



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706 • (208) 373-0502

C.L. "Butch" Otter, Governor
Curt Fransen, Director

July 25, 2014

Robert Harmon
Director of Operations
Northwest Pipeline LLC – Lava Hot Springs
295 Chipeta Way
Salt Lake City, UT 84108

RE: Facility ID No. 005-00028, Northwest Pipeline LLC, Lava Hot Springs
Final Tier I Operating Permit Letter

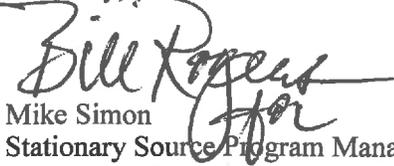
Dear Mr. Harmon:

The Department of Environmental Quality (DEQ) is issuing revised Tier I Operating Permit No. T1-2009.0141 Project No. 61386 to Northwest Pipeline LLC at Lava Hot Springs in accordance with IDAPA 58.01.01.300 through 386, Rules for the Control of Air Pollution in Idaho (Rules). This permitting action is a Tier I operating permit administrative amendment to change the name of the facility from Northwest Pipeline GP to Northwest Pipeline LLC.

The enclosed permit is effective immediately, summarizes the applicable requirements for your facility, and requires an annual compliance certification for all emissions units. This permit replaces Tier I Operating Permit No. T1-2009.0141, issued August 6, 2010. The enclosed operating permit is based on the information contained in your permit application received on June 2, 2014. Modifications to and/or renewal of this operating permit shall be requested in a timely manner in accordance with the Rules.

Pursuant to IDAPA 58.01.23, you, as well as any other entity, may have the right to appeal this final agency action within 35 days of the date of this decision. However, prior to filing a petition for a contested case, I encourage you to call Harbi Elshafei at (208) 373-0501 or harbi.elshafei@deq.idaho.gov to address any questions or concerns you may have with the enclosed permit.

Sincerely,


Mike Simon
Stationary Source Program Manager
Air Quality Division

MS/HE Permit No. T1-2009.0141 PROJ 61386

Enclosure

AIR QUALITY

TIER I OPERATING PERMIT

Permittee Northwest Pipeline LLC, Lava Hot Springs
Permit Number T1-2009.0141
Project ID 61386
Facility ID 005-00028
Facility Location 6680 E. Old Oregon Trail Road Near Intersection with
South Topaz Road

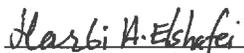
Permit Authority

This permit (a) is issued according to the "Rules for the Control of Air Pollution in Idaho" (Rules) (IDAPA 58.01.01.300-386) (b) incorporates all applicable terms and conditions of prior air quality permits issued by the Idaho Department of Environmental Quality (DEQ) for the permitted source, unless the permittee emits toxic pollutants subject to state-only requirements pursuant to IDAPA 58.01.01.210 and the permittee elects not to incorporate those terms and conditions into this operating permit.

The permittee shall comply with the terms and conditions of this permit. The effective date of this permit is the date of signature by DEQ on this cover page.

Date Issued July 25, 2014

Date Expires August 6, 2015



Harbi Elshafei, Permit Writer



Mike Simon, Stationary Source Manager

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Acronyms, Units, and Chemical Nomenclature

acfm	actual cubic feet per minute
AFS	AIRS Facility Subsystem
AIRS	Aerometric Information Retrieval System
AQCR	Air Quality Control Region
Btu	British thermal unit
CAA	Clean Air Act
CFR	Code of Federal Regulations
CO	carbon monoxide
DEQ	Department of Environmental Quality
EPA	U.S. Environmental Protection Agency
HAP	hazardous air pollutants
hp	horsepower
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
ISO	International Organization for Standardization
km	kilometers
lb/hr	pounds per hour
m	meters
MACT	Maximum Achievable Control Technology
MMBtu	million British thermal units
NAICS	North American Industry Classification System
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
NSPS	New Source Performance Standards
PM	particulate matter
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
ppm	parts per million
PTC	permit to construct
scf	standard cubic feet
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SM	synthetic minor
SO ₂	sulfur dioxide
SO _x	sulfur oxides
T/yr	tons per year
TAP	toxic air pollutants
UTM	Universal Transverse Mercator
VOC	volatile organic compounds

1. TIER I OPERATING PERMIT SCOPE

Purpose

1.1 This Tier I operating permit establishes facility-wide requirements in accordance with the Idaho State Implementation Plan control strategy and the Rules.

This permitting action is an administrative amendment to the Tier I operating permit. Specifically, the administrative amendment is a facility name change from Northwest Pipeline GP to Northwest Pipeline LLC.

1.2 This Tier I permit incorporates the following permit(s):

- Permit to Construct No. P-2008.0163, issued February 6, 2009.
- This Tier I operating permit replaces the following permit(s):
 - Tier I Operating Permit No. T1-2009.0141, issued August 6, 2010.

Regulated Sources

1.3 Table 1.1 lists all sources of emissions regulated in this Tier I operating permit.

Table 1.1 REGULATED SOURCES

Permit Section	Source Description	Emissions Control
2.	Facility-Wide Conditions	Reasonable control for fugitive dust
3.	<u>GAS TURBINE:</u> T4002 - Solar Centaur model 40-4002 natural gas-fired gas turbine with a maximum rating of 4,107 hp @ ISO conditions installed in 1978	None
	<u>GAS TURBINE:</u> T4700S - Solar Centaur model 40-4700S natural gas-fired gas turbine with a maximum rating of 4,700 hp @ ISO conditions installed in 2003	SoLo NO _x Combustor
	<u>GAS TURBINE:</u> T1300 - Solar Saturn model 10-1300 natural gas-fired gas turbine with a maximum rating of 1,300 hp @ ISO conditions installed in 2001 (skid mounted)	None

2. FACILITY-WIDE CONDITIONS

Table 2.1 contains a summary of requirements that apply generally to emissions units at the facility.

Table 2.1 FACILITY-WIDE APPLICABLE REQUIREMENTS SUMMARY

Permit Condition	Parameter	Permit Limit/ Standard Summary	Applicable Requirements Reference	Operating, Monitoring and Recordkeeping Requirements
2.1	Fugitive dust	Reasonable precautions	IDAPA 58.01.01.650-651	2.2, 2.3, 2.4, 2.11, 2.12
2.5	Odors	No emissions that cause air pollution	IDAPA 58.01.01.775-776	2.6, 2.11, 2.12
2.7	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	IDAPA 58.01.01.625	2.8, 2.2.11, 12
2.9	Excess emissions	Compliance with IDAPA 58.01.01.130-136	IDAPA 58.01.01.130	2.9, 2.11, 2.12
2.10	Criteria air pollutants	Performance testing	IDAPA 58.01.01.157	2.11, 2.12
2.13	Open burning	In accordance with IDAPA 58.01.01.600-623	IDAPA 58.01.01.600-623	2.11, 2.12
2.14	Asbestos	Compliance with 40 CFR 61, Subpart M for renovation/demolition	40 CFR 61, Subpart M	2.11, 2.12
2.15	Chemical accidental prevention provisions	Compliance with Risk Management Plan and other 40 CFR Part 68 requirements	40 CFR Part 68	2.11, 2.12
2.16	Recycling and emission reduction	Reduce emissions of Class I and Class II refrigerants in accordance with 40 CFR 82, Subpart F	40 CFR 82, Subpart F	2.11, 2.12

Fugitive Dust

- 2.1** All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with IDAPA 58.01.01.650-651.
[IDAPA 58.01.01.650-651, 3/30/07]
- 2.2** The permittee shall monitor and maintain records of the frequency and the method(s) used (e.g., water, chemical dust suppressants) to reasonably control fugitive dust emissions.
[IDAPA 58.01.01.322.06, 07, 5/1/94]
- 2.3** The permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall include, at a minimum, the date that each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.
[IDAPA 58.01.01.322.06, 07, 5/1/94]
- 2.4** The permittee shall conduct a quarterly facility-wide inspection of potential sources of fugitive dust emissions, during daylight hours and under normal operating conditions to ensure that the methods used to reasonably control fugitive dust emissions are effective. If fugitive dust emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each fugitive dust emissions inspection. The records shall include, at a minimum, the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (if observed), any corrective action taken in response to the fugitive dust emissions, and the date the corrective action was taken.
[IDAPA 58.01.01.322.06, 07, 5/1/94]

Odors

- 2.5 The permittee shall not allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.
[IDAPA 58.01.01.775-776 (state only), 5/1/94]
- 2.6 The permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall include, at a minimum, the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.
[IDAPA 58.01.01.322.06, 07 (state-only), 5/1/94]

Visible Emissions

- 2.7 The permittee shall not discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas is the only reason for the failure of the emission to comply with the requirements of this section.
[IDAPA 58.01.01.625, 4/5/00]
- 2.8 The permittee shall conduct a quarterly facility-wide inspection of potential sources of visible emissions, during daylight hours and under normal operating conditions. Sources that are monitored using a continuous opacity monitoring system (COMS) are not required to comply with this permit condition. The inspection shall consist of a see/no see evaluation for each potential source of visible emissions. If any visible emissions are present from any point of emission, the permittee shall either
- a) take appropriate corrective action as expeditiously as practicable to eliminate the visible emissions. Within 24 hours of the initial see/no see evaluation and after the corrective action, the permittee shall conduct a see/no see evaluation of the emissions point in question. If the visible emissions are not eliminated, the permittee shall comply with b).
- or
- b) perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20%, as measured using Method 9, for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in its annual compliance certification and in accordance with IDAPA 58.01.01.130-136.

The permittee shall maintain records of the results of each visible emission inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

[IDAPA 58.01.01.322.06, 07, 5/1/94; IDAPA 58.01.01.322.08, 4/5/00]

Excess Emissions

Excess Emissions - General

- 2.9 The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions. The provisions of IDAPA 58.01.01.130-136 shall govern in the event of conflicts between Permit Condition 2.9 and the regulations of IDAPA 58.01.01.130-136.

2.9.1 The person responsible for or in charge of a facility during an excess emissions event shall, with all practicable speed, initiate and complete appropriate and reasonable action to correct the conditions causing the excess emissions event; to reduce the frequency of occurrence of such events; to minimize the amount by which the emission standard is exceeded; and shall, as provided below or upon request of DEQ, submit a full report of such occurrence, including a statement of all known causes, and of the scheduling and nature of the actions to be taken.

[IDAPA 58.01.01.132, 4/5/00]

Excess Emissions – Startup, Shutdown, Scheduled Maintenance

2.9.2 In all cases where startup, shutdown, or scheduled maintenance of any equipment or emission unit is expected to result or results in an excess emissions event, the owner or operator of the facility or emissions unit generating the excess emissions shall demonstrate compliance with IDAPA 58.01.01.133.01(a) through (d), including, but not limited to, the following:

[IDAPA 58.01.01.133, 4/5/00]

- A prohibition of any scheduled startup, shutdown, or maintenance resulting in excess emissions shall occur during any period in which an Atmospheric Stagnation Advisory or a Wood Stove Curtailment Advisory has been declared by DEQ.

[IDAPA 58.01.01.133.01.a, 3/20/97]

- Notifying DEQ of the excess emissions event as soon as reasonably possible, but no later than two hours prior to, the start of the event, unless the owner or operator demonstrates to DEQ's satisfaction that a shorter advance notice was necessary.

[IDAPA 58.01.01.133.01.b, 4/5/00]

- The owner or operator of a source of excess emissions shall report and record the information required pursuant to Permit Conditions 2.9.4 and 2.9.5 and IDAPA 58.01.01.135 and 136 for each excess emissions event due to startup, shutdown, or scheduled maintenance.

[IDAPA 58.01.01.133.01.c, 3/20/97]

Excess Emissions – Upset, Breakdown, or Safety Measures

2.9.3 In all cases where upset or breakdown of equipment or an emissions unit, or the initiation of safety measures, results or may result in an excess emissions event, the owner or operator of the facility or emissions unit generating the excess emissions shall demonstrate compliance with IDAPA 58.01.01.134.01(a) and (b) and the following:

[IDAPA 58.01.01.134, 4/11/06]

2.9.3.1 For all equipment or emissions units from which excess emissions result during upset or breakdown conditions, or for other situations that may necessitate the implementation of safety measures which cause excess emissions, the facility owner or operator shall comply with the following:

[IDAPA 58.01.01.134.02, 4/5/00]

- The owner or operator shall immediately undertake all appropriate measures to reduce and, to the extent possible, eliminate excess emissions resulting from the event and to minimize the impact of such excess emissions on the ambient air quality and public health.

[IDAPA 58.01.01.134.02.a, 4/5/00]

- The owner or operator shall notify DEQ of any upset, breakdown, or safety event that results in excess emissions. Such notification shall identify the time, specific location, equipment or emissions unit involved, and (to the extent known) the cause(s) of the occurrence. The notification shall be given as soon as reasonably possible, but no later than 24 hours after the event, unless the

owner or operator demonstrates to DEQ's satisfaction that the longer reporting period was necessary.

[IDAPA 58.01.01.134.02.b, 4/5/00]

- The owner or operator shall report and record the information required pursuant to Permit Conditions 2.9.4 and 2.9.5 and IDAPA 58.01.01.135 and 136 for each excess emissions event caused by an upset, breakdown, or safety measure.

[IDAPA 58.01.01.134.02.c, 3/20/97]

2.9.3.2 During any period of excess emissions caused by upset, breakdown, or operation under facility safety measures, DEQ may require the owner or operator to immediately reduce or cease operation of the equipment or emissions unit causing the period until such time as the condition causing the excess has been corrected or brought under control. Such action by DEQ shall be taken upon consideration of the factors listed in IDAPA 58.01.01.134.03 and after consultation with the facility owner or operator.

[IDAPA 58.01.01.134.03 4/5/00]

Excess Emissions – Reporting and Recordkeeping

2.9.4 A written report for each excess emissions event shall be submitted to DEQ by the owner or operator no later than 15 days after the beginning of such an event. Each report shall contain the information specified in IDAPA 58.01.01.135.02.

[IDAPA 58.01.01.135.01 and 02, 4/11/06]

2.9.5 The owner or operator shall maintain excess emissions records at the facility for the most recent five-calendar-year period. The excess emissions records shall be made available to DEQ upon request and shall include the information requested by IDAPA 58.01.01.136.03(a) and (b) as summarized in the following:

[IDAPA 58.01.01.136.01, 02, 3/20/97; IDAPA 58.01.01.136.03, 4/5/00]

- An excess emissions log book for each emissions unit or piece of equipment containing copies of all reports that have been submitted to DEQ pursuant to IDAPA 58.01.01.135 for the particular emissions unit or equipment; and

[IDAPA 58.01.01.136.03.a, 4/5/00]

- Copies of all startup, shutdown, and scheduled maintenance procedures and upset, breakdown, or safety preventative maintenance plans that have been developed by the owner or operator in accordance with IDAPA 58.01.01.133 and 134, and facility records as necessary to demonstrate compliance with such procedures and plans.

[IDAPA 58.01.01.136.03.b, 3/20/97]

Performance Testing

2.10 If performance testing is required, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test or shorter time period as provided in a permit, order, consent decree, or by DEQ approval. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests such testing not be performed on weekends or state holidays.

All testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, prior to conducting any performance test, the permittee is encouraged to submit in writing to DEQ, at least 30 days in advance, the following for approval:

- The type of method to be used
- Any extenuating or unusual circumstances regarding the proposed test
- The proposed schedule for conducting and reporting the test

Unless a longer time is approved by DEQ or as specified elsewhere in the permit, the permittee shall submit a compliance test report for the respective test to DEQ within 30 days following the date in which a compliance test required by this permit is concluded. The compliance test report shall include all process operating data collected during the test period as well as the test results, raw test data, and associated documentation, including any approved test protocol.

The proposed test date(s), test date rescheduling notice(s), compliance test report, and all other correspondence shall be sent to the following address:

Air Quality Permit Compliance
 Department of Environmental Quality
 Pocatello Regional Office
 444 Hospital Way # 300
 Pocatello, ID 83201
 Phone: (208) 236-6160 Fax: (208) 236-6168

[IDAPA 58.01.01.157, 4/5/00; IDAPA 58.01.01.322.06, 08.a, 09, 5/1/94]

Monitoring and Recordkeeping

- 2.11 The permittee shall maintain sufficient records to assure compliance with all of the terms and conditions of this operating permit. Records of monitoring information shall include, but not be limited to, the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records 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. Supporting information includes, but is not limited to, all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

[IDAPA 58.01.01.322.07, 5/1/94]

Reports and Certifications

- 2.12 All periodic reports and certifications required by this permit shall be submitted to DEQ within 30 days of the end of each specified reporting period. Excess emissions reports and notifications shall be submitted in accordance with IDAPA 58.01.01.130-136. Reports, certifications, and notifications shall be submitted to:

Air Quality Permit Compliance
 Department of Environmental Quality
 Pocatello Regional Office
 444 Hospital Way # 300
 Pocatello, ID 83201
 Phone: (208) 236-6160 Fax: (208) 236-6168

The periodic compliance certification required by General Provision 21 shall also be submitted within 30 days of the end of the specified reporting period to:

Open Burning

2.13 The permittee shall comply with the *Rules for Control of Open Burning*, IDAPA 58.01.01.600-623.
 [IDAPA 58.01.01.600-623, 04/02/08T]

Asbestos

2.14 The permittee shall comply with all applicable portions of 40 CFR 61, Subpart M – Asbestos.
 [40 CFR 61, Subpart M]

Regulated Substances for Accidental Release Prevention

2.15 An owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, shall comply with the requirements of the Chemical Accident Prevention Provisions at 40 CFR 68 no later than the latest of the following dates:

- Three years after the date on which a regulated substance present above a threshold quantity is first listed under 40 CFR 68.130.
- The date on which a regulated substance is first present above a threshold quantity in a process.

[40 CFR 68.10 (a)]

Recycling and Emissions Reductions

2.16 The permittee shall comply with applicable standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, Recycling and Emissions Reduction.
 [40 CFR 82, Subpart F]

NSPS General Provisions

2.17 NSPS 40 CFR 60, Subpart A – General Provisions

The permittee shall comply with the applicable requirements of 40 CFR 60, Subpart A – General Provisions in accordance with 40 CFR 60.1. A summary of requirements for affected facilities is provided in Table 2.2.

Table 2.2 NSPS 40 CFR 60, SUBPART A – SUMMARY OF GENERAL PROVISIONS

Section	Section Title	Summary of Section Requirements
60.4	Address	All notifications and reports shall be submitted to: Department of Environmental Quality Pocatello Regional Office 444 Hospital Way #300 Pocatello, ID 83201
60.7(b),(c),(d) and (f)	Notification and Recordkeeping	<ul style="list-style-type: none"> • Notification of commencement of construction postmarked no later than 30 days of such date. • Notification of startup postmarked within 15 days of such date. • Notification of physical or operational change that may increase emissions postmarked 60 days before the change is made. • Maintain records of the occurrence and duration of any: startup, shutdown or malfunction of the affected source;

		<p>malfunction of air pollution control device; and any period when a continuous monitoring system or monitoring device is inoperative.</p> <ul style="list-style-type: none"> • Maintain in a permanent form records suitable for inspection of all measurements, system testing, performance measurements, calibration checks, and adjustments/maintenance performed. Records shall be maintained for a period of two years from the date the record is required to be generated by the applicable regulation.
60.8	Performance Tests	<ul style="list-style-type: none"> • The owner or operator shall provide notice at least 30 days prior to any performance test to afford an opportunity for an observer to be present during testing. • Within 60 days of achieving maximum production, but not later 180 days after startup the permittee shall conduct performance test(s) and furnish a written report of the results of the test(s).
60.11(a),(b),(c), (d) and (g)	Compliance with Standards and Maintenance Requirements	<ul style="list-style-type: none"> • Other than opacity standards, where performance tests are required compliance with standards is determined by methods and procedures established by 40 CFR 60.8. • Compliance with NSPS opacity standards shall be determined by Method 9 of Appendix A. The owner or operator may elect to use COM measurements in lieu of Method 9 provided notification is made at least 30 days before the performance test. • At all times, including periods of startup, shutdown, and malfunction to the extent practicable, the operator shall maintain and operate any affected facility and air pollution control equipment consistent with good air pollution control practices. • For the purposes of determining compliance with standards any creditable evidence may be used if the appropriate performance or compliance test procedure has been performed.
60.12	Circumvention	No owner or operator shall build, erect, install or use any article or method, including dilution, to conceal an emission which would otherwise constitute a violation.
60.14	Modification	<ul style="list-style-type: none"> • Physical or operational changes to source types that are regulated by a NSPS which result in an increase in hourly emissions to which a standard applies is considered a modification (unless expressly exempted the NSPS). Modified sources become subject to the NSPS standards. • Note that in accordance with IDAPA 58.01.01.201 no owner or operator may commence a modification without first obtaining a permit to construct unless the modification is exempted from the need to obtain a permit in accordance with IDAPA 58.01.01.220-223.

[PTC No. P-2008.0163, 2/6/09; 40 CFR 60, Subpart A]

Incorporation of Federal Requirements by Reference

2.18 Unless expressly provided otherwise, any reference in this permit to any document identified in IDAPA 58.01.01.107.03 shall constitute the full incorporation into this permit of that document for the purposes of the reference, including any notes and appendices therein. Documents include, but are not limited to:

-
- Standards of Performance for New Stationary Sources (NSPS), 40 CFR Part 60

For permit conditions referencing or cited in accordance with any document incorporated by reference (including permit conditions identified as NSPS or NESHAP), should there be any conflict between the requirements of the permit condition and the requirements of the document, the requirements of the document shall govern, including any amendments to that regulation.

3. THREE NATURAL GAS-FIRED TURBINES

Summary Description

The three natural gas-fired turbines are used to power natural gas compressors on a Federal Energy Regulatory Commission (FERC) regulated natural gas pipeline. Two of the gas turbines are stationary and one is skid mounted. The purpose of the portable gas turbine is to deliver additional power at the compressor station in times of high natural gas demand.

Table 3.1 describes the devices used to control emissions from the three natural gas-fired turbines.

Table 3.1 THREE NATURAL GAS-FIRED TURBINES DESCRIPTION EMISSIONS CONTROL DEVICES

Emissions Unit / Process	Emissions Control Device
Stationary Gas Turbine/T4002	N/A
Stationary Gas Turbine/T4700S	SoLo NO _x Combustor
Skid Mounted Gas Turbine/T1300	N/A

Table 3.2 contains only a summary of the requirements that apply to the three natural gas-fired turbines. Specific permit requirements are listed below Table 3.2.

Table 3.2 THREE NATURAL GAS-FIRED TURBINES APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Operating and Monitoring and Recordkeeping Requirements
3.1	NO _x , CO, and VOCs	<p><u>T4002</u>: NO_x – 21.65 lb/hr, 94.85 T/yr CO – 19.98 lb/hr, 87.53 T/yr VOC – 0.46 lb/hr, 2.01 T/yr</p> <p><u>T4700S</u>: NO_x – 3.89 lb/hr, 17.02 T/yr CO – 4.74 lb/hr, 20.77 T/yr VOC – 0.27 lb/hr, 1.19 T/yr</p> <p><u>T1300</u>: NO_x – 7.88 lb/hr, 34.51 T/yr CO – 12.80 lb/hr, 56.04 T/yr VOC – 0.37 lb/hr, 1.61 T/yr</p>	PTC No. P-2008.0163	3.6, 3.7, 3.8, 3.9, 3.10
3.2	NO _x	<p><u>T4002</u>: NO_x – 0.0167% by volume at 15% O₂</p> <p><u>T4700S</u>: NO_x – 0.0166% by volume at 15% O₂</p> <p><u>T1300</u>: NO_x – 0.0150% by volume at 15% O₂</p>	PTC No. P-2008.0163, 40 CFR 60.332(a)(2)	3.7, 3.10
3.3	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	PTC No. P-2008.0163, IDAPA 58.01.01.625	2.8
3.5	Natural gas sulfur content	0.8% by weight (8000 ppmw)	40 CFR 60.333	3.9

Permit Limits / Standard Summary

3.1 NO_x, CO, and VOC Emission Limits

The NO_x, CO, and VOC emissions from the T4002, T4700S, and T1300 gas turbine stacks shall not exceed any corresponding emissions rate limits listed in Table 3.3.

Table 3.3 THREE NATURAL GAS-FIRED TURBINES EMISSIONS LIMITS¹

Source Description	NO _x		CO		VOC	
	lb/hr	T/yr ²	lb/hr	T/yr ²	lb/hr	T/yr ²
Gas Turbine T4002	21.65	94.85	19.98	87.53	0.46	2.01
Gas Turbine T4700S	3.89	17.02	4.74	20.77	0.27	1.19
Gas Turbine T1300	7.88	34.51	12.80	56.04	0.37	1.61

¹ In absence of any other credible evidence, compliance is assured by complying with this permit's operating, monitoring and record keeping requirements.

² Tons per consecutive 12-calendar month period.

[PTC No. P-2008.0163, 2/6/09]

3.2 NSPS NO_x Emissions Concentration Limits

- In accordance with 40 CFR 60.332(a)(2), the NO_x emissions from the T4002 gas-fired turbine shall not exceed 0.0167% by volume (167 ppmv) at 15% oxygen on a dry basis.
- In accordance with 40 CFR 60.332(a)(2), the NO_x emissions from the T4700S gas-fired turbine shall not exceed 0.0166% by volume (166 ppmv) at 15% oxygen on a dry basis.
- In accordance with 40 CFR 60.332(a)(2), the NO_x emissions from the T1300 gas-fired turbine shall not exceed 0.0150% by volume (150 ppmv) at 15% oxygen on a dry basis.

[PTC No. P-2008.0163, 2/6/09, 40 CFR 60.332(a)(2)]

3.3 Visible Emissions

Emissions from the three gas turbine stacks, or any other stack, vent, or functionally equivalent opening associated with the three gas turbines, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

[PTC No. P-2008.0163, 2/6/09, IDAPA 58.01.01.625, 4/5/00]

Operating Requirements

3.4 Allowable Fuel Types

The three gas-fired turbines shall only combust natural gas fuel.

[PTC No. P-2008.0163, 2/6/09]

3.5 Natural Gas Sulfur Content Limit

In accordance with 40 CFR 60.333(b), the sulfur content of the natural gas combusted in the three gas turbines shall not exceed 0.8% by weight (8000 ppmw).

[PTC No. P-2008.0163, 2/6/09, 40 CFR 60.333(b)]

Monitoring and Recordkeeping Requirements

3.6 Fuel Use Monitoring

The permittee shall monitor and record the fuel usage for the three gas turbines continuously using fuel flow meters that are accurate to within ±5.0%. The fuel flow meters shall be calibrated once each year. The date and time of each calibration and any maintenance performed on the fuel meters shall also be

recorded. Each calendar month, the permittee shall record total monthly fuel usage and maximum hourly fuel usage for the turbines.

[PTC No. P-2008.0163, 2/6/09]

3.7 Emissions Calculations for NO_x and CO

Each month the permittee shall calculate the maximum hourly emissions and the monthly emissions of NO_x and CO in tons per month for the three gas turbines. The permittee shall use the data from the most recent source test, where available, or the emission factors used in the permit application. Each month the permittee shall calculate the annual emissions for the previous 12-consecutive-month period. Records of these calculations shall be maintained in accordance with Permit Condition 2.11.

[PTC No. P-2008.0163, 2/6/09]

3.8 Emissions Calculations for VOC

Each month the permittee shall calculate the maximum hourly emissions and the monthly emissions of VOC in tons per month for the three gas turbines. The permittee shall use emission factor for the VOC in the permit application. Each month the permittee shall calculate the annual emissions for the previous 12-consecutive-month period. Records of these calculations shall be maintained in accordance with Permit Condition 2.11.

[IDAPA 58.01.01.322.06, 07]

3.9 Fuel Sulfur and Nitrogen Content

As long as the three gas turbines are burning pipeline-quality natural gas, the permittee shall maintain records of the gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less.

[PTC No. P-2008.0163, 2/6/09; 40 CFR 60.334(h)(1)(i)]

3.10 On-Going NO_x Performance Test(s)

- Within 60 days after achieving the maximum production rate at which the source will operate, the permittee shall conduct a performance test to measure NO_x emissions from any gas turbine that is exchanged during this permit term.
- For all other turbines that are operating on site and are not exchanged during this permit term, the permittee shall conduct a performance test to measure NO_x emissions from each turbine at any time during this permit term.
- Performance testing shall be conducted in accordance with 40 CFR 60.335 and IDAPA 58.01.01.157
- Within 60 days of completing any performance test, the permittee shall submit to DEQ a performance test report.

[IDAPA 58.01.01.322.06(c), (d), 09, 5/1/94; 40 CFR 60.335]

3.11 Compliance with NO_x Emissions Limitations from the Turbines

The permittee shall determine compliance with the applicable nitrogen oxides emissions limitations in 40 CFR 60.332 and shall meet the performance test requirements of 40 CFR 60.8 as follows:

- (1) For each run of the performance test, the mean nitrogen oxides emission concentration (NO_{xo}) corrected to 15 percent O₂ shall be corrected to ISO standard conditions using the following equation for T4002 and T1300. Notwithstanding this requirement, use of the ISO correction equation is optional for lean premix stationary combustion turbine (i.e., T4700S):

$$\text{NO}_x = (\text{NO}_{x0})(P_r/P_o)^{0.5} e^{19} (H_o - 0.00633)(288^\circ\text{K}/T_a)^{1.53}$$

Where:

NO_x = emission concentration of NO_x at 15 percent O_2 and ISO standard ambient conditions, ppm by volume, dry basis,

NO_{x0} = mean observed NO_x concentration, ppm by volume, dry basis, at 15 percent O_2 ,

P_r = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg,

P_o = observed combustor inlet absolute pressure at test, mm Hg,

H_o = observed humidity of ambient air, g $\text{H}_2\text{O}/\text{g}$ air,

e = transcendental constant, 2.718, and

T_a = ambient temperature, $^\circ\text{K}$.

(2) The 3-run performance test required by §60.8 must be performed within ± 5 percent at 30, 50, 75, and 90-to-100 percent of peak load or at four evenly-spaced load points in the normal operating range of the gas turbine, including the minimum point in the operating range and 90-to-100 percent of peak load, or at the highest achievable load point if 90-to-100 percent of peak load cannot be physically achieved in practice. If the turbine combusts both oil and gas as primary or backup fuels, separate performance testing is required for each fuel. Notwithstanding these requirements, performance testing is not required for any emergency fuel (as defined in 40 CFR 60.331).

[40 CFR 60.334(b)]

4. TIER I OPERATING PERMIT GENERAL PROVISIONS

General Compliance

- 4.1 The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application.
[IDAPA 58.01.01.322.15.a, 5/1/94; 40 CFR 70.6(a)(6)(i)]
- 4.2 It shall not be a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the terms and conditions of this permit.
[IDAPA 58.01.01.322.15.b, 5/1/94; 40 CFR 70.6(a)(6)(ii)]
- 4.3 Any permittee who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.
[IDAPA 58.01.01.315.01, 5/1/94; 40 CFR 70.5(b)]

Reopening

- 4.4 This permit may be revised, reopened, revoked and reissued, or terminated for cause. Cause for reopening exists under any of the circumstances listed in IDAPA 58.01.01.386. Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable in accordance with IDAPA 58.01.01.360 through 369.
[IDAPA 58.01.01.322.15.c, 5/1/94; IDAPA 58.01.01.386, 3/19/99;
4 FR 70.7(f)(1), (2); 40 CFR 70.6(a)(6)(iii)]
- 4.5 The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
[IDAPA 58.01.01.322.15.d, 5/1/94; 40 CFR 70.6(a)(6)(iii)]

Property Rights

- 4.6 This permit does not convey any property rights of any sort, or any exclusive privilege.
[IDAPA 58.01.01.322.15.e, 5/1/94; 40 CFR 70.6(a)(6)(iv)]

Information Requests

- 4.7 The permittee shall furnish all information requested by DEQ, within a reasonable time, that DEQ 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.
[Idaho Code §39-108; IDAPA 58.01.01.122, 4/5/00; IDAPA 58.01.01.322.15.f, 4/5/00;
40 FR 70.6(a)(6)(v)]
- 4.8 Upon request, the permittee shall furnish to DEQ copies of records required to be kept by this permit. For information claimed to be confidential, the permittee may furnish such records along with a claim of confidentiality in accordance with Idaho Code §9-342A and applicable implementing regulations including IDAPA 58.01.01.128.
[IDAPA 58.01.01.322.15.g, 5/1/94; IDAPA 58.01.01.128, 4/5/00; 40 CFR 70.6(a)(6)(v)]

Severability

- 4.9 The provisions of this permit are severable, and if 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.

[IDAPA 58.01.01.322.15.h, 5/1/94; 40 CFR 70.6(a)(5)]

Changes Requiring Permit Revision or Notice

- 4.10 The permittee may not commence construction or modification of any stationary source, facility, major facility, or major modification without first obtaining all necessary permits to construct or an approval under IDAPA 58.01.01.213, or complying with IDAPA 58.01.01.220 through 223. The permittee shall comply with IDAPA 58.01.01.380 through 386 as applicable.

[IDAPA 58.01.01.200-223, 4/2/08; IDAPA 58.01.01.322.15.i, 3/19/99; IDAPA 58.01.01.380-386, 7/1/02; 40 FR 70.4(b)(12), (14), (15), and 70.7(d), (e)]

- 4.11 Changes that are not addressed or prohibited by the Tier I operating permit require a Tier I operating permit revision if such changes are subject to any requirement under Title IV of the CAA, 42 U.S.C. Section 7651 through 7651c, or are modifications under Title I of the CAA, 42 U.S.C. Section 7401 through 7515. Administrative amendments (IDAPA 58.01.01.381), minor permit modifications (IDAPA 58.01.01.383), and significant permit modifications (IDAPA 58.01.01.382) require a revision to the Tier I operating permit. IDAPA 58.01.01.502(b)(10) changes are authorized in accordance with IDAPA 58.01.01.384. Off-permit changes and required notice are authorized in accordance with IDAPA 58.01.01.385.

[IDAPA 58.01.01.381-385, 7/1/02; IDAPA 58.01.01.209.05, 4/11/06; 40 CFR 70.4(b)(14) and (15)]

Federal and State Enforceability

- 4.12 Unless specifically identified as a "State-only" provision, all terms and conditions in this permit, including any terms and conditions designed to limit a source's potential to emit, are enforceable: (i) by DEQ in accordance with state law; and (ii) by the United States or any other person in accordance with federal law.

[IDAPA 58.01.01.322.15.j, 5/1/94; 40 CFR 70.6(b)(1) and (2)]

- 4.13 Provisions specifically identified as a "State-only" provision are enforceable only in accordance with state law. "State-only" provisions are those that are not required under the Federal Clean Air Act or under any of its applicable requirements or those provisions adopted by the state prior to federal approval.

[Idaho Code §39-108; IDAPA 58.01.01.322.15.k, 3/23/98]

Inspection and Entry

- 4.14 Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:
- a. Enter upon the permittee's premises where a Tier I source is located or emissions related activity is conducted, or where records are kept under conditions of this permit;
 - b. Have access to and copy, at reasonable times, any records that are 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; and

- d. As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.

[Idaho Code §39-108; IDAPA 58.01.01.322.15.i, 5/1/94; 40 CFR 70.6(c)(2)]

New Applicable Requirements

- 4.15 The permittee shall comply with applicable requirements that become effective during the permit term on a timely basis.

[IDAPA 58.01.01.322.10, 4/5/00; IDAPA 58.01.01.314.10.a.ii, 5/1/94; 40 CFR 70.6(c)(3) citing 70.5(c)(8)]

Fees

- 4.16 The permittee shall pay annual registration fees to DEQ in accordance with IDAPA 58.01.01.387 through IDAPA 58.01.01.397.

[IDAPA 58.01.01.387, 4/2/03; 40 CFR 70.6(a)(7)]

Certification

- 4.17 All documents submitted to DEQ shall be certified in accordance with IDAPA 58.01.01.123 and comply with IDAPA 58.01.01.124.

[IDAPA 58.01.01.322.15.o, 5/1/94; 40 CFR 70.6(a)(3)(iii)(A); 40 CFR 70.5(d)]

Renewal

- 4.18 a. The permittee shall submit an application to DEQ for a renewal of this permit at least six months before, but no earlier than 18 months before, the expiration date of this operating permit. To ensure that the term of the operating permit does not expire before the permit is renewed, the owner or operator is encouraged to submit a renewal application nine months prior to the date of expiration.

[IDAPA 58.01.01.313.03, 4/5/00; 40 CFR 70.5(a)(1)(iii)]

- b. If a timely and complete application for a Tier I operating permit renewal is submitted, but DEQ fails to issue or deny the renewal permit before the end of the term of this permit, then all the terms and conditions of this permit including any permit shield that may have been granted pursuant to IDAPA 58.01.01.325 shall remain in effect until the renewal permit has been issued or denied.

[IDAPA 58.01.01.322.15.p, 5/1/94; 40 CFR 70.7(b)]

Permit Shield

- 4.19 Compliance with the terms and conditions of the Tier I operating permit, including those applicable to all alternative operating scenarios and trading scenarios, shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

- a. Such applicable requirements are included and are specifically identified in the Tier I operating permit; or
- i. DEQ has determined that other requirements specifically identified are not applicable and all of the criteria set forth in IDAPA 58.01.01.325.01(b) have been met.
- b. The permit shield shall apply to permit revisions made in accordance with IDAPA 58.01.01.381.04 (administrative amendments incorporating the terms of a permit to construct), IDAPA 58.01.01.382.04 (significant modifications), and IDAPA 58.01.01.384.03 (trading under an emissions cap).
- c. Nothing in this permit shall alter or affect the following:

- i. Any administrative authority or judicial remedy available to prevent or terminate emergencies or imminent and substantial dangers;
- ii. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of the acid rain program, consistent with 42 U.S.C. Section 7651(g)(a); and
- iv. The ability of EPA to obtain information from a source pursuant to Section 114 of the CAA; or the ability of DEQ to obtain information from a source pursuant to Idaho Code §39-108 and IDAPA 58.01.01.122.

**[Idaho Code §39-108 and 112; IDAPA 58.01.01.122, 4/5/00;
IDAPA 58.01.01.322.15.m, 325.01, 5/1/94; IDAPA 58.01.01.325.02, 3/19/99;
IDAPA 58.01.01.381.04, 382.04, 383.05, 384.03, 385.03, 3/19/99; 40 CFR 70.6(f)]**

Compliance Schedule and Progress Reports

- 4.20**
- a. For each applicable requirement for which the source is not in compliance, the permittee shall comply with the compliance schedule incorporated in this permit.
 - b. For each applicable requirement that will become effective during the term of this permit and that provides a detailed compliance schedule, the permittee shall comply with such requirements in accordance with the detailed schedule.
 - c. For each applicable requirement that will become effective during the term of this permit that does not contain a more detailed schedule, the permittee shall meet such requirements on a timely basis.
 - d. For each applicable requirement with which the permittee is in compliance, the permittee shall continue to comply with such requirements.
**[IDAPA 58.01.01.322.10, 4/5/00; IDAPA 58.01.01.314.9, 5/1/94; IDAPA 58.01.01.314.10, 4/5/00;
40 CFR 70.6(c)(3) and (4)]**

Periodic Compliance Certification

- 4.21** The permittee shall submit compliance certifications during the term of the permit for each emissions unit to DEQ and the EPA as follows:
- a. The compliance certifications for all emissions units shall be submitted annually from January 1 to December 31 or more frequently if specified by the underlying applicable requirement or elsewhere in this permit by DEQ.
 - b. The initial compliance certification for each emissions unit shall address all of the terms and conditions contained in the Tier I operating permit that are applicable to such emissions unit including emissions limitations, standards, and work practices;
 - c. The compliance certification shall be in an itemized form providing the following information (provided that the identification of applicable information may cross-reference the permit or previous reports as applicable):
 - i. The identification of each term or condition of the Tier I operating permit that is the basis of the certification;
 - ii. The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period. Such methods and other means shall include, at a minimum, the methods and means required under Subsections 322.06, 322.07, and 322.08;
 - iii. The status of compliance with the terms and conditions of the Tier I operating permit for the period covered by the certification, including whether compliance during the period was

continuous or intermittent. The certification shall be based on the method or means designated in Subsection 322.11.c.ii. above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred; and

- iv. Such information as the Department may require to determine the compliance status of the emissions unit.
- d. All original compliance certifications shall be submitted to DEQ and a copy of all compliance certifications shall be submitted to the EPA.

[IDAPA 58.01.01.322.11, 4/6/05; 40 CFR 70.6(c)(5)(iii) as amended, 62 Fed. Reg. 54900, 54946 (10/22/97); 40 CFR 70.6(c)(5)(iv)]

False Statements

- 4.22 No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.125, 3/23/98]

No Tampering

- 4.23 No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.126, 3/23/98]

Semiannual Monitoring Reports

- 4.24 In addition to all applicable reporting requirements identified in this permit, the permittee shall submit reports of any required monitoring at least every six months. The permittee's semiannual reporting periods shall be from January 1 to June 30 and July 1 to December 31. All instances of deviations from this operating permit's requirements must be clearly identified in the report. The semiannual reports shall be submitted to DEQ within 30 days of the end of the specified reporting period.

[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.322.08.c, 4/5/00; 40 CFR 70.6(a)(3)(iii)]

Reporting Deviations and Excess Emissions

- 4.25 The permittee shall promptly report all deviations from permit requirements including upset conditions, their probable cause, and any corrective actions or preventive measures taken. For excess emissions, the report shall be made in accordance with IDAPA 58.01.01.130-136. For all other deviations, the report shall be made in accordance with IDAPA 58.01.01.322.08.c, unless otherwise specified in this permit.

[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.135, 4/11/06; 40 CFR 70.6(a)(3)(iii)]

Permit Revision Not Required

- 4.26 No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit.

[IDAPA 58.01.01.322.05.b, 4/5/00; 40 CFR 70.6(a)(8)]

Emergency

- 4.27 In accordance with IDAPA 58.01.01.332, an "emergency," as defined in IDAPA 58.01.01.008, constitutes an affirmative defense to an action brought for noncompliance with such technology-based emissions limitation if the conditions of IDAPA 58.01.01.332.02 are met."

[IDAPA 58.01.01.332.01, 4/5/00; 40 CFR 70.6(g)]