



PART 70 PERMIT TO OPERATE

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to operate the air contaminant source(s) described below, in accordance with the laws, rules, and conditions set forth herein.

Operating Permit Number: OP2013-073
Expiration Date: DEC 01 2018
Installation ID: 159-0047
Project Number: 2013-03-020

Installation Name and Address

Houstonia Compressor Station
16076 Highway T
Lamonte, MO 65337
Pettis County

Parent Company's Name and Address

Panhandle Eastern Pipe Line Company
P.O. Box 4967
Houston, TX 77210-4967

Installation Description:

Panhandle Eastern Pipe Line Company operates a natural gas compression and interstate transmission station, Houstonia Compressor Station, in Lamonte, Missouri; utilizing eleven (11) internal combustion two-cycle, lean burn reciprocating engines ranging from 1,600 to 10,000 hp. Minor emission sources are lube oil, used oil, glycol, glycol/water, pipeline blowdown, diesel oil and unleaded gasoline storage tanks. The facility is a major source of Carbon Monoxide (CO), Nitrogen Oxides (NOx), and Hazardous Air Pollutants (HAPs).

DEC 02 2013

Effective Date


Director or Designee

Department of Natural Resources

Table of Contents

I. INSTALLATION DESCRIPTION AND EQUIPMENT LISTING	3
INSTALLATION DESCRIPTION	3
EMISSION UNITS WITH LIMITATIONS	3
EMISSION UNITS WITHOUT LIMITATIONS	3
DOCUMENTS INCORPORATED BY REFERENCE	4
II. PLANT WIDE EMISSION LIMITATIONS.....	5
III. EMISSION UNIT SPECIFIC EMISSION LIMITATIONS	6
PERMIT CONDITION 1	6
Air Pollution Control Program Construction Permit #1098-011A	6
PERMIT CONDITION 2.....	9
40 CFR Part 60, Subpart JJJJ— <i>Standards of Performance for Stationary Spark Ignition Internal Combustion Engines</i>	9
PERMIT CONDITION 3.....	11
Air Pollution Control Program Construction Permit #0198-033.....	11
PERMIT CONDITION 4.....	12
40 CFR 63 Subpart DDDDD— <i>National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters</i>	12
IV. CORE PERMIT REQUIREMENTS	14
V. GENERAL PERMIT REQUIREMENTS.....	21
VI. ATTACHMENTS	26

I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

Panhandle Eastern Pipe Line Company operates a natural gas compression and interstate transmission station, Houstonia Compressor Station, in Lamonte, Missouri; utilizing eleven (11) internal combustion two-cycle, lean burn reciprocating engines ranging from 1,600 to 10,000 hp. Minor emission sources are lube oil, used oil, glycol, glycol/water, pipeline blowdown, diesel oil and unleaded gasoline storage tanks.

Reported Air Pollutant Emissions, tons per year					
Pollutants	2012	2011	2010	2009	2008
Particulate Matter \leq Ten Microns (PM ₁₀)	34.75	38.17	39.80	33.05	36.21
Particulate Matter \leq 2.5 Microns (PM _{2.5})	34.75	38.17	39.80	33.05	36.21
Sulfur Oxides (SO _x)	0.43	0.47	0.49	0.41	0.44
Nitrogen Oxides (NO _x)	1721.14	1844.10	1983.43	1729.36	1811.33
Volatile Organic Compounds(VOC)	35.78	49.35	57.75	32.88	52.74
Carbon Monoxide (CO)	326.64	362.30	372.17	301.84	341.54
Lead (Pb)	0.00	0.00	0.00	0.00	0.00
Hazardous Air Pollutants (HAPs)	55.41	45.58	47.01	53.34	42.64
Ammonia (NH ₃)	0.00	0.00	0.00	0.00	0.00

EMISSION UNITS WITH LIMITATIONS

The following list provides a description of the equipment at this installation that emits air pollutants and that are identified as having unit-specific emission limitations.

Unit ID#	Description of Emission Source
EP-818	5500 hp I/C Engine, Natural Gas Fired, 2-Cycle Lean Burn
EP-819	2000 hp I/C Engine, Natural Gas Fired, 2-Cycle Lean Burn
EP-820	2000 hp I/C Engine, Natural Gas Fired, 2-Cycle Lean Burn
EP-821	2000 hp I/C Engine, Natural Gas Fired, 2-Cycle Lean Burn
T-17	150 Gallon Unleaded Gasoline Tank
<i>Not Assigned</i>	Two (2) 637 hp Natural Gas Fired Emergency Generator Engines (2011)
SH-1,2,3,4	Natural Gas Fired Process Heaters SH-1 (0.25 MMBtu), SH-2 (0.5 MMBtu), SH-3 (0.5 MMBtu), and SH-4 (0.5 MMBtu)

EMISSION UNITS WITHOUT LIMITATIONS

The following list provides a description of the equipment that does not have unit specific limitations at the time of permit issuance.

Unit ID#	Description of Emission Source
EP-811	1,600 hp I/C Engine, Natural Gas Fired, 2-Cycle Lean Burn, mfg 1947
EP-812	1,600 hp I/C Engine, Natural Gas Fired, 2-Cycle Lean Burn, mfg 1950
EP-813	1,760 hp I/C Engine, Natural Gas Fired, 2-Cycle Lean Burn, mfg 1951
EP-814	3,400 hp I/C Engine, Natural Gas Fired, 2-Cycle Lean Burn, mfg 1962
EP-815	3,400 hp I/C Engine, Natural Gas Fired, 2-Cycle Lean Burn, mfg 1965
EP-816	3,400 hp I/C Engine, Natural Gas Fired, 2-Cycle Lean Burn, mfg 1965
EP-817	10,000 hp I/C engine, Natural Gas Fired, 2-Cycle Lean Burn, mfg 1968

T-1	10,000 Gallon Lube Oil Tank
T-2	2,000 Gallon Lube Oil Drain Tank
T-3	2,000 Gallon Glycol Drain Tank
T-4	700 Gallon Glycol Drain Tank
T-5	700 Gallon Lube Oil Drain Tank
T-6	8,400 Gallon Glycol Tank
T-7	9,450 Gallon Condensate Tank
T-8	10,405 Gallon Condensate Tank
T-9	7,258 Gallon Lube Oil Tank
T-10	3,788 Gallon Glycol Drain Tank
T-11	2,000 Gallon Lube Drain Tank
T-12	2,066 Gallon Condensate Tank
T-16	3,000 Gallon Used Lube Oil Tank
T-18	150 Gallon Diesel Oil Tank
T-19	10,000 Gallon Wastewater Tank
T-20	200,000 Gallon Wastewater Tank
T-21	3,000 Gallon Oily Wastewater Tank
T-23	500 Gallon Portable Condensate Tank (Out Of Service)
T-26	3,100 Gallon Used Lube Oil Tank
T-33	3,000 Gallon Oily Wastewater Tank
BB	Self Enclosed Bead Blaster
PW	Safety Kleen Parts Washer
FG-1	Fugitive Emissions from Component Leaks
TLOAD	Truck Loading (Submerged)

DOCUMENTS INCORPORATED BY REFERENCE

These documents have been incorporated by reference into this permit.

- 1) Construction Permit Number 0198-033
- 2) Construction Permit Number 1098-011A

II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

None.

III. Emission Unit Specific Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

PERMIT CONDITION 1		
10 CSR 10-6.060 <i>Construction Permits Required</i>		
Air Pollution Control Program Construction Permit #1098-011A		
EIQ Reference	Description (Installation Date)	Make/Model
EP - 818	5,500 hp I/C engine, natural gas fueled, 2-cycle lean burn (1989)	Clark/TCV-16
EP - 819	2,000 hp I/C engine, natural gas fueled, 2-cycle lean burn (1988)	Cooper Bessemer /GMWC-6
EP - 820	2,000 hp I/C engine, natural gas fueled, 2-cycle lean burn (1988)	
EP - 821	2,000 hp I/C engine, natural gas fueled, 2-cycle lean burn (1988)	

Emission Limitations:

- 1.) For Units EP-819, EP-820 and EP-821;
 - a.) The nitrogen oxide (NO_x) emission rate shall not exceed two (2.0) grams per horsepower-hour (g/hp-hr) at 100 percent torque. [\[Special Condition 1.A\]](#)
 - b.) The carbon monoxide (CO) emission rate shall not exceed 2.1 g/hp-hr at 100 percent torque. [\[Special Condition 1.B\]](#)
- 2.) For Unit EP-818;
 - a.) The nitrogen oxide (NO_x) emission rate shall not exceed 2.5 g/hp-hr at 100 percent torque. [\[Special Condition 2.A\]](#)
 - b.) The carbon monoxide (CO) emission rate shall not exceed 2.1 g/hp-hr at 100 percent torque. [\[Special Condition 2.B\]](#)

Operational Limitations:

- 1.) Natural gas shall be the only fuel fired in engines EP-818 through EP-821. [\[Special Condition 5.A\]](#)
- 2.) Engines labeled EPs 811- 821 are the only compressor engines allowed to operate at this installation, as they were the only engines whose emissions were included in the atmospheric dispersion modeling analysis performed for the permit review. [\[Special Condition 5.B\]](#)

Performance Testing Requirements:

- 1.) The permittee shall perform annual (once per calendar year) testing on each engine to verify that the applicable NO_x and CO emission limitations are not exceeded. This testing may be conducted either in the same manner as the original performance test or using a portable test analyzer. The notification and reporting requirements of the following items 2.c, 2.d, and 2.e will apply to on-going emission testing with portable test analyzers. [\[Special Condition 3.B\]](#)
- 2.) The applicable test methods and procedures are:
 - a.) The test methods and procedures outlined at 40 CFR Part 60, Appendix A, Method 7E shall be adhered to by the applicant in testing for NO_x.
 - b.) The test methods and procedures outlined at 40 CFR Part 60, Appendix A, Method 10 shall be adhered to by the applicant in testing for CO.

- c.) The date on which performance tests are conducted must be pre-arranged with the Air Pollution Control Program (APCP) a minimum of thirty (30) days prior to the proposed test date so that this program may arrange a pretest meeting, if necessary, to assure that the test date is acceptable for an observer to be present. A completed Proposed Test Plan form may serve the purpose of notification and must be approved by the Air Pollution Control Program prior to conducting the required emission testing.
 - d.) Two (2) copies of a written report of the performance test results shall be submitted to the Director of the Air Pollution Control Program within thirty (30) days of completion of any required testing. The reports must include legible copies of the raw data sheets, analytical instrument laboratory data and complete sample calculations from the required Environmental Protection Agency (EPA) Method for at least one (1) sample run.
 - e.) The test report is to fully account for all operational and emission parameters addressed both in the permit conditions as well as in any other applicable state or federal rules or regulations. [\[Special Conditions 4.A through 4.E\]](#)
- 3.) Annual Testing Requirements for Parameter Verification - Based upon the date of the completed initial testing, the permittee shall perform annual (once per calendar year) portable analyzer NO_x emission tests on one engine of each model type using the specified test methods. For engine groups comprised of two or more engines, a different engine from each engine group shall be tested each year. If the tested hourly NO_x emissions are greater than the applicable limits imposed by this permit condition, the permittee shall determine if the reason is due to a malfunction of the engine or monitoring equipment.
- a.) If due to a malfunction, the equipment shall be repaired, and the unit re-tested.
 - b.) If due to inaccuracies in the correlation equation, testing using EPA Method 7E shall be repeated to re-establish the correlation between engine operating parameters and NO_x emissions for that engine using the Parameter Establishment Procedures below. [\[Special Condition 6.B\]](#)
 - c.) Parameter Establishment Procedures - The permittee shall perform a minimum of nine (9) stack test runs to establish a correlation between engine operating parameters and NO_x emissions for each engine (EP#818 – EP#821) using the following equation and constants A, B, and C referenced below.

$$AMP_{SP} = \frac{AF_{ST} \times FSG \times FFRPM \times (AMT + 460)}{17.329 \times TER_{SP} \times V_{TRAP}} - 29.99$$

Where:

FFRPM = Fuel Flow per Revolution (scf/rev)

AMT = Air Manifold Temperature (°F)

TER_{SP} = Trapped Equivalence Ratio Setpoint

FSG = Fuel Gas Specific Gravity

AF_{ST} = Stoichiometric Air/Fuel Ratio

V_{TRAP} = Engine Trapped Volume (ft³)

AMP_{SP} = Air Manifold Pressure (inHg)

And:

$$FFRPM = \frac{FF_{SCFM}}{RPM}$$

Where:

FF_{SCFM} = Unit Flow Rate (SCFM)

RPM = Unit Speed (RPM)

And:

$$TER_{SP} = A \times (FFRPM)^2 + B \times FFRPM + C$$

Where A, B, and C are constants determined upon performance testing.

[Special Condition 6.A]

Monitoring:

- 1.) NOx Continuous Compliance Assurance – The permittee shall install, maintain, and operate a parametric equation monitoring system. The monitoring system shall collect at a minimum four or more data values equally spaced over each hour and record the operating parameters at the specified frequencies as shown in the following table: [Special Condition 6.C]

Operating Parameter	Unit	Recording Frequency
Fuel Flow (FF _{SCFM})	SCFM	Hourly
Engine Speed	RPM	Hourly
Air Manifold Temperature (AMT)	°F	Hourly
Setpoint Trapped Equivalence Ratio (TER _{SP})	-	Hourly
Engine Trapped Volume (V _{TRAP})	ft ³	Hourly
Actual Air Manifold Pressure (AMP _{ACT})	inHg	Hourly
Air Manifold Pressure (AMP _{SP})	inHg	Hourly

- 2.) If the average of three consecutive hourly readings of actual air manifold pressure (AMP_{ACT}) of any one unit is less than the calculated air manifold pressure (AMP_{SP}) for that unit three times during any year, then the permittee shall determine if the reason is due to a malfunction of the engine or monitoring equipment.
 - a.) If due to a malfunction, the equipment shall be repaired, and the unit re-tested using the procedures and methods as previously described under the Annual Testing Requirements for Parameter Verification.
 - b.) If due to inaccuracies in the correlation equation, testing shall be repeated to re-establish the correlation between engine operating parameters and NO_x emissions for that engine, as described in the Parameter Establishment Procedures above. Testing shall be completed and results submitted to Missouri Department of Natural Resources, Air Pollution Control Program within 90 days of the third occurrence. [Special Condition 6.D]
- 3.) All records shall be kept for no less than five years and be made available immediately to any Missouri Department of Natural Resources’ personnel upon request.

Reporting:

- 1.) Two (2) copies of a written report of the performance test results shall be submitted to the Director of the Air Pollution Control Program within thirty (30) days of completion of any required testing. The reports must include legible copies of the raw data sheets, analytical instrument laboratory data and complete sample calculations from the required Environmental Protection Agency (EPA) Method for at least one (1) sample run. [Special Condition 4.D]
- 2.) The test report is to fully account for all operational and emission parameters addressed both in the permit conditions as well as in any other applicable state or federal rules or regulations. [Special Condition 4.E]

- 3.) The permittee shall report to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65101, no later than ten (10) days after the average of three (3) consecutive hourly readings of actual air manifold pressure (AMP_{ACT}) of any one unit is less than the calculated air manifold pressure (AMP_{SP}) for that unit three times during any year. [\[Special Condition 6.E\]](#)
- 4.) The permittee shall report any deviations of this permit condition to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than the semi-annual monitoring report and annual compliance certification, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

PERMIT CONDITION 2		
10 CSR 10-6.070 <i>New Source Performance Regulations</i> 40 CFR Part 60, Subpart JJJJ— <i>Standards of Performance for Stationary Spark Ignition Internal Combustion Engines</i>		
EIQ Reference #	Description	Make/Model
None Assigned	Two (2) 637 hp Natural Gas Generator Engines	Caterpillar G3412C LE

Operational Requirements:

- 1.) The permittee, as an owner or operator of a stationary SI internal combustion engine that is manufactured after July 1, 2008, shall comply with the emission standards specified in §60.4233(a) through (c), shall comply by purchasing an engine certified to the emission standards in §60.4231(a) through (c), as applicable, for the same engine class and maximum engine power. In addition, shall meet one of the requirements specified in §60.4243(a)(1) and (2). [\[§60.4243\(a\)\]](#)
 - a.) The permittee shall operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, and shall keep records of conducted maintenance to demonstrate compliance. No performance testing is required for certified engines. The permittee shall also meet the requirements as specified in 40 CFR Part 1068, subparts A through D, as applicable. If the permittee adjusts engine settings according to and consistent with the manufacturer's instructions, the stationary SI internal combustion engine will not be considered out of compliance. [\[§60.4243\(a\)\(1\)\]](#)
 - b.) If the permittee does not operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine, and the permittee must demonstrate compliance according to §60.4243(a)(2)(iii). [\[§60.4243\(a\)\(2\)\]](#)
 - i.) If the permittee is an owner of a non-certified engine as described in §60.4243(a)(2), the permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the permittee must conduct an initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance. [\[§60.4243\(a\)\(2\)\(iii\)\]](#)

Annual Usage Limitations:

- 1.) In order for the engine to be considered an emergency stationary ICE under 40 CFR 60 Subpart JJJJ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in

paragraphs §60.4243(d)(1) through (3), is prohibited. If the permittee does not operate the engine according to these requirements, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. [§60.4243(d)]

- a.) There is no time limit on the use of emergency stationary ICE in emergency situations. [§60.4243(d)(1)]
- b.) The permittee may operate the emergency stationary ICE for any combination of the purposes specified in paragraphs (d)(2)(i) through (iii) *below*, for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph §60.4243(d)(3) counts as part of the 100 hours per calendar year allowed by this paragraph. [§60.4243(d)(2)]
 - i.) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. [§60.4243(d)(2)(i)]
 - ii.) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3. [§60.4243(d)(2)(ii)]
 - iii.) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. [§60.4243(d)(2)(iii)]
- c.) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph §60.4243(d)(2). Except as provided in paragraph §60.4243(d)(3)(i), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [§60.4243(d)(3)]
 - i.) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met: [§60.4243(d)(3)(i)]
 - A.) The engine is dispatched by the local balancing authority or local transmission and distribution system operator; [§60.4243(d)(3)(i)(A)]
 - B.) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region. [§60.4243(d)(3)(i)(B)]
 - C.) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines. [§60.4243(d)(3)(i)(C)]
 - D.) The power is provided only to the facility itself or to support the local transmission and distribution system. [§60.4243(d)(3)(i)(D)]

E.) The permittee identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the permittee. [\[§60.4243\(d\)\(3\)\(i\)\(E\)\]](#)

Recordkeeping Requirements:

- 1.) The permittee must keep records of the information in paragraphs §60.4245(a)(1) through (4). [\[§60.4245\(a\)\]](#)
 - a.) All notifications submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification. [\[§60.4245\(a\)\(1\)\]](#)
 - b.) Maintenance conducted on the engine. [\[§60.4245\(a\)\(2\)\]](#)
 - c.) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060, as applicable. [\[§60.4245\(a\)\(3\)\]](#)
- 2.) If the emergency stationary SI ICE is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §60.4243(d)(2)(ii) and (iii), or operates for the purposes specified in §60.4243(d)(3)(i), the permittee must submit an annual report according to the requirements in paragraphs §60.4245(e)(1) through §60.4245(e)(3). [\[§60.4245\(e\)\]](#)
- 3.) The permittee shall report any deviations of this permit condition to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than the semi-annual monitoring report and annual compliance certification, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

PERMIT CONDITION 3	
10 CSR 10-6.060 <i>Construction Permits Required</i> Air Pollution Control Program Construction Permit #0198-033	
EIQ Reference #	Description
T-17	150 gal Unleaded Gasoline Storage Tank

Emission Limitation:

Houstonia Compressor Station shall not exceed a cumulative twelve (12)-month total throughput of 5,000 gallons of product for the 150 gallon unleaded gasoline storage tank. [\[Special Condition 1\]](#)

Monitoring:

Attachment B, or an equivalent recordkeeping form, shall be used to monitor the cumulative twelve (12)-month total throughput of gasoline in the 150 gallon unleaded storage tank.

Recordkeeping:

Records shall be kept on site for the most recent sixty (60) months documenting throughput of product for the 150 gallon unleaded gasoline storage tank. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request. [\[Special Condition 2\]](#)

Reporting:

The permittee shall report to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65101, no later than ten (10) days after the end of any month, if records show that the source exceeded the 5,000 gallon/year throughput limitation. [\[Special Condition 3\]](#)

PERMIT CONDITION 4			
<i>10 CSR 10-6.075 Maximum Achievable Control Technology Regulations 40 CFR 63 Subpart DDDDD—National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters</i>			
EIQ Reference #	Unit Description		
SH-1	Natural Gas Fired Process Heater (0.25 MMBtu)		
SH-2	Natural Gas Fired Process Heater (0.5 MMBtu)		
SH-3	Natural Gas Fired Process Heater (0.5 MMBtu)		
SH-4	Natural Gas Fired Process Heater (0.5 MMBtu)		
Category	Gas 1 Fuels Subcategory (Existing Natural Gas Fired) < 5 MMBtu	Initial Compliance	§63.7510(e)
Compliance Date	January 31, 2016	Continuous Compliance	§63.7540(a)(12)
Emission Limitations	None per §63.7500(e)	Notification Requirements	§63.7545(e)
Work Practice Standards	Table 3, Items #1, & 4, §63.7540(a)(12)	Recordkeeping Requirements	§63.7555(a)(1), §63.7560
Performance Tests	None per §63.7500(e)	Reporting Requirements	§63.7550(b), & (f)
Tune Up Requirements	¹ §63.7500(e), §63.7510(e)	General Provisions (40 CFR Part 63)	Table 10 to Subpart DDDDD
¹ If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. [§63.7540(a)(13)]			

Initial and Continuous Compliance Requirements:

- 1.) The Permittee must complete an initial tune-up by following the procedures described in 63.7540(a)(10)(i) through (vi) and the one-time energy assessment specified in Table 3 of MACT DDDDD no later than January 31, 2016. (Except as specified in paragraph §63.7510(j)).
[\[§63.7510\(e\)\]](#)
- 2.) The Permittee must conduct a tune-up of the process heaters every five years as specified in paragraphs §63.7540(a)(10)(i) through (vi) to demonstrate continuous compliance. The permittee may delay the burner inspection specified in paragraph §63.7540(a)(10)(i) until the next scheduled or unscheduled unit shutdown, but you must inspect each burner at least once every 72 months.
[\[§63.7540\(a\)\(12\)\]](#)

General Provisions:

The permittee shall comply with the applicable general provisions as shown in Table 10 to 40 CFR 63, subpart DDDDD.

Recordkeeping Requirements:

The permittee shall maintain applicable records as specified in §63.7555(a)(1) and §63.7560.

Reporting:

- 1.) Notification Requirements – The Permittee must submit a Notification of Compliance Status according to §63.9(h)(2)(ii). *For these units, the Notification of Compliance Status only has to contain the information specified in paragraphs §63.7545(e)(1) and (8).* [[§63.7545\(e\)](#)]
- 2.) The permittee shall submit the applicable reports as specified in §63.7550(b) and (f).

IV. Core Permit Requirements

The installation shall comply with each of the following regulations or codes. Consult the appropriate sections in the Code of Federal Regulations (CFR), the Code of State Regulations (CSR), and local ordinances for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued. The following is only an excerpt from the regulation or code, and is provided for summary purposes only.

10 CSR 10-6.045 Open Burning Requirements

- 1) General Provisions. The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited, except as allowed below. Nothing in this rule may be construed as to allow open burning which causes or constitutes a public health hazard, nuisance, a hazard to vehicular or air traffic, nor which violates any other rule or statute.
- 2) Refer to the regulation for a complete list of allowances. The following is a listing of exceptions to the allowances:
 - a) Burning of household or domestic refuse. Burning of household or domestic refuse is limited to open burning on a residential premises having not more than four dwelling units, provided that the refuse originates on the same premises, with the following exceptions:
 - i) Kansas City metropolitan area. The open burning of household refuse must take place in an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of Kansas City and every contiguous municipality;
 - ii) Springfield-Greene County area. The open burning of household refuse must take place outside the corporate limits of Springfield and only within areas zoned A-1, Agricultural District;
 - iii) St. Joseph area. The open burning of household refuse must take place within an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of St. Joseph; and
 - iv) St. Louis metropolitan area. The open burning of household refuse is prohibited;
 - b) Yard waste, with the following exceptions:
 - i) Kansas City metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation shall require an open burning permit;
 - ii) Springfield-Greene County area. The City of Springfield requires an open burning permit for the open burning of trees, brush or any other type of vegetation. The City of Springfield prohibits the open burning of tree leaves;
 - iii) St. Joseph area. Within the corporate limits of St. Joseph, the open burning of trees, tree leaves, brush or any other type of vegetation grown on a residential property is allowed during the following calendar periods and time-of-day restrictions:
 - (1) A three (3)-week period within the period commencing the first day of March through April 30 and continuing for twenty-one (21) consecutive calendar days;
 - (2) A three (3)-week period within the period commencing the first day of October through November 30 and continuing for twenty-one (21) consecutive calendar days;
 - (3) The burning shall take place only between the daytime hours of 10:00 a.m. and 3:30 p.m.; and
 - (4) In each instance, the twenty-one (21)-day burning period shall be determined by the director of Public Health and Welfare of the City of St. Joseph for the region in which the City of St. Joseph is located provided, however, the burning period first shall receive the approval of the department director; and

- iv) St. Louis metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation is limited to the period beginning September 16 and ending April 14 of each calendar year and limited to a total base area not to exceed sixteen (16) square feet. Any open burning shall be conducted only between the hours of 10:00 a.m. and 4:00 p.m. and is limited to areas outside of incorporated municipalities;
- 3) Certain types of materials may be open burned provided an open burning permit is obtained from the director. The permit will specify the conditions and provisions of all open burning. The permit may be revoked if the owner or operator fails to comply with the conditions or any provisions of the permit.
- 4) Installation Name may be issued an annually renewable open burning permit for open burning provided that an air curtain destructor or incinerator is utilized and only tree trunks, tree limbs, vegetation or untreated wood waste are burned. Open burning shall occur at least two hundred (200) yards from the nearest occupied structure unless the owner or operator of the occupied structure provides a written waiver of this requirement. Any waiver shall accompany the open burning permit application. The permit may be revoked if Installation Name fails to comply with the provisions or any condition of the open burning permit.
- a) In a nonattainment area, as defined in 10 CSR 10-6.020, paragraph (2)(N)5., the director shall not issue a permit under this section unless the owner or operator can demonstrate to the satisfaction of the director that the emissions from the open burning of the specified material would be less than the emissions from any other waste management or disposal method.
- 5) Reporting and Recordkeeping. New Source Performance Standard (NSPS) 40 CFR Part 60 Subpart CCCC establishes certain requirements for air curtain destructors or incinerators that burn wood trade waste. These requirements are established in 40 CFR 60.2245-60.2260. The provisions of 40 CFR Part 60 Subpart CCCC promulgated as of September 22, 2005, shall apply and are hereby incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401. To comply with NSPS 40 CFR 60.2245-60.2260, sources must conduct an annual Method 9 test. A copy of the annual Method 9 test results shall be submitted to the director.
- 6) Test Methods. The visible emissions from air pollution sources shall be evaluated as specified by 40 CFR Part 60, Appendix A–Test Methods, Method 9–Visual Determination of the Opacity of Emissions from Stationary Sources. The provisions of 40 CFR Part 60, Appendix A, Method 9 promulgated as of December 23, 1971, is incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401.

10 CSR 10-6.050 Start-up, Shutdown and Malfunction Conditions

- 1) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the director within two business days, in writing, the following information:
- a) Name and location of installation;
- b) Name and telephone number of person responsible for the installation;
- c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
- d) Identity of the equipment causing the excess emissions;
- e) Time and duration of the period of excess emissions;
- f) Cause of the excess emissions;
- g) Air pollutants involved;
- h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;

- i) Measures taken to mitigate the extent and duration of the excess emissions; and
 - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- 2) The permittee shall submit the paragraph 1 information list to the director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.
 - 3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under Section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under Section 643.080 or 643.151, RSMo.
 - 4) Nothing in this rule shall be construed to limit the authority of the director or commission to take appropriate action, under Sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
 - 5) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

10 CSR 10-6.060 Construction Permits Required

The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

10 CSR 10-6.065 Operating Permits

The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. [10 CSR 10-6.065(6)(B)1.A(V)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065(6)(C)1.C(II)] The permittee shall immediately make such permit available to any Missouri Department of Natural Resources personnel upon request. [10 CSR 10-6.065(6)(C)3.B]

10 CSR 10-6.080 Emission Standards for Hazardous Air Pollutants and 40 CFR Part 61 Subpart M National Emission Standard for Asbestos

- 1) The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.

- 2) The permittee shall conduct monitoring to demonstrate compliance with registration, certification, notification, and Abatement Procedures and Practices standards as specified in 40 CFR Part 61, Subpart M.

10 CSR 10-6.110 Submission of Emission Data, Emission Fees and Process Information

- 1) The permittee shall submit full emissions report either electronically via MoEIS, which requires Form 1.0 signed by an authorized company representative, or on Emission Inventory Questionnaire (EIQ) paper forms on the frequency specified in this rule and in accordance with the requirements outlined in this rule. Alternate methods of reporting the emissions, such as spreadsheet file, can be submitted for approval by the director.
- 2) The permittee may be required by the director to file additional reports.
- 3) Public Availability of Emission Data and Process Information. Any information obtained pursuant to the rule(s) of the Missouri Air Conservation Commission that would not be entitled to confidential treatment under 10 CSR 10-6.210 shall be made available to any member of the public upon request.
- 4) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079.
- 5) The fees shall be payable to the Department of Natural Resources and shall be accompanied by the emissions report.
- 6) The permittee shall complete required reports on state supplied EIQ forms or electronically via MoEIS. Alternate methods of reporting the emissions can be submitted for approval by the director. The reports shall be submitted to the director by April 1 after the end of each reporting year. If the full emissions report is filed electronically via MoEIS, this due date is extended to May 1.
- 7) The reporting period shall end on December 31 of each calendar year. Each report shall contain the required information for each emission unit for the twelve (12)-month period immediately preceding the end of the reporting period.
- 8) The permittee shall collect, record and maintain the information necessary to complete the required forms during each year of operation of the installation.

10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential

This rule specifies the conditions that establish an air pollution alert (yellow/orange/red/purple), or emergency (maroon) and the associated procedures and emission reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the Director.

10 CSR 10-6.150 Circumvention

The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

10 CSR 10-6.170

Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin

Emission Limitation:

- 1) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line of origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the director.
- 2) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.
- 3) Should it be determined that noncompliance has occurred, the director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:
 - a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
 - b) Paving or frequent cleaning of roads, driveways and parking lots;
 - c) Application of dust-free surfaces;
 - d) Application of water; and
 - e) Planting and maintenance of vegetative ground cover.

10 CSR 10-6.180 Measurement of Emissions of Air Contaminants

- 1) The director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The director may specify testing methods to be used in accordance with good professional practice. The director may observe the testing. All tests shall be performed by qualified personnel.
- 2) The director may conduct tests of emissions of air contaminants from any source. Upon request of the director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.
- 3) The director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

10 CSR 10-6.165 Restriction of Emission of Odors

This requirement is not federally enforceable.

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour. This odor evaluation shall be taken at a location outside of the installation's property boundary.

10 CSR 10-6.250 Asbestos Abatement Projects – Certification, Accreditation, and Business Exemption Requirements

The permittee shall conduct all asbestos abatement projects within the procedures established for certification and accreditation by 10 CSR 10-6.250. This rule requires individuals who work in asbestos

abatement projects to be certified by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires persons who hold exemption status from certain requirements of this rule to allow the department to monitor training provided to employees. Each individual who works in asbestos abatement projects must first obtain certification for the appropriate occupation from the department. Each person who offers training for asbestos abatement occupations must first obtain accreditation from the department. Certain business entities that meet the requirements for state-approved exemption status must allow the department to monitor training classes provided to employees who perform asbestos abatement.

Title VI – 40 CFR Part 82 Protection of Stratospheric Ozone

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
 - b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
 - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
 - d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- 2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
 - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
 - b) 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.
 - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
 - d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
 - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
 - f) 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.
- 3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, Production and Consumption Controls.
- 4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) 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 system used on passenger buses using HCFC-22 refrigerant.

- 5) The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, Significant New Alternatives Policy Program. *Federal Only - 40 CFR Part 82*

10 CSR 10-6.280 Compliance Monitoring Usage
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| <p>1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:</p> <ul style="list-style-type: none">a) Monitoring methods outlined in 40 CFR Part 64;b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; andc) Any other monitoring methods approved by the director. <p>2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:</p> <ul style="list-style-type: none">a) Monitoring methods outlined in 40 CFR Part 64;b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; andc) Compliance test methods specified in the rule cited as the authority for the emission limitations. <p>3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:</p> <ul style="list-style-type: none">a) Applicable monitoring or testing methods, cited in:<ul style="list-style-type: none">i) 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources";ii) 10 CSR 10-6.040, "Reference Methods";iii) 10 CSR 10-6.070, "New Source Performance Standards";iv) 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants"; orb) Other testing, monitoring, or information gathering methods, if approved by the director, that produce information comparable to that produced by any method listed above. |
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V. General Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued,

10 CSR 10-6.065(6)(C)1.B Permit Duration

This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed.

10 CSR 10-6.065(6)(C)1.C General Recordkeeping and Reporting Requirements

- 1) Recordkeeping
 - a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
 - b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.
- 2) Reporting
 - a) All reports shall be submitted to the Air Pollution Control Program's Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
 - b) The permittee shall submit a report of all required monitoring by:
 - i) October 1st for monitoring which covers the January through June time period, and
 - ii) April 1st for monitoring which covers the July through December time period.
 - iii) Exception. Monitoring requirements which require reporting more frequently than semi-annually shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.
 - c) Each report shall identify any deviations from emission limitations, monitoring, recordkeeping, reporting, or any other requirements of the permit, this includes deviations or Part 64 exceedances.
 - d) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten days after any exceedance of any applicable rule, regulation or other restriction. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
 - i) Notice of any deviation resulting from an emergency (or upset) condition as defined in paragraph (6)(C)7.A of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the permitting authority either verbally or in writing within two working days after the date on which the emission limitation is exceeded due to the emergency, if the permittee wishes to assert an affirmative defense. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that indicate an emergency occurred and the permittee can identify the cause(s) of the emergency. The permitted installation must show that it was operated properly at the time and that during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or requirements in the permit. The notice must contain a description of the emergency, the steps taken to mitigate emissions, and the corrective actions taken.

- ii) Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.
- iii) Any other deviations identified in the permit as requiring more frequent reporting than the permittee's semi-annual report shall be reported on the schedule specified in this permit, and no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.
- e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.
- f) The permittee may request confidential treatment of information submitted in any report of deviation.

10 CSR 10-6.065(6)(C)1.D Risk Management Plan Under Section 112(r)

The permittee shall comply with the requirements of 40 CFR Part 68, Accidental Release Prevention Requirements. If the permittee has more than a threshold quantity of a regulated substance in process, as determined by 40 CFR Section 68.115, the permittee shall submit a Risk Management Plan in accordance with 40 CFR Part 68 no later than the latest of the following dates:

- 1) June 21, 1999;
- 2) Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or
- 3) The date on which a regulated substance is first present above a threshold quantity in a process.

10 CSR 10-6.065(6)(C)1.F Severability Clause

In the event of a successful challenge to any part of this permit, all uncontested permit conditions shall continue to be in force. All terms and conditions of this permit remain in effect pending any administrative or judicial challenge to any portion of the permit. If any provision of this permit is invalidated, the permittee shall comply with all other provisions of the permit.

10 CSR 10-6.065(6)(C)1.G General Requirements

- 1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to

the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted pursuant to 10 CSR 10-6.065(6)(C)1.

10 CSR 10-6.065(6)(C)1.H Incentive Programs Not Requiring Permit Revisions

No permit revision will be required for any installation changes made under any approved economic incentive, marketable permit, emissions trading, or other similar programs or processes provided for in this permit.

10 CSR 10-6.065(6)(C)1.I Reasonably Anticipated Operating Scenarios

None.

10 CSR 10-6.065(6)(C)3 Compliance Requirements

- 1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
- 2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
 - a) Enter upon the premises where a permitted installation is located or an 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 and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
- 3) All progress reports required under an applicable schedule of compliance shall be submitted semi-annually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
 - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
 - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
- 4) The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, as well as the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and Part 64 exceedances and excursions must be included in the compliance certifications. The compliance certification shall include the following:
 - a) The identification of each term or condition of the permit that is the basis of the certification;
 - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;

- c) Whether compliance was continuous or intermittent;
- d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and
- e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

10 CSR 10-6.065(6)(C)6 Permit Shield

- 1) Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements as of the date that this permit is issued, provided that:
 - a) The applicable requirements are included and specifically identified in this permit, or
 - b) The permitting authority, in acting on the permit revision or permit application, determines in writing that other requirements, as specifically identified in the permit, are not applicable to the installation, and this permit expressly includes that determination or a concise summary of it.
- 2) Be aware that there are exceptions to this permit protection. The permit shield does not affect the following:
 - a) The provisions of Section 303 of the Act or Section 643.090, RSMo concerning emergency orders,
 - b) Liability for any violation of an applicable requirement which occurred prior to, or was existing at, the time of permit issuance,
 - c) The applicable requirements of the acid rain program,
 - d) The authority of the Environmental Protection Agency and the Air Pollution Control Program of the Missouri Department of Natural Resources to obtain information, or
 - e) Any other permit or extra-permit provisions, terms or conditions expressly excluded from the permit shield provisions.

10 CSR 10-6.065(6)(C)7 Emergency Provisions

- 1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7.A shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:
 - a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
 - b) That the installation was being operated properly,
 - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
 - d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days 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 any corrective actions taken.
- 2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

10 CSR 10-6.065(6)(C)8 Operational Flexibility

An installation that has been issued a Part 70 operating permit is not required to apply for or obtain a permit revision in order to make any of the changes to the permitted installation described below if the changes are not Title I modifications, the changes do not cause emissions to exceed emissions allowable

under the permit, and the changes do not result in the emission of any air contaminant not previously emitted. The permittee shall notify the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, at least seven days in advance of these changes, except as allowed for emergency or upset conditions. Emissions allowable under the permit means a federally enforceable permit term or condition determined at issuance to be required by an applicable requirement that establishes an emissions limit (including a work practice standard) or a federally enforceable emissions cap that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

- 1) Section 502(b)(10) changes. Changes that, under Section 502(b)(10) of the Act, contravene an express permit term may be made without a permit revision, except for changes that would violate applicable requirements of the Act or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting or compliance requirements of the permit.
 - a) Before making a change under this provision, The permittee shall provide advance written notice to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, describing the changes to be made, the date on which the change will occur, and any changes in emission and any permit terms and conditions that are affected. The permittee shall maintain a copy of the notice with the permit, and the Air Pollution Control Program shall place a copy with the permit in the public file. Written notice shall be provided to the EPA and the Air Pollution Control Program as above at least seven days before the change is to be made. If less than seven days' notice is provided because of a need to respond more quickly to these unanticipated conditions, the permittee shall provide notice to the EPA and the Air Pollution Control Program as soon as possible after learning of the need to make the change.
 - b) The permit shield shall not apply to these changes.

10 CSR 10-6.065(6)(C)9 Off-Permit Changes

- 1) Except as noted below, the permittee may make any change in its permitted operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Insignificant activities listed in the application, but not otherwise addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. Off-permit changes shall be subject to the following requirements and restrictions:
 - a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; the permittee may not change a permitted installation without a permit revision if this change is subject to any requirements under Title IV of the Act or is a Title I modification;
 - b) The permittee must provide written notice of the change to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, no later than the next annual emissions report. This notice shall not be required for changes that are insignificant activities under 10 CSR 10-6.065(6)(B)3. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change.
 - c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes; and
 - d) The permit shield shall not apply to these changes.

10 CSR 10-6.020(2)(R)12 Responsible Official

The application utilized in the preparation of this permit was signed by Mr. Jim Kerns, Vice President - Operations. If this person terminates employment, or is reassigned different duties such that a different person becomes the responsible person to represent and bind the installation in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

10 CSR 10-6.065(6)(E)6 Reopening-Permit for Cause

This permit may be reopened for cause if:

- 1) The Missouri Department of Natural Resources (MDNR) receives notice from the Environmental Protection Agency (EPA) that a petition for disapproval of a permit pursuant to 40 CFR § 70.8(d) has been granted, provided that the reopening may be stayed pending judicial review of that determination,
- 2) The Missouri Department of Natural Resources or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,
- 3) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if—:
 - a) The permit has a remaining term of less than three years;
 - b) The effective date of the requirement is later than the date on which the permit is due to expire;or
 - c) The additional applicable requirements are implemented in a general permit that is applicable to the installation and the installation receives authorization for coverage under that general permit,
- 4) The installation is an affected source under the acid rain program and additional requirements (including excess emissions requirements), become applicable to that source, provided that, upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the permit; or
- 5) The Missouri Department of Natural Resources or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

10 CSR 10-6.065(6)(E)1.C Statement of Basis

This permit is accompanied by a statement setting forth the legal and factual basis for the permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

VI. Attachments

None.

STATEMENT OF BASIS

Permit Reference Documents

These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

- 1) Part 70 Operating Permit Application, received March 6, 2013;
- 2) 2012 Emissions Inventory Questionnaire,; and
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition.

Other Air Regulations Determined Not to Apply to the Operating Permit

The Air Pollution Control Program (APCP) has determined the following requirements to not be applicable to this installation at this time for the reasons stated.

10 CSR 10-6.100, *Alternate Emission Limits*

This rule is not applicable because the installation is in an ozone attainment area.

Construction Permit History

The following construction permits were issued to the facility by the Air Pollution Control Program:

Construction Permit Number	Project Description	Operating Permit Location
1098-011	Installation of 4 natural gas fired compressor engines. These units are reported as Emission Points 818 through 821.	Permit Condition 1
1098-011A	Amendment to Construction Permit #1098-011 to institute a Parametric Emissions Monitoring System (PEMS).	
0198-033	Installation of various small VOL storage tanks.	Permit Condition 3

Construction Permit Revisions

The following revisions were made to construction permits for this installation:

Construction Permit No. 1098-011A Special Conditions 1.A and 1.B: The BACT NO_x and CO limitations for the engines are mass rate limits, not concentration limits, and should not be corrected to fifteen (15) percent oxygen. A recordkeeping retention requirement of 5 years was added.

Construction Permit No. 0198-033: The throughput of the 150 gallon unleaded gasoline tank T-17 was changed from annual to 12-month rolling total. The recordkeeping retention requirements were changed from two (2) years to 60 consecutive months.

Both construction permits (0198-033 and 1098-011A) were reformatted to meet operating permit format. Obsolete initial testing requirements were also removed from CP 1098-011A.

New Source Performance Standards (NSPS) Applicability

40 CFR Part 60 Subparts K, Ka, and Kb Standards of Performance for Storage Vessels for Petroleum Liquids are not applicable since all of the lube oil tanks are below the minimum sizes specified in the rules.

40 CFR Part 60, Subpart JJJJ—Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

EQ Reference #	Description	Make/Model
Not Assigned Yet	Two (2) 637 hp Natural Gas Generator Engines	Caterpillar G3412C LE

NSPS JJJJ applies to these units since they were installed after June 12, 2006. (See *Emission Unit Specific PERMIT CONDITION 2*)

Maximum Achievable Control Technology (MACT) Applicability

40 CFR Part 63 Subpart HHH *National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities*

The Houstonia station does not have any dehydration units, as verified with the facility via email on May 15 2013. §63.1270(c) states that facilities that do not utilize glycol dehydration units, as specified in §63.1270(b), are not subject to the requirements of MACT HHH.

40 CFR Part 63 Subpart ZZZZ National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

EQ Reference	Description (Installation Date)	Make/Model
EP - 811	1,600 hp I/C engine, natural gas fueled, 2-cycle lean burn (1947)	Clark/BA-8
EP - 812	1,600 hp I/C engine, natural gas fueled, 2-cycle lean burn (1950)	Clark/BA-8
EP - 813	1,760 hp I/C engine, natural gas fueled, 2-cycle lean burn (1951)	Clark/HBA-8
EP - 814	3,400 hp I/C engine, natural gas fueled, 2-cycle lean burn (1962)	Clark/TLA-10
EP - 815	3,400 hp I/C engine, natural gas fueled, 2-cycle lean burn (1965)	Clark/TLA-10
EP - 816	3,400 hp I/C engine, natural gas fueled, 2-cycle lean burn (1965)	Cooper Bessemer /V-250-10
EP - 817	10,000 hp I/C engine, natural gas fueled, 2-cycle lean burn (1968)	Cooper Bessemer /Z-330-16
EP - 818	5,500 hp I/C engine, natural gas fueled, 2-cycle lean burn (1989)	Clark/TCV-16
EP - 819	2,000 hp I/C engine, natural gas fueled, 2-cycle lean burn (1988)	Cooper Bessemer /GMWC-6
EP - 820	2,000 hp I/C engine, natural gas fueled, 2-cycle lean burn (1988)	
EP - 821	2,000 hp I/C engine, natural gas fueled, 2-cycle lean burn (1988)	

§63.6590(b)(3)(i) states that an “Existing spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating > 500 brake HP located at a major source of HAP emissions do not have to meet the requirements of this subpart and of subpart A of this part, including initial notification requirements.

EQ Reference #	Description	Make/Model
Not Assigned	Two (2) 637 hp Natural Gas Generator Engines	Caterpillar G3412C LE

The two emergency generators are subject to MACT ZZZZ, but maintain compliance through compliance with NSPS JJJJ (*See Emission Unit Specific PERMIT CONDITION 2*)

40 CFR Part 63 Subpart DDDDD—National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

Process heaters designed to burn natural gas (gas 1 fuels) subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13 to this subpart, or the operating limits in Table 4 to 40 CFR 63 Subpart DDDDD per §63.7500(e). They are however subject to the tune up requirement every five years. (*See Emission Unit Specific PERMIT CONDITION 4*)

Compliance Assurance Monitoring (CAM) Applicability

40 CFR Part 64, *Compliance Assurance Monitoring (CAM)*

The CAM rule applies to each pollutant specific emission unit that:

- Is subject to an emission limitation or standard, and
- Uses a control device to achieve compliance, and
- Has pre-control emissions that exceed or are equivalent to the major source threshold.

40 CFR Part 64 is not applicable because none of the pollutant-specific emission units uses a control device to achieve compliance with a relevant standard.

Updated Potential to Emit for the Installation

Pollutant	Potential to Emit (tons/yr) ¹
CO	152.2
CO ₂ e	47,844
Total HAP	32.83
Individual HAP (Formaldehyde)	22.6
NO _x	1,044.6
PM ₁₀	19.7
PM ₂₅	19.7
SO _x	0.24
VOC	49.13

¹Each emission unit was evaluated at 8,760 hours of uncontrolled annual operation other than the emergency generator (EP-827) which was evaluated at 500 hrs. VOC and HAP totals for the VOL storage was taken from Construction Permit #0198-033.

Other Regulatory Determinations

10 CSR 10-6.220 *Restriction of Emission of Visible Air Contaminants*

10 CSR 10-6.220(1)(A) specifies that this rule does not apply to internal combustion engines operated outside the Kansas City or St. Louis metropolitan areas. The remaining emission sources, (tanks and process heaters) would not be expected to exceed the visible emission standard of twenty (20) percent opacity specified in this regulation for these sources. Therefore, no provisions from this rule were placed into this permit for any of these units.

Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis

Any regulation which is not specifically listed in either the Operating Permit or in the above Statement of Basis does not appear, based on this review, to be an applicable requirement for this installation for one or more of the following reasons:

1. The specific pollutant regulated by that rule is not emitted by the installation;
2. The installation is not in the source category regulated by that rule;
3. The installation is not in the county or specific area that is regulated under the authority of that rule;
4. The installation does not contain the type of emission unit which is regulated by that rule;
5. The rule is only for administrative purposes.

Should a later determination conclude that the installation is subject to one or more of the regulations cited in this Statement of Basis or other regulations which were not cited, the installation shall determine and demonstrate, to the Air Pollution Control Program's satisfaction, the installation's compliance with that regulation(s). If the installation is not in compliance with a regulation which was not previously cited, the installation shall submit to the Air Pollution Control Program a schedule for achieving compliance for that regulation(s).

Prepared by:

Don Murphy
Environmental Engineer

Mr. Jim Kerns
Panhandle Eastern Pipe Line Co – Houstonia
16076 Hwy T
Lamonte, MO 65337

Re: Panhandle Easter Pipe Line Co - Houstonia
Permit Number: **OP2013-073**

Dear Mr. Kerns:

Enclosed with this letter is your Part 70 operating permit. Please review this document carefully. Operation of your installation in accordance with the rules and regulations cited in this document is necessary for continued compliance. It is very important that you read and understand the requirements contained in your permit.

You may appeal this permit to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.078.16 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you have any questions or need additional information regarding this permit, please do not hesitate to contact Don Murphy at the Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102, or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Michael J. Stansfield, P.E.
Operating Permit Unit Chief

MJS:dmk

Enclosures

c: Kansas City Regional Office
PAMS File: 2013-03-020