

## **Statement of Basis**

**Permit to Construct No. P-2011.0139  
Project ID 61381**

**Northwest Pipeline LLC  
Buhl, Idaho**

**Facility ID 083-00050**

**Final**

**July 30, 2014  
Robert Baldwin  
Permit Writer**



The purpose of this Statement of Basis is to satisfy the requirements of IDAPA 58.01.01. et seq, Rules for the Control of Air Pollution in Idaho, for issuing air permits.

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## ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE

AAC	acceptable ambient concentrations
AACC	acceptable ambient concentrations for carcinogens
acfm	actual cubic feet per minute
ASTM	American Society for Testing and Materials
BACT	Best Available Control Technology
BMP	best management practices
Btu	British thermal units
CAA	Clean Air Act
cfm	cubic feet per minute
CI	compression ignition
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
COMS	continuous opacity monitoring systems
DEQ	Department of Environmental Quality
dscf	dry standard cubic feet
EPA	U.S. Environmental Protection Agency
HAP	hazardous air pollutants
hp	horsepower
hr/yr	hours per consecutive 12 calendar month period
ICE	internal combustion engines
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
iwg	inches of water gauge
MMBtu	million British thermal units
MMscf	million standard cubic feet
NAAQS	National Ambient Air Quality Standard
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>2</sub>	nitrogen dioxide
NO <sub>x</sub>	nitrogen oxides
NSPS	New Source Performance Standards
O&M	operation and maintenance
O <sub>2</sub>	oxygen
PC	permit condition
PM	particulate matter
PM <sub>2.5</sub>	particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers
PM <sub>10</sub>	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
ppm	parts per million
ppmw	parts per million by weight
PTC	permit to construct
PTE	potential to emit
RICE	reciprocating internal combustion engines
<i>Rules</i>	<i>Rules for the Control of Air Pollution in Idaho</i>
SCL	significant contribution limits
SIP	State Implementation Plan
SM	synthetic minor
SM80	synthetic minor facility with emissions greater than or equal to 80% of a major source threshold
SO <sub>2</sub>	sulfur dioxide
SO <sub>x</sub>	sulfur oxides
VOC	volatile organic compounds
4SRB	4-stroke rich burn

## **FACILITY INFORMATION**

### ***Description***

Northwest Pipeline LLC, operates an existing natural gas pipeline compressor station which is located 20 miles west of Buhl, Idaho. At this facility two natural gas-fired turbines are used to power natural gas compressors for a Federal Energy Regulatory Commission (FERC) regulated natural gas pipeline. The two gas turbines are a Solar Centaur model T-5502, and a Solar Centaur model T-4700S. The Solar Centaur model T-5502 and the Solar Centaur model T-4700S gas turbines are stationary.

### ***Permitting History***

The following information was derived from a review of the permit files available to DEQ. Permit status is noted as active and in effect (A) or superseded (S).

June 17, 1991	P-08300050, New compressor station with a natural gas turbine compressor rated at 5500 hp.(S)
June 5, 1995	P-08300050, Action was to decrease the allowable NOx and increase the allowable CO.(S)
March 20, 2002	P-010434, Authorizes the construction of a new, gas turbine-driven, natural gas compressor, Solar Centaur T-4700S.(S)
August 25, 2003	P-030409, revision of Permit Condition 3.1 of P-010434 which requires NWP to submit a complete T1 permit application.(S)
October 15, 2004	P-40402, Modifies Permit Conditions 2.3, 2.8, 2.9, and 2.13 of P-030409 and supercedes P-030409.(S)
December 9, 2011	P-2011.0139 project 60963, Update the Responsible Official and Facility Contact (S)
July 30, 2014	P-2011.0139 project 61381, A revision for a name change from Northwest Pipeline GP to Northwest Pipeline LLC. (A) upon issuance.

### ***Application Scope***

This PTC is a revision of an existing PTC for a name change.

### ***Application Chronology***

May 22, 2014	DEQ received an application.
July 24, 2014	DEQ issued the final permit and statement of basis.

## **TECHNICAL ANALYSIS**

No changes are made. Refer to the statement of basis for PTC No. P-2011.0139 project 60963.

## **REGULATORY ANALYSIS**

No changes are made. Refer to statement of basis for PTC No. P-2011.0139 project 60963.

## **PUBLIC REVIEW**

Because this permitting action does not authorize an increase in emissions, an opportunity for public comment period was not required or provided in accordance with IDAPA 58.01.01.209.04.