

Air Operating Permit—Draft

Northwest Pipeline LLC Sumas Compressor Station

Sumas, Washington

May 8, 2019



Serving Island, Skagit & Whatcom Counties

PERMIT INFORMATION
NORTHWEST PIPELINE LLC, SUMAS COMPRESSOR STATION
4738 Jones Road, Sumas, WA 98295

SIC: 4922
NAICS: 486210

NWCAA ID: 1434-V-W
EPA ICIS ID:
WANCA0005307300031

Responsible Corporate Official

Robert Harmon
 Director, Operations North
 Northwest Pipeline LLC
 295 Chipeta Way
 Salt Lake City, Utah 84108
 (801) 584-6113

Corporate Inspection Contact

Tyson Green
 District Manager
 Northwest Pipeline LLC
 4738 Jones Road
 Sumas, WA 98295-9405
 (360) 594-2137

Northwest Clean Air Agency

1600 South Second Street
 Mount Vernon, WA 98273-5202
 (360) 428-1617

Prepared by

Jason Bouwman
 Chemist
 (360) 419-6851

Air Operating Permit Number:	Issuance Date:
007R3	DRAFT – May 8, 2019
Permit Modifications:	Modification Date:
Supersedes Permit Number:	Expiration Date:
007R2M1	DRAFT – May 8, 2024
Application Received Date:	Renewal Application Due:
April 18, 2016	DRAFT – May 8, 2023

ATTEST

This permit is issued in accordance with the provisions of Section 322 of the Regulation of the Northwest Clean Air Agency and the provisions of Chapter 173-401 Washington Administrative Code.

Pursuant to Section 322 of the Regulation of the Northwest Clean Air Agency and Chapter 173-401 Washington Administrative Code, Northwest Pipeline LLC – Sumas Compressor Station is authorized to operate subject to the terms and conditions of this permit.

Northwest Clean Air Agency Approval:

Date:

Jason Bouwman
Chemist

Date:

Agata McIntyre, P.E.
Engineering Manager

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SECTION 1 EMISSIONS UNIT IDENTIFICATION

Table 1-1 below lists emissions units and activities which are located at the Northwest Pipeline LLC natural gas compressor station located at 4738 Jones Road, Sumas, Washington, hereinafter referred to Northwest Pipeline LLC, NWP-SCS, the facility, or the permittee. The information presented in Section 1 is for informational purposes only.

Table 1-1 Emission Unit Identification

Unit/ Location	Source and Description	Control Equipment	Fuel Type	Maximum Fuel Rate, MMBtu/hr	Install Date
1/ A-Plant	Ingersoll-Rand 412KVS Reciprocating Engine, spark- ignited, four-stroke, lean burn	None	Natural Gas	18.07	1956
2/ A-Plant	Ingersoll-Rand 412KVS Reciprocating Engine, spark- ignited, four-stroke, lean burn	None	Natural Gas	18.07	1956
3/ A-Plant	Ingersoll-Rand 412KVS Reciprocating Engine, spark- ignited, four-stroke, lean burn	None	Natural Gas	18.07	1956
4/ A-Plant	Ingersoll-Rand 412KVS Reciprocating Engine, spark- ignited, four-stroke, lean burn	None	Natural Gas	18.07	1956
5/ B-Plant	Clark TCV-12 4000 hp Reciprocating Engine, spark- ignited, two-stroke, lean burn	None	Natural Gas	33.18	1966
6/ B-Plant	Clark TCV-12 4000 hp Reciprocating Engine, spark- ignited, two-stroke, lean burn	None	Natural Gas	33.18	1968
7/ C-Plant	Solar Mars 90S Gas Turbine	Dry low-NO _x control (SoLoNO _x)	Natural Gas	100.03 @ 59 °F	2003
8/ C-Plant	Solar Mars 90S Gas Turbine	Dry low-NO _x control (SoLoNO _x)	Natural Gas	100.03 @ 59 °F	2003*
9/ D-Plant	Solar Mars 90S Gas Turbine	Dry low-NO _x control (SoLoNO _x)	Natural Gas	100.03 @ 59 °F	2003
10/ D-Plant	Sellers C60 water heater/boiler	None	Natural Gas	2.5	2003
11/ A-Aux	Sellers C100 water heater/boiler	None	Natural Gas	4.2	1990

Unit/ Location	Source and Description	Control Equipment	Fuel Type	Maximum Fuel Rate, MMBtu/hr	Install Date
12/ C-Plant	Sellers C60 water heater/boiler	None	Natural gas	2.5	1993
13/ A-Aux	Cummins GTA 855, 335 hp, 250 kW emergency electrical generator	None	Natural Gas		1993
14/ D-Plant	Caterpillar-3408, 362 hp, 270 kW emergency electrical generator	Three-way catalytic converter	Natural Gas		2003
15/ C-Plant	Caterpillar-3412, 522 hp, 390 kW emergency electrical generator	None	Natural Gas		1993

*Note: Unit 8 replaced with identical turbine in June, 2004 due to bearing failure.

SECTION 2 STANDARD TERMS AND CONDITIONS

Standard terms and conditions are administrative and/or other requirements that typically have no ongoing compliance monitoring requirements. The permittee must comply with the requirements listed below. All terms and conditions of this permit are enforceable by the Environmental Protection Agency (EPA) Administrator and by citizens under the Federal Clean Air Act (FCAA), except for those terms and conditions designated in the permit as “State Only”. A requirement designated “State Only” is enforceable only by the state or the NWCAA, and not by EPA or through citizen suits. “State only” WAC citations are enforceable by the NWCAA because they are adopted by reference in NWCAA 104.1 as amended September 13, 2018. Unless the text of the term is specifically identified to be “Directly Enforceable”, the language of the cited regulation takes precedence over a paraphrased requirement. A permit condition labeled “Directly Enforceable” is a legal requirement, and the permit shield in condition 2.3.1 of this permit applies.

2.1 Compliance Requirements

2.1.1 Duty to Comply

2.1.1.1 WAC 173-401-620(2)(a) (11/4/93)

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of RCW 70.94 and, for federally enforceable provisions, a violation of the Federal Clean Air Act (FCAA). Such violations are grounds for enforcement action; for permit termination, revocation and re-issuance, or modification; or for denial of a permit renewal application.

2.1.1.2 State Only: NWCAA 322.3 (11/17/11)

It shall be unlawful for any person to operate a source that is subject to the requirements of chapter 173-401 WAC without complying with the provisions of chapter 173-401 WAC and any permit issued under its authority.

2.1.2 Civil and Criminal Penalties

2.1.2.1 WAC 173-400-230(2) (3/20/93), WAC 173-400-240 (3/22/91), NWCAA 131 (2/14/73), NWCAA 132 & 133 (10/13/94), and Section 113 of the FCAA

Any person who violates applicable regulations or aids and abets in a violation, as notified in accordance with this section, shall be subject to penalties.

2.1.2.2 State Only: NWCAA 131 (3/14/13), 132 (8/13/15) & 133 (8/13/15)

Any person who violates applicable regulations or aids and abets in a violation, as notified in accordance with this section, shall be subject to penalties.

2.1.2.3 WAC 173-400-250 (9/20/93) and NWCAA 133.2 (10/13/94) State Only: NWCAA 133.2 (8/13/15)

Penalties issued may be appealed to the pollution control hearings board within 30 days after notice is served.

2.1.3 Need to Halt or Reduce Activity Not a Defense

WAC 173-401-620(2)(b) (11/4/93)

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 terms and conditions of this permit.

2.1.4 Duty to Provide Information

WAC 173-401-620(2)(e) (11/4/93)

The permittee shall furnish to the NWCAA, within a reasonable time, any information that the NWCAA 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 NWCAA copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the EPA Administrator along with a claim of confidentiality. The NWCAA shall maintain confidentiality of such information in accordance with RCW 70.94.205 and the NWCAA Regulation.

2.1.5 Confidential Information

2.1.5.1 NWCAA 114.1 (4/14/93)

Whenever the permittee requests that records or information eligible for confidentiality status be made confidential by the Board of the NWCAA, the NWCAA shall maintain confidentiality of such information in accordance with NWCAA 114. The records or information shall be only for the confidential use of the Board, the Advisory Council, and the NWCAA staff, but may not be accessed if, in the opinion of the Board, there is a conflict of interest.

2.1.5.2 State Only: NWCAA 114 (11/8/07)

Whenever any records or other information other than ambient air quality data or emission data furnished to or obtained by the Agency, relates to processes or production unique to the owner or operator, or are likely to affect adversely the competitive position of such owner or operator if released to the public or to a competitor, and the owner or operator of such processes or production so certifies, such records or information shall be only for the confidential use of the NWCAA.

Nothing herein shall be construed to prevent the use of records or information by the NWCAA in compiling or publishing analyses or summaries relating to the general condition of the outdoor atmosphere: provided, that such analyses or summaries do not reveal any information otherwise confidential under the provisions of this section: provided further, that emission data furnished to or obtained by the Board shall be correlated with applicable emission limitations and other control measures and shall be available for public inspection during normal business hours at the office of the NWCAA.

2.1.6 Inspection and Entry

WAC 173-400-105(3) (9/20/93), WAC 173-401-630(2) (3/5/16), NWCAA 110 & 111 (1/8/69)

State Only: WAC 173-400-105(3) (11/25/18)

Upon presentation of credentials and other documents as may be required by law, the permittee shall allow Ecology, NWCAA or an authorized representative to:

- (i) Enter upon the permittee's premises where a chapter 401 source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- (ii) Have access to and copy, at reasonable times, any records that must be kept under the condition of the permit;
- (iii) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

- (iv) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

No person shall willfully interfere with or obstruct the Control Officer or any NWCAA employee and/or assigned agent in carrying out any lawful duty.

2.1.7 Investigation and Studies

NWCAA 110 (1/8/69)

The Control Officer and/or his qualified agents may make any reasonable investigation or study which is necessary for the purpose of standards or any amendments thereto on reducing the amount or kind of contaminant.

When investigating conditions specific to the control, recovery or release of air contaminants, the Control Officer or his duly authorized representatives shall have the power to enter at reasonable times upon any private or public property, except non-multiple unit private dwellings housing two families or less.

If an authorized employee of the Agency, during the course of an inspection desires to obtain a sample of air contaminant, he shall notify the owner or lessee of the time and place of obtaining a sample so the owner or lessee has the opportunity to take a similar sample at the same time and place. A receipt shall be given to the owner or lessee for the sample obtained.

2.1.8 Source Testing

2.1.8.1 WAC 173-400-105(4) (9/20/93)

To demonstrate compliance, Ecology or the NWCAA may conduct or require that a test be conducted of the source using approved EPA methods from 40 CFR 60 Appendix A which are adopted by reference, or approved procedures contained in the "Source Test Manual – Procedures for Compliance Testing," state of Washington, Department of Ecology, as of July 12, 1990, on file at Ecology. The operator of a source may be required to provide the necessary platform and sampling ports for Ecology personnel or others to perform a test of an emissions unit. Ecology shall be allowed to obtain a sample from any emissions unit. The operator of the source shall be given an opportunity to observe the sampling and to obtain a sample at the same time.

2.1.8.2 State Only: WAC 173-400-105(4) (11/25/18)

To demonstrate compliance, the required test must be conducted using approved EPA methods from 40 CFR Parts 51, 60, 61 and 63 (in effect on January 24, 2018) or procedures contained in "Source Test Manual – Procedures for Compliance Testing," state of Washington, department of ecology, as of September 20, 2004, on file at ecology. All other language is the same as 2.1.8.1.

2.1.8.3 State Only: NWCAA 367 and Appendix A (7/14/05)

Source tests required by NWCAA to assess compliance with an air emission standard shall be conducted according to the following provisions:

- (i) A source test plan shall be submitted to the NWCAA for approval for all compliance source tests at least 30 days prior to scheduled testing. A summary of the test shall accompany the test plan and be submitted on a template provided by the NWCAA.
- (ii) Once a test plan has been approved, any changes in test dates or methodology shall require NWCAA approval.
- (iii) Results of required source tests must be submitted within sixty days of completion of the test unless prior approval is granted by NWCAA.

2.1.9 Testing and Sampling

2.1.9.1 NWCAA 360.1 (2/14/73)

Any person operating or using any article, machine, equipment or other contrivance shall provide and maintain such sampling and testing facilities as specified in the Order of Approval to Construct or an Air Operating Permit.

2.1.9.2 State Only: NWCAA 367 and Appendix A (7/14/05)

All ambient monitoring, compliance testing, continuous monitoring systems and continuous opacity monitoring systems required by a regulation, order of approval or permit issued by the NWCAA shall comply with the applicable requirements of Section 367 and Appendix A of the NWCAA Regulation. The applicable requirements of Section 367 and Appendix A of the NWCAA Regulation are in addition to any monitoring, testing, calibration or quality assurance/quality control requirements that otherwise apply.

Any person operating an air operating permit source may, at any time, be required to monitor the ambient air, process emissions or conduct emission tests as deemed necessary by the Control Officer.

The Control Officer may take such samples and perform any tests and investigations deemed necessary to determine the accuracy of the monitoring reports and tests submitted to the Agency, and evaluate the validity of the data. The owner or operator may also be required by the Control Officer to take a sample using an approved procedure and submit the results thereof within a reasonable period of time.

Once initiated, a compliance test shall be completed unless interrupted by severe weather, test equipment failure or other conditions beyond control of the facility. Failure to complete a test shall be a violation of the requirement to test, and, in cases where the initial data indicate a non-compliance of the applicable emission standard, the results may be considered a violation of that standard.

2.1.10 Ambient Air and Continuous Emission Monitoring

2.1.10.1 NWCAA 365.1 (2/8/89)

Any person operating an air contaminant source or an air operating permit source may, at any time, be required to monitor the ambient air, process emissions or conduct emission tests as deemed necessary by the Control Officer under the following provisions:

The Board or Control Officer may require any person operating any source to conduct a monitoring program on site or adjacent off site for emissions, ambient air concentrations or any other pertinent special studies deemed necessary.

All monitoring data shall be submitted in a form which the Board or Control Officer may require. Averaging time and collection periods will be determined by the Control Officer. Failure to record and/or report data as specified in the "Guidelines for Industrial Monitoring Equipment and Data Handling" may be cause for a Notice of Violation to be issued.

All data and records shall be kept for a period of at least one year and made available to the Control Officer upon request.

All required continuous emission monitors or required opacity monitors used to monitor compliance and all instruments used for special studies must meet appropriate EPA performance specifications (40 CFR 60, Appendix B) and shall be calibrated and maintained in accordance with the "Guidelines for Industrial Monitoring Equipment and Data Handling" procedures approved by the Control Officer.

The Control Officer may take such samples and make any tests and investigations deemed necessary to determine the accuracy of the monitoring reports and tests submitted to the

NWCAA, and evaluate the validity of the data. The owner or operator may also be required by the Control Officer to take a sample using an approved procedure and submit the results thereof within a reasonable period of time.

The Board or the Control Officer may require additional reasonable monitoring be undertaken at any appropriate time to insure compliance with the NWCAA Regulation.

2.1.10.2 State Only: NWCAA 367 and Appendix A (7/14/05)

All ambient air monitors shall be operated and maintained as required by the appropriate Sections of 40 CFR Parts 50 and 58.

A Quality Assurance (QA) manual and station log book shall be kept for all stations. Written calibration and precision/span check procedures shall be included in the QA manual. A station audit shall be conducted by the NWCAA at least once per year.

Unless subject to acid rain regulations (40 CFR Part 72 and 75), all continuous emissions monitoring systems (CEMS) shall be capable of meeting appropriate EPA performance specifications using procedures outlined in 40 CFR Part 60 Appendix B. CEMS subject to acid rain regulations shall be capable of meeting the specifications outlined in the appropriate section of 40 CFR Part 75.

All CEMS shall be operated in accordance with the appropriate section of 40 CFR Part 60 Appendix F, and the operator shall assess the operation of each CEMS daily.

Continuous opacity monitors shall be maintained according to “Recommended Quality Assurance Procedures for Opacity Continuous Monitoring Systems” (EPA 340/1-86-10) and the manufacturer’s procedures. All gaseous CEMS shall be maintained using the QA criteria of 40 CFR Part 60 Appendix F and the manufacturer’s procedures.

Auditing of opacity monitors shall be conducted according to recommended procedures. Data accuracy assessments shall be conducted at least once every calendar quarter for gaseous monitors and at appropriate periodic intervals. Relative Accuracy Test Audits (RATAs), Relative Accuracy Audits (RAAs) and Cylinder Gas Audits (CGAs) shall be employed as described in 40 CFR Part 60 (or 40 CFR Part 75 if the facility is subject to acid rain regulations).

Strip charts and approved data acquisition systems shall be used to capture and store data. All data must be retained for a period of at least five years and be available to the NWCAA upon request.

CEMS are required to maintain greater than 90% data availability on a monthly basis. A supplemental report shall be submitted if during any calendar month a CEMS fails to produce 90% data availability stating the reasons for the low data availability.

The following data shall be submitted to the NWCAA on a monthly basis or according to the applicable standard:

- (i) Time, date, magnitude, and cause of all emissions or temperatures which exceed the applicable standard(s).
- (ii) The cause and time periods of any bypass of the air pollution control equipment.
- (iii) The cause and time periods of CEM downtime not associated with routine QA or maintenance operations.
- (iv) Data availability for each CEM, listed by unit and parameter.
- (v) Supplemental report for system with $\leq 90\%$ monthly data availability.
- (vi) Other data or information as required by the Control Officer.

2.1.11 Credible Evidence

40 CFR 51.212(c) (2/24/97), 40 CFR 52.12 (2/24/97), and 40 CFR 52.33 (2/24/97)

For the purpose of compliance certifications or establishing whether or not a person has violated or is in violation of this permit, nothing shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.

2.2 Permit Terms

2.2.1 Permit Expiration and Renewal

WAC 173-401-610 (11/4/93) and WAC 173-401-710 (10/17/02)

This permit is issued for a fixed term of five years from date of issuance. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted. A complete permit renewal application shall be submitted to the NWCAA no later than the date established in the permit.

2.2.2 Permit Actions

WAC 173-401-620(2)(c) (11/4/93)

This permit may be modified, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

2.2.3 Emissions Trading

WAC 173-401-620(2)(g) (11/4/93)

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.

2.2.4 Emission Reduction Credits

State Only: WAC 173-400-131 (4/1/11), WAC 173-400-136 (12/29/12)

An emission reduction credit may be issued and used in accordance with the applicable regulations listed above.

2.2.5 Severability

WAC 173-401-620(2)(h) (11/4/93)

If any provision of this permit is held to be invalid, all unaffected provisions of the permit shall remain in effect and be enforceable.

2.2.6 Permit Appeals

WAC 173-401-620(2)(i) (11/4/93), WAC 173-401-735 (5/3/97)

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 NWCAA within thirty days of receipt. This provision for appeal is separate from and in addition to any federal rights to petition and review under section 505(b) of the FCAA.

2.2.7 Permit Continuation

WAC 173-401-620(2)(j) (11/4/93)

This permit and all terms and conditions contained therein, including any permit shield provided under WAC 173-401-640, shall not expire until the renewal permit has been issued or denied if a timely and complete application has been submitted. 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.

2.2.8 Reopening for Cause

WAC 173-401-730 (11/4/93)

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

- (i) Additional requirements become applicable to the source with a remaining permit term of three or more years. Such a reopening shall be completed not later than eighteen 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);
- (ii) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the EPA Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit;
- (iii) The NWCAA or the EPA 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
- (iv) The NWCAA or the EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

2.2.9 Changes not Requiring Permit Revisions/Off-Permit Changes

WAC 173-401-722 (10/17/02), WAC 173-401-724 (3/5/16)

The permittee may make the changes described in WAC 173-401-722 and WAC 173-401-724 without revising this permit, provided that the changes satisfy the criteria set forth in those sections.

2.2.10 Permit Modifications

WAC 173-401-720 (11/4/93), WAC 173-401-725 (11/4/93)

This permit may be revised as provided in WAC 173-401-720 (administrative permit amendments) and 173-401-725 (permit modifications).

2.2.11 Property Rights

WAC 173-401-620(2)(d) (11/4/93)

This permit does not convey any property rights of any sort, or any exclusive privilege.

2.2.12 Definitions

2.2.12.1 NWCAA 200 (10/13/94)

Particular references to terms not otherwise defined in this permit or the associated Statement of Basis have the meaning assigned to them in the specific regulation being cited. The terms

NWCAA, Ecology, and EPA shall mean the Northwest Clean Air Agency, the Washington State Department of Ecology, and the United States Environmental Protection Agency, respectively. FCAA means the Federal Clean Air Act.

2.2.12.2 State Only: NWCAA 200 (9/13/18)

In the new version of the NWCAA Regulation some of the definitions have been modified slightly to provide clarification and some have been revised to include an expanded definition of the term.

2.2.13 Compliance Schedule

WAC 173-401-630(3) (3/5/16), WAC 173-401-510(2)(h)(iii) (3/5/16)

The permittee shall continue to comply with all applicable requirements with which the source was in compliance as of the date of permit issuance. The permittee shall meet on a timely basis any applicable requirements that become effective during the permit term.

2.2.14 Permit Fees

2.2.14.1 WAC 173-401-620(2)(f) (11/4/93)

The permittee shall pay fees as a condition of this permit in accordance with the NWCAA fee schedule.

2.2.14.2 State Only: NWCAA 322.4 (11/17/11)

The NWCAA shall assess and collect annual air operating permit fees for sources in its jurisdiction that are required to have Title V Air Operating Permits (excluding sources regulated by WDOE directly). The total fees required to administer the program shall be determined by a workload analysis conducted by NWCAA staff and approved annually by the NWCAA Board of Directors.

2.2.15 Transfer or Permanent Shutdown

2.2.15.1 NWCAA 325 (2/14/73)

Approval to construct a stationary source is not to be transferable from one location to another (outside the plant boundary), from one piece of equipment to another, or from one person to another, except portable sources may retain the same registration so long as they remain within the jurisdiction of the NWCAA.

2.2.15.2 State Only: NWCAA 325 (11/8/07)

Approval to construct a stationary source is not to be transferable from one location to another (outside the plant boundary), from one piece of equipment to another, or from one person to another, except portable sources may retain the same registration so long as they remain within the jurisdiction of the NWCAA and they comply with NWCAA 300 and 301.

The registered owner or operator shall report the transfer of ownership or permanent shutdown of a registered source to the NWCAA within ninety (90) days of shutdown or transfer. The new owner of a registered source shall file a written report with the NWCAA within ninety (90) days of completing transfer of ownership and/or assuming operational control.

In the case of a permanent shutdown, process and pollution control equipment may remain in place and on site, but shall be rendered incapable of generating emissions to the atmosphere.

2.3 Permit Shield

2.3.1 Shield Requirement

WAC 173-401-640(1) (11/4/93)

Compliance with a permit condition shall be deemed compliance with the applicable requirements upon which that condition is based, as of the date of permit issuance. The permit shield does not apply to any insignificant emissions unit or activity so designated under WAC 173-401-530.

2.3.2 Inapplicable Requirements

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

As of the date of permit issuance, the requirements listed in the Inapplicable Requirements section of this permit do not apply to the permittee. The permit shield applies to all requirements so identified.

2.3.3 Exclusions

WAC 173-401-640(4) (11/4/93)

Nothing in this section or in this permit shall alter or affect the following:

- (i) Provisions of Section 303 of the FCAA (emergency orders), including the authority of the EPA Administrator under that section;
- (ii) Liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- (iii) Ability of EPA to obtain information from a source pursuant to Section 114 of the FCAA; or
- (iv) Ability of the permitting authority to establish or revise requirements for the use of reasonably available control technology (RACT) as provided in RCW 70.94.154.

2.3.4 Reasonably Available Control Technology

2.3.4.1 WAC 173-401-605(3) (11/4/93)

Emission standards and other requirements contained in rules or regulatory orders in effect at the time of operating permit issuance shall be considered RACT for purposes of permit issuance or renewal.

2.3.4.2 WAC 173-400-040 (9/20/93)

All emissions units are required to use RACT which may be determined for some sources or source categories to be more stringent than the applicable emission limitations of any chapter of Title 173 WAC. Where current controls are determined to be less than RACT, Ecology or the NWCAA shall, as provided in section 8, chapter 252, Laws of 1993, define RACT for each source or source category and issue a rule or regulatory order requiring the installation of RACT.

2.3.4.3 State Only: WAC 173-400-040(1) (9/16/18)

All emissions units are required to use RACT which may be determined for some sources or source categories to be more stringent than the applicable emission limitations of any chapter of Title 173 WAC. Where current controls are determined to be less than RACT, the permitting authority shall, as provided in RCW 70.94.154, define RACT for each source or source category and issue a rule or regulatory order requiring the installation of RACT.

2.3.4.4 State Only: NWCAA 309 (10/8/15)

Reasonably Available Control Technology (RACT) is required for all existing sources except as otherwise provided in RCW 70.94.331(9). Where current controls are determined by the NWCAA to be less than RACT, the NWCAA shall define RACT for that source or source category and issue a rule or an order under NWCAA 121 requiring the installation of RACT. Emission standards and other requirements contained in rules or regulatory orders in effect at the time of operating permit issuance shall be considered RACT for purposes of operating permit issuance or renewal.

2.3.5 **Emergencies**

WAC 173-401-645 (11/4/93)

An emergency, as defined in WAC 173-401-645(1), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if conditions of WAC 173-401-645 (3) and (4) are met. This provision is in addition to the affirmative defense for unavoidable excess emissions found in any applicable requirement.

The permittee shall submit a notice of emergency to the NWCAA within two working days of the time when the emission limitation was exceeded due to an emergency or shorter periods of time specified in an applicable requirement.

2.4 **Recordkeeping and Reporting**

2.4.1 **Compliance Certification**

2.4.1.1 WAC 173-401-630(5) (3/5/16)

The permittee shall submit ongoing certifications of compliance with permit terms and conditions. The first such certification shall cover the period from the last compliance certification until issuance of this permit. The following compliance certification shall cover the period from permit issuance to the end of the calendar year. Subsequent compliance certifications shall be made on a yearly basis. Each certification shall include:

- (i) Identification of each term and condition of the permit that is the basis of the certification;
- (ii) Compliance status;
- (iii) Whether the compliance was continuous or intermittent;
- (iv) Methods used for determining the compliance status of the source, currently and over the reporting period. These methods must be consistent with the permit Monitoring, Recordkeeping, and Reporting requirements.

All compliance certifications shall be submitted to EPA Region 10 and the Northwest Clean Air Agency at the following addresses by February 28 for the previous calendar year:

U.S. EPA, Region 10, Office of Air & Waste
Mail Stop: OCE-101
Attn: Part 70 Operating Permit Program
1200 Sixth Avenue, Suite 155
Seattle, WA 98101-3140

Northwest Clean Air Agency
Attn: Air Operating Permits
1600 South Second Street
Mount Vernon, WA 98273-5202

2.4.1.2 WAC 173-401-520 (11/4/93)

Any application form, report or compliance certification that is submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this permit shall state that, based on

information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

2.4.1.3 WAC 173-401-615 (10/17/02) and -630 (3/5/16)
Directly enforceable under WAC 173-401-615(1)(b) & (c) (10/17/02)

All required monitoring reports must be certified by a responsible official consistent with WAC 173-401-520. Where an applicable requirement requires reporting more frequently than once every six months, the responsible official's certification need only to be submitted once every six months, covering all required reporting since the date of the last certification, provided that the certification specifically identifies all documents subject to the certification.

The semiannual certifications shall cover the calendar months of January through June, and July through December.

2.4.1.4 WAC 173-401-530(2)(d) (10/17/02)

Where a permit does not require testing, monitoring, recordkeeping and reporting for insignificant emissions units or activities, the permittee may certify continuous compliance if there were no observed, documented, or known instances of noncompliance of an insignificant emission unit during the reporting period. Where an underlying OAC requires testing, monitoring, recordkeeping and reporting for insignificant emission units or activities, the permittee may certify continuous compliance when the testing, monitoring and recordkeeping required by the permit revealed no violations during the period, and there were no observed, documented or known instances of noncompliance during the reporting period.

2.4.2 False and Misleading Oral Statement: Unlawful Reproduction or Alteration of Documents

2.4.2.1 NWCAA 112 (2/14/73)

No person shall willfully make a false or misleading oral statement to the Board as to any matter within the jurisdiction of the Board.

No person shall reproduce or alter or cause to be reproduced or altered any order or other paper issued by the Agency if the purpose of such reproduction or alteration is to evade or violate any provision or Regulation of this Agency, or any other law.

2.4.2.2 State Only: NWCAA 112 (11/12/99)

No person shall willfully make a false or misleading oral statement to the NWCAA Board, Control Officer, or their duly authorized representatives as to any matter within the jurisdiction of the Board.

No person shall reproduce or alter or cause to be reproduced or altered any order or other paper issued by the NWCAA if the purpose of such reproduction or alteration is to evade or violate any provision or Regulation of the NWCAA, or any other law.

2.4.3 Required Recordkeeping

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

Records of required monitoring information shall include, where applicable, the following:

- (i) Date, time, and location of sampling or measurements;
- (ii) Operating conditions existing at the time of sampling or measurement; and
- (iii) If analyses were performed, the date, company or entity performing the analyses, the analytical techniques or methods used, and the results of such analyses.

A record shall be kept describing changes made that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

Records of all required monitoring data and support information shall be retained for a period of five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

*2.4.3.2 WAC 173-401-615 (10/17/02) and -630 (3/5/16)
Directly enforceable under WAC 173-401-615(1)(b) & (c) (10/17/02)*

Monitoring and associated recordkeeping are not required when an emission unit is not operating and there are no emissions to the atmosphere unless such monitoring is specifically required by the NWCAA. The facility must record the time periods that a unit is shut down and not monitored, and include the time periods and a summary of why the emission unit was shut down in the periodic report of monitoring required by WAC 173-401-615(3)(a).

2.4.4 Pollutant Disclosure - Reporting by Air Contaminant Sources

2.4.4.1 NWCAA 150 (9/8/93), WAC 173-400-105(1) (9/20/93)

The permittee shall file annually at a time determined by the NWCAA and on forms furnished by the NWCAA a report setting forth:

- (i) The nature of the enterprise;
- (ii) A list of process materials which are potentially significant sources of emissions used in, and incidental to, its manufacturing processes, including any by-products and waste products;
- (iii) An estimated annual total production of wastes discharged into the air in units and contaminants designated by the NWCAA that may include stack and fugitive emissions of particulate matter, PM₁₀, sulfur dioxide, carbon monoxide, total reduced sulfur compounds (TRS), fluorides, lead, VOCs, and other contaminants.

Annual emission reports shall be submitted to the NWCAA within 105 days after the end of the previous calendar year. If the emission report is not submitted by the required date and the emissions are used to determine operating permit fees as described in NWCAA 324.126 then potential to emit will be used to determine said fees.

The permittee shall maintain records of information necessary to substantiate any reported emissions, consistent with the averaging times for the applicable standards.

2.4.4.2 State Only: WAC 173-400-105(1) (11/25/18)

In addition to the requirements of 2.4.4.1, the permittee shall report PM_{2.5}, oxides of nitrogen, and ammonia on forms available from the NWCAA or Ecology. Emission estimates may be based on the most recent published EPA emission factors or other information available to the source, whichever is the better estimate.

2.4.4.3 State Only: NWCAA 150 (11/8/07)

Annual emission reports shall be submitted to the NWCAA no later than April 15 of the following calendar year. If the emission report is not submitted by the required date and the emissions are used to determine operating permit fees as described in NWCAA Regulation 322.4, then potential to emit may be used to determine said fees.

2.4.5 Greenhouse Gas (GHG) Reporting

2.4.5.1 State Only: WAC 173-441-030(1), (2), (4), and (5) (3/1/15)

GHG reporting is mandatory for:

- (i) An owner or operator of any facility listed in WAC 173-441-120 that emits ten thousand metric tons CO₂e or more per calendar year in total GHG emissions as calculated according to WAC 173-441-030(1)(b).
- (ii) Any supplier that supplies applicable fuels that are reported to DOL as sold in Washington state of which the complete combustion or oxidation would result in total calendar year emissions of ten thousand metric tons or more of carbon dioxide as calculated according to WAC 173-441-030(2)(b).

A person may choose to voluntarily report to Ecology GHG emissions that are not required to be reported under WAC 173-441-030(1) or (2). Persons voluntarily reporting GHG emissions must use the methods established in WAC 173-441-120(3) and 173-441-130 to calculate any voluntarily reported GHG emissions.

Once a facility or supplier is subject to the requirements of this chapter, the person must continue for each year thereafter to comply with all requirements of this chapter, including the requirement to submit annual GHG reports, even if the facility or supplier does not meet the applicability requirements in WAC 173-441-030(1) or (2) of this section in a future year, except as provided in WAC 173-441-030(5)(a)-(c).

2.4.5.2 State Only: WAC 173-441-050 (10/16/16)

Follow the procedures for emission calculation, monitoring, quality assurance, missing data, recordkeeping, and reporting that are specified in each relevant section of WAC 173-441.

Beginning calendar year 2012 for existing facilities or suppliers, the annual GHG report shall contain the information required per WAC 173-441-050(3) and (4) and be submitted to Ecology no later than:

- (i) March 31st of each calendar year for GHG emissions in the previous calendar year if the facility is required to report GHG emissions to the U.S. EPA per 40 CFR 98.
- (ii) October 31st of each calendar year for GHG emissions in the previous calendar year if the facility is not required to report GHG emissions to the U.S. EPA per 40 CFR Part 98.

For any facility or supplier that becomes subject to this rule because of a physical or operational change that is made after January 1, 2012, report emissions for the first calendar year in which the change occurs according to WAC 173-441-050(2)(b)(iii)(A) through (C).

Retain all required records for at least three years in a form that is suitable for expeditious inspection and review, including a GHG monitoring plan per WAC 173-441-050(6)(e).

Note: Under WAC 173-401-615(2), records of required monitoring data and support information shall be retained for a period of five years from the date of the monitoring sample, measurement, report, or application.

2.4.5.3 State Only: WAC 173-441-060 and -070 (3/1/15)

Each such submission shall be signed by a representative designated in accordance with WAC 173-441-060 and 40 CFR 3.10 as adopted on October 13, 2005 and shall include the following certification statement signed by the designated representative or any alternate designated representative:

"I am authorized to make this submission on behalf of the owners and operators of the facility or supplier, as applicable, for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and

information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

Each GHG report and certificate of representation for a facility or supplier must be submitted electronically in accordance with the requirements of WAC 173-441-050 and 173-441-060 and in a format specified by Ecology.

2.4.5.4 State Only: WAC 173-441-100 (3/1/15)

All requests, notifications, and communications to Ecology pursuant to this chapter, must be submitted in a format as specified by Ecology to either of the following:

- (i) Greenhouse Gas Report, Air Quality Program
Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600
- (ii) ghgreporting@ecy.wa.gov

2.4.6 Reporting to Verify Emissions from Potential PSD Sources

State Only: WAC 173-400-720(4)(b)(iii) (7/1/16)

The owner or operator shall monitor the emissions of any regulated pollutants from all projects for which PSD applicability was determined according to the provisions of 40 CFR 52.21(b)(41)(ii)(a) through (c), and calculate and maintain a record of annual emissions on a calendar year basis.

The owner or operator shall submit a report to NWCAA within 60 days after the end of the year during which records must be generated under paragraph 40 CFR 52.21 (r)(6)(iii) setting out the unit's annual emissions, as monitored pursuant to 40 CFR 52.21 (r)(6)(iii), during the calendar year that preceded submission of the report. The report shall include the emissions in tons per year for the project, the baseline actual emissions and the pre-construction projected emissions.

2.4.7 Reporting of Deviations from Permit Conditions

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

Directly enforceable under WAC 173-401-615(1)(b) & (c) (10/17/02)

Prompt Reporting of Deviations: The permittee shall promptly report all deviations from permit requirements, including those attributable to upset conditions as defined in this permit. The report shall include a description of the probable cause of such deviations, if known, and any corrective actions or preventive measures taken. Prompt means reporting according to the shortest time period listed below which applies to the situation:

- (i) In the case where the deviation represents a potential threat to human health or safety "prompt" means as soon as possible, but in no case later than twelve hours after the deviation is discovered. A follow up report on the deviation shall be included in the next monthly report.
- (ii) For all other deviations, the deviation shall be reported as part of the next routine monitoring report, but no later than 30 days after the end of the month during which the deviation is discovered, whichever is sooner.

2.4.8 Report of Breakdown and Upset

2.4.8.1 NWCAA 340.1, 340.2 and 340.3 (10/13/94)

If a breakdown or upset condition occurs which results in or may have resulted in an emission and/or ambient air quality standard being exceeded, the owner or operator of the source shall take the following actions:

- (i) The upset or breakdown shall be reported as promptly as possible and in no event later than twelve (12) hours to the NWCAA.
- (ii) The person responsible shall, upon the request of the Control Officer, submit a full report within ten (10) days including the known causes, corrective measures taken, and preventive measures to be taken to minimize or eliminate a recurrence.

Compliance with the requirements of this section does not relieve the owner or operator of the source from the responsibility to maintain continuous compliance with all the requirements of the NWCAA Regulation nor from the resulting liabilities for failure to comply.

It shall be prima facie evidence of violation of the NWCAA Regulation if any control equipment or other equipment creating emissions to the atmosphere is turned off, broken down or otherwise inoperative, and a notice of breakdown has not been filed under NWCAA 340.1.

2.4.8.2 State Only: NWCAA 340.1, 340.2 and 340.3 (11/8/07)

If a breakdown or upset condition occurs which results in or may have resulted in an exceedance of an emission and/or ambient air quality standard, the owner or operator of the source shall take the following actions:

- (i) The upset or breakdown shall be reported as promptly as possible and in no event later than twelve (12) hours to the NWCAA.
- (ii) The responsible official or his designee shall submit a full report on forms provided by the NWCAA within 30 days after the end of a calendar month in which the upset occurred and must include as a minimum the known causes, corrective action taken, preventive measures put in place to reduce the possibility of or eliminate a recurrence, and an estimate of the quantity of emissions above the applicable limit caused by the event.

In addition to the reporting requirements of the 10/13/94 version of NWCAA 340, the permittee must also report to the NWCAA if the emission release to the air requires agency notification as specified in 40 CFR 302 (CERCLA) or 40 CFR 355 (SARA).

It shall be prima facie evidence of violation of the NWCAA Regulation if:

- (i) any control equipment is turned off, broken down or otherwise inoperative, and a notice of breakdown has not been filed under Section 340.1, or
- (ii) any other equipment creates new or increased emissions to the atmosphere as the result of being turned off, broken down or otherwise inoperative, and a notice of breakdown has not been filed under NWCAA 340.1.

2.4.9 Report of Shutdown or Startup

2.4.9.1 NWCAA 341 (9/8/93)

If the permittee schedules a total or partial shutdown or startup of control or process equipment which may result in emissions or any additional emissions to the atmosphere which may temporarily exceed the emission standards of this Regulation, the permittee shall notify the NWCAA prior to the shutdown or startup.

Prompt notification shall be made and in no event less than 24 hours before the scheduled shutdown or startup. The permittee shall submit a general schedule of steps to be taken to

minimize the release of air contaminants to the atmosphere including the reasons for and duration of the proposed shutdown or startup, the nature of the action to be taken, the date and time for the action and an estimate of the anticipated rate and concentration of emission.

Compliance with the requirements of this section does not relieve the owner or operator of the source from the responsibility to maintain continuous compliance with the requirements of this Regulation nor from the resulting liabilities for failure to comply.

2.4.9.2 State Only: NWCAA 341 (7/14/05)

If the permittee schedules a total or partial shutdown or startup of control or process equipment that the source reasonably believes would result in emissions which may temporarily exceed an emission standard of this Regulation, the operator or owner of the source shall notify the NWCAA in advance of the shutdown or startup.

The advanced notification shall include a general schedule of steps to be taken to minimize the release of air contaminants to the atmosphere including the reasons for and duration of the proposed shutdown or startup, the nature of the action to be taken, the date and time for the action and an estimate of the anticipated rate and concentration of emission.

Compliance with the requirements of this section does not relieve the owner or operator of the source from the responsibility to maintain continuous compliance with the requirements of this Regulation nor from the resulting liabilities for failure to comply.

Excess emissions due to shutdown or startup shall be considered unavoidable, and not subject to penalty, provided the stationary source adequately demonstrates that the excess emissions could not have been prevented through careful planning and design, the emissions did not result in a violation of an ambient air quality standard and if a bypass of control equipment occurs, that such bypass is necessary to prevent loss of life, personal injury, or severe property damage.

The responsible official or their designee shall submit a full report no later than 30 days after the end of the calendar month in which the shutdown or startup occurred that resulted in an exceedance of an ambient or emission standard of this Regulation. The report shall be submitted on forms provided by the NWCAA and must include, at minimum, the known causes, corrective action taken, preventive measures put in place to reduce the possibility of or eliminate a recurrence, and an estimate of the quantity of emissions above the applicable limit caused by the event.

2.4.10 Operation and Maintenance

2.4.10.1 NWCAA 342 (9/8/93)

Keep all process and/or air pollution control equipment in good operating condition and repair. If a breakdown or upset condition occurs and is determined by the Control Officer to be due to poor operating and maintenance procedures, the Control Officer may take any legal steps necessary to prevent a recurrence of the breakdown or upset condition.

Operation and maintenance instructions and schedules for process and/or control equipment must be available and may be required to be posted on the site. This section is specifically applicable to the operation of equipment where untrained personnel may operate or otherwise have access to or use the equipment.

If a breakdown or violation occurs and is due to the improper operation or maintenance of equipment, the owner or operator of the source will, in addition to filing a report of breakdown under NWCAA 340, submit a report if requested by the Control Officer on what measures will be taken in training or re-orienting personnel to prevent a recurrence of the breakdown.

2.4.10.2 State Only: NWCAA 342 (7/14/05)

All air contaminant stationary sources are required to keep any process and/or air pollution control equipment in good operating condition and repair.

Operating instructions and maintenance schedules for process and/or control equipment must be available on site.

2.5 Excess Emissions

2.5.1 Excess Emission

WAC 173-400-107 (9/20/93) (State Only - 9/16/18)

The permittee shall have the burden of proving to Ecology or the NWCAA or the decision-making authority in an enforcement action that excess emissions were unavoidable. Excess emissions determined to be unavoidable under the procedures and criteria of this section shall be excused and not subject to penalty.

Excess emissions which represent a potential threat to human health or safety or which the owner or operator of the source believes to be unavoidable shall be reported to the NWCAA as soon as possible. Other excess emissions shall be reported within thirty days after the end of the month during which the event occurred or as part of the routine emission monitoring reports. Upon request by Ecology or the NWCAA, the permittee shall submit a full written report including the known causes, the corrective actions taken, and the preventive measures to be taken to minimize or eliminate the chance of recurrence.

Excess emissions due to startup or shutdown conditions shall be considered unavoidable provided the source reports as required and adequately demonstrates that the excess emissions could not have been prevented through careful planning and design and if a bypass of control equipment occurs, that such bypass is necessary to prevent loss of life, personal injury, or severe property damage.

Excess emissions due to scheduled maintenance shall be considered unavoidable provided the source reports as required and adequately demonstrates that the excess emissions could not have been prevented through reasonable design, better scheduling for maintenance or through better operation and maintenance practices.

Excess emissions due to upsets shall be considered unavoidable provided the source reports as required and adequately demonstrates that:

- (i) The event was not caused by poor or inadequate design, operation, maintenance, or any other reasonably preventable condition;
- (ii) The event was not of a recurring pattern indicative of inadequate design, operation, or maintenance; and
- (iii) The permittee 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.

2.5.2 Excess Emissions Due to Breakdowns, Upsets, Startup, or Shutdown

State Only: NWCAA 340.4 (11/8/07) and 341.4 (7/14/05)

Excess emissions due to breakdowns and upsets shall be considered unavoidable, and not subject to penalty, provided the stationary source adequately demonstrates that:

- (i) The event was not caused by poor or inadequate design, operation, maintenance, or any other reasonably preventable condition;
- (ii) The event was not of a recurring pattern indicative of inadequate design, operation, or maintenance;
- (iii) The operator took immediate and appropriate corrective action in a manner consistent with good air pollution control practice; and
- (iv) The emissions did not result in a violation of an ambient air quality standard.

Excess emissions due to shutdown or startup shall be considered unavoidable, and not subject to penalty, provided the stationary source adequately demonstrates that the excess emissions could not have been prevented through careful planning and design, the emissions did not result in a violation of an ambient air quality standard and if a bypass of control equipment occurs, that such bypass is necessary to prevent loss of life, personal injury, or severe property damage.

2.6 Duty to Supplement or Correct Information

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

Upon becoming aware that the source failed to submit any relevant facts in a permit application or that information submitted in a permit application is incorrect, the source shall promptly submit such supplementary facts or corrected information.

2.7 Prohibitions

2.7.1 Concealment and Masking

2.7.1.1 WAC 173-400-040(7) (9/20/93) and State Only: WAC 173-400-040(8) (9/16/18)

No person shall cause or permit the installation or use of any means which conceals or masks an emission of an air contaminant which would otherwise violate any provisions of this chapter.

2.7.1.2 State Only: NWCAA 540 (1/8/69)

It shall be unlawful for any person to willfully cause or permit the installation or use of any device or use of any means which, without resulting in a reduction in the total amount of air contaminant emitted, conceals an emission of air contaminant which would otherwise violate the emission standards of this Regulation.

It shall be unlawful for any person to cause or permit the installation or use of any device or use of any means designed to mask the emission of an air contaminant, which causes detriment to health, safety, or welfare of any person.

2.7.2 Adjustment for Atmospheric Conditions

WAC 173-400-205 (3/22/91)

The permittee shall not vary the rate of emission of a pollutant according to atmospheric conditions or ambient concentrations of that pollutant except as directed according to air pollution episode regulations.

2.7.3 Outdoor Burning

2.7.3.1 WAC 173-425-036 (10/18/90) and WAC 173-425-045 (1/3/89), WAC 173-435-050(2) (01/3/89) Although SIP-Approved, WAC 173-425-036, -045, and -055 (referenced below) have been repealed.

No person shall conduct outdoor burning during an air pollution episode or a declared period of impaired air quality. Except as provided in WAC 173-425-055, the following materials shall not be burned in any open fire: (1) garbage, (2) dead animals, (3) asphaltic products, (4) waste petroleum products, (5) paints, (6) rubber products, (7) plastics, (8) treated wood, and (9) any substance, other than natural vegetation, which normally emits dense smoke or obnoxious odors.

2.7.3.2 State Only: WAC 173-425-040, 050, and 060 (4/13/00), NWCAA 502 (9/11/14)

No person shall conduct outdoor burning except in accordance with the applicable regulations listed above. Outdoor burning shall be conducted under a valid fire permit and shall not contain prohibited materials, unless specifically exempted. Emissions from burning shall not create a nuisance and/or interfere with visibility on any public road.

2.7.4 Asbestos

2.7.4.1 State Only: NWCAA 570 (9/11/14)

The permittee shall conduct all renovation or demolition projects in accordance with the applicable asbestos control standards listed in NWCAA 570.

2.7.4.2 40 CFR 61.145 (1/16/91), 61.148 (11/20/90) and 61.150 (9/18/03)

The permittee shall comply with 40 CFR Sections 61.145, 61.148 and 61.150 when conducting any renovation or demolition at the facility.

2.7.5 Stratospheric Ozone and Climate Protection

2.7.5.1 40 CFR 82 Subpart F (10/28/14)

The permittee shall comply with the standards for recycling and emissions reduction in accordance with the requirements listed in 40 CFR 82 Subpart F.

2.7.5.2 State Only: RCW 70.94.970 (1991 c 199 §602)

A person who services, repairs or disposes of a motor vehicle air conditioning system; commercial or industrial air conditioning, heating, or refrigeration system; or consumer appliance shall use refrigerant extraction equipment to recover regulated refrigerant that would otherwise be released into the atmosphere. This subsection does not apply to off-road commercial equipment.

The willful release of regulated refrigerant from a source listed in this section is prohibited.

2.7.6 Display of Orders, Certificates and Other Notices: Removal or Mutilation Prohibited

NWCAA 124 (2/14/73)

Any order or other certificate obtained from the NWCAA shall be available at the facility. If the NWCAA requires a notice to be displayed, it shall be posted. No one shall mutilate, obstruct or remove any notice unless authorized to do so by the NWCAA.

2.7.7 Obstruction of Access

State Only: RCW 70.94.200, (1987 c 109 §38)

The permittee shall not obstruct, hamper or interfere with any authorized representative of the NWCAA who requests entry for the purposes of inspection and who presents appropriate credential; nor shall any person obstruct, hamper, or interfere with any such inspection.

2.7.8 False Statement, Representation or Certification

State Only: WAC 173-400-105(6) (11/25/18)

No person shall make any false material statement, representation or certification in any form, notice or report required under chapter 70.94 or 70.120 RCW, or any ordinance, resolution, regulation, permit, or order in force pursuant thereto.

2.7.9 Inaccurate Monitoring

State Only: WAC 173-400-105(8) (11/25/18)

No person shall render inaccurate any monitoring device or method required under chapter 70.94 or 70.120 RCW, or any ordinance, resolution, regulation, permit, or order in force pursuant thereto.

2.7.10 Prevention of Accidental Release

40 CFR 68 (4/9/04)

Should this stationary source, as defined in 40 CFR Section 68.3, become subject to the accidental release prevention regulations in part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in Section 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 CFR Part 70.

2.7.11 Cutback Asphalt Paving

NWCAA 580.7 (4/14/93)

The application of cutback asphalt in paving during the months of June, July, August and September is limited to use as prime coatings and patch mixes, or when the temperature is less than 50°F.

2.7.12 Creditable Stack Height and Dispersion Techniques

WAC 173-400-200 (3/22/91) (State Only - 2/10/05)

For stacks for which construction or reconstruction commenced, or for which major modifications were carried out, after December 31, 1970, no source may use dispersion techniques or excess stack height to meet ambient air quality standards or PSD increment limitations.

2.8 Notice of Construction and Application for Approval/New Source Review

2.8.1 Minor New Source Review (NSR)

2.8.1.1 NWCAA 300, 301, 302 & 324.2 (11/13/94), and NWCAA 303 (8/9/78)

No person shall construct, install, establish, modify or alter an air contaminant source or an emission unit without filing a "Notice of Construction and Application for Approval" and receiving approval from the NWCAA in accordance with the cited regulations.

2.8.1.2 State Only: WAC 173-400-111 (7/1/16), 113 (12/29/12), WAC 173-460-010 through -150 (6/20/09), NWCAA 300.1-300.12 (8/13/15), NWCAA 301 (11/17/11), 303 (11/12/98), and 324.2 (9/11/14)

A Notice of Construction application must be filed by the owner or operator and an Order of Approval issued by the NWCAA prior to the establishment of any new source in accordance with the cited regulations. For purposes of this section “establishment” shall mean to “begin actual construction” as that phrase is defined in NWCAA 200, and “new source” shall include any “modification” to an existing “stationary source” as those terms are defined in NWCAA 200.

A temporary source not exempt under NWCAA 300.4 or 300.5 shall be allowed to operate at a temporary location without filing a NWCAA Notice of Construction application or, for nonroad engines, obtaining a regulatory order from the NWCAA, provided that the temporary source meets the applicable requirements of NWCAA 301.2, including notification. Nonroad engines regulated by this section are limited to those that are portable or transportable but operate in a stationary manner.

2.8.2 Nonroad Engines

State Only: WAC 173-400-035 (9/16/18)

This section applies to nonroad engines, as defined in WAC 173-400-030, with a cumulative maximum rated brake horsepower greater than 500 BHP. Nonroad engines are not subject to new source review, control technology determinations, or emission limits set by the state implementation plan.

Nonroad engines must use ultra-low sulfur diesel or ultra-low sulfur bio-diesel, gasoline, natural gas, propane, liquefied petroleum gas, hydrogen, ethanol, methanol, or liquefied/compressed natural gas.

Before operations begin, the owner or operator of a nonroad engine must notify the NWCAA of intent to operate in accordance with the cited regulations. The owner or operator of any nonroad engine with a cumulative maximum rated brake horsepower greater than 2000 BHP must obtain written approval to operate from the NWCAA prior to operation. The owner or operator of any engine covered by this regulation must record and maintain information as required by the cited regulations. The NWCAA may set specific conditions for operation as necessary to ensure that the nonroad engines do not cause or contribute to a violation of National Ambient Air Quality Standards.

2.8.3 General Order

State Only: WAC 173-400-560 (12/29/12) and NWCAA 300.14 (8/13/15)

An owner or operator may apply for an applicable general order for approval to construct certain specified sources as defined in WAC 173-400-560. A general order of approval shall identify criteria by which an emission unit or source may qualify for coverage under a general order of approval and shall include terms and conditions for installing and/or operating the source.

2.8.4 Requirements to Comply

State Only: NWCAA 300.15 (8/13/15)

It shall be unlawful for an owner or operator of a source or emission unit to not abide by the operating and reporting conditions in the Order of Approval.

2.8.5 Prevention of Significant Deterioration (PSD)

State Only: WAC 173-400-700 (4/1/11), WAC 173-400-117 (12/29/12), WAC-400-710, -720, -730 (7/1/16), WAC 173-400-740 (9/16/18), WAC 173-400-750 (12/29/12)

A Prevention of Significant Deterioration (PSD) permit application must be filed by the owner or operator and a PSD permit issued by Ecology prior to the establishment of any new source in accordance with the cited regulations. No major stationary source or major modification as defined in the cited regulation shall begin actual construction without having received a PSD permit. Allowable emissions from the proposed major stationary source or major modification shall not cause or contribute to a violation of any ambient air quality standard.

An applicant for a PSD permit must submit an application that provides complete information for Department of Ecology to determine compliance with all PSD program requirements. Detailed procedures for submitting a complete application, for public review and involvement, and for revisions to an existing PSD permit are provided in the cited regulations (WAC 173-400-700 through 750).

2.8.6 Replacement or Substantial Alteration of Control Technology at an Existing Source

State Only: NWCAA 300.13 (8/13/15)

Any person proposing to replace or substantially alter emission control technology installed on an existing stationary source or emission unit shall file a Notice of Construction application with the NWCAA.

2.9 Greenhouse Gas Mitigation

2.9.1 GHG Clean Air Rule (CAR)

State Only: WAC 173-442 (10/16/16)

Non energy-intensive, trade exposed industries (EITE) regulated by the greenhouse gas (GHG) Clean Air Rule (CAR) include petroleum product producers, natural gas distributors, and petroleum product importers. The compliance deadline for Non-EITE facilities with greenhouse gas emissions greater than 100,000 metric tons per year as carbon dioxide equivalent (MT CO₂e/year) is 2017. The applicability threshold of 100,000 MT CO₂e/year decreases by 5,000 metric tons every three years until 2035 at which time facilities with GHG emissions greater than 70,000 MT CO₂e/year are covered by the rule. The GHG emission rate for CAR applicability is based on a three calendar year rolling average, beginning with calendar year 2012.

GHG emissions that are not covered by the rule include:

- (i) Emissions from petroleum product producers or importers that would result from the combustion of kerosene-type jet fuel, residual fuel oil No. 5 (navy special), residual fuel oil No. 6 (bunker C), petrochemical feedstocks: naphthas (< 401 °F), petrochemical feedstocks: Other oils (> 401 °F); lubricants, waxes, and asphalt.
- (ii) Emissions from petroleum product producers or importers that result from the combustion of products exported outside of Washington state and the GHG emissions associated with exported products that are voluntarily reported in compliance with chapter 173-441 WAC.
- (iii) Emissions for a natural gas distributor from combustion, oxidation, or other use of products supplied to a covered party or voluntary party that has an emission reduction requirement or units or processes exempted by the Clean Power Plan regulated under 40 CFR 60 Subpart UUUU.

- (iv) Stationary sources included in the Clean Power Plan regulated under 40 CFR 60 Subpart UUUU will be considered to comply with the requirements of the CAR at the beginning of the first compliance period of the Clean Power Plan provided that; (a) U.S. EPA has approved Washington's implementation plan for the Clean Power Plan; (b) the approved implementation plan requires greater GHG emissions reduction than required under 40 CFR 60 Subpart UUUU; and (c) when a unit within a covered party's facility is subject to the Clean Power Plan, then only the GHG emissions from that unit is covered.

Non-EITE parties covered by the Clean Air Rule are required to reduce GHG emissions by 1.7% each year from their baseline emission rate until 2035. The baseline emission rate is calculated in accordance with WAC 173-442-050 and is based on a three year average starting in calendar year 2012.

To ensure that GHG emission reductions are enforceable, Ecology will issue a regulatory order to each Clean Air Rule covered party, which will establish their baseline GHG emissions value and define the party's GHG emission reduction pathway through 2035. Thereafter, the regulatory order will require that GHG emissions remain within their reduced 2035 emissions cap.

Parties covered by the Clean Air Rule must demonstrate annual compliance by submitting GHG reporting data under chapter 173-441 WAC including any emission reduction units (ERU) utilized under WAC 173-442-120. Annual reporting may be discontinued after three consecutive years when covered GHG emissions are reported to be less than 50,000 MT CO₂e/year, or upon certification of closure of all GHG emitting processes and operations from the covered facility.

Annual reporting required under the Clean Air Rule must be submitted to Ecology whom administers the program for the State of Washington. In accordance with 173-442-340 only Ecology may implement and enforce the terms of the regulatory order. In accordance with WAC 173-442-330, the regulatory order issued by Ecology must be included in the air operating permit as a stand-alone appendix.

SECTION 3 STANDARD TERMS AND CONDITIONS FOR NSPS AND NESHAP

Standard terms and conditions are administrative and/or other requirements that typically have no ongoing compliance monitoring requirements. The permittee must comply with the requirements listed below for specific “affected facilities” as defined in the New Source Performance Standards (NSPS) in 40 CFR Part 60.2, “affected sources” defined in the National Emission Standards for Hazardous Air Pollutants (NESHAP) in 40 CFR Part 63.2, and owners or operators of any stationary source for which a standard is prescribed under 40 CFR Part 61. The affected facilities, affected sources, and stationary sources subject to these requirements are identified in Section 5 of the permit. The conditions in this section do not apply generally to all emission units at the facility.

The EPA delegates NSPS and NESHAP implementation and enforcement authority to NWCAA on a periodic basis. Some conditions in this section cite the NSPS delegation letter or the NESHAP delegation letter from EPA Region 10 to NWCAA because the letter clarifies certain Federal requirements. For example, the delegation letters state that NWCAA shall be the recipient of all notifications and reports and be the point of contact for questions and compliance issues regarding delegated standards. The delegation letters also specify the extent of NSPS and NESHAP delegation to the NWCAA. Current delegation letters are available for review on the NWCAA website and at the NWCAA office.

Some of the terms and conditions cited below refer to the “Administrator”. For delegated NSPS and NESHAP requirements, “Administrator” means NWCAA; for NSPS and NESHAP requirements that have not been delegated to NWCAA, “Administrator” means the Administrator of the United States Environmental Protection Agency.

All of the federal regulations listed in Section 3 have been adopted by reference in Section 104.2 of the NWCAA Regulation. NWCAA 104.2 was last amended by the agency on September 13, 2018.

3.1 Part 60 – New Source Performance Standard Requirements

3.1.1 Address for Reports, Notifications, and Submittals

40 CFR 60.4(a) and (b) (4/25/75) (as amended by Delegation Letter dated 9/28/17 from Tim Hamlin, Director of the Office of Air and Waste, EPA Region 10 to Mark Buford, Director of NWCAA)

Notifications, reports, and applications for delegated New Source Performance Standards (NSPS) shall be sent to the NWCAA at the following address:

Northwest Clean Air Agency
1600 S. Second Street
Mount Vernon, WA 98273-5202

Notifications, reports, and applications under NSPS authorities that have been excluded from delegation shall be submitted to the EPA at the following address:

U.S. EPA Region 10, Mail Stop: OCE-101
1200 Sixth Avenue, Suite 155
Seattle, WA 98101-3140

3.1.2 Notification

40 CFR 60.7(a) (2/12/99) (as amended by Delegation Letter dated 9/28/17 from Tim Hamlin, Director of the Office of Air and Waste, EPA Region 10 to Mark Buford, Director of NWCAA)

Furnish written notification to the Administrator of the following:

- (i) The date construction (or reconstruction as defined by 40 CFR 60.15) of an affected facility commenced postmarked no later than 30 days after such date.
- (ii) Notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date.
- (iii) Notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change.
- (iv) Notification of the date upon which demonstration of the continuous monitoring system performance commences in accordance with 40 CFR 60.13(c). Notification shall be postmarked not less than 30 days prior to such date.
- (v) Notification of the anticipated date for conducting the opacity observations required by 40 CFR 60.11(e)(1) of this part. The notification shall be postmarked not less than 30 days prior to such date.
- (vi) Notification that continuous opacity monitoring system data results will be used to determine compliance with the applicable opacity standard during a performance test required by 60.8 in lieu of Method 9 observation data as allowed by 40 CFR 60.11(e)(5) of this part. This notification shall be postmarked not less than 30 days prior to the date of the performance test.

3.1.3 Startup, Shutdown, and Malfunction Records

3.1.3.1 40 CFR 60.7(b) (2/12/99)

Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

3.1.3.2 40 CFR 60.8(c) (8/30/16)

Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

3.1.4 Excess Emission Records

40 CFR 60.7(c) and (d) (2/12/99) (as amended by Delegation Letter dated 9/28/17 from Tim Hamlin, Director of the Office of Air and

Waste, EPA Region 10 to Mark Buford, Director of NWCAA)

Each owner or operator required to install a continuous monitoring device shall submit excess emissions and monitoring systems performance report (as defined in applicable subparts) and/or summary report form (see 60.7(d)) to the Administrator semiannually, except when: more frequent reporting is specifically required in any subpart; or the Administrator determines that more frequent reporting is necessary. All reports shall be postmarked by the 30th day following the end of each six-month period. Written reports of excess emissions shall include the information in 40 CFR 60.7(c)(1) through (4).

3.1.5 Maintenance of Records

40 CFR 60.7(f) (2/12/99)

Maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records, except as described in 60.7(f)(1) through (3).

Note: Under WAC 173-401-615(2), records of required monitoring data and support information shall be retained for a period of five years from the date of the monitoring sample, measurement, report, or application.

3.1.6 Performance Tests

40 CFR 60.8(a), (d), (e), and (f) (8/30/16)

Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s), except as specified in paragraphs (a)(1),(a)(2), (a)(3), and (a)(4) of this section.

The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator by mutual agreement.

The owner or operator of an affected facility shall provide performance testing facilities as follows:

- (1) Sampling ports adequate for test methods applicable to such facility.
- (2) Safe sampling platform(s).
- (3) Safe access to sampling platform(s).
- (4) Utilities for sampling and testing equipment.

Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply.

Unless otherwise specified in a relevant standard or test method, or as otherwise approved by the Administrator in writing, the report for a performance test shall include:

- (i) Facility mailing address, physical address, owner or operator or responsible official (where applicable) and his/her email address, and the appropriate Federal Registry System (FRS) number for the facility.
- (ii) Applicable regulation(s) requiring the test, the pollutant(s) and other parameters being measured, the applicable emission standard and any process parameter component, and a brief process description.
- (iii) Description of the emission unit tested including fuel burned, control devices, and vent characteristics; the appropriate source classification code (SCC); the permitted maximum process rate (where applicable); and the sampling location.
- (iv) Description of sampling and analysis procedures used and any modifications to standard procedures, quality assurance procedures and results, record of process operating conditions that demonstrate the applicable test conditions are met, and values for any operating parameters for which limits were being set during the test.
- (v) Where a test method requires you record or report, the following shall be included: Record of preparation of standards, record of calibrations, raw data sheets for field sampling, raw data sheets for field and laboratory analyses, chain-of-custody documentation, and example calculations for reported results.
- (vi) Identification of the company conducting the performance test including the primary office address, telephone number, and the contact for this test program including his/her email address.

3.1.7 Test Method Performance Audit

40 CFR 60.8(g) (8/30/16)

Performance testing shall include a test method performance audit (PA) during the performance test. The PAs consist of blind audit samples supplied by an accredited audit sample provider and analyzed during the performance test in order to provide a measure of test data bias. Audit samples must be collected by the sampling system during the compliance test just as the compliance samples are collected. If multiple sampling systems or sampling trains are used during the compliance test for any of the test methods, the tester is only required to use one of the sampling systems per method to collect the audit sample. The audit sample must be analyzed by the same analyst using the same analytical reagents and analytical system and at the same time as the compliance samples. Retests are required when there is a failure to produce acceptable results for an audit sample. However, if the audit results do not affect the compliance or noncompliance status of the affected facility, the compliance authority may waive the reanalysis requirement, further audits, or retests and accept the results of the compliance test. Acceptance of the test results shall constitute a waiver of the reanalysis requirement, further audits, or retests. The compliance authority may also use the audit sample failure and the compliance test results as evidence to determine the compliance or noncompliance status of the affected facility. A blind audit sample is a sample whose value is known only to the sample provider

and is not revealed to the tested facility until after they report the measured value of the audit sample. An accredited audit sample provider (AASP) is an organization that has been accredited to prepare audit samples by an independent, third party accrediting body.

The source owner, operator, or representative of the tested facility shall obtain an audit sample, if commercially available, from an AASP for each test method used for regulatory compliance purposes. No audit samples are required for the following test methods: Methods 3A and 3C of Appendix A–3 of Part 60, Methods 6C, 7E, 9, and 10 of Appendix A–4 of Part 60, Methods 18 and 19 of Appendix A–6 of Part 60, Methods 20, 22, and 25A of Appendix A–7 of Part 60, Methods 30A and 30B of Appendix A-8 of Part 60, and Methods 303, 318, 320, and 321 of Appendix A of Part 63. If multiple sources at a single facility are tested during a compliance test event, only one audit sample is required for each method used during a compliance test. The compliance authority responsible for the compliance test may waive the requirement to include an audit sample if they believe that an audit sample is not necessary.

If the source owner, operator, or representative cannot find an audit sample for a specific method, the owner, operator, or representative shall consult the EPA Web site at the following URL, <https://www.epa.gov/emc/emc-technical-support#audit>, to confirm whether there is a source that can supply an audit sample for that method.

The source owner, operator, or representative shall report the results for the audit sample along with a summary of the emission test results for the audited pollutant to the compliance authority and shall report the results of the audit sample to the AASP. The test protocol and final test report shall document whether an audit sample was ordered and utilized and the pass/fail results as applicable.

3.1.8 Compliance with Opacity Standards

40 CFR 60.11(b) and (c) (10/17/00)

Compliance with opacity standards in 40 CFR Part 60 shall be determined by EPA Method 9 in Appendix A. For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-minute averages) for the performance test. The opacity standards set forth in this part shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard.

3.1.9 Operation and Maintenance

40 CFR 60.11(d) (10/17/00)

At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

3.1.10 Credible Evidence

40 CFR 60.11(g) (10/17/00)

For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any standard in this part, nothing in this part shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.

3.1.11 Circumvention

40 CFR 60.12 (3/8/74)

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

3.1.12 Monitoring Requirements

40 CFR 60.13 (6/30/16)

All continuous monitoring systems required under applicable subparts shall be subject to the provisions of this section upon promulgation of performance specifications for continuous monitoring systems under appendix B to part 60 and, if the continuous monitoring system is used to demonstrate compliance with emission limits on a continuous basis, appendix F to part 60, unless otherwise specified in an applicable subpart or by the Administrator.

The owner or operator of an affected facility shall conduct a performance evaluation of the continuous emission monitoring system (CEMS) during any performance test required under §60.8 or within 30 days thereafter in accordance with the applicable performance specification in appendix B of this part, or at such other times as may be required by the Administrator under section 114 of the Act. The owner or operator of an affected facility shall furnish the Administrator within 60 days of completion a written report of the results of the performance evaluation.

Owners and operators of a CEMS installed in accordance with the provisions of this part, must check the zero (or low level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span must, as a minimum, be adjusted whenever either the 24-hour zero drift or the 24-hour span drift exceeds two times the limit of the applicable performance specification in appendix B of this part. The system must allow the amount of the excess zero and span drift to be recorded and quantified whenever specified.

Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under this section, all continuous monitoring systems for measuring emissions, except opacity, shall be in continuous operation and shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

Owners or operators of continuous monitoring systems for pollutants other than opacity shall reduce all data to 1-hour averages for time periods as defined in §60.2.

For continuous monitoring systems other than opacity, 1-hour averages shall be computed according to paragraphs (h)(2)(i) through (h)(2)(ix), except that the provisions pertaining to the validation of partial operating hours are only applicable for affected facilities that are required by the applicable subpart to include partial hours in the emission calculations.

3.1.13 Modification

40 CFR 60.14 (10/17/00)

Except as provided under paragraphs (e) and (f) of this section, any physical or operational change to an existing facility which results in an increase in the emission rate to the

atmosphere of any pollutant to which a standard applies shall be considered a modification within the meaning of section 111 of the Act. Upon modification, an existing facility shall become an affected facility for each pollutant to which a standard applies and for which there is an increase in the emission rate to the atmosphere.

Within 180 days of the completion of any physical or operational change subject to the control measures specified in paragraph (a) of this section, compliance with all applicable standards must be achieved.

3.2 Part 63 – National Emission Standard for Hazardous Air Pollutant Requirements

3.2.1 Prohibited Activities and Circumvention

40 CFR 63.4 (4/5/02)

No owner or operator subject to the provisions of this part must operate any affected source in violation of the requirements of this part. Affected sources subject to and in compliance with either an extension of compliance or an exemption from compliance is not in violation of the requirements of this part. An extension of compliance can be granted by the Administrator under this part; by a State with an approved permit program; or by the President under Section 112(i)(4) of the Act.

No owner or operator subject to the provisions of this part shall fail to keep records, notify, report, or revise reports as required under this part.

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to –

- (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere;
- (2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions.

Fragmentation after November 15, 1990 which divides ownership of an operation, within the same facility among various owners where there is no real change in control, will not affect applicability. The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements.

3.2.2 Requirements for Existing, Newly Constructed, and Reconstructed 40 CFR Part 63 NESHAPs Sources

40 CFR 63.5(b)(1), (3), (4), (6) (4/5/02)

A new affected source for which construction commences after proposal of a relevant standard is subject to relevant standards for new affected sources, including compliance dates. An affected source for which reconstruction commences after proposal of a relevant standard is subject to relevant standards for new sources, including compliance dates, irrespective of any change in emissions of hazardous air pollutants from that source.

After the effective date of any relevant standard promulgated by the Administrator under this part, no person may, without obtaining written approval in advance from the

Administrator in accordance with the procedures in paragraphs (d) and (e) of this Part 63.5, do any of the following:

- (i) Construct a new affected source that is major-emitting and subject to such standard;
- (ii) Reconstruct an affected source that is major-emitting and subject to such standard; or
- (iii) Reconstruct a major source such that the source becomes an affected source that is major-emitting and subject to the standard.

After the effective date of any relevant standard promulgated by the Administrator under this part, an owner or operator who constructs a new affected source that is not major-emitting or reconstructs an affected source that is not major-emitting that is subject to such standard, or reconstructs a source such that the source becomes an affected source subject to the standard, must notify the Administrator of the intended construction or reconstruction. The notification must be submitted in accordance with the applicable procedures in 63.9(b).

After the effective date of any relevant standard promulgated by the Administrator under this part, equipment added (or a process change) to an affected source that is within the scope of the definition of affected source under the relevant standard must be considered part of the affected source and subject to all provisions of the relevant standard established for that affected source.

3.2.3 Operation and Maintenance

*O&M for 40 CFR 63 Subpart DDDDD (Boiler MACT)
40 CFR 63.7500(a)(3) (11/20/15)*

At all times, any affected source (as defined in 63.7490), including associated air pollution control equipment and monitoring equipment, shall be operated and maintained in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

3.2.4 Extension of Compliance for Early Reductions and Other Reductions

40 CFR 63.6(i) (4/20/06) and 63.9(c) (5/30/03)

Until a compliance extension has been granted by the Administrator (or a State with an approved permit program) under this paragraph, the owner or operator of an affected source subject to the requirements of this section shall comply with this part's applicable requirements. A compliance extension may be possible if a request for extension of compliance meets 63.6(i)(3) through 63.6(i)(6).

3.2.5 **Operation and Maintenance of Continuous Monitoring Systems (CMS)**

*O&M of CMS for Part 63 NESHAP Sources (except for Subpart DDDDD)
40 CFR 63.8(c)(1),(2),(3),(4) and (6) (11/14/18)*

- (1) The owner or operator of an affected source shall maintain and operate each CMS as specified in this section, or in a relevant standard, and in a manner consistent with good air pollution control practices.
 - (i) The owner or operator of an affected source must maintain and operate each CMS as specified in 63.6(e)(1).
 - (ii) The owner or operator must keep the necessary parts for routine repairs of the affected CMS equipment readily available.
- (2)
 - (i) All CMS must be installed such that representative measures of emissions or process parameters from the affected source are obtained. In addition, CEMS must be located according to procedures contained in the applicable performance specification(s).
 - (ii) Unless the individual subpart states otherwise, the owner or operator must ensure the read out (that portion of the CMS that provides a visual display or record), or other indication of operation, from any CMS required for compliance with the emission standard is readily accessible on site for operational control or inspection by the operator of the equipment.
- (3) All CMS shall be installed, operational, and the data verified as specified in the relevant standard either prior to or in conjunction with conducting performance tests under §63.7. Verification of operational status shall, at a minimum, include completion of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system.
- (4) Except for system breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero (low-level) and high-level calibration drift adjustments, all CMS, including COMS and CEMS, shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:
 - (i) All COMS shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.
 - (ii) All CEMS for measuring emissions other than opacity shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.
- (6) The owner or operator of a CMS which is installed in accordance with the provisions of this part and the applicable CMS performance specification(s), must check the zero (low-level) and high-level calibration drifts at least once daily in accordance with the written procedure specified in the performance evaluation plan developed under paragraphs (e)(3)(i) and (ii) of this section. The zero (low-level) and high-level calibration drifts must be adjusted, at a minimum, whenever the 24-hour zero (low-level) drift exceeds two times the limits of the applicable performance specification(s) specified in the relevant standard. The system shall

allow the amount of excess zero (low-level) and high-level drift measured at the 24-hour interval checks to be recorded and quantified whenever specified.

3.2.6 Continuous Monitoring Systems (CMS) Out of Control Periods

40 CFR 63.8(c)(7) and (8) (11/14/18)

A CMS is out of control if—

- (A) The zero (low-level), mid-level (if applicable), or high-level calibration drift (CD) exceeds two times the applicable CD specification in the applicable performance specification or in the relevant standard; or
- (B) The CMS fails a performance test audit (e.g., cylinder gas audit), relative accuracy audit, relative accuracy test audit, or linearity test audit.

When the CMS is out of control, the owner or operator of the affected source shall take the necessary corrective action and shall repeat all necessary tests which indicate that the system is out of control. The owner or operator shall take corrective action and conduct retesting until the performance requirements are below the applicable limits. The beginning of the out-of-control period is the hour the owner or operator conducts a performance check (e.g., calibration drift) that indicates an exceedance of the performance requirements established under this part. The end of the out-of-control period is the hour following the completion of corrective action and successful demonstration that the system is within the allowable limits. During the period the CMS is out of control, recorded data shall not be used in data averages and calculations, or to meet any data availability requirement established under this part.

The owner or operator of a CMS that is out of control as defined in paragraph (c)(7) of this section shall submit all information concerning out-of-control periods, including start and end dates and hours and descriptions of corrective actions taken, in the excess emissions and continuous monitoring system performance report required in 63.10(e)(3).

3.2.7 Continuous Monitoring Systems (CMS) Quality Control Program

40 CFR 63.8(d) & (e) (11/14/18), 63.9(g)(1) (5/30/03)

The results of the quality control program required in this paragraph will be considered by the Administrator when he/she determines the validity of monitoring data.

The owner or operator of an affected source that is required to use a CMS and is subject to the monitoring requirements of this section and a relevant standard shall develop and implement a CMS quality control program. As part of the quality control program, the owner or operator shall develop and submit to the Administrator for approval upon request a site-specific performance evaluation test plan for the CMS performance evaluation required in paragraph (e)(3)(i) of this section, according to the procedures specified in paragraph (e). In addition, each quality control program shall include, at a minimum, a written protocol that describes procedures for each of the following operations:

- (i) Initial and any subsequent calibration of the CMS;
- (ii) Determination and adjustment of the calibration drift of the CMS;
- (iii) Preventive maintenance of the CMS, including spare parts inventory;
- (iv) Data recording, calculations, and reporting;
- (v) Accuracy audit procedures, including sampling and analysis methods; and
- (vi) Program of corrective action for a malfunctioning CMS.

The owner or operator shall keep these written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of this part, to be made available for inspection, upon request, by the Administrator. If the performance evaluation plan is revised, the owner or operator shall keep previous (i.e., superseded) versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Administrator, for a period of 5 years after each revision to the plan.

When required by a relevant standard, and at any other time the Administrator may require under section 114 of the Act, the owner or operator of an affected source being monitored shall conduct a performance evaluation of the CMS. Such performance evaluation shall be conducted according to the applicable specifications and procedures described in this section or in the relevant standard.

The owner or operator shall notify the Administrator in writing of the date of the performance evaluation simultaneously with the notification of the performance test date required under §63.7(b) or at least 60 days¹ prior to the date the performance evaluation is scheduled to begin if no performance test is required.

Before conducting a required CMS performance evaluation, the owner or operator of an affected source shall develop and submit a site-specific performance evaluation test plan to the Administrator for approval upon request. The performance evaluation test plan shall include the evaluation program objectives, an evaluation program summary, the performance evaluation schedule, data quality objectives, and both an internal and external QA program. Data quality objectives are the pre-evaluation expectations of precision, accuracy, and completeness of data.

The internal QA program shall include, at a minimum, the activities planned by routine operators and analysts to provide an assessment of CMS performance. The external QA program shall include, at a minimum, systems audits that include the opportunity for on-site evaluation by the Administrator of instrument calibration, data validation, sample logging, and documentation of quality control data and field maintenance activities.

The owner or operator of an affected source shall submit the site-specific performance evaluation test plan to the Administrator (if requested) at least 60 days¹ before the performance test or performance evaluation is scheduled to begin, or on a mutually agreed upon date, and review and approval of the performance evaluation test plan by the Administrator will occur with the review and approval of the site-specific test plan (if review of the site-specific test plan is requested).

The Administrator may request additional relevant information after the submittal of a site-specific performance evaluation test plan.

Neither the submission of a site-specific performance evaluation test plan for approval, nor the Administrator's approval or disapproval of a plan, nor the Administrator's failure to approve or disapprove a plan in a timely manner shall—

- (A) Relieve an owner or operator of legal responsibility for compliance with any applicable provisions of this part or with any other applicable Federal, State, or local requirement; or
- (B) Prevent the Administrator from implementing or enforcing this part or taking any other action under the Act.

¹ NWCAA 367 and Appendix A (07/14/05 State Only) apply and require test notification and test plan be submitted at least 30 days prior to the scheduled date of performance testing.

The owner or operator of an affected source shall conduct a performance evaluation of a required CMS during any performance test required under §63.7 in accordance with the applicable performance specification as specified in the relevant standard. If a performance test is not required, or the requirement for a performance test has been waived under §63.7(h), the owner or operator of an affected source shall conduct the performance evaluation not later than 180 days after the appropriate compliance date for the affected source, as specified in §63.7(a), or as otherwise specified in the relevant standard.

The owner or operator shall furnish the Administrator a copy of a written report of the results of the performance evaluation simultaneously with the results of the performance test required under §63.7 or within 60 days of completion of the performance evaluation if no test is required, unless otherwise specified in a relevant standard.

3.2.8 Continuous Monitoring Systems (CMS) Data Reduction

40 CFR 63.8(g) (11/14/18)

The owner or operator of each CMS must reduce the monitoring data as specified in paragraphs (g)(1) through (5) of this section.

Data from CEMS for measurement other than opacity, unless otherwise specified in the relevant standard, shall be reduced to 1-hour averages computed from four or more data points equally spaced over each 1-hour period, except during periods when calibration, quality assurance, or maintenance activities pursuant to provisions of this part are being performed. During these periods, a valid hourly average shall consist of at least two data points with each representing a 15-minute period. Alternatively, an arithmetic or integrated 1-hour average of CEMS data may be used. Time periods for averaging are defined in §63.2.

The data may be recorded in reduced or nonreduced form (e.g., ppm pollutant and percent O₂ or ng/J of pollutant).

All emission data shall be converted into units of the relevant standard for reporting purposes using the conversion procedures specified in that standard. After conversion into units of the relevant standard, the data may be rounded to the same number of significant digits as used in that standard to specify the emission limit (e.g., rounded to the nearest 1 percent opacity).

Monitoring data recorded during periods of unavoidable CMS breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero (low-level) and high-level adjustments must not be included in any data average computed under this part. For the owner or operator complying with the requirements of §63.10(b)(2)(vii)(A) or (B), data averages must include any data recorded during periods of monitor breakdown or malfunction.

3.2.9 Address for Reports, Notifications and Submittals

40 CFR 63.9(a) (5/30/03), 63.10(a) (4/20/06), 63.12(c) (3/16/94), 63.13 (6/25/13), (as amended by Delegation Letter dated 9/28/17 from Tim Hamlin, Director of the Office of Air and Waste, EPA Region 10 to Mark Buford, Director of NWCAA)

Notifications, reports, and applications for delegated Part 63 National Emission Standards for Hazardous Air Pollutants (NESHAPs) shall be sent to the NWCAA at the following address:

Northwest Clean Air Agency

1600 South Second Street
Mount Vernon, WA 98273-5202

Notifications, reports, and applications under NESHAP authorities that have been excluded from delegation shall be submitted to the EPA at the following address:

Director, Office of Air and Waste
U.S. EPA Region 10, Mail Stop: OCE-101
1200 Sixth Avenue, Suite 155
Seattle, WA 98101-3140

All information required to be submitted to the EPA under this part also shall be submitted to the appropriate State agency of any State to which authority has been delegated under section 112(I) of the Act, provided that each specific delegation may exempt sources from a certain Federal or State reporting requirement. The Administrator may permit all or some of the information to be submitted to the appropriate State agency only, instead of to the EPA and the State agency.

3.2.10 Notification

3.2.10.1 Notification Requirements for New or Reconstructed Part 63 NESHAP Sources 40 CFR 63.9(b)(4) (5/30/03)

The owner or operator of a new or reconstructed major affected source for which an application for approval of construction or reconstruction is required under 63.5(d) must provide the following information in writing to the Administrator:

- (i) A notification of intention to construct a new major-emitting affected source, reconstruct a major-emitting affected source, or reconstruct a major source such that the source becomes a major-emitting affected source with the application for approval of construction or reconstruction as specified in 63.5(d)(1)(i); and
- (v) A notification of the actual date of startup of the source delivered or postmarked within 15 calendar days after that date.

3.2.10.2 Notification Requirements for Existing Part 63 NESHAP Sources 40 CFR 63.9(b)(2) and (j) (5/30/03)

The owner or operator of an affected source that has an initial startup before the effective date of a relevant standard under this part shall notify the Administrator in writing that the source is subject to the relevant standard. The notification, which shall be submitted not later than 120 calendar days after the effective date of the relevant standard (or within 120 calendar days after the source becomes subject to the relevant standard) shall provide the following information:

- (i) The name and address of the owner or operator;
- (ii) The address (i.e., physical location) of the affected source;
- (iii) An identification of the relevant standard, or other requirement that is the basis of notification and the source's compliance date;
- (iv) A brief description of the nature and size, design, and method of operation of the source and an identification of the types of emission points within the affected source subject to the relevant standard and the types of hazardous air pollutants emitted; and

- (v) A statement of whether the affected source is a major source or an area source.

Any change in the information provided under this section shall be provided to the Administrator in writing within 15 calendar days after the change.

3.2.11 Recordkeeping

3.2.11.1 Recordkeeping for Part 63 NESHAP Sources 40 CFR 63.10(b)(1)(4/20/06)

The owner or operator of an affected source shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.

3.2.11.2 Recordkeeping for Part 63 NESHAP Sources 40 CFR 63.10(b)(3) and (except Subpart DDDDD) (4/20/06)

If an owner or operator determines that his or her stationary source that emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants regulated by any standard established pursuant to section 112(d) or (f), and that stationary source is in the source category regulated by the relevant standard, but that source is not subject to the relevant standard (or other requirement established under this part) because of limitations on the source's potential to emit or an exclusion, the owner or operator must keep a record of the applicability determination on site at the source for a period of 5 years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the owner or operator believes the source is unaffected (e.g., because the source is an area source). The analysis (or other information) must be sufficiently detailed to allow the Administrator to make a finding about the source's applicability status with regard to the relevant standard or other requirement. If relevant, the analysis must be performed in accordance with requirements established in relevant subparts of this part for this purpose for particular categories of stationary sources. If relevant, the analysis should be performed in accordance with EPA guidance materials published to assist sources in making applicability determinations under section 112, if any.

3.2.12 Startup, Shutdown, and Malfunction Recordkeeping and Reports

3.2.12.1 SSM Recordkeeping and Reports for Part 63 NESHAP Sources (except Subpart DDDDD) 40 CFR 63.10(b)(2) and (d)(5) (4/20/06)

The owner or operator of an affected source subject to the provisions of this part shall maintain relevant records for such source of—

- (i) The occurrence and duration of each startup or shutdown when the startup or shutdown causes the source to exceed any applicable emission limitation in the relevant emission standards;
- (ii) The occurrence and duration of each malfunction of operation (i.e. , process equipment) or the required air pollution control and monitoring equipment;

- (iii) All required maintenance performed on the air pollution control and monitoring equipment;
- (iv) Actions taken during periods of startup or shutdown when the source exceeded applicable emission limitations in a relevant standard.
- (vi) Each period during which a CMS is malfunctioning or inoperative (including out-of-control periods);
- (vii) All required measurements needed to demonstrate compliance with a relevant standard (including, but not limited to, 15-minute averages of CMS data, raw performance testing measurements, and raw performance evaluation measurements, that support data that the source is required to report);
 - (A) This paragraph applies to owners or operators required to install a continuous emissions monitoring system (CEMS) where the CEMS installed is automated, and where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. An automated CEMS records and reduces the measured data to the form of the pollutant emission standard through the use of a computerized data acquisition system. In lieu of maintaining a file of all CEMS subhourly measurements as required under paragraph (b)(2)(vii) of this section, the owner or operator shall retain the most recent consecutive three averaging periods of subhourly measurements and a file that contains a hard copy of the data acquisition system algorithm used to reduce the measured data into the reportable form of the standard.
 - (B) This paragraph applies to owners or operators required to install a CEMS where the measured data is manually reduced to obtain the reportable form of the standard, and where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. In lieu of maintaining a file of all CEMS subhourly measurements as required under paragraph (b)(2)(vii) of this section, the owner or operator shall retain all subhourly measurements for the most recent reporting period. The subhourly measurements shall be retained for 120 days from the date of the most recent summary or excess emission report submitted to the Administrator.
 - (C) The Administrator or delegated authority, upon notification to the source, may require the owner or operator to maintain all measurements as required by paragraph (b)(2)(vii), if the Administrator or the delegated authority determines these records are required to more accurately assess the compliance status of the affected source.
- (viii) All results of performance tests, CMS performance evaluations, and opacity and visible emission observations;
- (ix) All measurements as may be necessary to determine the conditions of performance tests and performance evaluations;
- (x) All CMS calibration checks;
- (xi) All adjustments and maintenance performed on CMS;
- (xiv) All documentation supporting initial notifications and notifications of compliance status under §63.9.

3.2.12.2 SSM Reports for 40 CFR 63 Subpart DDDDD (Boiler MACT) Affected Sources 40 CFR 63.7555(d)(7) and 63.7550(c)(5)(xiii) and (xviii)

(11/20/15)

The requirements for startup, shutdown and malfunction reports for Subpart DDDDD affected sources are the same as noted in AOP Term 3.2.12.1 above with the following exceptions:

- (i) Keep records of actions taken during periods of malfunction to minimize emission in accordance with the general duty to minimize emissions in §63.7500(a)(3), including corrective actions to restore the malfunctioning boiler or process heater, air pollution control, or monitoring equipment to its normal or usual manner of operation.
- (ii) Report all malfunctions that occurred during the reporting period. The report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by you during a malfunction of a boiler, process heater, or associated air pollution control device or CMS to minimize emissions in accordance with §63.7500(a)(3), including actions taken to correct the malfunction.
- (iii) Report each instance of startup and shutdown, including the information required to be monitored, collected, or recorded according to the requirements of §63.7555(d).

3.2.13 Recordkeeping Requirements for Sources with Continuous Monitoring Systems

Recordkeeping requirements for sources with CMS for Part 63 NESHAP Sources 40 CFR 63.10(c) (4/20/06)

In addition to complying with the requirements specified in paragraphs (b)(1) and (b)(2) of this section, the owner or operator of an affected source required to install a CMS by a relevant standard shall maintain records for such source of:

- (1) All required CMS measurements (including monitoring data recorded during unavoidable CMS breakdowns and out-of-control periods);
- (2) [Reserved]
- (3) [Reserved]
- (4) [Reserved]
- (5) The date and time identifying each period during which the CMS was inoperative except for zero (low-level) and high-level checks;
- (6) The date and time identifying each period during which the CMS was out of control, as defined in §63.8(c)(7);
- (7) The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions and parameter monitoring exceedances, as defined in the relevant standard(s), that occurs during startups, shutdowns, and malfunctions of the affected source;
- (8) The specific identification (i.e., the date and time of commencement and completion) of each time period of excess emissions and parameter monitoring exceedances, as defined in the relevant standard(s), that occurs during periods other than startups, shutdowns, and malfunctions of the affected source;

- (9) [Reserved]
- (10) The nature and cause of any malfunction (if known);
- (11) The corrective action taken or preventive measures adopted;
- (12) The nature of the repairs or adjustments to the CMS that was inoperative or out of control;
- (13) The total process operating time during the reporting period; and
- (14) All procedures that are part of a quality control program developed and implemented for CMS under §63.8(d).

3.2.14 Notification of Compliance Status (NCS)

3.2.14.1 NCS for Part 63 NESHAPs Sources (except Subpart DDDDD) 40 CFR 63.9(h) (5/30/03)

Each time a notification of compliance status is required under this part, the owner or operator of such source shall submit to the Administrator a notification of compliance status, signed by the responsible official who shall certify its accuracy, attesting to whether the source has complied with the relevant standard. The notification shall list:

- (i) the methods that were used to determine compliance;
- (ii) the results of any performance tests, opacity or visible emission observations, continuous monitoring system (CMS) performance evaluations, and/or other monitoring procedures or methods that were conducted;
- (iii) the methods that will be used for determining continuing compliance, including a description of monitoring and reporting requirements and test methods;
- (iv) the type and quantity of hazardous air pollutants emitted by the source (or surrogate pollutants if specified in the relevant standard), reported in units and averaging times and in accordance with the test methods specified in the relevant standard;
- (v) if the relevant standard applies to both major and area sources, an analysis demonstrating whether the affected source is a major source (using the emissions data generated for this notification);
- (vi) a description of the air pollution control equipment (or method) for each emission point, including each control device (or method) for each hazardous air pollutant and the control efficiency (percent) for each control device (or method); and
- (vii) a statement by the owner or operator of the affected existing, new, or reconstructed source as to whether the source has complied with the relevant standard or other requirements.

After the applicable requirements are incorporated into the affected source's title V permit, the owner or operator of such source shall comply with all requirements for compliance status reports contained in the source's title V permit, including reports required under this part. After a title V permit has been issued to the owner or operator of an affected source, and each time a notification of compliance status is required under this part, the owner or operator of such source shall submit the notification of compliance status to the appropriate permitting authority following completion of the relevant compliance demonstration activity specified in the relevant standard.

The NCS must be sent before the close of business on the 60th day following the completion of the relevant compliance demonstration activity specified in the relevant standard (unless a different reporting period is specified in the standard, in which case the letter must be sent before the close of business on the day the report of the relevant testing or monitoring results is required to be delivered or postmarked). For example, the notification shall be sent before close of business on the 60th (or other required) day following completion of the initial performance test and again before the close of business on the 60th (or other required) day following the completion of any subsequent required performance test. If no performance test is required but opacity or visible emission observations are required to demonstrate compliance with an opacity or visible emission standard under this part, the notification of compliance status shall be sent before close of business on the 30th day following the completion of opacity or visible emission observations. Notifications may be combined as long as the due date requirement for each notification is met.

*3.2.14.2 NCS for 40 CFR 63 Subpart DDDDD (Boiler MACT) Affected Sources
40 CFR 63.7545(a), (e), (e)(1), and (e)(6) (11/20/15)*

The requirements for Notifications of Compliance Status for Subpart DDDDD affected sources are the same as noted in AOP Term 3.2.14.1 with the following clarifications, exceptions, or differences:

The NCS shall be submitted by close of business on the 60th day after January 31, 2016 (i.e., March 31, 2016). It shall include a signed certification that all the work practice standards have been met. Also, it should include a description of the affected units including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, and justification for the selection of fuel(s) burned during the compliance demonstration.

The NCS must include the following certification(s) of compliance, as applicable, and be signed by a responsible official:

“This facility completed the required initial tune-up for all of the boilers and process heaters covered by 40 CFR 63 Subpart DDDDD at this site according to the procedures in §63.7540(a)(10)(i) through (vi).” and “This facility has had an energy assessment performed according to §63.7530(e).”

3.2.15 General Compliance Requirements for 40 CFR 63 Subpart ZZZZ

40 CFR 63.6605 (1/30/13)

Comply with the emission limitations and operating limitations in 40 CFR 63 Subpart ZZZZ that apply at all times.

At all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

SECTION 4 GENERALLY APPLICABLE REQUIREMENTS

The cited requirements in the “Citation” column and incorporated herein by reference are applicable plant-wide at the source, including insignificant emission units. These requirements are federally enforceable unless identified as “State Only”. A requirement designated “State Only” is enforceable only by the state or the NWCAA, and not by the EPA or through citizen suits. The “Description” column is a brief description of the applicable requirements for informational purposes only and is not enforceable. Periodic or continuous monitoring requirements (including testing) are specified in the “Monitoring, Recordkeeping & Reporting” column, which identifies monitoring, recordkeeping and reporting (MR&R) obligations the source must perform as required by WAC 173-401-605(1) and 615(1) and (2) or the underlying requirement. MR&R obligations do not apply to insignificant emission units.

The requirements in the MR&R column listed below the “*Directly Enforceable*” label are legally enforceable requirements added under the NWCAA’s “gap-filling” authority (WAC 173-401-615(1)(b) & (c), (10/17/02)). Other requirements not labeled “*Directly Enforceable*” or above the “*Directly Enforceable*” label are brief descriptions of the regulatory requirements for information purposes, and are not enforceable. Unless the text of the MR&R column is specifically identified to be directly enforceable, the language of the cited regulation takes precedence over a paraphrased requirement.

Term	Citation	Description	Monitoring, Recordkeeping, & Reporting
4.1 General	WAC 173-401-615(3) (10/17/02) 40 CFR 60 Subpart A 60.19(c) (2/12/98) 40 CFR 63 Subpart A 63.10(a)(5) (4/20/06)	<u>Required Monitoring Reports</u> Submit reports of any required monitoring to the NWCAA at least once every six months. All instances of deviations from permit requirements must be clearly identified in such reports.	<i>Directly Enforceable:</i> Monthly reports shall cover a calendar month, quarterly reports shall cover a calendar quarter, six-month reports shall cover January through June and July through December, and annual reports shall cover a calendar year. The reports shall be submitted within 30 days after the close of the period that the reports cover, except when the reporting deadline is specified in a permit term including, but not limited to: AOP Term 2.1.8 – Source Testing AOP Term 2.4.1 – Annual AOP Certification AOP Term 2.4.4 – Annual emissions inventory AOP Term 2.4.5 – Annual GHG emissions AOP Term 2.9.1 - GHG Clean Air Rule
4.2 General	NWCAA 342 (9/8/93) NWCAA 342 (7/14/05 State Only)	<u>Operation and Maintenance</u> Sources are required to keep any process and/or air pollution control equipment in good operating condition and repair.	Operating instructions and maintenance schedules for process and/or control equipment must be available on site.

Term	Citation	Description	Monitoring, Recordkeeping, & Reporting
4.3 General	PSD-92-4, Amendment 1, Condition 9, (5/11/98) PSD-01-08, Amendment 4, Condition 10, (10/6/11)	<u>Operation and Maintenance Manuals</u> for all equipment that has the potential to affect emissions to the atmosphere shall be developed and maintained.	<i>Directly Enforceable:</i> Monitor, keep records and report in accordance with the terms of this permit.
4.4 General	PSD-01-08, Amendment 4, Condition 9.4, (10/6/11) OAC 793d, Condition 1 (11/21/11)	Northwest Pipeline LLC – Sumas Compressor Station shall maintain monitoring and process records including but not limited to: <ul style="list-style-type: none"> • Fuel monitoring records • Operating hours records 	Records shall be maintained for at least five years and provided on request by NWCAA and Ecology within ten working days.

Term	Citation	Description	Monitoring, Recordkeeping, & Reporting
4.5 Nuisance	NWCAA 530 (3/09/00 State Only)	<p><u>General Nuisance</u></p> <p>No person shall discharge from any source quantities of air contaminants, with the exception of odors, in sufficient amounts and of such characteristics and duration as is likely to be injurious or cause damage to human health, plant or animal life, or property; or which unreasonably interferes with enjoyment of life and property.</p> <p>An air contaminant is defined as “dust, fumes, mist, smoke, other particulate matter, vapor gas, odorous substance, or any combination thereof.</p>	<p><i>Directly Enforceable:</i></p> <p>A written air contaminant complaint response plan will be maintained at the facility. Upon receiving an air contaminant complaint from the NWCAA or the public, all possible sources of the nuisance emissions at the facility shall be checked for proper operation. Problems identified shall be repaired or corrected as soon as practicable. If the problems identified cannot be repaired or corrected within four hours, action shall be taken to minimize emissions until repairs can be made and the NWCAA shall be notified within 12 hours with a description of the complaint and action being taken to resolve the problem.</p>
4.6 Nuisance	WAC 173-400-040(5) (9/20/93) WAC 173-400-040(6) (9/16/18 State Only)	<p><u>Emission Detrimental to Persons or Property</u></p> <p>No person shall cause or allow the emission of any air contaminant from any source if it is detrimental to the health, safety, or welfare of any person, or causes damage to property or business.</p>	<p>The results of the investigation, identification of any malfunctioning equipment or aberrant operation, and the date and time of repair or mitigation shall be recorded. A log of these records shall be maintained for inspection.</p> <p>Receipt of a nuisance complaint in itself shall not necessarily be a violation.</p>
4.7 Odor	NWCAA 535 (3/09/00 State Only)	<p><u>Odor Control Measures</u></p> <p>Appropriate practices and control equipment shall be installed and operated to reduce odor-bearing gases emitted into the atmosphere to a reasonable minimum.</p> <p>Any person who shall cause the generation of any odor from any source which may reasonably interfere with any other property owner’s use and enjoyment of their property must use recognized best practices and control equipment to reduce these odors to a reasonable minimum.</p> <p>No person shall cause or permit the emission of any odorous air contaminant from any source if it is detrimental to the health, safety, or welfare of any person, or causes damage to property or business.</p>	
4.8 Odor	WAC 173-400-040(5) (9/16/18 State Only)	<p><u>Odors</u></p> <p>Source may not generate odors which may unreasonably interfere with property use and must use recognized good practice and procedures to reduce odors to reasonable minimum.</p>	

Term	Citation	Description	Monitoring, Recordkeeping, & Reporting
4.9 Odor	OAC 793d, Condition 12, (11/21/11)	Odors shall not be detected off site that may result in a nuisance as determined by NWCAA personnel.	<i>Directly Enforceable:</i> Follow MR&R under AOP Term 4.5.
4.10 PM	NWCAA 550 (4/14/93)	<u>Preventing Particulate Matter from Becoming Airborne</u> Best Available Control Technology (BACT) required to prevent the release of fugitive matter to the ambient air. Nuisance particulate fallout is prohibited.	
4.11 PM	NWCAA 550 (9/11/14 State Only)	<u>Preventing Particulate Matter from Becoming Airborne</u> The owner or operator of a source or activity that generates fugitive dust, including, but not limited to, material handling, building construction or demolition, abrasive blasting, roadways and lots, shall employ reasonable precautions to prevent fugitive dust from becoming airborne and must maintain and operate the source or activity to minimize emissions. It shall be unlawful for any person to cause or allow the emission of particulate matter which becomes deposited upon the property of others in sufficient quantities and of such characteristics and duration as is, or is likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interferes with enjoyment of life and property.	
4.12 PM	WAC 173-400-040(3) (9/16/18 State Only)	<u>Fallout</u> Source may not generate the emission of particulate matter to be deposited beyond the property line in sufficient quantity to interfere unreasonably with the use and enjoyment of the property upon which the material is deposited.	
4.13 PM	WAC 173-400-040(3)(a) (9/20/93) WAC 173-400-040(4)(a) (9/16/18 State Only)	<u>Fugitive Emissions</u> From an emissions unit engaging in materials handling, construction, demolition, or other operation which is a source of fugitive emissions, take reasonable precautions to prevent the release of air contaminants from the operation.	

Term	Citation	Description	Monitoring, Recordkeeping, & Reporting
4.14 PM	WAC 173-400-040(8)(a) (9/20/93) WAC 173-400-040(9)(a) (9/16/18 State Only)	<u>Fugitive Dust</u> Reasonable precautions to prevent release of fugitive dust required. Maintain and operate source to minimize emissions.	<i>Directly Enforceable:</i> Follow MR&R under AOP Term 4.5.
4.15 VE	NWCAA 451.1 (10/13/94)	<u>Emission of Air Contaminant - Visual Standard</u> No person shall cause or permit the emission, for any period aggregating more than 3 minutes in any 1 hour, of an air contaminant from any source which, at the point at emission, or within a reasonable distance of the point of emission, exceeds 20% opacity (Ecology Method 9A) except: When there is valid data to show that the opacity is in excess of 20% as a result of the presence of condensed water droplets, and that the concentration of the particulate matter, as shown by a source test approved by the Control Officer, is less than 0.10 (0.23 g/m ³) grain/dscf.	<i>Directly Enforceable:</i> At least once during each calendar quarter that an emission unit operates, conduct qualitative or quantitative (as described in (iii) below) visual observations on each stack while operating to determine whether there are visible emissions (VE). If, at any time, visible emissions are observed, take one or more the following actions within 24 hours or it will be considered prima facie evidence that all applicable opacity limits have been exceeded. (i) Complete action that returns visible emissions to a non-visible level. (ii) Shutdown the unit until appropriate corrective action can be taken.
4.16 VE	NWCAA 451.1 (11/8/07 State Only)	<u>Emission of Air Contaminant - Visual Standard</u> No person shall cause or permit the emission, for any period aggregating more than 3 minutes in any 1 hour, of an air contaminant from any source which, at the point at emission, or within a reasonable distance of the point of emission, exceeds 20% opacity except: When there is valid data to show that the opacity is in excess of 20% as a result of the presence of condensed water droplets, and that the concentration of the particulate matter, as shown by a source test approved by the Control Officer, is less than 0.10 (0.23 g/m ³) grain/dscf.	

Term	Citation	Description	Monitoring, Recordkeeping, & Reporting
4.17 VE	WAC 173-400-040(1) (9/20/93) WAC 173-400-040(2) (9/16/18 State Only)	<p><u>Visible Emissions</u></p> <p>No person shall cause or allow the emission for more than three minutes, in any one hour, of an air contaminant from any emissions unit which at the emission point, or within a reasonable distance of the emission point, exceeds twenty percent opacity except: When the owner or operator of a source supplies valid data to show that the presence of uncombined water is the only reason for the opacity to exceed 20%.</p>	<p>(iii) Observe and record VE using a certified observer in accordance with EPA Method 9 (six consecutive minutes). If any single reading is greater than an applicable numerical opacity limit, the certified observer shall determine opacity in accordance with the appropriate method for each opacity limit applicable to that emission unit. A certified observer shall determine opacity on a daily basis according to each applicable opacity limit until visible emissions are determined to be in compliance with each opacity limit.</p> <p>For each qualitative or quantitative VE observation, record the date and time of the observation, emission unit(s) observed, and name of observer. For stacks with visible emissions, record any related equipment or operational failure, failure dates and times, duration of visible emissions, and corrective actions taken.</p> <p>If visible emissions are observed, a follow-up qualitative or quantitative observation shall be made within a month. If no visible emissions are observed, return to the quarterly observation frequency.</p> <p>Compliance with this MR&R does not excuse an exceedance of the underlying opacity standard.</p>
4.18 PM	NWCAA 455.1 and 455.11 (9/8/93) NWCAA 455.1 and 455.11 (5/11/95 State Only)	<p><u>Emission of Particulate Matter</u></p> <p>No person shall cause or permit emission of particulate matter in excess of 0.10 grain/dry standard cubic foot (dscf) (0.23 g/m³) (combustion emissions shall be corrected to 7% O₂) except:</p> <p><u>455.11</u>: From all gaseous and distillate fuel burning equipment, emissions shall not exceed 0.05 grain/dscf (0.11 g/m³) at 7% O₂.</p>	<p><i>Directly Enforceable:</i></p> <p>Follow MR&R under AOP Term 4.15.</p>
4.19 PM	WAC 173-400-060 (3/22/91) WAC 173-400-060 (7/1/16 State Only)	<p><u>Emission Standards for General Process Units</u></p> <p>Particulate emissions greater than 0.1 grain/dscf prohibited.</p>	

Term	Citation	Description	Monitoring, Recordkeeping, & Reporting
4.20 PM	WAC 173-400-050(1) and (3) (3/22/91) WAC 173-400-050(1) and (3) (7/1/16 State Only)	<u>Emission Standards for Combustion and Incineration Units</u> Particulate emissions from combustion units greater than 0.1 grains/dscf at 7% O ₂ prohibited.	<i>Directly Enforceable:</i> Follow MR&R under AOP Term 4.15.
4.21 SO ₂	NWCAA 462 (10/14/87)	<u>Emission of Sulfur Compounds</u> Sulfur compounds emissions, calculated as SO ₂ , shall not exceed 1,000 ppmvd at 7% O ₂ . This requirement is not violated if reasonable evidence is presented that concentrations will not exceed ambient standards and the permittee demonstrates that no practical method of reducing the concentration exists.	<i>Directly Enforceable:</i> Maintain records of type, quantity, and sulfur content of all fuel combusted in accordance with AOP term 5.4. Records shall be made available for inspection upon request.
4.22 SO ₂	NWCAA 462 (3/13/97 State Only) WAC 173-400-040(7) (9/16/18 State Only)	<u>Emission of Sulfur Compounds</u> Sulfur compounds emissions, calculated as SO ₂ , shall not exceed 1,000 ppmvd at 7% O ₂ averaged for a 60 consecutive minute period. This requirement is not violated if reasonable evidence is presented that concentrations will not exceed ambient standards and the permittee demonstrates that no practical method of reducing the concentration exists.	
4.23 SO ₂	WAC 173-400-040(6) first paragraph only (9/20/93)	<u>Sulfur Dioxide</u> Sulfur dioxide emissions shall not exceed 1,000 ppmvd at 7% O ₂ for combustion sources, based on the average of any 60 consecutive minute period.	
4.24 SO ₂	NWCAA 520.14 (4/14/93)	<u>Sulfur Compounds in Fuel</u> Prohibited to burn, sell, or make available for sale for burning in fuel burning equipment within the jurisdiction of the NWCAA, fuel containing sulfur in excess of the following for a time period not to exceed 30 days in a 12-month period: <ul style="list-style-type: none">• gaseous fuels – 50 grains/100 scf	

Term	Citation	Description	Monitoring, Recordkeeping, & Reporting
4.25 SO ₂	NWCAA 520.14 (5/9/96 state only)	<p><u>Sulfur Compounds in Fuel</u></p> <p>Prohibited to burn, sell, or make available for sale for burning in fuel burning equipment within the jurisdiction of the NWCAA, fuel containing sulfur in excess of the following for a time period not to exceed 30 days in a 12-month period:</p> <ul style="list-style-type: none"> • gaseous fuels – 50 grains/100 scf <p>Ocean-going vessels are exempt.</p>	<p><i>Directly Enforceable:</i></p> <p>Follow MR&R under AOP Term 4.21.</p>

SECTION 5 SPECIFICALLY APPLICABLE REQUIREMENTS FOR EMISSION UNITS

The cited requirements in the “Citation” column and incorporated herein by reference are applicable to emission units specified in the header of the table. These requirements are federally enforceable unless identified as “State Only”. A requirement designated “State Only” is enforceable only by the state or the NWCAA, and not by the EPA or through citizen suits. The “Description” column is a brief description of the applicable requirements for informational purposes only and is not enforceable. Periodic or continuous monitoring requirements, including testing, are specified in the “Monitoring, Recordkeeping and Reporting” (MR&R) column, which identifies MR&R obligations the source must perform as required by WAC 173-401-605(1) and 615(1) and (2) or the underlying requirement. MR&R obligations do not apply to insignificant emission units. The test method cited or any credible evidence may be used to determine compliance.

The requirements in the MR&R column labeled “Directly Enforceable” are legally enforceable requirements added under the NWCAA’s “gap-filling” authority (WAC 173-401-615(1)(b) & (c), (10/17/02)). Other requirements not labeled “Directly Enforceable” are brief descriptions of the regulatory requirements for information purposes, and are not enforceable. Unless the text of the MR&R column is specifically identified to be directly enforceable, the language of the cited regulation takes precedence over a paraphrased requirement.

All of the federal regulations listed in Section 5 have been adopted by reference in Section 104.2 of the NWCAA Regulation. NWCAA 104.2 was last amended by the agency on September 13, 2018.

Table 5-1 Specifically Applicable Requirements

Permit Term	Citation	Description	Monitoring, Recordkeeping & Reporting
All Compressors			
5.1 NO _x	PSD 92-4 Amendment 1 Condition 3 (5/11/98) OAC 793d Conditions 2 and 9(a) and 9(c) (11/21/11)	<u>NO_x Limit</u> - The total NO _x emissions from the compressors on site (including turbines and reciprocating engines) shall not exceed 1200 tons for any twelve consecutive months.	NWP-SCS shall utilize source test data, operating data, and emissions factors to determine compliance status. Data shall be summarized on a monthly basis, but reported quarterly. Include in the reports: Certification that only natural gas from the pipeline was burned. Results of all calculations used to determine NO _x emissions. On a monthly basis, permittee shall utilize source test data, operating data and emissions factors to determine compliance status. Use 40 CFR 60 Appendix A Method 20, a portable analyzer using EPA Conditional Test Method 34, or an alternative testing protocol approved by Ecology for assuring accuracy.
All Reciprocating Engines (Units 1- 6; A- and B-Plants)			

Permit Term	Citation	Description	Monitoring, Recordkeeping & Reporting
5.2 NO _x	PSD 92-4 Amendment 1 Condition 3 (5/11/98) OAC 793d Conditions 10 and 11 (11/21/11)	The NO _x emissions from one of the four identical Ingersoll–Rand 412 KVS (Units 1-4) reciprocating engines and from one of the two identical Clark TCV-12 (Units 5 and 6) reciprocating engines shall be determined by stack testing once every five years.	Test plan shall be submitted at least 30 days prior to test. Test result shall be submitted no later than 60 days after testing. Use 40 CFR 60 Appendix A Method 7A-7E.
Mars 90S Turbines (Units 7-8, C- and D-Plants), Caterpillar 270 kW Emergency Generator, and Sellers C60 Heater/Boiler (D-Plant)			
5.3 SO ₂	PSD-01-08, Amendment 4 Condition 1 (10/6/11) OAC 793d Conditions 1, 4 and 9(a) (11/21/11)	NWP is allowed to burn only natural gas from the pipeline.	Submit quarterly reports certifying that only natural gas from the pipeline was used. Quarterly reports shall be submitted no later than 45 days after the end of each calendar quarter.
5.4 SO ₂	OAC 793d, Conditions 6 and 9(b) (11/21/11)	NWP-SCS shall monitor total sulfur in natural gas combusted at the Sumas facility on an hourly basis.	Monitor sulfur content of the fuel on an hourly schedule in units of grains of total sulfur per 100 standard cubic feet of natural gas. Quarterly reports shall be submitted no later than 45 days after the end of each calendar quarter. Report the fuel composition including a summary of the results for the reporting period, an electronic copy of hourly data and an explanation of all times during which the monitor was inoperable or malfunctioning. Missing data shall not be considered a deviation if 1) NWP has provided cause of inoperability, 2) NWCAA has not found cause to be unreasonable, and 3) NWP substitutes all periods of missing data with highest valid measurement during previous 30 days.
5.5 NO _x	OAC 793d, Conditions 3 and 9(c) (11/21/11)	<u>NO_x Limit</u> - The total NO _x emissions for Units 7, 8 and 9 (Mars 90 turbines), the Caterpillar emergency generator and the Sellers C60 heater/boiler (D-Plant) shall not exceed 127.11 tons for any twelve consecutive months.	NWP-SCS shall utilize source test data, operating data and emissions factors to determine compliance status. Data shall be summarized on a monthly basis, but reported quarterly. The reports are due no later than 45 days after the end of each calendar quarter and shall include results of all calculations performed during the calendar quarter that were used to determine compliance status.

Permit Term	Citation	Description	Monitoring, Recordkeeping & Reporting
5.6 VE	OAC 793d Conditions 5, 8(h) and 11 (11/21/11)	Visible emissions for Units 7, 8 and 9 (Mars 90 turbines), the Caterpillar emergency generator and the Sellers C60 heater/boiler (D-plant) shall not exceed 5% opacity except during periods of startup or shutdown.	For Units 7, 8, and 9, NWP-SCS shall complete annual source tests at peak load for opacity using 40 CFR 60 Appendix A Method 9. Annual source tests shall occur no later than 13 months after the previous test. Test plans shall be submitted at least 30 days prior to test. Test results shall be submitted no later than sixty days after testing. Directly Enforceable: For Units 7, 8 and 9, the Caterpillar standby generator and the Sellers C60 heater/boiler (D-plant), follow MR&R procedure in Permit condition 4.15. Report exceedances in the quarterly compliance report.
5.7 General	PSD-01-08 Amendment 4 Condition 10 (10/6/11) OAC 793d, Condition 1 (11/21/11)	Operation and Equipment (O&M) Manual for the facility. Within 90 days of startup NWP-SCS shall identify operational procedures for the emergency generator, Sellers C60 heater/ boiler (D-plant) and combustion turbines that constitute proper operation relative to compliance with emission limitations.	O&M manuals shall be kept up-to-date and readily available at the facility. Manuals shall include, at a minimum: Manufacturers' operating instructions and design specifications. Normal operating parameters and design specifications. Updates to reflect any modifications made to equipment or operating procedure.
Mars 90S Turbines (Units 7, 8 and 9; C- and D-Plants)			
5.8 General	OAC 793d Conditions 8(j) and 8(k) (11/21/11)	Facility shall perform a boroscope analysis on each turbine not later than 12 months after initial startup and then according to the manufacturer's specified schedule. Visual inspections of the fuel injectors shall be completed 12 months after startup and then according to the manufacturer's specified schedule.	The results of any testing shall be maintained on site and available for review by NWCAA personnel.

Permit Term	Citation	Description	Monitoring, Recordkeeping & Reporting
5.9 SO ₂	40 CFR §60.333(b) (7/8/04) §60.334(h)(3)(i) (2/24/06) NWCAA 104.2 (9/13/18)	<u>NSPS Subpart GG – Fuel Bound Sulfur</u> Sulfur content of fuels limited to 0.8%, by weight. Any daily period during which the sulfur content of the fuel being combusted in the gas turbine exceeds 0.8%, by weight, shall be deemed a period of excess emissions and reported.	NWP-SCS has elected not to monitor the total sulfur content of the gaseous fuel as allowed by §60.334(h)(3)(i) and formalized in a letter to NWCAA dated 01/23/04.
5.10 NO _x	PSD-01-08 Amendment 4 Condition 4 (10/6/11) OAC 793d Conditions 1, 8(a)- (c), 8(d)(i), 8(d)(iii), 8(f)-(h), 9(e)(ii)-(iii) and 11 (11/21/11) 40 CFR §60.7(b) (2/12/99) NWCAA 104.2 (9/13/18)	NO _x emissions are limited to 25 ppmvd over a three hour average when corrected to 15% O ₂ ISO except during startup and shutdown.	<p>NWP-SCS shall monitor compliance by measuring NO_x concentration in each turbine exhaust stack by use of a portable emissions analyzer not less frequently than every 336 hours of operation. NWP-SCS shall perform three consecutive tests using the portable analyzer. Should the average of the three tests indicate noncompliance, shut down the unit as soon as practical and contact the NWCAA within 12 hours. Exceedance of the limit imposed by Condition 8(d)(i) of OAC 793d as indicated by the average of the three consecutive tests shall be prima facie evidence of a violation of Condition 8(d)(i) of OAC 793d.</p> <p>After six consecutive months of testing, OAC 793d(8)(f)(iv) includes a process for relaxing the testing frequency to once every 672 hours of operation.</p> <p>NWP-SCS shall verify the accuracy of any portable analyzers not less than once every calendar year in conjunction with annual stack tests and keep records of accuracy verification for not less than five years and make them available upon request within five days for NWCAA review.</p> <p>The NO_x emission limit is relieved during startup and shutdown. NWP-SCS shall keep a record of each startup and shutdown event as defined in OAC 793d and 40 CFR 60.</p> <p>Testing shall be done in accordance with EPA Designated Conditional Test Method 34. An alternate test method may be used if approved in writing by NWCAA prior to the test.</p> <p>Submit quarterly monitoring and process data report. Report shall be submitted no later than 45 days after the end of each calendar quarter. Report shall include all exhaust stack NO_x concentrations measured using the portable analyzer</p>

Permit Term	Citation	Description	Monitoring, Recordkeeping & Reporting
			<p>during the previous quarter. For each occurrence of NO_x emissions in excess of the limits report: (1) time of occurrence; (2) magnitude of the emission; (3) the duration (4) probable cause; (5) corrective actions taken; and (6) any other Agency contacted.</p> <p>Annual source tests shall occur no later than 13 months after the previous test. Testing for NO_x shall be conducted at four points in the normal operating range of the turbines, including the minimum point in the normal operating range and peak load. Testing for opacity shall be at peak load. Test plan shall be submitted at least thirty days prior to test. Source test results shall be submitted no later than 60 days after testing.</p> <p>Use following test 40 CFR 60 Appendix A Methods:</p> <p>Opacity Method 9 NO_x Method 20</p>
5.11 NO _x	40 CFR §60.332(a)(2) and (d) (6/30/16) §60.334(c) (2/24/06) NWCAA 104.2 (9/13/18)	<u>Subpart GG NO_x Standard</u> The turbines shall not discharge into the atmosphere any gases which contain nitrogen oxides in excess of 196 ppmvd at 15% O ₂ .	<p>If the owner or operator has previously submitted and received EPA or local authority approval of a petition for an alternative procedure for continuously monitoring compliance with an applicable NO_x emissions limit that procedure may continue to be used.</p> <p>Monitor NO_x emissions in accordance with alternate monitoring program described in AOP Condition 5.10.</p> <p>Notes:</p> <p>Heat rate of Solar Mars 90 turbines = 7,789 Btu/Hp-hr @ 59°F</p> <p>Fuel flow of Solar Mars 90 turbines = 100.03 MMBtu/hr @ 59°F</p> <p>Net Output Power of Solar Mars 90 turbines = 12,841 Hp @ 59°F</p> <p>Net Output Power of Solar Mars 90 turbines = 9.58 MW @ 59°F</p>

Permit Term	Citation	Description	Monitoring, Recordkeeping & Reporting
5.12 NO _x	OAC 793d Condition 8(d)(ii), 8(e), 8(i), 9(e)(i) and 9(e)(iii) (11/21/11)	Total NO _x emissions from Units 7, 8 and 9 shall not exceed 126 tons during any consecutive 12-month period. NO _x emissions during startup and shutdown shall be counted toward the 12 month mass emission limit at a rate of 4 lbs per startup or shutdown.	<p>Within 20 days of the end of each month NWP-SCS shall determine the tons of NO_x from each turbine for the most recent consecutive 12 month period. For this calculation, NWP shall utilize a time-weighted average of the relevant stack test results wherein the results of each source test shall be the presumed emission rate until the next source test.</p> <p>Submit quarterly monitoring and process data report. Report shall be submitted no later than 45 days after the end of each calendar quarter. Report shall include results of all calculations necessary to show compliance status for the reporting period.</p> <p>For each occurrence of NO_x emissions in excess of the limits report: (1) time of occurrence; (2) magnitude of the emission; (3) the duration (4) probable cause; (5) corrective actions taken; and (6) any other Agency contacted.</p>
5.13 CO	PSD-01-08 Amendment 4 Condition 5.3, 5.5.2 and 9.3.2, (10/06/11) OAC 793d Condition 1 (11/21/11)	Mass emissions of CO shall not exceed 46.5 tons per turbine for any consecutive 12 month period.	<p>Within 20 days of the end of each month NWP-SCS shall determine the tons of CO emissions from each of the turbines for the most recent consecutive 12 months. Use time-weighted average of relevant stack tests.</p> <p>Submit quarterly monitoring and process data report. Report shall include the total CO mass emissions for the 12 immediately preceding months for each turbine.</p>
5.14 CO	PSD-01-08 Amendment 4 Conditions 5.1, 5.2, 5.4, 5.5.1, 6, 7, 9.3.1, 9.3.3, 9.3.4, 9.3.5 and 9.3.6 (6/14/06) OAC 793d Condition 1 (11/21/11)	CO emissions shall not exceed 50 ppmvd over a one hour average corrected to 15% O ₂ . Mass emissions of CO shall not exceed 14.0 lbs/hour per turbine as a one hour average.	<p>NWP-SCS shall demonstrate compliance initially and annually in accordance with 40 CFR 60 Appendix A Method 10 except that instrument span may be reduced as appropriate. NWP-SCS shall submit a test plan to WDOE and NWCAA for approval 30 days prior to testing. Complete test report shall be submitted to NWCAA no later than 60 days after completion of test. Initial compliance shall be demonstrated within 180 days of initial startup. Annual compliance shall be demonstrated no sooner than 10 months after the previous test and no later than 13 months after the previous test. NWP-SCS shall provide safe access and sampling ports.</p> <p>For compliance monitoring the turbine exhaust stack CO concentration shall be measured not less frequently than</p>

Permit Term	Citation	Description	Monitoring, Recordkeeping & Reporting
			<p>every 336 hours of operation using a portable emissions analyzer. Testing shall be done with accordance with EPA Designated Conditional Test Method 034. An alternate or modified test method may be used if approved in writing by Ecology prior to the test. Accuracy of the portable analyzer shall be verified no less than once every calendar year in accordance with the approved protocol.</p> <p>NWP-SCS shall perform three consecutive tests using the portable analyzer. Should the average of the three tests indicate noncompliance, shut down the unit as soon as practical and contact the NWCAA within 12 hours.</p> <p>Exceedance of the limit imposed by Condition 5.1 of PSD-01-08, Amendment 4 as indicated by the average of the three consecutive tests shall be prima facie evidence of a violation of Condition 5.1 of PSD-01-08, Amendment 4.</p> <p>After six consecutive months of testing, the PSD permit includes a process for relaxing the testing frequency to once every 672 hours of operation.</p> <p>Submit quarterly monitoring and process data report. Report shall include:</p> <p>All exhaust stack CO concentrations measured using the portable analyzer during the reporting period</p> <p>Details of any scheduled portable analyzer test not completed</p> <p>Results of portable analyzer tests completed during the reporting period</p> <p>For each occurrence of CO monitored emissions in excess of the concentration limits or mass limits, report: (1) time of occurrence; (2) magnitude of the emission; (3) the duration (4) probable cause; (5) corrective actions taken; and (6) any other Agency contacted.</p>

Permit Term	Citation	Description	Monitoring, Recordkeeping & Reporting
Caterpillar 270 kW Emergency Generator (D-Plant)			
5.15 General	PSD-01-08 Amendment 4 Condition 2.1, 2.2 and 9.1 (10/6/11) OAC 793d Condition 1, 7 and 9(d) (11/21/11)	The standby generator shall be operated no more than 500 hours in any consecutive 12 month period.	Compliance shall be monitored by installing a non-resettable hour meter with monthly recording of the hour meter reading; or alternatively, automated data collection may be used. Submit quarterly monitoring and process data report. Report shall include the total hours of operation for the 12 immediately preceding months.
5.16 General	PSD-01-08 Amendment 4 Condition 2.3 (10/6/11) OAC 793d Condition 1 (11/21/11)	Install a three-way catalytic converter Model # EQ-601-08-C2 or equivalent.	Directly Enforceable: Develop operation and maintenance plan and make it available within five days for NWCAA review.
Caterpillar 390 kW Emergency Generator (C-Plant)			
5.17 General	OAC 403 Rev. 1 Condition 3 (1/2/96)	An operation and maintenance plan shall be made available to the operators.	Directly Enforceable: Develop operation and maintenance plan and make it available within five days for NWCAA review.
5.18 General	OAC 403 Rev. 1 Conditions 4, 5 and 6 (1/2/96)	The emergency generator shall burn only natural gas from the pipeline and be limited to no more than 400 hours of operation per year.	Maintain annual inventory of fuel usage and hours of operation.
5.19 VE	OAC 403 Rev. 1 Condition 2 (1/2/96)	Opacity shall not exceed 5% for more than six minutes in any one hour period.	Directly Enforceable: If visible emissions are observed by plant personnel, the facility shall take immediate corrective action, maintain records of observations and corrective action taken, and report the incident to the NWCAA as soon as possible. Report exceedances in the quarterly compliance report.
Sellers C60 Boiler/Heater (D-Plant)			
5.20 CO	PSD-01-08 Amendment 4 Condition 3 and 9.2 (10/6/11)	The CO emissions shall be calculated using AP-42 factors or other methods approved by Ecology.	Submit quarterly monitoring and process data report. Report shall include the total monthly CO mass emissions.

Permit Term	Citation	Description	Monitoring, Recordkeeping & Reporting
	OAC 793d Condition 1 (11/21/11)		
Sellers C60 Heater/Boiler (C-Plant)			
5.21 General	OAC 403 Rev. 1 Condition 3 (1/2/96)	An operation and maintenance plan shall be made available to the operators.	Directly Enforceable: Develop operation and maintenance plan and make it available within five days of a request for NWCAA review.
5.22 General	OAC 403 Rev. 1 Conditions 4 and 6 (1/2/96)	The boiler shall burn only natural gas from the pipeline.	Maintain annual inventory of fuel usage and hours of operation.
5.23 VE	OAC 403 Rev. 1 Condition 2 (1/2/96)	Opacity shall not exceed 5% for more than six minutes in any one hour period.	Directly Enforceable: If visible emissions are observed by plant personnel, the facility shall take immediate corrective action, maintain records of observations and corrective action taken, and report the incident to the NWCAA as soon as possible. Report exceedances in the quarterly compliance report.
Sellers C100 Boiler/Heater (A-Aux)			
5.24 General	OAC 259 Condition 2 (9/18/89)	Natural gas shall be the only fuel allowed to be combusted in this boiler.	Directly Enforceable Maintain annual inventory of fuel usage and hours of operation.
Sellers C60 Heater/Boiler (C-Plant), Sellers C60 Heater/Boiler (D-Plant), and Sellers C100 Heater/Boiler (A-Aux)			
5.25 Boiler MACT	40 CFR §63.7500(a) & (e) (11/20/15) §63.7505(a) (11/20/15) §63.7515(d) (11/20/15) §63.7540(a)(10) & (a)(12) (11/20/15)	<u>Boiler MACT Tune-ups</u> Conduct a tune-up on the boilers no less than once every 61 months. The periodic tune-up shall include the following; inspect the burner, clean and replace burner components as necessary, inspect the burner flame pattern and adjust as necessary, inspect and maintain the air-to-fuel ratio system to ensure it is calibrated and functioning properly by measuring CO concentrations in the exhaust	At least once every five calendar years, submit electronically to EPA's Central Data Exchange (www.cdx.epa.gov) a report demonstrating that a periodic tune-up was completed. The report shall include the tune-up and burner inspection dates, a statement regarding deviations during the reporting period, and a certification by the Responsible Official. Maintain a copy of each compliance report submitted. Maintain a record describing each tune-up including CO concentrations before and after the tune-up and any corrective actions taken as a part of the tune-up

Permit Term	Citation	Description	Monitoring, Recordkeeping & Reporting
	<p>§63.7550(a), (b), (c)(1), (c)(5), (h)(3) and Table 9 (11/20/15)</p> <p>§63.7555(a) (11/20/15)</p> <p>NWCAA 104.2 (9/13/18)</p>	with a portable analyzer before and after adjustments are made.	
Cummins GTA 855 250 kW (A-Aux), and Caterpillar 270 kW (D-Plant) Emergency RICE			
5.26 RICE NESHAP	<p>40 CFR</p> <p>§63.6595(a)(1) (1/30/13)</p> <p>§63.6605 (1/30/13)</p> <p>§63.6625(e) (1/30/13)</p> <p>§63.6655(a)(5) (1/30/13)</p> <p>NWCAA 104.2 (9/13/18)</p>	At all times operate and maintain the engines, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.	<p>Determination of whether such operation and maintenance procedures are being used will be based on information available to the Agency which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.</p> <p>Maintain records of actions taken during periods of malfunction to minimize emissions including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.</p> <p>Keep the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.</p>
5.27 RICE NESHAP	<p>40 CFR</p> <p>§63.6602 (1/30/13)</p> <p>§63.6625(f) and (j) (1/30/13)</p> <p>§63.6640 (1/30/13)</p> <p>§63.6655(a)(2), (4) and (5) (1/30/13)</p> <p>Table 2c(6) (3/6/13) and Table 6(9)</p>	<p><u>Emission Limitations</u></p> <p>(a) Operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions;</p> <p>(b) Install a non-resettable hour meter;</p> <p>(c) Change oil and filter every 500 hours of operation or annually, whichever comes first, or alternately follow the provisions in 40 CFR §63.6625(j) to test the oil;</p>	<p>Keep the following records:</p> <p>(a) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.</p> <p>(b) Records of all required maintenance performed on the air pollution control and monitoring equipment.</p> <p>(c) Records of actions taken during periods of malfunction to minimize emissions.</p>

Permit Term	Citation	Description	Monitoring, Recordkeeping & Reporting
	(1/30/13) to 40 CFR 63 Subpart ZZZZ NWCAA 104.2 (9/13/18)	(d) Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; (e) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	
5.28 RICE NESHAP	40 CFR §63.6625(h) (1/30/13) §63.6640(f)(1) (1/30/13) §63.6655(e) and (f) (1/30/13) NWCAA 104.2 (9/13/18)	<p>There is no time limit on the use of emergency stationary RICE in emergency situations.</p> <p>Maintenance checks and readiness testing of such units is limited to 100 hr/year.</p> <p>You must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Table 2c to subpart ZZZZ to 40 CFR 63 apply.</p> <p>The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.</p> <p>You may operate your engines for up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing.</p> <p>The engines may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent.</p>	<p>You must keep records of the hours of operation of the engine that is recorded through a non-resettable hour meter.</p> <p>You must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.</p> <p>You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan.</p> <p>If the engines are used for demand response operation, you must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.</p>

SECTION 6 INAPPLICABLE REQUIREMENTS

The regulations identified in Table 6-1 do not apply to the Northwest Pipeline LLC, Sumas Compressor Station, as of the date of permit issuance. The basis for this determination is listed in Table 6-1.

Table 6-1 Inapplicable Requirements

CITATION	TITLE	BASIS
NWCAA 324	Registration Fee	A registration fee under NWCAA Section 324 is not required because this source is subject to the operating permit program and must pay an annual operating fee under 322.4.
NWCAA 460	Weight/Heat Rate Standard, Sulfur Compounds in Fuel	The facility does not have a total potential heat input capacity greater than 500 MMBtu per hour.
Title 40 CFR Part 68	Accidental Release Prevention	40 CFR Part 68 does not apply to the transportation of substances provided such transportation is regulated by 49 CFR 192, 193, or 195. For this facility, the transportation is regulated under 49 CFR 192.
Title 40 CFR Part 60 Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	40 CFR applies only to steam generating units constructed, modified, or reconstructed after June 9, 1989, with a maximum heat input capacity of 100 MMBtu/hr or less, but greater than or equal to 10 MMBtu/hr. The facility does not have any steam generating units fitting this description.
Title 40 CFR Part 60 Subpart KKKK	Standards of Performance for Stationary Combustion Turbines	This combustion turbine NSPS applies to any units constructed, modified, or reconstructed after February 18, 2005. The new Solar turbines installed at the facility in early 2003 are not subject to the rule since purchase agreements for the new equipment occurred before this date.
Title 40 CFR Part 63 Subpart YYYY	National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	The combustion turbine MACT was promulgated on March 5, 2004 and applies to any units constructed or reconstructed after January 14, 2003. The new Solar Turbines installed at the facility in early 2003 are not subject to the rule since purchase agreements for the new equipment occurred before this date.