

**Northwest Pipeline GP**  
**Washougal Compressor Station**  
**Title V Basis Statement**  
**Draft Issued: October 14, 2009**

Southwest Clean Air Agency  
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PERMIT #: SW98-7-R1-A

ISSUED TO:

Northwest Pipeline GP  
295 Chipeta Way  
P. O. Box 58900  
Salt Lake City, UT 84158-0900

PLANT SITE:

Northwest Pipeline GP  
Washougal Compressor Station  
1309 NE Brown Road  
Washougal, WA 98671

PERMIT ENGINEER: Natalia Kreitzer, Air Quality Engineer

REVIEWED BY: Paul T. Mairose, Chief Engineer

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**I. GENERAL INFORMATION AND CERTIFICATION**

1. Company Name: Northwest Pipeline GP
2. Facility Name: Washougal Compressor Station
3. Parent Company: The Williams Companies
4. Responsible Official: Barry Orgill, Director of Operations
5. Facility Contact Person: Scott Peters, Environmental Engineer
6. Unified Business Identification Number: 600121240
7. Standard Industrial Classification Code: 4922 [NAICS - 486210]
8. Basis for Title V Applicability:

The Washougal Compressor Station has the potential to emit more than 100 tpy of nitrogen oxides (NO<sub>x</sub>), more than 100 tpy of carbon monoxide (CO) and greater than 10 tpy of formaldehyde.
9. Current Permitting Action:

This is a Title V Permit Amendment to incorporate the requirements of Air Discharge Permit (ADP) 05-2596. ADP 05-2596 approved an upgrade of the turbine.
10. Attainment Area:

Northwest Pipeline GP Washougal Compressor Station is located in an area which is in attainment for all pollutants but is within one mile of the Portland-Vancouver maintenance area for ozone and CO.
11. Facility Description:

Northwest Pipeline GP operates a natural gas pipeline system that spans from the Canadian border near Sumas, Washington to the San Juan Gas Fields in New Mexico. Natural gas compressor stations are located about every 50 miles along the pipeline. Each station is designed for remote, unattended operation from Salt Lake City, Utah.

The Washougal Compressor Station is located north of Washougal in Clark County, Washington. The facility consists of one reciprocating engine in the compressor building, one turbine in plant B building, an auxiliary building, and the piping associated with the station. Northwest Pipeline GP Washougal Compressor Station has four emission units designated as EU1 through EU4, for the reciprocating engine, turbine, boiler and generator, respectively.
12. Facility History:

The Washougal Compressor Station was constructed in December 1971. The reciprocating engine, boiler and emergency generator were installed at this time. In 1993, Northwest Pipeline GP performed a system wide upgrade. As part of the upgrades a new Centaur 50-T5700S turbine was installed and CleanBurn™ low-NO<sub>x</sub> technology was installed on the existing engine. In addition, the boiler and generator were replaced. Northwest Pipeline GP

installed an electric starter on the turbine in 1997 to reduce noise and odor. The electric starter reduces releases of natural gas from the turbine during startups. Northwest Pipeline GP increased the stack heights by 31.6 feet and 24 feet for the engine and turbine, respectively in 1999. In 2006 the Centaur 50-T5700S was uprated and rewheeled to a Taurus 60-T7800S. The power turbine section of the turbine were replaced with a larger 7,800 horsepower (hp) Taurus turbine. The compressor section was not replaced.

## II. EMISSION UNIT DESCRIPTIONS

### EU1 Engine

Emission Unit #1 is a Cooper-Bessemer model 12/14V250C2 turbocharged 12 cylinder, two cycle reciprocating engine-driven compressor rated at 4,000 horsepower, equipped with clean burn technology. The engine burns natural gas and has been permitted to operate 8,760 hours per year. Criteria pollutants emitted from the operation of the engine include nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), particulate matter (PM), and volatile organic compounds (VOCs). Hazardous air pollutants (HAPs) emitted from the operation of the engine include benzene and formaldehyde.

### EU2 Turbine

Emission Unit #2 is a Solar Turbines, Inc. Taurus 60-T7800S (SOLONOX), gas turbine rated at 7800 horsepower output. The turbine burns natural gas fuel and is permitted to operate 8,760 hours per year. Criteria pollutants emitted from the operation of the turbine include NO<sub>x</sub>, CO, SO<sub>2</sub>, PM, and VOCs. HAPs emitted from the operation of the turbine include benzene and formaldehyde. 40 CFR 60.4300 et seq. (Subpart KKKK) "Standards of Performance for Stationary Combustion Turbines for Which Construction is Commenced After February 18, 2005" applies to the turbine. Pursuant to 40 CFR 60.8, an initial source test was conducted on December 14, 2006 at four loads ranging from 90% to 100% of maximum load.

### EU3 Boiler

Emission Unit #3 is a Sellers model C60W natural gas fired process heater (boiler) with a heat input rate of 2.5 MMBtu per hour. The boiler provides hot water for process heating. Criteria pollutants emitted from the operation of the boiler include NO<sub>x</sub>, CO, SO<sub>2</sub>, PM, and VOCs.

### EU4 Generator

Emission Unit #4 is a Caterpillar 452 KW, 606 hp, model SR4 emergency electrical generator which is natural gas fired. Criteria pollutants emitted from the operation of the generator include NO<sub>x</sub>, CO, SO<sub>2</sub>, PM, and VOCs.

## III. EXPLANATION OF INSIGNIFICANT EMISSION UNIT DETERMINATIONS

Each emission unit listed as insignificant in the permit has been reviewed by SWCAA to confirm its status. Emission units were determined to be insignificant as follows:

**IEU1 Glycol Storage and Handling**

Glycol storage and handling is categorically insignificant in accordance with WAC 173-401-532(4).

**IEU2 Emissions from Natural Gas Pipeline and Fuel System**

Fugitive emissions from the natural gas pipeline and fuel system are insignificant in accordance with WAC 173-401-530(1)(d).

**IEU3 Utility Building Heater**

The utility building heater is rated at 145,000 Btu/hour. This unit is not regulated under any specific SWCAA Permit and is insignificant based on size per WAC 173-401-533(2)(r).

**IEU4 Fire Pump**

The diesel fired fire pump is rated at 80 hp. This unit is not regulated under any specific SWCAA Permit and is categorically exempt per WAC 173-401-532(52).

**IEU5 Water Heater**

The water heater is National model N20S natural gas fired and is rated at 2,000 Btu/hr. This unit provides hot water to the onsite bathroom sink. This unit is not regulated under any specific SWCAA Permit and is insignificant based on size per WAC 173-401-533(2)(r).

**IV. EXPLANATION OF SELECTED PERMIT PROVISIONS AND GENERAL TERMS AND CONDITIONS****P10. Excess Emissions**

[SWCAA 400-107, WAC 173-400-107]

WAC 173-400-107 and SWCAA 400-107 establish criteria and procedures for determining when excess emissions are considered unavoidable. Such emissions that meet the requirements to be classified as unavoidable are considered excess and reportable but are excused and not subject to penalty. Notification of excess emissions is required as soon as possible and shall occur no later than 48 hours following the excess emissions event. Excess emissions due to startup or shutdown conditions are considered unavoidable if the permittee adequately demonstrates the excess emissions could not have been prevented through careful planning and design. Upset excess emissions are considered unavoidable if the permittee adequately demonstrates the upset event was not caused by poor or inadequate design, operation, maintenance, or other reasonably preventable condition, and the permittee takes appropriate corrective action that minimizes emissions during the event, taking into account the total emissions impact of that corrective action.

**G10. Portable Sources**

[SWCAA 400-110(6), WAC 173-400-110(9)]

WAC 173-400-110(5) in the SIP (replaced in the State only rules by WAC 173-400-035) and SWCAA 400-110(6) establish procedures for approving the operation of portable sources of air emissions that locate temporarily at project sites. These requirements are general statewide standards, and apply to all portable sources of air contaminants. Common equipment subject to these conditions include emergency generators, engine-powered pumps, rock crushers, concrete batch plants, and hot mix asphalt plants that operate for a short time period at a site to fulfill the needs of a specific contract. Portable sources exempt from registration under SWCAA 400-101 are exempt from SWCAA 400-110 and not subject to the portable sources requirements. Among those categories listed in SWCAA 400-101 that are exempt, are operations with potential to emit less than 1 ton/yr of all criteria pollutants plus volatile organic compounds, combined.

**V. EXPLANATION OF OPERATING TERMS AND CONDITIONS****Req. 1-3 New Source Performance Standards for Stationary Turbines Constructed After February 18, 2005, Subpart KKKK**

[40 CFR 60.4300, SWCAA 400-115]

40 CFR 60.4300 (Subpart KKKK) established NO<sub>x</sub> emission standards and sulfur fuel content limits for affected facilities. This is an affected facility because the turbine (EU2) has a heat input at peak load greater than 10.7 gigajoules per hour and was modified after February 18, 2005. In 2006 the power turbine section of the turbine was with a larger 7800 horsepower (hp) Taurus turbine. The compressor section was not replaced making this a modified/reconstructed unit.

**Req. 4-11 General Standards for Maximum Emissions**

[SWCAA 400-040]

SWCAA 400-040 establishes maximum emission standards for various air contaminants. These requirements are general statewide standards and apply to all emission units at the source, both EU and IEU. Pursuant to WAC 173-401-530(2)(c), the permit does not contain any testing, monitoring, recordkeeping, or reporting requirements for IEUs except those specifically identified by the underlying requirements.

Req. 10 prohibits any concealment or masking. At present, the permittee does not operate any equipment capable of masking emissions, therefore monitoring is limited to the semi-annual compliance certification.

**Req. 12 Emission Standards for Combustion and Incineration Units**

[SWCAA 400-050]

SWCAA 400-050 establishes maximum emission standards for selected emissions from combustion and incineration units. These requirements apply to all combustion and incineration units at the source, both EUs and IEUs. Pursuant to WAC 173-401-530(2)(c), the permit does not contain any testing, monitoring, recordkeeping, or reporting requirements for IEUs except those specifically identified by the underlying requirements.

**Req. 13 Emission Standards for General Process Units**

[SWCAA 400-060]

SWCAA 400-060 establishes maximum particulate matter emission standards for general process units. These requirements apply to all general process units at the source, both EUs and IEUs. Pursuant to WAC 173-401-530(2)(c), the permit does not contain any testing, monitoring, recordkeeping, or reporting requirements for IEUs except those specifically identified by the underlying requirements.

**Req. 14-23 SWCAA Air Discharge Permits**

[ADP 05-2596]

There is currently one active Air Discharge Permit (ADP), 05-2596, which applies to operations at this source. ADP 05-2596 approved replacement of the turbine with a larger turbine and superseded the previously active permit. The emission limits contained in ADP 05-2596 are as follows:

Pollutant	ADP 05-2596 Emission Limits (ton/yr)				
	Turbine (EU2)	Engine (EU1)	Boiler (EU3)	Generator (EU4)	Facilitywide
CO	34.54	77.2	0.90	1.72	114.4
NO <sub>x</sub>	28.37	115.8	1.07	1.02	143.3
SO <sub>2</sub>	0.98	0.44	0.04	0.002	1.5
VOC	9.89	19.3	0.06	0.01	29.3
PM	1.87	13.2	0.08	0.01	15.2
Benzene	0.002	0.25	---	---	0.25
Formaldehyde	1.08	15.3	---	---	16.4

These limits along with monitoring and operating limits were included in the Title V Permit.

**VI. EXPLANATION OF OBSOLETE AND FUTURE REQUIREMENTS****1. 40 CFR 60.7 "Notification and Record Keeping" and ADP 05-2596 Conditions 29 and 30**

Construction of the turbine commenced on September 14, 2006 and SWCAA received documentation of this action on September 29, 2006. Initial firing of the turbine occurred on October 21, 2006 and SWCAA received documentation of initial firing on October 30, 2006. Actual start-up with a load for working purposes occurred on November 9, 2006 and documentation was received by SWCAA on November 15, 2006.

**2. Obsolete Air Discharge Permits**

ADP 94-1716 approved installation of a low-NO<sub>x</sub> turbine, clean burn retrofit of the existing reciprocating engine and replacement of the existing boiler and emergency generator with new models. This ADP was superseded by ADP 97-2063.

ADP 97-2063 approved an increase in particulate matter, formaldehyde and benzene emission limits. This ADP was superseded by ADP 97-2063R1.

ADP 97-2063R1 modified the date which the turbine and reciprocating engine stack heights must be increased to 84 feet from December 31, 1998 to March 31, 1999. This ADP was superseded by ADP 05-2596.

ADP 96-1956 established emission reduction credits for NO<sub>x</sub> in the amount of 40.0 tons, deposited into the SWCAA emission reduction credit bank. This ADP expired 10 years after issuance.

### **3. New Source Review and PSD Applicability to Replacement of Turbine Engines**

Washington Department of Ecology (WDOE) has written a letter dated September 9, 1999 to EPA requesting assistance in consistently applying the federal rules for planned maintenance of existing gas turbine engines. Once EPA guidance is received, the Basis Statement may be modified to incorporate this guidance.

### **4. Boiler MACT**

40 CFR 63.7480 Subpart DDDDD: National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters. This rule was vacated by EPA. Sources that were subject to the rule will need to file applications for permits containing MACT (Maximum Achievable Control Technology) limits derived on a case-by-case basis within a time specified by EPA or state permitting authorities. The boiler subject to this regulation is a natural gas fired boiler rated at 2.5 MMBtu/hr heat input. It is unlikely that control equipment or other requirements will be required on a small natural gas fired boiler.

## **VII. EXPLANATION OF MONITORING TERMS AND CONDITIONS**

### **M1. NO<sub>x</sub> Standard**

The requirement cited in this monitoring section is taken from Subpart KKKK, 40 CFR 60.4320(a).

### **M2. Compliance Certification**

The requirements cited in this monitoring section are taken from Subpart KKKK, 40 CFR 60.4365(a), SWCAA 400-040(6), and SWCAA 400-040(7), and from ADP 05-2596. These requirements do not directly establish any specific regime of monitoring or recordkeeping. Consequently, SWCAA has implemented monitoring and recordkeeping requirements under the "gap filling" provisions of WAC 173-401-615.

40 CFR 60.4365(a) requires that the turbine not burn any fuel which contains total potential sulfur emissions in excess of 26 nanograms (ng) SO<sub>2</sub>/J (0.06 lb SO<sub>2</sub>/MMBtu) heat input. This turbine burns natural gas with a valid tariff sheet specifying that the total sulfur content is 20 grains of sulfur or less per 100 standard cubic feet. As shown in the following equation, a sulfur content of 20 grains per 100 standard cubic feet is equivalent to 0.057 lb SO<sub>2</sub>/MMBtu based on an average heat content of 1000 Btu/scf. Therefore the sulfur content of the natural

gas will remain below the required limit and semi-annual certification is deemed sufficient to assure compliance.

$$20 \frac{\text{gr S}}{100\text{scf}} \times \frac{\text{lb}}{7000 \text{ gr}} \times \frac{\text{scf}}{1000 \text{ Btu}} \times \frac{1,000,000 \text{ Btu}}{\text{MMBtu}} \times \frac{64 \text{ lb/lbmol SO}_2}{32 \text{ lb/lbmol S}} = 0.057 \frac{\text{lb SO}_2}{\text{MMBtu}}$$

SWCAA 400-040(6) limits the emission of gaseous SO<sub>2</sub> from any emission unit to a maximum concentration of 1,000 ppmv corrected to 7% oxygen. The combustion sources at this source combust only natural gas which has an extremely low sulfur content. Based on the composition of natural gas, it is not possible for the combustion sources in question to exceed the limit of 1000 ppmv SO<sub>2</sub> while firing on natural gas. Monitoring has therefore been limited to certification of fuel type. The following equation estimates sulfur dioxide concentrations in exhaust gas from natural gas combustion based on EPA's Method 19 fuel factor of 8710 dscf/MMBtu for natural gas and a sulfur grain loading of 1.2 per 100 cubic feet which results in a value of 0.00345 pounds of SO<sub>2</sub> per MMBtu:

$$(0.00345 \text{ lbs/MMBtu}) * (385 \text{ cf/mole}) * (\text{mole}/64.1 \text{ lbs SO}_2) * (\text{MMBtu}/8710 \text{ dscf}) * (20.9 - 15.0)/(20.9) = 0.7 \text{ ppm at 15 percent oxygen}$$

Based on the inherently low concentration of sulfur in pipeline quality natural gas, fuel certification is adequate to demonstrate compliance.

WAC 173-400-040(7) and SWCAA 400-040(7) prohibit the concealment or masking of emissions which would otherwise violate a general standard. The permittee does not operate any equipment capable of masking emissions so semi-annual certification is deemed sufficient to assure compliance.

ADP 05-2596 Condition 10 requires that all equipment shall be fired on natural gas only with a total sulfur content of 20.0 grains per 100 standard cubic feet or less. This facility is a natural gas compressor station with no access to fuels other than pipeline quality natural gas. Therefore semi-annual certification is deemed sufficient to assure compliance.

ADP 05-2596 Condition 12 requires that the stack height of the reciprocating engine and turbine shall not be less than 84 feet above ground level unless modeling is performed and approved by SWCAA that demonstrates compliance with all applicable regulations and standards at a lower stack height. NW Pipeline has submitted documentation verifying that the stack height is at 84 feet. It is unlikely that the stack height will be modified. Therefore semi-annual certification is deemed sufficient to assure compliance.

### **M3. Turbine Monitoring**

The requirement cited in this monitoring section is taken from Subpart KKKK, 40 CFR 60.4355.

**M4. Opacity Monitoring**

The applicable requirements cited in this monitoring section are general requirements drawn from WAC 173-400, SWCAA 400 and ADP 05-2596. These requirements do not directly establish any specific regime of monitoring or recordkeeping. Consequently, SWCAA has implemented monitoring and recordkeeping requirements under the "gap filling" provisions of WAC 173-401-615(1). These requirements are designed to assure compliance through periodic facility inspections and prompt corrective action. Demonstration of compliance is required in some cases via visible emissions evaluation. The emission units at this facility combust only natural gas. Visible emissions, other than heat waves, from natural gas combustion are virtually non-detectable to the human eye. The following equation shows an example calculation of particulate matter concentrations in exhaust gas from natural gas combustion based on an EPA AP-42 emission factor and EPA's Method 19 fuel factor of 8710 dscf/MMBtu corrected to 15% oxygen:

$$(0.005 \text{ lbs PM/MMBtu}) * (7000 \text{ gr/lb}) * (\text{MMBtu}/8710 \text{ dscf}) * (20.9-15.0)/(20.9) = 0.001 \text{ gr/dscf at 15\% oxygen.}$$

Emissions are generally not visible until the concentration approaches 0.01 gr/dscf. In addition, this source has a history of opacity compliance. Therefore, monthly opacity monitoring is considered adequate for demonstrating compliance with WAC 173-460 and SWCAA 400 requirements as well as ADP 05-2596 opacity requirements.

**M5. Fugitive Emissions Monitoring**

The applicable requirements cited in this monitoring section are all general requirements drawn from SWCAA 400. These requirements do not directly establish any specific regime of monitoring or recordkeeping. Consequently, SWCAA has implemented monitoring and recordkeeping requirements under the "gap filling" provisions of WAC 173-401-615(1). These requirements are designed to assure compliance through a combination of prompt complaint response and monthly facility inspections.

Potential fugitive emissions from this facility include road dust and odors from fugitive natural gas. Since the facility surface consists of gravel and vehicular traffic is limited to maintenance personnel, road dust is expected to be minimal. Natural gas in the pipeline has not been odorized but does contain small quantities of naturally occurring mercaptans. During normal operation odors are not detectable off site. Monthly facility inspections are adequate to demonstrate compliance with fugitive emissions because odors are not generated as part of routine maintenance but may be generated by upset conditions which will be reduced by preventative maintenance.

**M6. Complaint Monitoring**

The applicable requirements cited in this monitoring section are general requirements drawn from WAC 173-400 and SWCAA 400. These requirements do not directly establish any specific regime of monitoring or recordkeeping. Consequently, SWCAA has implemented monitoring and recordkeeping requirements under the "gap filling" provisions of WAC 173-

401-615. These requirements are designed to ensure compliance through prompt complaint response and corrective action.

### **M7. Reciprocating Engine Testing and Recording Requirements**

The applicable requirements cited in this monitoring section are taken from ADP 05-2596. The engine is also subject to SWCAA 400-052 which requires emission testing of sources which emit 100 tpy or more of a pollutant. SWCAA 400-052 requires testing of combustion units once every two years unless an alternative sampling schedule has been approved by SWCAA. This alternative sampling schedule is contained in ADP 05-2596.

The purpose of testing is to generate emission factors with which to demonstrate compliance. ADP 05-2596 requires that the reciprocating engine be emission tested at least once every five years. If the engine has operated more than 5,000 hours since the last emission test, testing shall be performed during the next calendar year. Source testing shall be performed at two operating conditions, one of which must be representative of maximum intended operating conditions. The second load condition shall consist a load (<85% torque and <218 rpm, <85% torque and  $\geq$ 218 rpm, or  $\geq$ 85% torque and <218 rpm) that the engine has most frequently operated at since the last source test or another load condition agreed upon by SWCAA. In addition, M7 requires that the source record monthly hours of operation of the engine at each of the four load conditions. This information is necessary to determine emissions.

SWCAA does not believe that the performance from this unit will significantly degrade with time based on emission source tests from similar type units as well as a long history of emission testing performed on this unit. The testing frequency requires that the engine be tested once every five years if operated infrequently and every two years if the engine operates significantly. Emissions of SO<sub>2</sub> and mercury are a function of the fuel composition and are not generated as the result of incomplete combustion.

The method of calculating emissions is taken from the Technical Support Document to ADP 05-2596 with the exception of SO<sub>2</sub> calculation. The Technical Support Document to ADP 05-2596 states that SO<sub>2</sub> emissions shall be calculated based on the annual average sulfur content and the quantity of natural gas combusted. However all other emissions are calculated based on hours of operation, not amount of fuel consumed. Therefore the AOP Permit will specify that SO<sub>2</sub> emissions be calculated based on the annual average sulfur content of the fuel, hours of operation of the unit and the maximum heat input of the unit. This will result in a conservative emission estimate that will require the same calculation method as the other pollutants. Benzene and mercury compliance is to be determined by hours of operation and the emission factors contained in the TSD for ADP 05-2596.

### **M8. Turbine Testing and Recording Requirements**

The applicable requirements cited in this monitoring section are taken from ADP 05-2596 with the exception of the method of calculating SO<sub>2</sub> emissions. The purpose of testing is to generate emission factors with which to demonstrate compliance. SWCAA does not believe that the performance from these units will significantly degrade with time based on emission source tests from similar type units. Therefore, SWCAA believes testing every five years is adequate. In addition, natural gas turbines do not emit significant quantities of PM, SO<sub>2</sub>, formaldehyde, or

benzene. Also, emissions of SO<sub>2</sub>, and benzene are a function of the fuel content and are not generated as the result of incomplete combustion.

The method of calculating emissions is taken from the Technical Support Document to ADP 05-2596 with the exception of SO<sub>2</sub> calculation. The Technical Support Document to ADP 05-2596 states that SO<sub>2</sub> emissions shall be calculated based on the annual average sulfur content and the quantity of natural gas combusted. However all other emissions are calculated based on hours of operation, not amount of fuel consumed. Therefore the AOP Permit will specify that SO<sub>2</sub> emissions be calculated based on the annual average sulfur content of the fuel, hours of operation of the unit and the maximum heat input of the unit. This will result in a conservative emission estimate that will require the same calculation method as the other pollutants. Compliance with the emission limits for PM, formaldehyde and benzene is to be determined by hours of operation of each unit and the emission factors contained in the permit. In addition, M8 requires that the source record monthly hours of operation of the turbine. This information is necessary to determine emissions.

#### **M9. Boiler and Generator Recording Requirements**

The boiler and emergency generator are not required to be tested. Emissions from these units are minimal therefore compliance with the emission limits is to be determined by hours of operation and the emission factors contained in the TSD for ADP 05-2596. In addition, M9 requires that the source record monthly hours of operation of the boiler and generator. This information is necessary to determine emissions.

#### **M10. RPM and Torque for Reciprocating Engine**

The requirement cited in this monitoring section is taken from ADP 05-2596. Compliance is to be demonstrated by a continuous monitor for the rpm and torque. The data is to be reported based on hourly averages.

### **VIII. EXPLANATION OF RECORDKEEPING TERMS AND CONDITIONS**

This reporting section is taken directly from WAC 173-401-615(2). Recordkeeping requirements were separated into Sections (a) through (f) to organize the requirements. Sections (a) and (b) were added to clarify routine inspections and complaints.

### **IX. EXPLANATION OF REPORTING TERMS AND CONDITIONS**

#### **R1. Deviations from Permit Conditions**

The permittee is required to report all permit deviations. This reporting section is taken directly from SWCAA 400-107. The permittee is required to report all permit deviations no later than 30 days following the end of the month during which the deviation is discovered. Permit deviations due to excess emissions shall be reported to SWCAA as soon as possible. SWCAA may request a full report of any deviation if determined necessary. These deviations are also reported in each semi-annual report.

**R2. Complaint Reports**

The permittee is required to report all complaints received by the permittee or forwarded to the permittee by SWCAA regarding the compressor station but excluding noise or right-of-way issues to SWCAA within three business days of receipt to ensure prompt complaint response. This reporting section is based on WAC 173-401-615(3), and SWCAA's definition of "prompt" for reporting of complaints.

**R3. Semi-annual Reports**

The permittee is required to report monitoring records and certification of monitoring records on a semi-annual basis. Semi-annual reporting of monitoring records and certification of monitoring records is required by WAC 173-401-615(3). Sections (e) and (f) are taken directly from Subpart KKKK, 40 CFR 60.4300. Sections (g) through (k) of the semi-annual reports was taken from ADP 05-2596.

**R4. Annual Reports**

The permittee is required to report and certify compliance with all permit terms and conditions on an annual basis. Annual compliance certification is required by WAC 173-401-630(5). 40 CFR 60.11(g) requires the permittee to consider credible evidence when submitting compliance certifications for NSPS affected unit EU2.

**R5. Emission Inventory Reports**

The permittee is required to report an inventory of annual emissions as provided in SWCAA 400-105. The annual emissions inventory must be submitted to SWCAA by March 15<sup>th</sup> for the previous calendar year as provided in SWCAA 400-105. This complete emission inventory includes emissions from all EUs.

**R6. Source Test Reports**

This reporting requirement is taken from ADP 05-2650 Section 29. The permittee is required to submit test results to SWCAA within 45 days of test completion to allow timely review by SWCAA.

**X. APPENDICES**

Appendix A contains the method by which visible emissions from the permittee's operations are to be evaluated when demonstrating compliance if any visible emissions are observed. SWCAA has traditionally determined compliance with local visible emissions standards using EPA Method 9 with modified data reduction. SWCAA has exercised its latitude under SWCAA 400-105(4) "Source Testing" to approve this alternative test method in advance for visible emission evaluation. Approval has been granted via signature of this permit by SWCAA's Executive Director. The alternative method shall be used to determine compliance only with state and local opacity standards. Determination of compliance with any federally established opacity standard requires that EPA Method 9 be performed. This Appendix is included to define the visible emission standard. It does not necessarily require that Northwest Pipeline GP personnel be certified in its use.

Appendix B contains the criteria which must be met in order to use an alternate test method for formaldehyde.

**XI. PERMIT ACTIONS**

- |   |                   |
|---|-------------------|
| 1. Permit Renewal Application Submitted:          | February 27, 2004 |
| 2. Permit Application deemed complete:            | April 14, 2004    |
| 3. Permit Application sent to EPA:                | November 17, 2005 |
| 4. Draft administrative revised permit issued:    | October 14, 2009  |
| 5. Proposed administrative revised permit issued: | To be determined  |
| 6. Final administrative revised permit issued:    | To be determined  |