissions Limit/Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	40 percent opacity [F2]	WAQSR Ch 3, Sec 2	Test if required [F8]	Natural gas firing [F10]	Record any test results [F16]	Report type of fuel fired [F20] Report excess emissions and permit deviations [F23]

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#: **F015C-E8 and -E9** Source Description: **Cooper Bessemer GMVH-10C Compressor Engines (Modified February 26, 2013)**

Pollutant	Emissions Limit / Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	40 percent opacity [F2]	WAQSR Ch 3, Sec 2	Test if required [F8]	Natural gas firing [F10]	Record any test results [F16]	Report type of fuel fired [F20] Report excess emissions and permit deviations [F23]
HAPs	<u>WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ</u>					

Source ID#: **F015C-E4** Source Description: **Ingersoll Rand SVG-10 Compressor Engine (Modified February 26, 2013)**

Pollutant	Emissions Limit / Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	40 percent opacity [F2]	WAQSR Ch 3, Sec 2	Test if required [F8]	Natural gas firing [F10]	Record any test results [F16]	Report type of fuel fired [F20] Report excess emissions and permit deviations [F23]
NO _x	3.0 g/hp-hr, 3.6 lb/hr, and 15.9 TPY [F3]	WAQSR Ch 6, Sec 2 Permit MD-1150	Test if required [F8]	Semiannual test [F12]	Record test results [F16]	Testing and monitoring reports [F19] Report excess emissions and permit deviations [F23]
CO	4.0 g/hp-hr, 4.9 lb/hr, and 21.2 TPY [F3]	WAQSR Ch 6, Sec 2 Permit MD-1150	Test if required [F8]	Semiannual test [F12]	Record test results [F16]	Testing and monitoring reports [F19] Report excess emissions and permit deviations [F23]
HAPs	<u>WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ</u>					

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#: **F015C-E6**

Source Description: **Worthington SLHC-10 Compressor Engine (Modified February 26, 2013)**

Pollutant	Emissions Limit / Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Record keeping Requirements	Reporting Requirements
Particulate	40 percent opacity [F2]	WAQSR Ch 3, Sec 2	Test if required [F8]	Natural gas firing [F10]	Record any test results [F16]	Report type of fuel fired [F20] Report excess emissions and permit deviations [F23]
NO _x	20.0 g/hp-hr, 44.1 lb/hr, and 193.1 TPY [F3]	WAQSR Ch 6, Sec 2 Permit MD-1150	Test if required [F8]	Semiannual test [F12]	Record test results [F16]	Testing and monitoring reports [F19] Report excess emissions and permit deviations [F23]
CO	5.0 g/hp-hr, 11.0 lb/hr, and 48.3 TPY [F3]	WAQSR Ch 6, Sec 2 Permit MD-1150	Test if required [F8]	Semiannual test [F12]	Record test results [F16]	Testing and monitoring reports [F19] Report excess emissions and permit deviations [F23]
HAPs	<u>WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ</u>					

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#: **F015C-E10 and -E11** Source Description: **Ford B6PF-6006B Water Pump Engines (Modified February 26, 2013)**

Pollutant	Emissions Limit / Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	20 percent opacity [F2] Limit 500 operating hours per year [F3]	WAQSR Ch 3, Sec 2 Ch 6, Sec 2 Permit MD-1150	Test if required [F8]	Natural gas firing [F10] Monitor operating hours monthly [F12]	Record any test results [F16] Record operating hours [F16]	Report operating hours [F19] Report type of fuel fired [F20] Report excess emissions and permit deviations [F23]
HAPs	<u>WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ</u>					

Source ID#: **F023E-E1** Source Description: **Ajax DPC-540LE Compressor Engine (Modified February 26, 2013)**

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	Test if required [F8]	Natural gas firing [F10]	Record any test results [F16]	Report type of fuel fired [F20] Report excess emissions and permit deviations [F23]
NO _x	2.0 g/hp-hr, 1.9 lb/hr, and 8.2 TPY [F3]	Ch 6, Sec 2 Waiver AP-083	Test if required [F8]	Measure emissions every five years [F12]	Record any test results [F16]	Report excess emissions and permit deviations [F23]
CO	1.6 g/hp-hr, 1.5 lb/hr, and 6.6 TPY [F2]	Ch 6, Sec 2 Waiver AP-083	Test if required [F8]	Measure emissions every five years [F12]	Record any test results [F16]	Report excess emissions and permit deviations [F23]
HAPs	<u>WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ</u>					

Source ID#: **F015C-H1** Source Description: **Glycol Reboiler Heater (Modified February 26, 2013)**

Pollutant	Emissions Limit / Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Particulate	40 percent opacity [F2]	WAQSR Ch 3, Sec 2	Test if required [F8]	Natural gas firing [F10]	Record any test results [F16]	Report type of fuel fired [F20] Report excess emissions and permit deviations [F23]
NO _x	0.23 lb/MMBtu [F4]	WAQSR Ch 3, Sec 3	Test if required [F8]	None	Record any test results [F16]	Report excess emissions and permit deviations [F23]
HAPs	<u>40 CFR 63 Subparts A & DDDDD</u>					

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#: F015C-H2

Source Description: Lean Oil Reboiler (Modified February 26, 2013)

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	Test if required [F8]	Natural gas firing [F10]	Record any test results [F16]	Report type of fuel fired [F20] Report excess emissions and permit deviations [F23]
NO _x	0.06 lb/MMBtu, 1.8 lb/hr, and 7.9 TPY [F4]	WAQSR Ch 6, Sec 2 Waiver AP-0643	Test if required [F8]	None	Record any test results [F16]	Report excess emissions and permit deviations [F23]
CO	0.079 lb/MMBtu, 2.4 lb/hr, and 10.4 TPY [F4]	WAQSR Ch 6, Sec 2 Waiver AP-0643	Test if required [F8]	None	Record any test results [F16]	Report excess emissions and permit deviations [F23]
HAPs	40 CFR 63 Subparts A & DDDDD					

Source ID#: F015C-H4 & -H5 Source Description: Water Tank Heater & Bruest HotCat Line Heater (Modified February 26, 2013)

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	Test if required [F8]	Natural gas firing [F10]	Record any test results [F16]	Report type of fuel fired [F20] Report excess emissions and permit deviations [F23]
NO _x	0.20 lb/MMBtu [F4]	WAQSR Ch 3, Sec 3	Test if required [F8]	None	Record any test results [F16]	Report excess emissions and permit deviations [F23]
HAPs	40 CFR 63 Subparts A & DDDDD					

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#: **F015C-F1**Source Description: **Plant Enclosed Ground Flare**

Pollutant	Emissions Limit/ Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
VOCs	Smokeless operation [F2] Operate with a flame present at all times [F2] Tanker blowdown vapors, if upset, and truck vapor displacement routed to flare [F6]	WAQSR Ch 3, Sec 6 WAQSR Ch 6, Sec 2 Waivers AP-2207 & AP-10118	Test if required [F8]	Quarterly Method 22 observations [F10] Monitor presence of a flame [F11] Monitor blowdown events [F15]	Monitoring records [F16]	Monitoring reports [F20] Report excess emissions and permit deviations [F23]

Source ID#: **F015C-F2**Source Description: **Standby Elevated Flare**

Pollutant	Emissions Limit/ Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
VOCs	Smokeless operation [F2] Operate with a flame present at all times [F2]	WAQSR Ch 3, Sec 6	Test if required [F8]	Monitor use and the presence of a flame [F11]	Record monitoring and use [F16]	Monitoring reports [F20] Report excess emissions and permit deviations [F23]

Source ID#: **F015C-FL2**Source Description: **Condensate Load Out and NGL Off Loading**

Pollutant	Emissions Limit/ Work Practice Standard	Corresponding Regulation(s)	Testing Requirements	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
VOCs	Calendar monthly average of 40,000 gal NGL per day [F6]	WAQSR Ch 6, Sec 2 Waiver AP-10118	Test if required [F8]	Monitor NGL throughput [F14]	Monitoring records [F16]	Monitoring reports [F20] Report excess emissions and permit deviations [F23]

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#: F015C-EG1 Source Description: Caterpillar G3412 TA Emergency Generator (Modified February 26, 2013)

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 [F8]	Natural gas firing [F10]	Record any test results [F16]	Report type of fuel fired [F20] Report excess emissions and permit deviations [F23]
NO _x	0.5 g/hp-hr, 0.7 lb/hr, and 0.2 TPY [F3] Limit of 500 operating hours per year [F3] Maintenance on NSCR & AFRC [F3]	WAQSR Ch 6, Sec 2 Waiver AP-8118	<u>Additional Testing if required [F8]</u>	Biennial testing, monitor hours of operation [F12]	Record test results and operating hours [F16] Record maintenance [F17]	Monitoring reports [F19] Maintenance reports [F21] Report excess emissions and permit deviations [F23]
CO	0.5 g/hp-hr, 0.7 lb/hr, and 0.2 TPY [F3] Limit of 500 operating hours per year [F3] Maintenance on NSCR & AFRC [F3]	WAQSR Ch 6, Sec 2 Waiver AP-8118	<u>Additional Testing if required [F8]</u>	Biennial testing, monitor hours of operation [F12]	Record test results and operating hours [F16] Record maintenance [F17]	Monitoring reports [F19] Maintenance reports [F21] Report excess emissions and permit deviations [F23]
HAPs	<u>WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ</u>					

Source ID#: F015C-EG2 Source Description: Generac Emergency Generator (Modified February 26, 2013)

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 [F8]	Natural gas firing [F10]	Record any test results [F16]	Report type of fuel fired [F20] Report excess emissions and permit deviations [F23]
NO _x and CO	Limit of 500 operating hours per year and maintenance [F3]	WAQSR Ch 6, Sec 2 Waiver wv-13071	Testing if required [F8]	Monitor hours of operation [F12]	Record monitoring requirements [F16] Record maintenance records [F17]	Report monitoring [F20] Report maintenance [F21] Report excess emissions and permit deviations [F23]
HAPs	<u>WAQSR Ch 5, Sec 3 and 40 CFR 63 Subparts A & ZZZZ</u>					

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.

ABBREVIATIONS
(Modified April 28, 2015)

ACFM	<i>Actual cubic feet per minute</i>
AFRC	Air-Fuel Ratio Controller
AQD	Air Quality Division
BACT	Best available control technology (see Definitions)
Btu	British Thermal Unit
CAA	Clean Air Act
C.F.R.	Code of Federal Regulations
CO	Carbon monoxide
CO_{2e}	<i>Carbon dioxide equivalent</i>
DEQ	Wyoming Department of Environmental Quality
EPA	United States Environmental Protection Agency (see Definitions)
ESP	<i>Electrostatic Precipitator</i>
g/hp-hr	Gram(s) per horsepower hour
gal	Gallon(s)
gr	<i>Grain(s)</i>
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)
MM	Million
MVACs	Motor vehicle air conditioners
NMHC(s)	Non-methane hydrocarbon(s)
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)
RICE	Reciprocating Internal Combustion Engine
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 ₃	Sulfur trioxide
SO _x	Oxides of sulfur
TBD	To be determined
TPD	Ton(s) per day (<i>1 ton = 2000 pounds, unless otherwise specified</i>)
TPH	Ton(s) per hour (<i>1 ton = 2000 pounds, unless otherwise specified</i>)
TPY	Tons per year (<i>1 ton = 2000 pounds, unless otherwise specified</i>)
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 C.F.R. 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.

"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 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.*

APPENDIX A
PREVENTATIVE MAINTENANCE PLAN

Appendix I

PREVENTATIVE MAINTENANCE PLAN Wyoming Chapter 6, Section 2 Permit Program

Facility: <u>Casper Gas Plant</u>	Permit Number: <u>AP-0998</u>
Location: <u>Section 5, T33N - R78W, Natrona Co. Wyoming</u>	Issuance Date: _____
Permittee: <u>Kinder Morgan Interstate Gas Transmission Co. (KMIGT)</u>	Plan Date: <u>8/29/2003</u>

Permit condition (—), KMIGT shall submit a Preventative Maintenance Plan to assure the Cooper Bessemer GMVH-10C compressor engine operates within the emission limits in condition (—) of permit.	Permitted Limits: <u>NOx emissions limited to 2.0 grms/bhp-hr and 8.8 lb/hr</u> <u>CO emissions limited to 2.5 grms/bhp-hr and 11.0 lb/hr</u>
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NO.	COMPLIANCE PLAN ELEMENT	TYPE OF ACTION	FREQUENCY	COMMENTS
1	Monitor AFRC (air/fuel ratio controller) set points*	Recordkeeping**	Monthly	Setting adjustments will be made as necessary if not within appropriate range(s)
2	Monitor engine air manifold temperature*	Recordkeeping**	Monthly	Adjustments will be made as necessary if not within appropriate range(s)
3	Change check valve in fuel line to each jet cell (pre-combustion chamber)*	Maintenance**	Semi-annually	Or on a as needed basis
4	Conduct NOx/CO emissions testing using portable analyzer*	Testing	As required by Permit Condition (—)	Corrective measures will be taken if emission test results exceed allowable limits

* Compliance plan elements pertain to the Cooper Bessemer GMVH-10C engine only.

** See log sheet

APPENDIX B -G
Reserved
(Modified February 26, 2013)

