

**Northwest Pipeline GP**  
**Chehalis Compressor Station**  
**Air Operating Permit**

**SW98-6-R1-A**

**Final Issued: December 16, 2009**

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Southwest Clean Air Agency  
11815 NE 99<sup>th</sup> Street, Suite 1294  
Vancouver, WA 98682  
Telephone: (360) 574-3058

AIR OPERATING 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  
Chehalis Compressor Station  
156 Meier Road West  
Winlock, WA 98596

NATURE OF BUSINESS:

Natural Gas Compressor Station

SIC/NAICS:

4922/486210

AIRS NUMBER:

53-011-00144

EFFECTIVE DATE:

December 16, 2009

EXPIRATION DATE:

March 31, 2011

RENEWAL APPLICATION DUE:

September 30, 2010

PERMIT ENGINEER:

\_\_\_\_\_  
Natalia Kreitzer, Air Quality Engineer

\_\_\_\_\_  
Date

REVIEWED BY:

\_\_\_\_\_  
Paul T. Mairose, Chief Engineer

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Date

APPROVED BY:

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Robert D. Elliott, Executive Director

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Date

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**I. ABBREVIATIONS**List of Common Abbreviations

Administrator	EPA Region X Administrator
ADP	Air Discharge Permit (aka Order of Approval)
AOP	Air Operating Permit
BACT	Best Available Control Technology
CFR	Code of Federal Regulations
CO	Carbon monoxide
EPA	U.S. Environmental Protection Agency
EU	Emission unit
EU#	Refers to a specific emission unit numbered "#"
FCAA	Federal Clean Air Act
G#	Refers to a specific general term and condition numbered "#"
g/hp-hr	Grams per horsepower-hour
gr/dscf	Grains per dry standard cubic foot
HAP	Hazardous air pollutant
hp	Horsepower
IEU	Insignificant emission unit
IEU#	Refers to an insignificant emission unit numbered "#"
K#	Refers to a specific recordkeeping requirement numbered "#"
lb/hr	Pounds per hour
lb/MMBtu	Pounds per million British thermal units
M#	Refers to a specific monitoring requirement numbered "#"
MMBtu	Million British Thermal Units
NSPS	New Source Performance Standards (40 CFR 60)
NSR	New source review
NO <sub>x</sub>	Oxides of nitrogen
O <sub>2</sub>	Oxygen
@ X% O <sub>2</sub>	Corrected to X% oxygen content
P#	Refers to a specific standard provision numbered "#"
PM	Particulate matter
PM <sub>10</sub>	Particulate matter less than 10 microns (µm) in diameter
PM <sub>2.5</sub>	Particulate matter less than 2.5 microns (µm) in diameter
ppm	Parts per million
ppmv	Parts per million by volume
PTE	Potential to emit
R#	Refers to a specific reporting requirement numbered "#"
RACT	Reasonably Available Control Technology
RCW	Revised Code of Washington
Region 10	Region 10 of the U.S. Environmental Protection Agency
Req #	Requirement number "#"
RMP	Risk Management Plan under 40CFR Part 68
RPM	Revolutions per minute
SIP	State Implementation Plan
SO <sub>2</sub>	Sulfur dioxide
SWCAA	Southwest Clean Air Agency
TAP	Toxic air pollutants per WAC 173-460
tpy	Tons per year
VOC	Volatile organic compound
WAC	Washington Administrative Code
WDOE	Washington Department of Ecology

Terms not otherwise defined in this permit have the meaning assigned to them in the referenced regulations.

**II. REGULATORY BASIS**

This Air Operating Permit (AOP) is authorized under the procedures established in Washington Administrative Code (WAC) 173-401 and Title V of the 1990 Federal Clean Air Act (FCAA) Amendments. The terms and conditions of this permit describe the emissions limitations, operating requirements, ambient monitoring, recordkeeping requirements, and reporting frequencies for the permitted source.

Permit terms and conditions are divided into the following categories: Permit Provisions, General Terms and Conditions, Applicable Requirements, Monitoring Requirements, Recordkeeping Terms and Conditions, and Reporting Terms and Conditions. As used in this permit, there is no distinction between "terms" and "conditions." As such, "condition" shall mean the same as "terms and conditions" as referred to in Title V of the 1990 FCAA Amendments.

The conditions required under this permit are determined necessary to assure and provide for certification of compliance with applicable local, state, and federal air pollution regulations and standards. A comprehensive list of local, state, and federal air pollution requirements and standards that currently apply to emissions units and other air pollution sources located at the permittee's facility is provided in Sections V through IX. These regulations and standards were determined applicable based on the equipment specifications and regulatory history of each emissions unit as described in the Title V Basis Statement for this permit.

**III. EMISSION UNIT IDENTIFICATION**

<u>Emission Unit</u>	<u>Unit Name</u>	<u>Unit Description</u>
EU-1	Engine	This unit is a natural gas fired Cooper-Bessemer model 14V-250C2, engine number 47707, turbocharged 14 cylinder, two cycle reciprocating engine-driven compressor rated at 4,800 horsepower (hp), equipped with CleanBurn™ technology. It is used to drive a compressor which provides pressure in natural gas transmission lines. RPM and torque can be varied based on demand with emissions varying accordingly.
EU-2	Taurus Turbine	This unit is a Solar Turbines, Inc. Taurus 70-T10302S (SOLONOX), serial number TC06306, gas turbine rated at 11,907 hp output. Natural gas from the pipeline is run through the turbine compressor which provides pressure in natural gas transmission lines.
EU-3	Centaur Turbine	This unit is a Solar Turbines, Inc. Centaur 40-T4700S (SOLONOX), serial number 4918C, gas turbine rated at 4,846 hp output. Natural gas from the pipeline is run through the turbine compressor which provides pressure in natural gas transmission lines.
EU-4	Centaur Turbine	This unit is a Solar Turbines, Inc. Centaur 40-T4700S (SOLONOX), serial number 3000153, gas turbine rated at 4,846 hp output. Natural gas from the pipeline is run through the turbine compressor which provides pressure in natural gas transmission lines.
EU-5	Boiler	This unit is a Sellers model C40W, serial no. 4780, gas fired process heater (boiler) with a heat input rate of 1.7 MMBtu per hour. It is used to produce hot water for process heating.
EU-6	Generator	This unit is a Caterpillar 422 kw, 566 hp, engine model 3412STD, serial number 7DB01021, emergency electrical generator which is natural gas fired. It is used to provide emergency electrical power during power outages.
EU-7	Line Heater	This unit is a Sivalls natural gas fired line heater rated at 0.5 MMBtu/hr.

**IV. PERMIT PROVISIONS****P1. Credible Evidence**

40 CFR 51.12 - [7/1/08]  
 40 CFR 51.212 - [7/1/08]  
 40 CFR 52.33 - [7/1/08]  
 40 CFR 60.11 - [7/1/08]  
 40 CFR 61.12 - [7/1/08]

For the purposes of submitting compliance certifications or establishing whether a violation of any term or condition of this permit has occurred or is occurring, nothing shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether the Permittee would have been in compliance with a specific term or condition if the appropriate performance or compliance test or procedure would have been performed.

**P2. Confidentiality of Records and Information**

WAC 173-401-500(5) - [10/17/02]  
 WAC 173-401-620(2)(e) - [11/4/93]  
 SWCAA 400-270 - [9/12/96 SIP, 12/14/06 Local Only]

The permittee is responsible for clearly identifying information that is considered proprietary and confidential prior to submittal to SWCAA. Requests for proprietary and confidential information shall be released only after legal opinion by SWCAA's legal counsel, and notice to the permittee of the intent to release or deny the release of information. [SWCAA 400-270]

In the case where the permittee has submitted information to SWCAA under a claim of confidentiality, SWCAA may also require the source to submit a copy of such information directly to the Administrator. [WAC 173-401-500(5)]

Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permittee or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. Permitting authorities shall maintain confidentiality of such information in accordance with RCW 70.94.205. [WAC 173-620(2)(e)]

**P3. Permit Duration**

WAC 173-401-610 - [10/17/02]

This permit shall be valid for a fixed term of 5 years.

**P4. Standard Provisions**

WAC 173-401-620(2) - [10/17/02]

- (a) *Duty to comply.* The permittee must comply with all conditions of this AOP. Any permit noncompliance constitutes a violation of Revised Code of Washington (RCW) 70.94 and, for federally enforceable provisions, a violation of the FCAA. Such violations are grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- (b) *Need to halt or reduce activity not a defense.* It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

- (c) *Permit actions.* This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- (d) *Property rights.* This permit does not convey any property rights of any sort, or any exclusive privilege.
- (e) *Duty to provide information.* The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permittee or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. Permitting authorities shall maintain confidentiality of such information in accordance with RCW 70.94.205.
- (f) *Permit fees.* The permittee shall pay fees in accordance with RCW 70.94.162 as a condition of this permit in accordance with the permitting authority's fee schedule. Failure to pay fees in a timely fashion shall subject the permittee to civil and criminal penalties as prescribed in RCW 70.94.430 and 70.94.431.
- (g) *Emissions trading.* 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 this permit.
- (h) *Severability.* If any provision of this permit is held to be invalid, all unaffected provisions of the permit shall remain in effect and be enforceable.
- (i) *Permit appeals.* This permit or any conditions in it may be appealed only by filing an appeal with the Pollution Control Hearings Board and serving it on the permitting authority within thirty days of receipt of the permit pursuant to RCW 43.21B.310. This provision for appeal in this section is separate from and additional to any federal rights to petition and review under § 505(b) of the FCAA.
- (j) *Permit continuation.* This permit and all terms and conditions contained herein shall not expire until the renewal permit has been issued or denied if a timely and complete application has been submitted. An application shield granted pursuant to WAC 173-401-705(2) shall remain in effect until the renewal permit has been issued or denied if a timely and complete application has been submitted.

**P5. Insignificant Emission Unit - Permit Revision**

WAC 173-401-530(6) - [10/17/02]

Any emission unit or activity that qualifies as insignificant solely on the basis of provisions in WAC 173-401-530(1)(a) shall not exceed the emissions thresholds specified in WAC 173-401-530(4) until this permit is modified pursuant to WAC 173-401-725.

**P6. Federally Enforceable Requirements**

WAC 173-401-625 - [10/17/02]

- (a) All terms and conditions in an air operating permit, including any provisions designed to limit a source's potential to emit, are enforceable by the Administrator and citizens under the FCAA, except as indicated in paragraph (b) below.
- (b) Notwithstanding subsection (a), any terms and conditions included in this permit that are not required under the FCAA or under any of its applicable requirements are specifically designated as "state" or "local" only, and are not federally enforceable under the FCAA. Terms and conditions so designated are not subject to the requirements of WAC 173-401-810.

**P7. Permit Shield**

WAC 173-401-640 - [10/17/02]

Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements that are specifically identified in this permit as of the date of permit issuance. Nothing in this permit shall alter or affect the following:

- (a) The provisions of section 303 of the FCAA (emergency orders), including the authority of the Administrator under that section;
- (b) 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;
- (c) The applicable requirements of the acid rain program, consistent with section 408(a) of the FCAA;
- (d) The ability of EPA to obtain information from a source pursuant to section 114 of the FCAA; and
- (e) The ability of the permitting authority to establish or revise requirements for the use of reasonably available control technology (RACT) as defined in RCW 70.94.

**P8. Emergency Provision**

WAC 173-401-645 - [10/17/02]

An "emergency" as defined in WAC 173-401-645(1) shall constitute an affirmative defense to an action brought for noncompliance with technology based emission limitations. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (a) An emergency occurred and that the permittee can identify the causes(s) of the emergency;
- (b) The permitted facility was at the time being properly operated;
- (c) During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

- (d) The permittee submitted notice of the emergency to the permitting authority within two working days of the time when emission limitations were exceeded due to the emergency or shorter periods of time specified in an applicable requirement. This notice fulfills the requirement of WAC 173-401-615(3)(b) unless the excess emissions represent a potential threat to human health and safety. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

Burden of proof lies with the permittee.

**P9. Reopenings for Cause**

WAC 173-401-730 - [10/17/02]

This permit shall be reopened and revised under any of the following circumstances:

- (a) Additional applicable requirements become applicable to a major air operating permit source with a remaining permit term of 3 or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to WAC 173-401-620(2)(j);
- (b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit;
- (c) The permitting authority or Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
- (d) The Administrator or the permitting authority determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

Proceedings to reopen and issue this 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. Reopenings under this section shall not be initiated before a notice of such intent is provided to the air operating permit source by the permitting authority. Such notice shall be made at least 30 days in advance of the date that the permit is to be reopened, except that the permitting authority may provide a shorter time period in the case of an emergency.

**P10. Excess Emissions**

WAC 173-400-107 - [9/20/93]

SWCAA 400-107 - [9/21/95 SIP, 12/16/05 Local Only]

The permittee shall report excess emissions to SWCAA as soon as possible. Excess emissions due to startup or shutdown conditions or due to scheduled maintenance shall be considered unavoidable provided the source reports as required under subsection (1) of SWCAA 400-107 and adequately demonstrates that the excess emissions could not have been prevented or avoided.

Excess emissions due to upsets shall be considered unavoidable provided that the permittee reports as soon as possible but no later than 48 hours after discovery, and adequately demonstrates that:

- (a) The event was not caused by poor or inadequate design, operation, or maintenance, or any other reasonably preventable conditions;
- (b) The event was not of a recurring pattern indicative of inadequate design, operation, or maintenance;
- (c) The operator took immediate and appropriate corrective action in a manner consistent with good air pollution control practice for minimizing emissions during the event, taking into account the total emissions impact of the corrective action, including slowing or shutting down the emission unit as necessary to minimize emissions, when the operator knew or should have known that an emission standard or permit condition was being exceeded; and
- (d) The owner or operator(s) actions in response to the excess emissions were documented by properly signed, contemporaneous operating logs, or other relevant evidence.

## V. GENERAL TERMS AND CONDITIONS

### G1. Asbestos

40 CFR 61 Subpart M - [7/1/08]  
 SWCAA 400-075 - [12/14/06 Local Only]  
 SWCAA 476 - [3/18/01 Local Only]

The permittee shall comply with the provisions of SWCAA 476 when conducting any renovation or demolition activities at the facility.

### G2. Chemical Accident Prevention

40 CFR 68 - [7/1/08]

The permittee shall comply with the requirements of the Chemical Accident Prevention Provisions of 40 CFR 68 no later than the following dates:

- (a) Three years after the date on which a regulated substance, present above the threshold quantity, is first listed under 40 CFR 61.130; or
- (b) The date on which a regulated substance is first present above a threshold quantity in a process. [40 CFR 68.10]

### G3. Protection of Stratospheric Ozone

40 CFR 82 Subparts B and F - [7/1/08]

The Permittee shall comply with the standards for recycling and emissions reduction as provided in 40 CFR 82 Subpart B (§82.30) and Subpart F (§82.150).

### G4. Duty to Supplement or Correct Application

WAC 173-401-500(6) - [10/17/02]

The permittee, upon becoming aware that relevant facts were omitted or incorrect information was submitted in a permit application, shall promptly submit such supplementary facts or

corrected information. In addition, an applicant shall provide additional information as necessary to address any requirements that become applicable to the source after the date it filed a complete application but prior to release of a draft permit.

**G5. Certification**

WAC 173-401-520 - [10/17/02]

All application forms, reports, and compliance certifications must be certified by a responsible official. Certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information contained in the submittal are true, accurate, and complete.

**G6. Inspection and Entry**

WAC 173-401-630(2) - [10/17/02]  
SWCAA 400-105(3) - [12/14/06]  
SWCAA 400-106(1)(a) – [12/14/06]

The permittee shall allow inspection and entry, upon presentation of credentials and other documents as may be required by law, by the permitting authority or an authorized representative to perform the following:

- (a) Enter upon the permittee's premises where an air operating permit source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- (d) As authorized by SWCAA 400-105 and the FCAA, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

**G7. Schedule of Compliance**

WAC 173-401-630(3) - [10/17/02]

The permittee shall continue to comply with all applicable requirements with which the source is currently in compliance, and meet on a timely basis any applicable requirements that become effective during the permit term.

**G8. Permit Renewal, Expiration and Revocation**

WAC 173-401-710 - [10/17/02]

The permittee shall submit a complete permit renewal application to SWCAA no later than the date established in the permit. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with WAC 173-401-710(1) and WAC 173-401-500. All terms and conditions of the permit shall remain in effect after the permit expires if a timely and complete permit application has been submitted. Operation under the terms and conditions of the expired permit will be allowed until SWCAA takes final action on the renewal application.

This permit expires on March 31, 2011. A complete renewal application is due no later than September 30, 2010.

The permitting authority may revoke a permit only upon the request of the permittee or for cause. The permitting authority shall provide at least thirty days written notice to the Permittee prior to revocation of the permit or denial of a permit renewal application. Such notice shall include an explanation of the basis for the proposed action and afford the permittee/applicant an opportunity to meet with the permitting authority prior to the authority's final decision. A revocation issued under this section may be issued conditionally with a future effective date and may specify that the revocation will not take effect if the permittee satisfies the specified conditions before the effective date.

**G9. Transfer of Ownership or Operational Control** WAC 173-401-720(1)(d) - [10/17/02]

A change in permittee due to transfer of ownership or operational control of an affected source requires a request for administrative permit amendment as governed by WAC 173-401-720.

**G10. Portable Sources** WAC 173-400-110(5) – [9/20/93 SIP Only]  
SWCAA 400-110(5) - [11/21/96 SIP Only]  
SWCAA 400-110(6) – [12/14/06 Local Only]

Portable sources which locate temporarily at the site of an air operating permit source shall be allowed to operate at the temporary location without filing an Air Discharge Permit application provided that:

- (a) The source/emissions units are registered with SWCAA;
- (b) The source/emissions units have an Air Discharge Permit to operate as a portable source;
- (c) The owner(s) or operator(s) notifies SWCAA of the intent to operate at the new location at least ten business days prior to starting the operation;
- (d) The owner(s) or operator(s) supplies sufficient information including production quantities and hours of operation, to enable SWCAA to determine that the operation will comply with the emission standards for a new source, and will not cause a violation of applicable ambient air quality standards and, if in a nonattainment area, will not interfere with scheduled attainment of ambient standards; and
- (e) The owner(s) and/or resident(s) of immediately adjacent properties shall be notified by the owner(s) or operator(s) of the portable source in writing at least 10 business days prior to commencement of operations at the proposed location with copies mailed to SWCAA. Written notification to the adjacent landowners/residents shall be by certified mail with return receipt requested. Such written notification shall include a complete description of the proposed operation, the associated emissions control provisions and equipment, the total estimated project emissions, the name, address and phone number of the person in charge of the operation, and the address and phone number for SWCAA. Written notification shall indicate that all comments shall be directed to SWCAA.

**G11. Misrepresentation and Tampering** SWCAA 400-105(6 & 7) - [12/14/06 Local Only]

- (a) The permittee shall not make any false material statement, representation or certification in any form, notice, or report.
- (b) The permittee shall not render inaccurate any monitoring device or method required under RCW 70.94, or any ordinance, resolution, regulation, permit, or order in force pursuant thereto.

**G12. New Source Review**

WAC 173-460 - [8/21/98 State Only]  
SWCAA 400-109 – [12/14/06 Local Only]  
SWCAA 400-110 - [11/21/96 SIP, 12/14/06 Local Only]  
SWCAA 400-141 - [12/14/06 Local Only]

The permittee shall not construct or modify a source which is required to be reviewed under SWCAA 400, WAC 173-400 or WAC 173-460 without first receiving an approval or permit under such provisions. Portable sources may be exempt from this requirement if they fulfill the criteria described in **G10 - Portable Sources**.

**G13. Replacement or Substantial Alteration of Emission Control Technology at an Existing Stationary Source** SWCAA 400-114 - [11/21/96 SIP, 12/14/06 Local Only]

Prior to replacing or substantially altering emission control technology or equipment installed at an existing stationary source or emission unit, the permittee shall file an air discharge permit application with SWCAA. Construction shall not commence on a project subject to review until SWCAA issues a final air discharge permit or other regulatory order. However, any air discharge permit application filed under this section shall be deemed to be approved without conditions if the Agency takes no action within thirty days of receipt of a complete application.

**G14. Outdoor Burning**

WAC 173-425 - [10/18/90 SIP, 4/13/00 State Only]  
SWCAA 425 - [8/1/02 Local Only]

The permittee is prohibited from conducting outdoor burning except as allowed by SWCAA 425.

## VI. APPLICABLE REQUIREMENTS

The following table lists all federal, state, and/or locally enforceable requirements applicable to the Permittee. The legal authority for each requirement is listed below each requirement. Applicable requirements identified as having "plantwide" applicability apply to both EUs and IEUs. Some of the requirements have been partially adopted into the Washington State Implementation Plan (SIP). Only those parts adopted into the Washington SIP are federally enforceable. Requirements that are not required under the FCAA are denoted as state or local only. Monitoring requirements are used to provide a reasonable assurance of compliance with the applicable requirements, and may or may not involve the use of a reference test method.

Req.#	Requirements	Emission Point	Monitoring
Req-1	NO <sub>x</sub> emissions from the Centaur turbines shall not exceed 166 ppm by volume dry corrected to 15% O <sub>2</sub> . Reference Method – EPA Method 20 40 CFR 60.332(a)(2) - [2/24/06] SWCAA 400-115 - [12/14/06 Local Only]	EU3, EU4	M1 Centaur NO <sub>x</sub> Standard
Req-2	The Centaur turbines shall not burn any fuel which contains sulfur in excess of 0.8% by weight. 40 CFR 60.333(b) - [2/24/06] SWCAA 400-115 - [12/14/06 Local Only]	EU3, EU4	M2 Compliance Certification
Req-3	NO <sub>x</sub> emissions from the Taurus turbine shall not exceed 25 ppm corrected to 15% O <sub>2</sub> . Reference Method – EPA Method 20 40 CFR 60.4320(a) - [7/6/06] SWCAA 400-115 - [12/14/06 Local Only]	EU2	M3 Taurus NO <sub>x</sub> Standard
Req-4	The Taurus turbine shall not burn any fuel which contains total potential sulfur emissions in excess of 26 ng SO <sub>2</sub> /J (0.06 lb SO <sub>2</sub> /MMBtu) heat input. Reference Method – ASTM D5287 40 CFR 60.4330(a)(2) - [7/6/06] SWCAA 400-115 - [12/14/06 Local Only]	EU2	M2 Compliance Certification
Req-5	The turbine, air pollution control equipment, and monitoring equipment shall be operated in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown and malfunction. 40 CFR 60.11(d) - 7/1/08 40 CFR 60.4333(a) - [7/6/06] SWCAA 400-115 - [12/14/06 Local Only]	EU2, EU3, EU4	M4 Taurus Turbine Monitoring, M5 Opacity Monitoring
Req-6	Permittee shall not cause or permit any emission which exceeds 20% opacity for more than three minutes in any one hour period. Reference Method – SWCAA Method 9 SWCAA 400-040(1)(a)&(b) – 9/21/95 SIP, 12/14/06 Local Only	Plantwide	M5 Opacity Monitoring
Req-7	Permittee shall not cause or permit fallout of particulate matter beyond the source's property boundary in sufficient quantity to interfere unreasonably with use and enjoyment of the property on which the fallout occurs. SWCAA 400-040(2) – 12/14/06 Local Only	Plantwide	M6 Fugitive Emissions Monitoring
Req-8	Permittee shall take reasonable precautions to prevent the release of fugitive emissions from any emission unit which is a source of fugitive emissions. SWCAA 400-040(3)(a) – 9/21/95 SIP, 12/14/06 Local Only ADP 05-2650, Condition 8 - [2/2/06]	Plantwide	M6 Fugitive Emissions Monitoring
Req-9	Permittee shall use recognized good practice and procedures to reduce odors to a reasonable minimum. SWCAA 400-040(4) – 12/14/06 Local Only ADP 05-2650, Condition 9 - [2/2/06]	Plantwide	M6 Fugitive Emissions Monitoring

Req.#	Requirements	Emission Point	Monitoring																								
Req-10	Permittee shall not cause or permit emissions detrimental to persons or property. SWCAA 400-040(5) – 9/21/95 SIP, 12/14/06 Local Only	Plantwide	M7 Complaint Monitoring																								
Req-11	Permittee shall not cause or permit any emission unit to emit a gas containing sulfur dioxide in excess of one thousand (1000) ppm of sulfur dioxide on a dry basis, based on an average of sixty consecutive minutes. Reference Method – 40 CFR 60 Appendix A Method 6 SWCAA 400-040(6) – 9/21/95 SIP, 12/14/06 Local Only SIP excludes SWCAA 400-040(6)(a) and second paragraph of WAC 173-400-040(6)	Plantwide	M2 Compliance Certification																								
Req-12	Permittee shall not cause or permit the installation or use of any means which conceals or masks an emission which would otherwise violate any provisions of SWCAA 400-040. SWCAA 400-040(7) – 9/21/95 SIP, 12/14/06 Local Only	Plantwide	M2 Compliance Certification																								
Req-13	Permittee shall take reasonable precautions to prevent emissions of fugitive dust and operate the source to minimize emissions. SWCAA 400-040(8)(a) – 9/21/95 SIP, 12/14/06 Local Only ADP 05-2650, Condition 8 - [2/2/06]	Plantwide	M6 Fugitive Emission Monitoring																								
Req-14	Permittee shall not cause or permit emissions of particulate matter from a combustion or incineration emissions unit in excess of 0.1 gr/dscf of exhaust gas corrected to 7% oxygen. Reference Method – 40 CFR 60 Appendix A Method 5 SWCAA 400-050(1)&(3) – 9/21/95 SIP(except the oxygen level exception in (3)), 12/14/06 Local Only	Plantwide	M5 Opacity Monitoring																								
Req-15	Permittee shall not cause or permit emissions of particulate matter from a general process unit in excess of 0.1 gr/dscf of exhaust gas. Reference Method – 40 CFR 60 Appendix A Method 5 SWCAA 400-060 - [9/21/95 SIP, 12/14/06 Local Only]	Plantwide	M5 Opacity Monitoring																								
Req-16	Combined emissions from plant operations shall not exceed: <table border="0"> <tr> <td><u>Pollutant</u></td> <td><u>Emission Limit</u></td> </tr> <tr> <td>CO</td> <td>189.1 ton/yr</td> </tr> <tr> <td>NO<sub>x</sub></td> <td>218.6 ton/yr</td> </tr> <tr> <td>SO<sub>2</sub></td> <td>3.2 ton/yr</td> </tr> <tr> <td>VOCs</td> <td>49.7 ton/yr</td> </tr> <tr> <td>PM</td> <td>18.4 ton/yr</td> </tr> <tr> <td>Benzene</td> <td>0.29 ton/yr</td> </tr> <tr> <td>Formaldehyde</td> <td>18.3 ton/yr</td> </tr> </table> ADP 05-2650, Condition 1 - [2/2/06]	<u>Pollutant</u>	<u>Emission Limit</u>	CO	189.1 ton/yr	NO <sub>x</sub>	218.6 ton/yr	SO <sub>2</sub>	3.2 ton/yr	VOCs	49.7 ton/yr	PM	18.4 ton/yr	Benzene	0.29 ton/yr	Formaldehyde	18.3 ton/yr	Plantwide	M8 Engine Testing, M9 Taurus Testing, M10 Centaur Testing, M11 Ancillary Equipment								
<u>Pollutant</u>	<u>Emission Limit</u>																										
CO	189.1 ton/yr																										
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PM	18.4 ton/yr																										
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Formaldehyde	18.3 ton/yr																										
Req-17	Emissions from the reciprocating engine shall not exceed the following: <table border="0"> <tr> <td><u>Pollutant</u></td> <td><u>Emission Limit</u></td> <td><u>Reference Method</u></td> </tr> <tr> <td>CO</td> <td>2.0 grams/hp-hour* and 92.6 ton/yr</td> <td>EPA Method 10</td> </tr> <tr> <td>NO<sub>x</sub></td> <td>3.0 grams/hp-hour* and 138.9 ton/yr</td> <td>EPA Method 7E</td> </tr> <tr> <td>SO<sub>2</sub></td> <td>0.5 ton/yr</td> <td>EPA Method 6</td> </tr> <tr> <td>VOCs</td> <td>0.5 grams/hp-hour* and 23.2 ton/yr</td> <td>EPA Method 18 or 25A</td> </tr> <tr> <td>PM</td> <td>3.01 lb/hr and 13.2 ton/yr</td> <td>EPA Method 5</td> </tr> <tr> <td>Benzene</td> <td>0.063 lb/hr and 0.28 ton/yr</td> <td>EPA Method 18</td> </tr> <tr> <td>Formaldehyde</td> <td>3.5 lb/hr and 15.3 ton/yr</td> <td>EPA Method 320</td> </tr> </table> * At 100% torque, 250 rpm ADP 05-2650, Condition 2 - [2/2/06]	<u>Pollutant</u>	<u>Emission Limit</u>	<u>Reference Method</u>	CO	2.0 grams/hp-hour* and 92.6 ton/yr	EPA Method 10	NO <sub>x</sub>	3.0 grams/hp-hour* and 138.9 ton/yr	EPA Method 7E	SO <sub>2</sub>	0.5 ton/yr	EPA Method 6	VOCs	0.5 grams/hp-hour* and 23.2 ton/yr	EPA Method 18 or 25A	PM	3.01 lb/hr and 13.2 ton/yr	EPA Method 5	Benzene	0.063 lb/hr and 0.28 ton/yr	EPA Method 18	Formaldehyde	3.5 lb/hr and 15.3 ton/yr	EPA Method 320	EU1	M8 Reciprocating Engine Testing and Recording Requirements
<u>Pollutant</u>	<u>Emission Limit</u>	<u>Reference Method</u>																									
CO	2.0 grams/hp-hour* and 92.6 ton/yr	EPA Method 10																									
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Benzene	0.063 lb/hr and 0.28 ton/yr	EPA Method 18																									
Formaldehyde	3.5 lb/hr and 15.3 ton/yr	EPA Method 320																									
Req-18	Emissions from the Taurus turbine shall not exceed the following: <table border="0"> <tr> <td><u>Pollutant</u></td> <td><u>Emission Limit</u></td> <td><u>Reference Method</u></td> </tr> <tr> <td>CO</td> <td>50 ppmdv* @15% O<sub>2</sub> and 42.6 ton/yr</td> <td>EPA Method 10</td> </tr> <tr> <td>NO<sub>x</sub></td> <td>25 ppmdv* @15% O<sub>2</sub> and 38.3 ton/yr</td> <td>EPA Method 7E or 20</td> </tr> <tr> <td>SO<sub>2</sub></td> <td>1.3 ton/yr</td> <td>EPA Method 6</td> </tr> <tr> <td>VOCs</td> <td>25 ppmdv @15% O<sub>2</sub> and 13.3 ton/yr</td> <td>EPA Method 18 or 25A</td> </tr> <tr> <td>PM</td> <td>0.58 lb/hr and 2.5 ton/yr</td> <td>EPA Method 5</td> </tr> <tr> <td>Benzene</td> <td>0.00063 lb/hr and 0.0025 ton/yr</td> <td>EPA Method 18</td> </tr> <tr> <td>Formaldehyde</td> <td>0.33 lb/hr and 1.5 ton/yr</td> <td>EPA Method 320</td> </tr> </table> * At ≥ 90 percent NGP ADP 05-2650, Condition 3 - [2/2/06]	<u>Pollutant</u>	<u>Emission Limit</u>	<u>Reference Method</u>	CO	50 ppmdv* @15% O <sub>2</sub> and 42.6 ton/yr	EPA Method 10	NO <sub>x</sub>	25 ppmdv* @15% O <sub>2</sub> and 38.3 ton/yr	EPA Method 7E or 20	SO <sub>2</sub>	1.3 ton/yr	EPA Method 6	VOCs	25 ppmdv @15% O <sub>2</sub> and 13.3 ton/yr	EPA Method 18 or 25A	PM	0.58 lb/hr and 2.5 ton/yr	EPA Method 5	Benzene	0.00063 lb/hr and 0.0025 ton/yr	EPA Method 18	Formaldehyde	0.33 lb/hr and 1.5 ton/yr	EPA Method 320	EU2	M9 Taurus Turbine Testing and Recording Requirements
<u>Pollutant</u>	<u>Emission Limit</u>	<u>Reference Method</u>																									
CO	50 ppmdv* @15% O <sub>2</sub> and 42.6 ton/yr	EPA Method 10																									
NO <sub>x</sub>	25 ppmdv* @15% O <sub>2</sub> and 38.3 ton/yr	EPA Method 7E or 20																									
SO <sub>2</sub>	1.3 ton/yr	EPA Method 6																									
VOCs	25 ppmdv @15% O <sub>2</sub> and 13.3 ton/yr	EPA Method 18 or 25A																									
PM	0.58 lb/hr and 2.5 ton/yr	EPA Method 5																									
Benzene	0.00063 lb/hr and 0.0025 ton/yr	EPA Method 18																									
Formaldehyde	0.33 lb/hr and 1.5 ton/yr	EPA Method 320																									

Req.#	Requirements	Emission Point	Monitoring																								
Req-19	<p>Emissions from the Centaur turbines shall not exceed the following:</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Emission Limit (Each Turbine)</th> <th>Reference Method</th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>50 ppm<sub>d</sub>v* @15% O<sub>2</sub> and 23.7 ton/yr</td> <td>EPA Method 10</td> </tr> <tr> <td>NO<sub>x</sub></td> <td>25 ppm<sub>d</sub>v* @15% O<sub>2</sub> and 19.7 ton/yr</td> <td>EPA Method 7E or 20</td> </tr> <tr> <td>SO<sub>2</sub></td> <td>0.7 ton/yr</td> <td>EPA Method 6</td> </tr> <tr> <td>VOCs</td> <td>25 ppm<sub>d</sub>v @15% O<sub>2</sub> and 6.6 ton/yr</td> <td>EPA Method 18 or 25A</td> </tr> <tr> <td>PM</td> <td>0.29 lb/hr and 1.3 ton/yr</td> <td>EPA Method 5</td> </tr> <tr> <td>Benzene</td> <td>0.0003 lb/hr and 0.0015 ton/yr</td> <td>EPA Method 18</td> </tr> <tr> <td>Formaldehyde</td> <td>0.17 lb/hr and 0.75 ton/yr</td> <td>EPA Method 320</td> </tr> </tbody> </table> <p>* At ≥ 90 percent NGP ADP 05-2650, Condition 4 - [2/2/06]</p>	Pollutant	Emission Limit (Each Turbine)	Reference Method	CO	50 ppm <sub>d</sub> v* @15% O <sub>2</sub> and 23.7 ton/yr	EPA Method 10	NO <sub>x</sub>	25 ppm <sub>d</sub> v* @15% O <sub>2</sub> and 19.7 ton/yr	EPA Method 7E or 20	SO <sub>2</sub>	0.7 ton/yr	EPA Method 6	VOCs	25 ppm <sub>d</sub> v @15% O <sub>2</sub> and 6.6 ton/yr	EPA Method 18 or 25A	PM	0.29 lb/hr and 1.3 ton/yr	EPA Method 5	Benzene	0.0003 lb/hr and 0.0015 ton/yr	EPA Method 18	Formaldehyde	0.17 lb/hr and 0.75 ton/yr	EPA Method 320	EU3, EU4	M10 Centaur Turbines Testing and Recording Requirements
Pollutant	Emission Limit (Each Turbine)	Reference Method																									
CO	50 ppm <sub>d</sub> v* @15% O <sub>2</sub> and 23.7 ton/yr	EPA Method 10																									
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SO <sub>2</sub>	0.7 ton/yr	EPA Method 6																									
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PM	0.29 lb/hr and 1.3 ton/yr	EPA Method 5																									
Benzene	0.0003 lb/hr and 0.0015 ton/yr	EPA Method 18																									
Formaldehyde	0.17 lb/hr and 0.75 ton/yr	EPA Method 320																									
Req-20	<p>Emissions from the boiler shall not exceed the following:</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Emission Limit</th> <th>Reference Method</th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>0.17 lb/hr and 0.73 ton/yr</td> <td>EPA Method 10</td> </tr> <tr> <td>NO<sub>x</sub></td> <td>0.14 lb/hr and 0.61 ton/yr</td> <td>EPA Method 7E or 20</td> </tr> <tr> <td>SO<sub>2</sub></td> <td>0.03 ton/yr</td> <td>EPA Method 6</td> </tr> <tr> <td>VOCs</td> <td>0.009 lb/hr and 0.04 ton/yr</td> <td>EPA Method 18 or 25A</td> </tr> <tr> <td>PM</td> <td>0.013 lb/hr and 0.06 ton/yr</td> <td>EPA Method 5</td> </tr> </tbody> </table> <p>ADP 05-2650, Condition 5 - [2/2/06]</p>	Pollutant	Emission Limit	Reference Method	CO	0.17 lb/hr and 0.73 ton/yr	EPA Method 10	NO <sub>x</sub>	0.14 lb/hr and 0.61 ton/yr	EPA Method 7E or 20	SO <sub>2</sub>	0.03 ton/yr	EPA Method 6	VOCs	0.009 lb/hr and 0.04 ton/yr	EPA Method 18 or 25A	PM	0.013 lb/hr and 0.06 ton/yr	EPA Method 5	EU5	M11 Ancillary Equipment Recording Requirements						
Pollutant	Emission Limit	Reference Method																									
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VOCs	0.009 lb/hr and 0.04 ton/yr	EPA Method 18 or 25A																									
PM	0.013 lb/hr and 0.06 ton/yr	EPA Method 5																									
Req-21	<p>Emissions from the emergency generator shall not exceed the following:</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Emission Limit</th> <th>Reference Method</th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>17.9 lb/hr and 1.8 ton/yr</td> <td>EPA Method 10</td> </tr> <tr> <td>NO<sub>x</sub></td> <td>10.6 lb/hr and 1.1 ton/yr</td> <td>EPA Method 7E or 20</td> </tr> <tr> <td>SO<sub>2</sub></td> <td>0.002 ton/yr</td> <td>EPA Method 6</td> </tr> <tr> <td>VOCs</td> <td>0.14 lb/hr and 0.01 ton/yr</td> <td>EPA Method 18 or 25A</td> </tr> <tr> <td>PM</td> <td>0.09 lb/hr and 0.009 ton/yr</td> <td>EPA Method 5</td> </tr> </tbody> </table> <p>ADP 05-2650, Condition 6 - [2/2/06]</p>	Pollutant	Emission Limit	Reference Method	CO	17.9 lb/hr and 1.8 ton/yr	EPA Method 10	NO <sub>x</sub>	10.6 lb/hr and 1.1 ton/yr	EPA Method 7E or 20	SO <sub>2</sub>	0.002 ton/yr	EPA Method 6	VOCs	0.14 lb/hr and 0.01 ton/yr	EPA Method 18 or 25A	PM	0.09 lb/hr and 0.009 ton/yr	EPA Method 5	EU6	M11 Ancillary Equipment Recording Requirements						
Pollutant	Emission Limit	Reference Method																									
CO	17.9 lb/hr and 1.8 ton/yr	EPA Method 10																									
NO <sub>x</sub>	10.6 lb/hr and 1.1 ton/yr	EPA Method 7E or 20																									
SO <sub>2</sub>	0.002 ton/yr	EPA Method 6																									
VOCs	0.14 lb/hr and 0.01 ton/yr	EPA Method 18 or 25A																									
PM	0.09 lb/hr and 0.009 ton/yr	EPA Method 5																									
Req-22	<p>Visible emissions shall not exceed five percent opacity for more than 3 minutes in any one hour period as determined in accordance with SWCAA Method 9 (See Appendix A of SWCAA 400). Reference Method – SWCAA Method 9 ADP 05-2650, Condition 7 - [2/2/06]</p>	EU1-EU7	M5 Opacity Monitoring																								
Req-23	<p>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. ADP 05-2650, Condition 11- [2/2/06]</p>	Plantwide	M2 Compliance Certification																								
Req-24	<p>The reciprocating engine shall be maintained at levels greater than or equal to 175 rpm on a one hour average except during startup and shut down. ADP 05-2650, Condition 12 - [2/2/06]</p>	EU1	M12 Reciprocating engine RPM and Torque																								
Req-25	<p>Hours of operation of the emergency generator shall not exceed 200 hours per year. ADP 05-2650, Condition 13 - [2/2/06]</p>	EU6	M11 Ancillary Equipment Recording Requirements																								

**VII. MONITORING REQUIREMENTS**

To assure compliance with all applicable requirements, the permittee shall perform the monitoring program specified below. These monitoring requirements also ensure that the equipment is being maintained as per 40 CFR 60.11(d) where applicable. Each monitoring requirement is indexed according to the underlying requirement(s). Pursuant to WAC 173-401-530(2)(c), none of the following monitoring requirements apply to IEUs.

**M1. Centaur NO<sub>x</sub> Standard** 40 CFR 60.332(a)(2) - [2/24/06], SWCAA 400-115 - [12/14/06],

This monitoring requirement applies to Req-1.

Compliance with the standard shall be demonstrated by source test per M9. Since no allowance for fuel bound nitrogen is being used, no nitrogen content monitoring is required.

**M2. Compliance Certification**

WAC 173-401-615(1) - [10/17/02]

This monitoring requirement applies to Reqs-2, 4, 11, 12 and 23.

The permittee shall certify the following in each semi-annual report:

- (a) Only pipeline quality natural gas with a valid tariff sheet specifying that the total sulfur content is 20.0 grains of sulfur or less per 100 standard cubic feet is used as fuel for all permitted combustion units at the facility (excluding insignificant emission sources). Records of monitoring activities shall be maintained in accordance with Section VIII of this permit; and
- (b) Installed equipment does not conceal or mask any emissions which are otherwise in violation of general standards.

**M3. Taurus NO<sub>x</sub> Standard** 40 CFR 60.4320(a) - [3/20/09], SWCAA 400-115 - [12/14/06]

This monitoring requirement applies to Req-3.

Compliance with the standard shall be demonstrated either by selecting one of the following three compliance options:

- (a) Periodic source testing as described in 40 CFR 60.4340(a). Source testing must be performed annually in accordance with 40 CFR 60.4400 to demonstrate continuous compliance. If the NO<sub>x</sub> emission result from the performance test is less than or equal to 75 percent of the NO<sub>x</sub> emission limit for the turbine, the permittee may reduce the frequency of subsequent performance tests to once every two years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceeds 75 percent of the NO<sub>x</sub> emission limit for the turbine, the permittee must resume annual performance tests;
- (b) Operation of a continuous monitoring system as described in 40 CFR 60.4345. The operating plan must be approved by SWCAA. The permittee shall submit a certification statement to SWCAA every six months that certifies that the quality assurance plan has been followed at all times or that exceptions have been reported. Any revision to the quality assurance plan must be reported with the semiannual report.; or

- (c) Continuous parameter monitoring as described in 40 CFR 60.4340(b)(ii) with a parameter monitoring plan as described in 40 CFR 60.4355. Superseded copies of the parameter monitoring plan must be maintained on site for a period of five years after the revision of the plan. The permittee shall submit a copy of the parameter monitoring plan to SWCAA or EPA upon request. The permittee shall submit a certification statement to SWCAA every six months that certifies that the parameter monitoring plan has been followed at all times or that exceptions have been reported. Any revision to the parameter monitoring plan must be reported with the semiannual report.

**M4. Taurus Turbine Monitoring**

ADP 05-2650, Condition 20 - [2/2/06]

This monitoring requirement applies to Req-5.

The turbine combustion temperature and gas producer speed of the Taurus turbine shall be continuously monitored.

**M5. Opacity Monitoring**

WAC 173-401-615(1) - [10/17/02]

This monitoring requirement applies to Reqs-5, 6, 14, 15 and 22.

The permittee shall perform monthly inspections by performing a brief qualitative observation of each emission unit and affected operation during daylight hours for the purpose of identifying potential opacity violations. If no visible emissions are observed, the permittee shall make a record as per Section VIII of this permit. Whenever any visible emissions are observed, the permittee shall identify the equipment causing the emissions. The permittee shall within 60 minutes of observing visible emissions confirm whether the equipment involved is experiencing a malfunction and whether all air pollution control equipment is operating properly. The permittee shall either eliminate visible emissions within 24-hours of initial discovery or demonstrate compliance with applicable opacity limits by recording opacity within three working days using the visual emission evaluation method in SWCAA 400 Appendix A. Implementation of corrective action does not relieve the permittee from the obligation of reporting permit deviations as specified in WAC 173-401-615(3). Records of monitoring activities shall be maintained in accordance with Section VIII of this permit.

**M6. Fugitive Emissions Monitoring**

WAC 173-401-615(1) - [10/17/02]

This monitoring requirement applies to Reqs-7, 8, 9 and 13.

This permittee shall record, and maintain record of, any air quality, odor or fallout related complaints received by the permittee or forwarded to the permittee by SWCAA regarding the compressor station property excluding noise or right-of-way issues. These complaints shall be investigated no later than one work day after the permittee has been notified. Investigation shall verify the validity of each complaint, the cause of emissions which prompted the complaint, and what, if any, corrective action was taken in response to the complaint.

In addition to complaint response, the permittee shall perform monthly inspections by performing a brief qualitative observation of any potential source of fugitive emissions including, but not limited to, dust and odors, etc. during daylight hours for the purpose of

identifying excess fugitive emissions. If no fugitive emissions are observed, the permittee shall make a record as per Section VIII of this permit. Whenever any fugitive emissions are observed the permittee shall identify the source causing the emissions. The permittee shall within 60 minutes of discovery confirm whether the source involved is experiencing a malfunction, and whether reasonable precautions and good work practices are being employed to minimize emissions. Reasonable precautions and good work practices include, but are not limited to, worker training programs, closed doors and windows, vertical exhaust of ventilation equipment, and proper operation of ventilation systems. Implementation of corrective action does not relieve the permittee from the obligation of reporting permit deviations as specified in WAC 173-401-615(3). Records of monitoring activities shall be maintained in accordance with Section VIII of this permit.

**M7. Complaint Monitoring**

WAC 173-401-615(1) - [10/17/02]

This monitoring requirement applies to Req-10.

This permittee shall record, and maintain record of, any air quality, odor or fallout related complaints received by the permittee or forwarded to the permittee by SWCAA regarding the compressor station property excluding noise or right-of-way issues. These complaints shall be investigated no later than one work day after the permittee has been notified. Investigation shall verify the validity of each complaint, the cause of emissions which prompted the complaint, and what, if any, corrective action was taken in response to the complaint. Permittee shall take appropriate corrective action for all valid complaints. Records of monitoring activities shall be maintained in accordance with Section VIII of this permit.

**M8. Reciprocating Engine Testing and Recording Requirements**SWCAA 400-052 - [9/21/95 SIP, 12/14/06 Local Only],  
ADP 05-2650, Condition 23 - [2/2/06]

This monitoring requirement applies to Reqs-16 and 17.

The permittee shall test the reciprocating engine 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 of 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. EPA Method 7E shall be used for NO<sub>x</sub>. EPA Method 10 shall be used for CO and EPA Method 18 or 25A for VOCs. EPA Method 5 with back half condensable matter by Method 202, combined, or Method 17, or equivalent shall be used for PM. EPA Method 320, EPA Proposed Method 323 or equivalent as defined in Appendix C shall be used for formaldehyde. SWCAA Method 9 (Appendix A) for a minimum of 6 minutes shall be used for opacity.

The permittee shall record monthly hours of operation at each of the four load conditions (<85% torque and <218 rpm, <85% torque and  $\geq$ 218 rpm, or  $\geq$ 85% torque and <218 rpm).

The permittee shall continuously record rpm and torque while the unit is in operation. Compliance with the annual emission limits for NO<sub>x</sub>, CO, VOCs, PM and formaldehyde shall be demonstrated by summing the hours of operation for each of the four load condition ranges (shown in R3(d)) and applying the corresponding emission rates in pounds per hour from the most recent source test data.

SO<sub>2</sub> compliance shall be determined based on the annual average sulfur content of the natural gas and a maximum heat input of 32.4 MMBtu per hour to obtain an emission factor as follows:

$$XX \frac{\text{grains S}}{100 \text{ cf}} \times 32.4 \frac{\text{MMBtu}}{\text{hour}} \times \frac{\text{lb}}{7000 \text{ grains}} \times \frac{\text{cf}}{0.001 \text{ MMBtu}} \times 2 \frac{\text{lb SO}_2}{\text{lb S}} = X \frac{\text{lb SO}_2}{\text{hour}}$$

For benzene compliance shall be calculated using the emission factor in pounds per hour shown in the Technical Support Document (TSD) for ADP 05-2650 and actual hours of operation:

<u>Pollutant</u>	<u>Factor</u>
Benzene	0.063 lb/hr

Records of monitoring activities shall be maintained in accordance with Section VIII of this permit.

**M9. Taurus Turbine Testing and Recording Requirements** ADP 05-2650, Condition 24 - [2/2/06]

This monitoring requirement applies to Reqs-16 and 18.

The turbine shall be tested every five calendar years no later than the end of the month of February at one load point representing the maximum speed (□>95% gas producer speed) (more frequent NO<sub>x</sub> testing may be required by monitoring requirement M1 NO<sub>x</sub> Standard). EPA Method 7E or 20 shall be used for NO<sub>x</sub>. EPA Method 10 shall be used for CO and EPA Method 18 or 25A for VOCs. SWCAA Method 9 (Appendix A) for a minimum of 6 minutes shall be used for opacity.

The permittee shall record monthly hours of operation.

Compliance with the annual emission limits from the turbine shall be calculated using the most recent source test results at maximum load conditions in pounds per hour and actual hours of operation.

SO<sub>2</sub> compliance shall be determined based on the annual average sulfur content of the natural gas and a maximum heat input of 87.24 MMBtu per hour to obtain an emission factor as follows:

$$XX \frac{\text{grains S}}{100 \text{ cf}} \times 87.24 \frac{\text{MMBtu}}{\text{hour}} \times \frac{\text{lb}}{7000 \text{ grains}} \times \frac{\text{cf}}{0.001 \text{ MMBtu}} \times 2 \frac{\text{lb SO}_2}{\text{lb S}} = X \frac{\text{lb SO}_2}{\text{hour}}$$

For all other pollutants, annual emissions shall be calculated using the emission factor in pounds per hour contained in the TSD for ADP 05-2650 and actual hours of operation.

<u>Pollutant</u>	<u>Factor</u>
PM	0.58 lb/hr
Benzene	0.00063 lb/hr
Formaldehyde	0.33 lb/hr

Records of monitoring activities shall be maintained in accordance with Section VIII of this permit.

**M10. Centaur Turbines Testing and Recording Requirements** ADP 05-2650, Condition 25 - [2/2/06]

This monitoring requirement applies to Reqs-16 and 19.

The turbines shall be tested every five calendar years no later than the end of the month of the initial source test provided that the turbine has operated at the Chehalis facility during the previous five year period. Testing shall be performed at one load point representing the maximum speed (□>95% gas producer speed) (more frequent NO<sub>x</sub> testing may be required by monitoring requirement M1 NO<sub>x</sub> Standard). EPA Method 7E or 20 shall be used for NO<sub>x</sub>. EPA Method 10 shall be used for CO and EPA Method 18 or 25A for VOCs. SWCAA Method 9 (Appendix A) for a minimum of 6 minutes shall be used for opacity.

The permittee shall record monthly hours of operation.

Placement of or removal of the mobile Centaur turbines from the Chehalis Station shall be reported to SWCAA ten days prior to relocation at the facility or within ten days after removal from the facility. Notice shall include the date of the most recent source test and the serial number of the unit.

Compliance with the annual emission limits from the turbine shall be calculated using the most recent source test results at maximum load conditions in pounds per hour and actual hours of operation.

SO<sub>2</sub> compliance shall be determined based on the annual average sulfur content of the natural gas and a maximum heat input of 44.57 MMBtu per hour to obtain an emission factor as follows:

$$XX \frac{\text{grains S}}{100 \text{ cf}} \times 44.57 \frac{\text{MMBtu}}{\text{hour}} \times \frac{\text{lb}}{7000 \text{ grains}} \times \frac{\text{cf}}{0.001 \text{ MMBtu}} \times 2 \frac{\text{lb SO}_2}{\text{lb S}} = X \frac{\text{lb SO}_2}{\text{hour}}$$

For all other pollutants, annual emissions shall be calculated using the emission factor in pounds per hour contained in the TSD for ADP 05-2650 and actual hours of operation.

<u>Pollutant</u>	<u>Factor</u>
PM	0.29 lb/hr
Benzene	0.0003 lb/hr
Formaldehyde	0.17 lb/hr

Records of monitoring activities shall be maintained in accordance with Section VIII of this permit.

**M11. Ancillary Equipment Recording Requirements** ADP 05-2650, Conditions 21 & 22 - [2/2/06]

This monitoring requirement applies to Reqs-16, 20, 21 and 25.

The permittee shall record hours of operation for the boiler and generator monthly.

Emissions for the boiler shall be calculated annually using annual hours of operation and the following emission factors from the TSD for ADP 05-2650:

<u>Pollutant</u>	<u>Factor</u>
NO <sub>x</sub>	0.14 lb/hr
CO	0.17 lb/hr
VOC	0.0092 lb/hr
SO <sub>2</sub>	0.006 lb/hr
PM	0.013 lb/hr
Benzene	0.0000035 lb/hr
Formaldehyde	0.000125 lb/hr

The generator shall not operate more than 200 hours per year.

Emissions for the generator shall be calculated annually using annual hours of operation and the following emission factors from the TSD for ADP 05-2650:

<u>Pollutant</u>	<u>Factor</u>
NO <sub>x</sub>	10.6 lb/hr
CO	17.9 lb/hr
VOC	0.14 lb/hr
SO <sub>2</sub>	0.017 lb/hr
PM	0.093 lb/hr
Benzene	0.008 lb/hr
Formaldehyde	0.10 lb/hr

Emissions for the line heater shall be calculated annually using 8,760 hours of operation for the heater unless an hours meter or fuel meter is installed to provide accurate line heater usage data and the following emission factors from the TSD for ADP 05-2650:

<u>Pollutant</u>	<u>Factor</u>
NO <sub>x</sub>	0.049 lb/hr
CO	0.041 lb/hr
VOC	0.0027 lb/hr
SO <sub>2</sub>	0.0017 lb/hr
PM	0.0037 lb/hr
Benzene	0.00000103 lb/hr
Formaldehyde	0.0000367 lb/hr

Records of monitoring activities shall be maintained in accordance with Section VIII of this permit.

**M12. Reciprocating Engine RPM and Torque**

ADP 05-2650, Condition 17 - [2/2/06]

This monitoring requirement applies to Req-24.

The rpm and torque shall be continuously monitored and recorded during normal operation. The data shall be reported based on hourly averages. Records of monitoring activities shall be maintained in accordance with Section VIII of this permit.

**VIII. RECORDKEEPING REQUIREMENTS**

All monitoring records shall be maintained in a readily accessible form for a minimum period of five years. Pursuant to WAC 173-401-530(2)(c), none of the recordkeeping requirements apply to IEUs. Records shall be maintained as per 40 CFR 60.7(f) where applicable. The permittee shall maintain records of required monitoring as identified in M1-M13 as follows if applicable:

**K1. General Recordkeeping**

WAC 173-401-615(2) - [10/17/02]

Permittee is required to keep the following records as applicable:

- (a) Inspections & certifications
  - (i) The date, place, and time of activity;
  - (ii) Identification of the person who conducted the inspection or certification;
  - (iii) The operating conditions existing at the time of the activity;
  - (iv) Compliance status of each monitored requirement as described in Section V and VII of this permit; and
  - (v) Corrective action taken in response to permit deviations and/or complaints and when the action was initiated.
- (b) Complaints
  - (i) The date, and time of complaint;
  - (ii) Name of the complainant;
  - (iii) The nature of the complaint;
  - (iv) Date and time the follow-up inspection was conducted; and
  - (v) Corrective action taken in response to complaint and when the action was initiated.
- (c) Sampling and testing
  - (i) The date sampling was performed;
  - (ii) The entity that performed the sampling;
  - (iii) The analytical techniques used to take the sample;
  - (iv) The operating conditions existing at the time of sampling or measurement;
  - (v) The date analyses were performed;
  - (vi) The entity that performed the analyses;
  - (vii) The analytical techniques or methods used;
  - (viii) The results of such analyses;
  - (ix) Compliance status of each monitored requirement as described in Section V and VII of this permit; and
  - (x) Corrective action taken in response to permit deviations and when action was initiated.

- (d) Maintenance Activities
  - (i) The date, place and time of activity;
  - (ii) Who conducted the maintenance; and
  - (iii) A description of the maintenance conducted.
  
- (e) Upset Conditions/Excess Emissions
  - (i) The date and time of upset or excess emission;
  - (ii) Identification of the emissions unit involved;
  - (iii) A brief description of the event;
  - (iv) Duration of the event; and
  - (v) Anticipated corrective action to prevent or minimize excess emissions.
  
- (f) General recordkeeping (parameter logging requirements, etc)
  - (i) The date and time the data was collected (as applicable); and
  - (ii) The relevant parameters or data.

## IX. REPORTING REQUIREMENTS

All required reports must be certified by a responsible official consistent with WAC 173-401-520. Certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information contained in the submittal are true, accurate, and complete. Where an applicable requirement requires reporting more frequently than once every six months, the responsible official's certification need only be submitted once every six months, covering all required reporting since the date of the last certification.

Where a reporting schedule is specified (e.g. quarterly, semi-annual, or annual), compliance with the reporting frequency is met when reports are submitted more frequently than required.

Addresses of regulatory agencies are the following, unless otherwise instructed:

Southwest Clean Air Agency  
11815 NE 99<sup>th</sup> Street, Suite 1294  
Vancouver, WA 98682

US EPA Region 10  
1200 Sixth Avenue, MS AWT-107  
Seattle, WA 98101

### R1. Deviations from Permit Conditions

40 CFR 60.7(b) – [7/1/08]  
WAC 173-401-615(3)(b) - [10/17/02]  
SWCAA 400-107 – [9/21/95 SIP, 12/14/06 Local Only]  
ADP 05-2650 Conditions 27 and 28 – [2/2/06]

Excess emissions shall be reported as soon as possible. In accordance with SWCAA 400-107(1), excess emissions that the permittee wishes to be considered unavoidable must be reported as soon as possible, but no later than 48 hours after discovery. The permittee shall report the upset condition by telephone, e-mail or facsimile as initial notification to SWCAA; a message may be left on the answering machine for conditions outside of normal business hours.

Deviations from permit requirements shall be reported no later than thirty days after the end of the month during which the deviation is discovered. Deviations that represent a potential threat

to human health or safety shall be reported as soon as possible but no later than twelve hours after the deviation is discovered. Reports of deviations shall include:

- (a) Identification of the emission unit(s) involved;
- (b) The duration of the event including the beginning and end times; and
- (c) A brief description of the event, including:
  - (i) Whether or not the deviation was due to an upset condition;
  - (ii) The probable cause of the deviations; and
  - (iii) The corrective action taken and when the corrective action was initiated.

**R2. Complaint Reports**

WAC 173-401-615(3) - [10/17/02]

The permittee shall report all complaints to SWCAA within three business days of receipt. Complaint reports shall include the date and time of the complaint, the name of the complainant, and the nature of the complaint.

**R3. Semi-annual Reports**WAC 173-401-615(3) - [10/17/02]  
ADP 05-2650 Condition 26 – [2/2/06]

The permittee shall submit to SWCAA by September 15th and March 15th for the six month periods January through June and July through December, respectively, the following information:

- (a) A report on the status of all monitoring requirements of this permit, consistent with WAC 173-401-615(3). Any deviation from permit requirements shall be clearly identified.
- (b) Certification of any reports submitted during the semi-annual period that have not already been certified consistent with the provisions of WAC 173-401-520.
- (c) The permittee shall certify in each semi-annual report that only pipeline quality 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 is used as fuel for all permitted combustion units at the facility (excluding insignificant emission sources).
- (d) If permittee opts to demonstrate compliance with the NO<sub>x</sub> standard contained in 40 CFR 60.4320(a) by operation of a continuous monitoring system as described in 40 CFR 60.4345. The permittee shall submit a certification statement to SWCAA every six months that certifies that the quality assurance monitoring plan has been followed at all times or that exceptions have been reported. Any revision to the parameter monitoring plan must be reported with the semiannual report.
- (e) If permittee opts to demonstrate compliance with the NO<sub>x</sub> standard contained in 40 CFR 60.4320(a) by operation of a parameter monitoring plan as described in 40 CFR 60.4355. The permittee shall submit a certification statement to SWCAA every six months that certifies that the parameter monitoring plan has been followed at all times or that exceptions have been reported. Any revision to the parameter monitoring plan must be reported with the semiannual report.

- (f) Total hours of reciprocating engine operation at the nearest to the following four load and condition:

<u>Load</u>	<u>Torque(%)</u>	<u>RPM</u>
1	<85	<218
2	<85	≥218
3	≥85	<218
4	≥85	≥218

- (g) Hours of operation for the Taurus turbine including both hours of operation in low NO<sub>x</sub> mode and not in Low NO<sub>x</sub> mode.
- (h) Total hours of operation of each Centaur turbine.
- (i) The total hours of operation of the boiler and total hours of operation of the generator.
- (j) Hours of monitoring downtime for which the low NO<sub>x</sub> operating status of the Taurus turbine cannot be determined.
- (k) Air emissions for the engine, turbines, boiler, generator and line heater.

#### **R4. Annual Reports**

WAC 173-401-630(5) - [11/4/93], 40 CFR 60.11(g) [7/1/02]

The permittee shall submit to SWCAA and EPA certification of compliance with all terms and conditions of this permit in accordance with WAC 173-401-630(5)(d) for the period from January 1 to December 31 by April 15th of the following year. The certification shall include:

- (a) Identification of each term or condition of the permit that is the basis of the certification;
- (b) The compliance status;
- (c) Whether compliance was continuous or intermittent; and
- (d) The method(s) used to determine the compliance status.

When the permittee submits compliance certification for EU2, EU2 and EU4 all credible evidence must be considered as in accordance with 40 CFR 60.11(g).

#### **R5. Emission Inventory Reports**

WAC 173-400-105 - [9/20/93 SIP, 8/15/01 State Only]  
 SWCAA 400-105 - [9/21/95 SIP, 12/14/06 Local Only]  
 ADP 05-2650 Condition 26 – [2/2/06]

The permittee shall submit an inventory of annual emissions from the source each year to SWCAA by March 15th of the following year in accordance with SWCAA 400-105. The inventory shall include emissions of NO<sub>x</sub>, SO<sub>2</sub>, CO, VOCs, PM, HAPs and TAPs. Emissions shall be determined consistent with Section 6 of the Technical Support Document for ADP 05-2650.

**R6. Source Test Reports**WAC 173-401-615(3) - [9/15/01]  
ADP 05-2650 Condition 29 – [2/2/06]

Whenever source testing is required, the permittee shall submit test results to SWCAA within 45 days of test completion. SWCAA may approve an extension in writing if sufficient justification is provided to warrant an extension.

**R7. Centaur Turbine Relocation Reports**

ADP 05-2650 Condition 32 – [2/2/06]

Placement of or removal of the mobile Centaur turbines from the Chehalis Station shall be reported to SWCAA ten days prior to relocation at the facility or within ten days after removal from the facility. Notice shall include the date of the most recent source test and the serial number of the unit.

**X. NON-APPLICABLE REQUIREMENTS**

WAC 173-401-640(2) - [11/4/93]

The following table lists all federally, state, and/or locally enforceable requirements which might reasonably apply to the permittee, but are deemed nonapplicable after review by SWCAA.

**1. Registration program**WAC 173-400-099 - [2/10/05 State Only]  
SWCAA 400-100(2) - [9/21/95 SIP, 11/9/03 Local Only]

The permittee is an air operating permit source. Pursuant to WAC 173-400-101(7), air operating permit sources are exempt from the registration program established under WAC 173-400-099, and implemented in accordance with WAC 173-400-100 through WAC 173-400-104. Pursuant to SWCAA 400-100(1)(b) air operating permit sources are exempt from the registration requirements of SWCAA 400-100.

**2. Stationary Combustion Turbine MACT (Subpart YYYY)**

40 CFR 63.6080 – [7/1/08]

Subpart YYYY establishes HAP limits, testing, monitoring, recordkeeping and reporting requirements for turbines located at major HAP facilities. Lean premix gas-fired stationary combustion turbines constructed after January 14, 2003 must limit formaldehyde emissions to less than 91 ppbv at 15% O<sub>2</sub>. This facility is a major HAP facility. However, on August 18, 2004 EPA stayed the effectiveness of two subcategories: lean premix gas-fired turbines and diffusion flame gas-fired turbines. The turbines at this facility are lean premix gas-fired turbines therefore they are not subject to this subpart.

**3. Stationary Reciprocating Internal Combustion Engines (RICE) MACT (Subpart ZZZZ)**

40 CFR 63.6580 – [7/1/08]

Subpart ZZZZ is applicable to existing, new or reconstructed stationary reciprocating engines with a site-rating of more than 500 bph located at a major source of HAP emissions. Section 63.6590(b)(3) states that "A stationary RICE which is an existing spark ignition two-stroke lean burn (2SLB) stationary RICE.....does not have to meet the requirements of this subpart and of subpart A of this part. No initial notification is necessary." The reciprocating engine

at the Chehalis Compressor Station is an existing two-stroke lean burn stationary engine and was constructed before December 19, 2002 and is therefore not subject to this subpart.

#### **4. Chemical Accident Prevention Provision**

40 CFR 68– [7/1/08]

40 CFR 68 “Chemical Accident Prevention Provision” does not apply to Northwest Pipeline’s compressor stations because the compressor stations do not meet the definition of “stationary source”. Under 40 CFR 68 Subpart A, definitions, the regulations state under the term “Stationary Source” the following:“...The term stationary source does not apply to transportation, including storage incident to transportation, of any regulated substance or any other extremely hazardous substance under the provisions of this part. ...Transportation includes, but is not limited to, transportation subject to oversight or regulation under 49 CFR parts 192, 194, 195, or a state natural gas or hazardous liquid program for which the state has in effect a certification to DOT under 49 U.S.C. section 60105...” Northwest Pipeline is a natural gas transmission company, is currently regulated under 49 CFR part 192 and thus is not required to submit a risk management plan.

**APPENDIX A - VISIBLE EMISSION EVALUATION METHOD**1. Principle

The opacity of emissions from stationary sources is determined visually by a qualified observer.

2. Procedure

The observer must be certified in accordance with the provisions of Section 3 of 40 CFR Part 60, Appendix A, Method 9, as in effect on July 1, 2008.

2.1 Position

The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented in the 140° sector to his/her back. Consistent with maintaining the above requirement, the observer shall, as much as possible, make his/her observations from a position such that his/her line of vision is approximately perpendicular to the plume direction, and when observing opacity of emissions from rectangular outlets (e.g., roof monitors, open baghouses, noncircular stacks), approximately perpendicular to the longer axis of the outlet. The observer's line of sight should not include more than one plume at a time when multiple stacks are involved, and in any case, the observer should make his/her observations with his/her line of sight perpendicular to the longer axis of such a set of multiple stacks (e.g., stub stacks on baghouses).

2.2 Field Records

The observer shall record the name of the plant, emission location, type of facility, observer's name and affiliation, a sketch of the observer's position relative to the source, and the date on a field data sheet. The time, estimated distance to the emission location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), and plume background are recorded on a field data sheet at the time opacity readings are initiated and completed.

2.3 Observations

Opacity observations shall be made at the point of greatest opacity in that portion of the plume where condensed water vapor is not present. The observer shall not look continuously at the plume, but instead shall observe the plume momentarily at 15 second intervals.

### 2.3.1 Attached Steam Plumes

When condensed water vapor is present within the plume as it emerges from the emission outlet, opacity observations shall be made beyond the point in the plume at which condensed water vapor is no longer visible. The observer shall record the approximate distance from the emission outlet to the point in the plume at which the observations are made.

### 2.3.2 Detached Steam Plumes

When water vapor in the plume condenses and becomes visible at a distinct distance from the emission outlet, the opacity of emissions should be evaluated at the emission outlet prior to the condensation of water vapor and the formation of the steam plume.

### 2.4 Recording Observations

Opacity observations shall be recorded to the nearest 5 percent at 15 second intervals on a field data sheet. A minimum of 24 observations shall be recorded. Each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15 second period.

### 2.5 Data Reduction

The number of observation at each opacity level shall be determined and recorded on the field data sheet. Opacity shall be determined by the highest 13 observations in any consecutive 60-minute period. The opacity standard or emission limit is exceeded if there are more than 12 observations during any consecutive 60 minute period for which an opacity greater than the standard or emission limit is recorded. The opacity standard is a 1 hour standard (rolling 60 minutes). Only one violation of the standard per hour may be recorded meaning that a violation for any given consecutive 60 minute period may be recorded in substantially fewer than 60 minutes. No one hour time sets shall overlap for purpose of determining a violation or violations. Data used to establish a violation in one consecutive 60 minute period can not be used to establish a violation in a second consecutive 60 minute period. The opacity determination shall be recorded on the observational record sheet.

### 3. References

Federal Register, Vol. 36, No. 247, page 24895, December 23, 1971.

"Criteria for Smoke and Opacity Training School 1970 - 1971" Oregon-Washington Air quality Committee."

"Guidelines for Evaluation of Visible Emissions" EPA 340/1-75-007.

**APPENDIX B - EQUIVALENT SOURCE TEST METHOD**

Permittee may use an alternate source test method for formaldehyde testing provided the accuracy of the alternate test method has been demonstrated as follows:

1. Accuracy shall be verified by performing simultaneous tests of both EPA Method 320 and the alternate test method.
2. The testing shall consist of a minimum of three 60 minute test runs.
3. The testing shall be performed on a two cycle reciprocating engine equipped with CleanBurn™ technology rated between 2,000 and 10,000 horsepower.
4. The results of each of the three test runs shall agree within 20%.