

**WASHINGTON STATE DEPARTMENT OF ECOLOGY
EASTERN REGIONAL OFFICE
4601 NORTH MONROE
SPOKANE, WASHINGTON 99205-1295**

IN THE MATTER OF THE COMPLIANCE BY) AIR OPERATING PERMIT
AVISTA CORPORATION) No. 18AQ-E017
KETTLE FALLS GENERATING STATION)
LOCATED IN KETTLE FALLS, WA) **DRAFT PERMIT**
1151 Highway 395 North, Kettle Falls, Washington 99141)
with Section 70.94.161 RCW, Operating Permits for)
Air Contaminant Sources, and the applicable rules and)
regulations of the Department of Ecology)

To: Avista Corporation
1411 East Mission
Spokane, Washington 99220-3727

Issuance Date: DRAFT
Effective Date: DRAFT
Expiration Date: DRAFT

Responsible Official: Mr. Dennis Vermillion

Legal Authority: This Air Operating Permit is issued under the authority and provisions of the Federal Clean Air Act (FCAA), (42 U.S.C. 7401, et seq.), the Washington Clean Air Act, Chapter 70.94 Revised Code of Washington (RCW) and the Operating Permit Regulation, Chapter 173-401 Washington Administrative Code (WAC).

Hereinafter, Avista Corporation, Kettle Falls Generating Station is called the permittee. The permittee is required to comply with the provisions contained within this permit.

The Renewal Air Operating Permit, per WAC 173-401-710(1), is DATED this [day] of [month], 2018.

PREPARED BY:

APPROVED BY:

DRAFT
Andy Kruse, PE
Eastern Regional Air Quality Section
Department of Ecology
State of Washington

DRAFT
David T. Knight, Section Manager
Eastern Regional Air Quality Section
Department of Ecology
State of Washington

TABLE OF CONTENTS

LIST OF ABBREVIATIONS -----	3
1. Standard Conditions -----	4
1.1 Permit Shield-----	4
1.2 Severability-----	4
1.3 Property Rights -----	4
1.4 Emissions Trading -----	4
1.5 Enforceability-----	4
1.6 General Obligations-----	4
1.7 Reasonably Available Control Technology (RACT) -----	5
1.8 Need to Halt or Reduce Activity Not a Defense-----	5
1.9 Permit Actions-----	5
1.10 Permit Continuation-----	5
1.11 Permit Appeals -----	5
1.12 Duty to Comply-----	6
1.13 Inspection and Entry -----	6
1.14 Permit Fees -----	7
1.15 Duty to Provide Information-----	7
1.16 Excess Emissions Due to an Emergency-----	7
1.17 Unavoidable Excess Emissions -----	7
1.18 Record Keeping -----	8
1.19 Reporting -----	9
1.20 Certification -----	11
1.21 Permit Renewal and Expiration -----	11
1.22 Duty to Supplement or Correct Application-----	12
1.23 Administrative Permit Amendments-----	12
1.24 Reopening for Cause-----	12
1.25 Off-Permit Changes-----	13
1.26 Changes Not Requiring Permit Revisions -----	13
1.27 New Source Review -----	15
1.28 Replacement or Substantial Alteration of Emission Control Technology -----	15
1.29 Federal Chlorofluorocarbons (CFC) Requirements – Title VI of the FCAA-----	15
1.30 Demolition and Renovation (Asbestos)-----	16
1.31 Non-road Engines-----	16
1.32 Operational Flexibility-----	16
1.33 Compliance Schedules-----	16
2. Applicable Requirements -----	16
2.1 Section #1, Facility Wide -----	17
2.2 Section #2, Wood Waste Collection and Transport System -----	19
2.3 Section #3, Hog Fuel Boiler -----	19
2.4 Section #4, Natural Gas Combustion Turbine -----	24
2.5 Section #5, 80 HP Diesel Fire Pump-----	27
2.6 Section #6, 335 HP Diesel Generator-----	28
3. Monitoring, Recordkeeping, and Reporting Requirements (MRRR)’s -----	28
4. Non-Applicable Requirements -----	39

LIST OF ABBREVIATIONS

AOP	Air Operating Permit
BACT	Best Available Control Technology
BTU	British Thermal Units
°C	Degrees Celsius
CAM	Compliance Assurance Monitoring
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COMS	Continuous Opacity Monitoring System
dscf	Dry Standard Cubic Foot
dscf/m	Dry Standard Cubic Foot per minute
Ecology	Washington State Department of Ecology
E.I.T.	Engineer in Training
EPA	United States Environmental Protection Agency
°F	Degrees Fahrenheit
FCAA	Federal Clean Air Act
FDCP	Fugitive Dust Control Plan
ft ³	Cubic foot
gr/dscf	Grain per dry standard cubic foot
hr	Hour
MMBtu	Million British Thermal Units
MRRR	Monitoring, Recordkeeping, and Reporting Requirement
MVAC	Motor Vehicle Air Conditioner
N ₂	Nitrogen gas
NOC	Notice of Construction
NO _x	Oxides of Nitrogen
NSPS	New Source Performance Standard
O ₂	Oxygen
O&M	Operation & Maintenance
P.E.	Professional Engineer
PM	Particulate Matter
PM-10	Particulate Matter with aerodynamic diameter ≤ 10 micrometers
ppm	Parts per million
QIP	Quality Improvement Plan
PSD	Prevention of Significant Deterioration
RACT	Reasonably Available Control Technology
RCW	Revised Code of Washington
RM	EPA Reference Method from 40 CFR Part 60, Appendix A
scfm	Standard Cubic Feet per Minute
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
TAP	Toxic Air Pollutant
TPD	Tons Per Day
TPY	Tons Per Year
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound
WAC	Washington Administrative Code
yr	Year

All information required for submittal throughout this permit, is to be submitted to Ecology, EPA, or both as specified by the applicable requirement, at the following addresses:

Air Quality Program
Department of Ecology
4601 North Monroe
Spokane, Washington 99205-1295

U.S. EPA Region 10 Administrator
c/o Part 70 Permit Coordinator
AWT-150
1200 Sixth Avenue
Seattle, Washington 98101

1. STANDARD CONDITIONS

1.1 Permit Shield

1.1.1 Compliance with the terms and conditions of this permit shall be deemed compliance with those applicable requirements that are specifically included and identified in this permit as of the date of permit issuance.

1.1.2 The permit shield shall not apply to any insignificant emissions unit or activity designated under WAC 173-401-530.

[WAC 173-401-530(3), 9/16/02, 2/3/16 (S)], [WAC 173-401-640(1), 9/16/02, 2/3/16 (S)]

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

[WAC 173-401-620(2)(h), 9/16/02, 2/3/16 (S)], [RCW 70.94.905, 2017 (S)]

1.3 Property Rights - This permit does not convey any property rights of any sort, or any exclusive privilege.

[WAC 173-401-620(2)(d), 9/16/02, 2/3/16 (S)]

1.4 Emissions Trading - No permit revision shall be required, under any approved economic incentives, marketable permits, emission trading, and other similar programs or processes for changes that are provided for in this permit.

[WAC 173-401-625, 9/16/02, 2/3/16 (S)]

1.5 Enforceability - All terms and conditions of the permit are enforceable by the EPA and citizens unless specifically designated as state-only (S) enforceable.

[WAC 173-401-620(2)(g), 9/16/02, 2/3/16 (S)]

1.6 General Obligation - Nothing in this permit shall alter or affect the following:

1.6.1 The provisions of section 303 of the FCAA (emergency orders), including the authority of EPA under that section.

1.6.2 The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.

1.6.3 The applicable requirements of the acid rain program, consistent with section 408(a) of the FCAA.

1.6.4 The ability of EPA to obtain information from a source pursuant to section 114 of the FCAA.

1.6.5 The ability of Ecology to establish or revise requirements for the use of reasonably available control technology (RACT) as provided in chapter 252, Laws of 1993.

[WAC 173-401-640(4), 9/16/02, 2/3/16 (S)]

1.7 Reasonably Available Control Technology (RACT) - Emission standards and other requirements contained in rules or regulatory orders in effect at the time of operating permit issuance or renewal shall be considered RACT for the purpose of permit issuance or renewal. RACT determinations under section 8, chapter 252, Laws of 1993 shall be incorporated into an operating permit as provided in WAC 173-401-730.

[WAC 173-401-605(3), 9/16/02, 2/3/16 (S)], [RCW 70.94.154, 2017 (S)]

1.8 Need to Halt or Reduce Activity not a Defense - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

[WAC 173-401-620(2)(b), 9/16/02, 2/3/16 (S)]

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

[WAC 173-401-620(2)(c), 9/16/02, 2/3/16 (S)]

1.10 Permit Continuation - 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. An application shield granted pursuant to WAC 173-401-705(2) shall remain in effect until the renewal permit has been issued or denied if a timely and complete application has been submitted.

[WAC 173-401-620(2)(j), 9/16/02, 2/3/16 (S)]

1.11 Permit Appeals

You have a right to appeal this permit to the Pollution Control Hearings Board (PCHB) within 30 days of the date of receipt of this permit. The appeal process is governed by Chapter 43.21B RCW and Chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2).

To appeal you must do all of the following within 30 days of the date of receipt of this permit:

- File your appeal and a copy of this permit with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.
- Serve a copy of your appeal and this permit on Ecology in paper form - by mail or in person (see addresses below). E-mail is not accepted.

You must also comply with other applicable requirements in Chapter 43.21B RCW and Chapter 371-08 WAC.

Address and Location Information:

Street Addresses	Mailing Addresses
<p>Department of Ecology Attn: Appeals Processing Desk 300 Desmond Drive SE Lacey, WA 98503</p> <p>Pollution Control Hearings Board 1111 Israel RD SW STE 301 Tumwater, WA 98501</p>	<p>Department of Ecology Attn: Appeals Processing Desk PO Box 47608 Olympia, WA 98504-7608</p> <p>Pollution Control Hearings Board PO Box 40903 Olympia, WA 98504-0903</p>

[RCW 70.94.221, 12/12/17 (S)]

This provision for appeal in this section is separate from and additional to any federal rights to petition and review under Section 505(b) of the FCAA.

[WAC 173-401-620(2)(i), 9/16/02, 02/3/16 (S)]

1.12 Duty to Comply - The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of chapter 70.94 RCW and, for federally enforceable provisions, a violation of the 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.

[WAC 173-401-620(2)(a), 9/16/02, 2/3/16 (S)], [Order No. DE 95AQ-E131 Fourth Amendment, Issued 1/6/17, Approval Condition 8.5], [Order No. PSD-X80-11, Issued 07/28/80, Approval Condition 5], [Order No. 02AQER-3519 First Amendment, Issued 05/23/2011, Approval Conditions 9.6, 9.7]

1.13 Inspection and Entry - Upon presentation of credentials and other documents as may be required by law, the permittee shall allow Ecology, or an authorized representative to perform the following:

1.13.1 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 this permit.

1.13.2 Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.

1.13.3 Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

1.13.4 As authorized by WAC 173-400-105 and the FCCA, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.

[WAC 173-401-630(2), 9/16/02, 2/3/16 (S); RCW 70.94.200, 2017 (S); Order No. DE 95AQ-E131 Fourth Amendment, Issued 1/6/17, Approval Condition 8.2]

1.13.4.1 Ecology may require the permittee to conduct stack testing and/or ambient air monitoring and report the results to Ecology.

1.13.4.2 Ecology may conduct or require that a test be conducted using approved methods from 40 CFR parts 51, 60, 61 and 63 (in effect on July 1, 2012), or Ecology's Source Test Manual – Procedures for Compliance Testing. The permittee shall be required to

provide platform and sampling ports. Ecology shall be allowed to obtain a sample from any emissions unit. The permittee shall be given the opportunity to observe the sampling and to obtain a sample at the same time.

[WAC 173-400-105(2),(4), 10/6/16, 5/31/16 (S)]

1.13.5 Ecology may conduct source tests and require access to records, books, files, and other information specific to the control, recovery, or release of pollutants regulated under 40 CFR Parts 61, 62, 63 and 65, as applicable, in order to determine the status of compliance of sources of these contaminants and to carry out its enforcement responsibilities.

[WAC 173-400-075(2), 5/31/16 (S)]

1.13.6 No person shall obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties.

[RCW 70.94.200, 2017 (S)]

1.13.7 Nothing in this condition shall limit the ability of EPA to inspect or enter the premises of the permittee under Section 114 or other provisions of the FCAA.

[40 CFR 60.8(e), 07/01/17]

1.14 Permit Fees - The permittee shall pay fees as a condition of this permit in accordance with Ecology's fee schedule. Failure to pay fees in a timely fashion shall subject the permittee to civil and criminal penalties as prescribed in chapter 70.94 RCW. Ecology may revoke this permit if the permit fees are not paid per WAC 173-401-930(3).

[WAC 173-401-620(2)(f), 930(3), 9/16/02, 2/3/16 (S)], [RCW 70.94.162(1), 2017 (S)]

1.15 Duty to Provide Information - The permittee shall furnish to Ecology, within a reasonable time, any information that Ecology 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 Ecology copies of records required to be kept by this permit or, for information claimed to be confidential, the permittee may furnish such records directly to Ecology along with a claim of confidentiality. Ecology shall maintain confidentiality of such information in accordance with RCW 70.94.205.

[WAC 173-401-620(2)(e), 9/16/02, 2/3/16 (S)]

No person shall render inaccurate any required monitoring device or method.

[WAC 173-400-105(8), 10/6/16, 5/31/16 (S)]

1.16 Excess Emissions Due to an Emergency - The permittee may seek to establish that noncompliance with a technology-based¹ emission limitation under this permit was due to an emergency.² To do so, the permittee shall demonstrate the affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that:

¹ Technology-based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a new source performance standard) rather than those established to attain a health based air quality standard.

² An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of this source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes this source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

- 1.16.1** An emergency occurred and that the permittee can identify the cause(s) of the emergency,
 - 1.16.2** The permitted facility was being properly operated at the time of the emergency,
 - 1.16.3** During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in this permit, and
 - 1.16.4** The permittee submitted notice of the emergency to Ecology within two (2) working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- [WAC 173-401-645, 9/16/02, 2/3/16 (S)]

1.17 Unavoidable Excess Emissions - Excess emissions determined to be unavoidable under the procedures and criteria in WAC 173-400-107 shall be excused and not subject to penalty.

- 1.17.1** The permittee shall have the burden of proving to Ecology that excess emissions were unavoidable. This demonstration shall be a condition to obtaining relief under 1.17.2, 1.17.3, or 1.17.4.
- 1.17.2** Excess emissions due to startup or shutdown conditions shall be considered unavoidable provided the source reports as required under Condition 1.17.5 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.
- 1.17.3** Excess emissions due to scheduled maintenance shall be considered unavoidable if the source reports as required under Condition 1.17.5 and adequately demonstrates that the excess emissions could not have been avoided through reasonable design, better scheduling for maintenance or through better operation and maintenance practices.
- 1.17.4** Excess emissions due to upsets shall be considered unavoidable provided the source reports as required under Condition 1.17.5 and adequately demonstrates that:
 - 1.17.4.1** The event was not caused by poor or inadequate design, operation, maintenance, or any other reasonably preventable condition,
 - 1.17.4.2** The event was not of a recurring pattern indicative of inadequate design, operation, or maintenance, and
 - 1.17.4.3** The operator took immediate and appropriate corrective action in a manner consistent with good air pollution control practice for minimizing emissions during the event, taking into account the total emissions impact of the corrective action, including slowing or shutting down the emission unit as necessary to minimize emissions, when the operator knew or should have known that an emission standard or permit condition was being exceeded.

1.17.5 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 Ecology as soon as possible. Other excess emissions shall be reported within 30 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, the owner or operator of the source 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.

[WAC 173-400-107(3), 6/2/95, 5/31/16 (S)]

1.18 Record Keeping

1.18.1 The permittee shall keep records of required monitoring information that includes, where applicable, the following:

1.18.1.1 The date, place, and time of the sampling or measurements.

1.18.1.2 The date(s) analyses were performed.

1.18.1.3 The company or entity that performed the analysis.

1.18.1.4 The analytical techniques or methods used.

1.18.1.5 The results of such analyses.

1.18.1.6 The operating conditions as existing at the time of sampling or measurement.

[WAC 173-401-615(2)(a), 9/16/02, 2/3/16 (S)]

1.18.2 The permittee shall keep records describing changes made at the source 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.

[WAC 173-401-615(2)(b), 9/16/02, 2/3/16 (S)]

1.18.3 The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) 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 from continuous monitoring instrumentation, and copies of all reports required by this permit.

[WAC 173-401-615(2)(c), 9/16/02, 2/3/16 (S)]

1.19 Reporting

1.19.1 Monthly Deviation Reports - The permittee shall report deviations from permit conditions, including those attributable to upset conditions as defined in this permit, and include the following information: the time the deviation occurred, the duration of the deviation, the magnitude of the deviation in relation to the applicable limit, the probable cause of the deviation, and any corrective actions or preventive measures taken. Such deviations shall be reported “promptly” to Ecology at the address included in this permit.

For deviations which represent a potential threat to human health or safety, “prompt” means as soon as possible, but in no case later than twelve (12) hours after the deviation is discovered. For deviations which the source believes to be unavoidable, “prompt” means as soon as possible. For deviations which represent a potential threat to human health or safety or which the source believes to be unavoidable, the initial report shall contain all available information regarding the deviation and may be submitted via e-mail or fax to the appropriate Ecology personnel. No later than thirty days after the end of each month, the permittee shall submit a report describing other deviations that were discovered that month or stating that no other deviations were discovered. Upon request by Ecology, the permittee shall submit a full written report including further details regarding the known causes, the corrective actions taken, and the preventative measures to be taken to minimize or eliminate the chance of recurrence. The source shall maintain a contemporaneous record of all deviations.

[WAC 173-401-615(3)(b), 9/16/02, 2/3/16 (S)], [WAC 173-400-107, 6/2/95, 5/31/16 (S)], [40 CFR 60.49b(h), 07/01/17], [WAC 173-401-630(1), 9/16/02, 2/3/16 (S)]

1.19.2 Semi-Annual Monitoring Reports - The permittee shall submit semi-annual reports which include monitoring, recordkeeping, and/or reporting information that is required to be submitted every six (6) months. Six-month periods shall be twice each calendar year from January 1st through June 30th, and from July 1st through December 31st. Semi-annual monitoring reports shall be due no later than forty-five (45) days following the end of each six (6) month period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with Condition 1.20.

[WAC 173-401-615(3)(a), 9/16/02, 2/3/16 (S)]

1.19.3 Compliance Certifications - The permittee shall submit a certification of compliance with permit terms and conditions at least once per calendar year. All certifications shall be submitted no later than forty-five (45) days following the end of the certification period. Ecology may require that compliance certifications be submitted more frequently for those emission units not in compliance with permit terms and conditions, or where more frequent certification is specified in the applicable requirement.

[WAC 173-401-630(3), 9/16/02, 2/3/16 (S)]

1.19.3.1 The certification shall describe and include the following:

1.19.3.1.1 The permit term or condition that is the basis of the certification,

1.19.3.1.2 The current compliance status,

1.19.3.1.3 Whether compliance was continuous or intermittent, and

1.19.3.1.4 The methods used for determining compliance, currently and over the reporting period consistent with WAC 173-401-615(3)(a).

[WAC 173-401-630(3), 9/16/02, 2/3/16 (S)]

1.19.3.2 All compliance certifications shall be submitted to Ecology and EPA Region 10 at the respective addresses included in this permit.

[WAC 173-401-630(5), 9/16/02, 2/3/16 (S)]

1.19.3.3 Where permit conditions do not require testing, monitoring, recordkeeping and reporting for insignificant emission units or activities, the permittee may certify continuous compliance if there are not observed, documented, or know instances of noncompliance during the reporting period.

1.19.3.4 Where permit conditions require testing, monitoring, recordkeeping or reporting for insignificant emission units or activities, the permittee may certify continuous compliance when the testing, monitoring, or 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.

[WAC 173-401-530(2)(d), 9/16/02, 2/3/16 (S)]

1.19.3.5 All compliance certifications shall include certification by a responsible official in accordance with Condition 1.20.

1.19.3.6 For the purpose of submitting compliance certifications, or establishing whether or not a person has violated or is in violation of any requirement 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 had been performed.

[40 CFR 52.33(a), 7/1/17], [40 CFR 60.11(g), 7/1/17]

1.19.4 Emissions Exceedance Reports - In the event of any occurrence of criteria pollutant (PM, CO, NO_x, SO₂ and hydrocarbon (HC)) emissions from the main hog fuel boiler which exceed the limits set forth in Conditions 2.3.2 through 2.3.8 of this permit, the permittee shall provide notification to both Ecology and EPA no later than ten (10) days from the date that the exceedances took place. Such reports shall include, as a minimum, an estimate of the resultant emissions, and a narrative report of the cause, duration, and steps taken to correct the problem and avoid a recurrence. Any exceedances reported under this section need not be reported again under Condition 1.19.2.

[Order No. PSD-X80-11, Issued 07/28/80, Approval Condition 3]

1.19.5 Emissions Inventory - The permittee shall submit an inventory of actual emissions from the source for each calendar year. The inventory shall include segmented stack and fugitive emissions of particulate matter, PM₁₀, PM_{2.5}, sulfur dioxide, oxides of nitrogen, carbon monoxide, total reduced sulfur compounds (TRS), fluorides, lead, volatile organic compounds (VOCs), ammonia, and other contaminants. In addition, data elements listed in Table 2a to Appendix A of Subpart A of 40 CFR 51 must also be reported. The emissions inventory for each calendar year shall be submitted no later than **April 15th** of the following year. The permittee shall maintain records of information necessary to substantiate any reported emissions, consistent with the averaging times for the applicable standards. Emission estimates used in the inventory may be based on the most recent published EPA emission factors for a source category, or other information available to the permittee, whichever is the better estimate.

Emissions inventories shall be reported to Ecology in the Washington Emissions Inventory Repository System, and a certification statement with supporting data shall be provided to Ecology at the address included in this permit unless or until Ecology specifies another system or format.

[WAC 173-400-105(1), 10/6/16, 5/31/16 (S)]

1.19.6 Greenhouse Gas Reporting - If the permittee emits 10,000 metric tons of greenhouse gases (GHGs) or more per calendar year, GHGs are required to be reported to Ecology. (Note: WAC 173-441-030(5) details reporting requirements for facilities which are subject to the requirements, but fall below reporting thresholds). All requests, notifications, and communications to Ecology regarding GHGs, other than submittal of the annual GHG report, shall be submitted to: Greenhouse Gas Report, Air Quality Program, Department of Ecology, PO Box 47600, Olympia, WA 98504-7600. Annual GHG reports shall be submitted through Ecology's GHG Reporting page at:

<https://ecology.wa.gov/Regulations-Permits/Reporting-requirements/Climate-change-emissions-reporting/Greenhouse-gas-reporting>

Reports must meet the requirements of WAC 173-441-050 and include the annual emissions of the GHGs listed in WAC 173-441-040 from source categories listed in WAC 173-441-120. The annual GHG report must be submitted electronically in accordance with WAC 173-441-050 and WAC 173-441-060, in a format specified by Ecology. The GHG report is due to Ecology by **October 31st** of each year for the previous calendar year, unless the facility is also required to submit a GHG report to EPA, then the GHG report is due to Ecology **March 31st** of each year for GHG emissions from the previous calendar year.

If the facility emits 10,000 metric tons of GHGs or more per calendar year, the permittee must develop a written GHG monitoring plan. The plan shall be revised, as needed, to reflect changes in processes,

monitoring instruction, and quality assurance procedures; or to improve procedures for the maintenance and repair of monitoring systems to reduce the frequency of monitoring equipment downtime.

[Chapter 173-441 WAC, 9/15/16 (S)]

- 1.20 Certification** - Reports, test data, monitoring data, notifications, certifications, and applications (including requests for renewal) shall be submitted to Ecology at the address included in this permit. Any document submitted to Ecology pursuant to this permit shall contain certification of truth, accuracy, and completeness by a responsible official. All certifications shall state that “*based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete*”. The permittee shall promptly, upon discovery, report to Ecology any material error or omission in these records, reports, plans or other documents.

[WAC 173-401-520, 9/16/02, 2/3/16 (S)], [WAC 173-401-500(6), 9/16/02, 2/3/16 (S)], [40 CFR 60.4(a), (b), 7/1/17]

- 1.21 Permit Renewal and Expiration** - This permit is issued for a fixed term of 5 years. The permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted. All terms and conditions of the permit shall remain in effect after the permit itself expires if a timely and complete permit application was submitted. This allowance shall cease to apply if, subsequent to the completeness determination, the applicant fails to submit by the deadline specified in writing by Ecology, any additional information identified as being needed to process the application.

A renewal application is due (1 ½ yrs before expire). A complete renewal application is due no later than (1 yr before expire). The application shall be sent to Ecology at the address included in this permit.

[WAC 173-401-610, 710, 9/16/02, 2/3/16 (S)]

- 1.22 Duty to Supplement or Correct Application** - The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information. The permittee shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

[WAC 173-401-500(6), 9/16/02, 2/3/16 (S)]

1.23 Administrative Permit Amendments

1.23.1 An administrative permit amendment is a permit revision that:

- 1.23.1.1** Allows for a change in ownership or operational control of this source where the permitting authority has determined that no other change in this permit is necessary and provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to Ecology,
- 1.23.1.2** Corrects typographical errors within the permit,
- 1.23.1.3** Identifies a change in the name, address, or phone number of any person identified in the permit, or provides for a similar minor administrative change at the source,
- 1.23.1.4** Requires more frequent monitoring or reporting by the permittee, or
- 1.23.1.5** Incorporates into the permit the terms, conditions, and provisions from orders approving notice of construction applications processed under an EPA-approved program, provide that such a program meets procedural requirements substantially equivalent to the requirements of WAC 173-401-700, 173-401-725, and 173-401-800

that would be applicable to the change if it were subject to review as a permit modification, and compliance requirements substantially equivalent to those contained in WAC 173-401-600 through 173-401-650.

1.23.2 The source may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request.

1.23.3 The permitting authority shall, upon taking final action granting a request for an administrative permit amendment, allow coverage by the permit shield in WAC 173-401-640 for administrative permit amendments made pursuant to condition 1.23.1.5 above.

[WAC 173-401-720, 9/16/02, 2/3/16 (S)]

1.24 Reopening for Cause

1.24.1 Ecology will reopen and revise this permit as necessary to remedy deficiencies in the following circumstances:

1.24.1.1 Additional requirements under the FCAA become applicable to a major source three (3) or more years prior to the expiration date of this permit. Such a reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or any of its terms and conditions have been extended pursuant to WAC 173-401-620(2)(j).

1.24.1.2 Ecology or the Administrator determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

1.24.1.3 Ecology or the Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

1.24.2 Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

1.24.3 Reopenings shall not be initiated before a notice of intent to reopen is provided to the permittee by Ecology at least thirty (30) days in advance of the date that this permit is to be reopened, except that Ecology may provide a shorter time period in the case of an emergency.

[WAC 173-401-730, 9/16/02, 2/3/16 (S)]

1.25 Off-Permit Changes - The permittee is allowed to make certain changes that are not specifically addressed or prohibited by this permit without a permit revision. All such changes must meet the following conditions:

1.25.1 The proposed changes shall not weaken the enforceability of any existing permit conditions.

1.25.2 Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition.

1.25.3 Before or contemporaneously with making the permit change, the permittee must provide written notice to Ecology and EPA Region 10 at the respective addresses included in this permit. Such written notice shall describe each such change, including the date, any change in emissions or pollutants emitted, and any applicable requirements that would apply as a result of the change.

1.25.4 The change shall not qualify for the permit shield under Condition 1.1.

1.25.5 The permittee shall record all changes that result in emissions of any regulated air pollutant subject to any applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes. The record shall reside at the permitted facility.

1.25.6 A source making a change under this section shall comply with the preconstruction review requirements established pursuant to Condition 1.27.

[WAC 173-401-724, 9/16/02, 2/3/16 (S)]

1.26 Changes not Requiring Permit Revisions

1.26.1 *Section 502(b)(10) changes.* The permittee is authorized to make section 502(b)(10) changes, as defined in WAC 173-401-200(28), without a permit revision, providing the conditions included below are met. The permit shield as described in Condition 1.1 shall not apply to any change made pursuant to this paragraph.

1.26.1.1 The proposed changes are not Title I (FCAA) modifications;

1.26.1.2 The proposed changes do not result in emissions which exceed those allowable under the permit, whether expressed as a rate of emissions, or in total emissions;

1.26.1.3 The proposed changes do not alter permit terms that are necessary to enforce limitation on emissions from units covered by the permit;

1.26.1.4 The facility provides Ecology and EPA with written notification at least seven (7) days prior to making the proposed changes except that written notification of a change made in response to an emergency shall be provided as soon as possible after the event;

1.26.1.4.1 The written notification shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

1.26.2 *Changes related to Emissions trading under an emissions cap.* Pursuant to Condition 1.26.1, the permittee is authorized to trade increases and decreases in emission in the permitted facility, where the Washington state implementation plan provides for such emissions trades without requiring a permit revision. This provision is available in those cases where the permit does not already provide for such emissions trading. Such changes shall be subject to the following:

1.26.2.1 The written notification required under Condition 1.26.1.4 shall include such information as may be required by the provision in the Washington SIP authorizing the emissions trade, including at a minimum, when the proposed change will occur, a description of each such change, any change in emissions, the permit requirements with which the source will comply using the emissions trading provisions of the Washington SIP, and the pollutants emitted subject to the emissions trade. The notice shall also refer to the provisions with which the source will comply in the applicable implementation plan and that provide for the emissions trade. The notification shall state how any increases or decreases in emissions will comply with the terms and conditions of the permit. (The permit shield described under Condition 1.1 shall extend to terms and conditions that allow such increases and decreases.)

1.26.2.2 The permit shield described in Condition 1.1 shall not extend to any change made under this paragraph. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the applicable implementation plan authorizing the emissions trade.

- 1.26.2.3** Upon the request of the permit applicant, Ecology shall issue permits that contain terms and conditions, including all terms required under WAC 173-401-600 through 173-401-630 to determine compliance, allowing for the trading of emissions increases and decreases in the chapter 173-401 WAC source solely for the purpose of complying with a federally enforceable emissions cap that is established in the permit independent of otherwise applicable requirements. The permit applicant shall include in its application proposed replicable procedures and permit terms that ensure the emissions trades are quantifiable and enforceable. The emissions trading provision shall not be applied to any emissions units for which emission are not quantifiable or for which there are no replicable procedures to enforce the emissions trades. The permit shall also require compliance with all applicable requirements.
- 1.26.2.4** A source making a change under this section shall comply with applicable preconstruction review requirements established pursuant to Condition 1.27.
- 1.26.2.5** No permit revision shall be required, under any approved economic incentives, marketable permits, and other similar programs or processes for changes that are provided for in this permit such as emissions trading.

[WAC 173-401-722, 9/16/02, 2/3/16 (S)], [WAC 173-401-620(2)(g), 9/16/02, 2/3/16 (S)]

- 1.27 New Source Review** - The permittee shall not construct new sources or make modifications required to be reviewed under WAC 173-400-110, WAC 173-400-113, WAC 173-400-560, WAC 173-400-720, WAC 173-400-820, or Chapter 173-460 WAC before the permittee obtains written final approval from Ecology in accordance with those regulations, pays the appropriate fees required by WAC 173-455-120, and pays the cost of public notice described in WAC 173-400-171.

[RCW 70.94.152(1), 2017 (S)], [WAC 173-400-110, 9/29/16, 5/31/16 (S)], [WAC 173-400-113, 4/29/15, 5/31/16 (S)], [WAC 173-400-171, 10/6/16, 5/31/16 (S)], [WAC 173-400-560, 5/31/16 (S)], [WAC 173-400-720, 10/6/16, 5/31/16 (S)], [WAC 173-400-820, 11/7/14, 5/31/16 (S)], [WAC 173-455-120, 11/30/12 (S)], [WAC 173-460, 5/20/09 (S)]

- 1.28 Replacement or Substantial Alteration of Emission Control Technology** - Prior to replacing or substantially altering emission control technology subject to review under WAC 173-400-114, the permittee shall file for and obtain approval from Ecology and pay the appropriate fees required by WAC 173-455-100(4) prior to commencing construction.

[WAC 173-400-114, 5/31/16 (S)], [WAC 173-455-100(4), 11/30/12 (S)], [RCW 70.94.153, 2017 (S)]

1.29 Federal Chlorofluorocarbons Requirements – Title VI of the FCAA

- 1.29.1** The permittee shall comply with the following standards for recycling and emissions reductions pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.

- 1.29.1.1** Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- 1.29.1.2** Equipment used during the maintenance, service, repair or disposal must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- 1.29.1.3** Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
- 1.29.1.4** Persons disposing of small appliances, motor vehicle air conditioners, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. (“MVAC-like appliance” is defined at 40 CFR 82.152.)

- 1.29.1.5** Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156.
- 1.29.1.6** Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep servicing records documenting the date and type of service, as well as the quantity of refrigerant added. The owner/operator must keep records of refrigerant purchased and added to such appliances in cases where owners add their own refrigerant. Such records should indicate the date(s) when refrigerant is added pursuant to 40 CFR 82.166.
- 1.29.1.7** Persons conducting maintenance, service, repair, or disposal of appliances must follow the prohibitions pursuant to 40 CFR 82.154.
- 1.29.1.8** Persons performing maintenance, service, repair, or disposal of appliances must certify to the EPA that such person has acquired certified recovery of recycling equipment pursuant to 40 CFR 82.162.

1.29.2 If the permittee manufactures, transforms, imports, or exports a Class I or Class II substance, the permittee is subject to all the requirements as specified in 40 CFR 82, Subpart A – Production and Consumption Controls.

1.29.3 If the permittee performs a service on motor (fleet) vehicles and when this service involves ozone depleting substance refrigerant in the MVAC, the permittee is subject to all applicable requirements as specified in 40 CFR 82, Subpart B – Servicing of Motor Vehicle Air Conditioners.

1.29.4 The permittee shall be allowed to switch from any ozone depleting substance to any alternative that is listed in the Significant New Alternative Program promulgated pursuant to 40 CFR 82, Subpart G – Significant New Alternative Policy Program.

[RCW 70.94.970, 2017 (S)], [40 CFR 82, 7/1/17]

1.30 Demolition and Renovation (Asbestos) - Prior to, during, and after conducting any activity to which 40 CFR 61, Subpart M – National Emission Standard for Asbestos applies, the permittee shall comply with the requirements of that rule. Such activities include demolition, renovation, asbestos stripping or removal, installing or reinstalling insulation, manufacturing of fabricating certain items, spraying of certain materials, constructing roadways of certain materials, or disposal.

[WAC 173-400-075(1), 5/31/16 (S)], [40 CFR 61, Subpart M, 7/1/17]

1.31 Non-road Engines - Prior to installation or operation of a non-road engine, as defined in WAC 173-400-030(56), the permittee shall meet the requirements of WAC 173-400-035. If the non-road engine(s) has a cumulative maximum rated brake horsepower greater than 500, a notification of intent to operate will be submitted to Ecology. If the non-road engine(s) has a cumulative maximum rated brake horsepower greater than 2,000, the permittee will not operate the engine(s) unless Ecology issues written approval to operate.

[WAC 173-400-035, 5/31/16 (S)]

1.32 Operational Flexibility

1.32.1 In the event that an emission unit is not operated during a period equal to or greater than the monitoring period designated, no monitoring is required. Recordkeeping and reporting must note the reason why and length of time that the emission unit was not operated.

1.32.2 The permittee did not propose any further alternative operating scenarios.

[WAC 173-401-650, 9/16/02, 2/3/16 (S)]

1.33 Compliance Schedules

1.33.1 The permittee shall continue to comply with applicable requirements with which it is currently in compliance. The permittee shall meet applicable requirements on a timely basis that become effective during the permit term.

[WAC 173-401-510(2)(h)(iii)(A), 9/16/02, 2/3/16 (S)], [WAC 173-401-510(2)(h)(iii)(B), 9/16/02, 2/3/16 (S)]

2. APPLICABLE REQUIREMENTS

Until this permit expires, is modified or revoked, this permittee is authorized to operate the processes outlined in Sections 2.1 through 2.4. These processes are subject to the conditions included in Sections 2.1, through 2.4, to the MRRR’s listed in Section 3. Monitoring, Recordkeeping, and Reporting Requirements, and to other terms and conditions specified in this permit.

The column entitled **Description** in each table contains only a summary/paraphrase of the condition, emission standard or work practice. The condition, emission standard, or work practice itself is the enforceable requirement and should be referenced for actual language.

Testing Requirements

Although there are many conditions with no on-going testing requirements, Ecology retains the authority to conduct or require that testing be conducted at the facility with respect to these conditions per WAC 173-400-105(4). Identification of the appropriate test method is necessary to make emission limits fully enforceable. Where the underlying applicable requirement does not specify the test method, Ecology has done so in this permit.

[WAC 173-401-615(1)(a), 9/16/02, 2/3/16 (S)], [WAC 173-401-630(1), 9/16/02, 2/3/16 (S)], [WAC 173-400-105(4), 10/6/16, 5/31/16 (S)]

2.1 Section #1, Facility Wide

This section is applicable and enforceable with respect to all significant emission units source wide, including those emission units in Sections 2.2 through 2.4. Condition numbers that are denoted with an asterisk indicate that streamlining of a less stringent requirement has taken place and is described in section 12.0 of the Statement of Basis.

TABLE 2.1

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.1.1	WAC 173-400-040(2) 10/6/16	F	Visible emissions shall not exceed 20% opacity for more than 3 minutes in any one hour	RM 9A	5M
	WAC 173-400-040(2) 5/31/16	S			

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.1.2	WAC 173-400-060 10/6/16	F	General process units are required to meet all applicable provisions of WAC 173-400-040 and emissions of particulate material from any operation shall not exceed 0.1 grain/dscf of exhaust gas	RM 5	5M
	WAC 173-400-060 5/31/16	S			
2.1.3	WAC 173-400-040(3) 5/31/16	S	Particulate matter shall not be deposited beyond the property in sufficient quantity to interfere unreasonably with the use and enjoyment of other's property	None	3M
2.1.4	WAC 173-400-040(4)(a), (9)(a) 10/6/16	F	The source shall perform maintenance to minimize emissions and take reasonable precautions to prevent fugitive dust from becoming airborne		3M
	WAC 173-400-040(4)(a), (9)(a) 5/31/16	S			
2.1.5	WAC 173-400-040(4)(a), (9)(a) 5/31/16	S	Fugitive dust control measures shall be taken to prevent fugitive emissions		5M
2.1.6	WAC 173-400-040(5) 5/31/16	S	Any producer of an odor which may unreasonably interfere with any other property owner's use and enjoyment of his property must reduce these odors to a reasonable minimum	None	3M
2.1.7	WAC 173-400-040(6) 10/6/16	F	No person shall cause or permit the emission of any air contaminant if it is detrimental to the health, safety, or welfare of any person, or causes damage to property or business	None	3M
	WAC 173-400-040(6) 5/31/16	S			

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.1.8	WAC 173-400-040(8) 10/6/16	F	No person shall conceal or mask an emission of an air contaminant	None	1M
	WAC 173-400-040(8) 5/31/16	S			
	40 CFR 60.12	F			
2.1.9	WAC 173-400-200(2) 10/3/14	F	No source may use dispersion techniques or excess stack height to meet ambient air quality standards or PSD increment limitations	None	1M
	WAC 173-400-200(2) 5/31/16	S			
2.1.10	WAC 173-400-205 6/2/95	F	Varying the rate of emission of a pollutant according to atmospheric conditions is prohibited, except as directed according to air pollution episode regulations	None	1M
	WAC 173-400-205 5/31/16	S			
2.1.11	RCW 70.94.040 2017	S	Causing air pollution in violation of Chapter 70.94 RCW is unlawful	None	1M
2.1.12	Chapter 173-425 WAC – Restriction on Open Burning	F	No open burning is allowed on site unless authorized by Ecology	None	2M
2.1.13	WAC 173-400-040(1) 10/6/16	F	All emissions units are required to use RACT	None	1M
	WAC 173-400-040(1) 5/31/16 (RCW 70.94.154(1))	S			

2.2 Section #2, Wood Waste Collection & Transport System

The Wood Waste Collection & Transport System and all sources of air emissions associated with the processes are subject to those conditions, emission standards, and work practices included in Section 1. “Standard Conditions”, Section 2.1 “Section #1 Facility Wide Requirements” and the associated Monitoring Recordkeeping and Reporting Requirements in Section 3.

2.3 Section #3, Hog Fuel Boiler

TABLE 2.3

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.3.1	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 3	F	Opacity shall be < 10% (averaged over a six minute time interval as measured by COMS)	RM 9	8M, 10M, 12M
	PSD-X80-11 Issued 07/28/80 Approval Condition 1	F			
2.3.2	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 1	F	PM ≤ 21.1 lbs/hr and ≤ 90 TPY	RM's 1-5 and 202	7M, 8M, 9M, 14M
	40 CFR 60.8(a), (b), (c), (d), (f), 7/1/17	F			
2.3.3	PSD-X80-11 Issued 07/28/80 Approval Condition 1	F	PM emissions shall not exceed 0.02 grains per dscf @ 12 % CO ₂	RM's 1-5	7M, 8M, 9M, 14M
2.3.4	40 CFR 60.43b(c)(1), (g), 60.46b(a), 7/1/17	F	PM ≤ 0.1 lb/MMBTU heat input – standard shall apply at all times except startup, shutdown, or malfunction	RM's 1-5, and 202	7M, 8M, 9M, 14M
	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 4.4				
2.3.5	WAC 173-400-040 (6, 1 st ¶) 10/6/16	F	SO ₂ ≤ 1000 ppm @ 7% O ₂ (Sixty minute average)	RM 6	7M, 8M
	WAC 173-400-040(7) 5/31/16	S			
2.3.6	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 1	F	CO ≤ 1,088 lb/hr and CO ≤ 4,635 TPY	RM 10	7M, 8M
	PSD-X80-11; EPA Modification Issued 11/23/94				

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.3.7	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 1 PSD-X80-11; EPA Modification Issued 11/23/94	F	NO _x ≤ 142 lb/hr and NO _x ≤ 540 TPY	RM 7E	7M, 8M
	PSD-X80-11 Issued 07/28/80 Approval Condition 2	F	Emissions of any pollutant regulated under the Federal Clean Air Act will be less than 250 tons per year, except NO _x , CO & Hydrocarbons.		
2.3.8	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 1	F	HC ≤ 55 lb/hr and HC ≤ 210 TPY	RM 25A	7M, 8M
2.3.9	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 1	F	Lead ≤ 0.01 TPY	RM 12	6M
2.3.10	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 1	S	Acetaldehyde ≤ 1.1 TPY		8M
2.3.11	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 1	S	Acrolein ≤ 0.0002 lbs/hr and Acrolein ≤ 1.7 lbs/yr		8M
2.3.12	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 1	S	Benzene ≤ 0.764 lbs/hr and Benzene ≤ 6,509 lbs/yr		8M
2.3.13	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 1	S	Formaldehyde ≤ 0.4750 lbs/hr and Formaldehyde ≤ 4,047 lbs/yr		8M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.3.14	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 1	S	Hydrogen Chloride ≤ 0.4810 lbs/hr and Hydrogen Chloride ≤ 4,098 lbs/yr		8M
2.3.15	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 1	S	Styrene ≤ 0.0198 lbs/hr and Styrene ≤ 169 lbs/yr		8M
2.3.16	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 1	S	Toluene ≤ 0.020 lbs/hr and Toluene ≤ 170 lbs/yr		8M
2.3.17	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 1	S	All other Hazardous Air Pollutants shall not exceed their corresponding emission factor listed in AP-42, Chapters 1.6 <i>Wood Residue Combustion in Boilers</i> , 9/03, and 1.4 <i>Natural Gas Combustion</i> , 7/98		6M
2.3.18	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 2	F	PM emissions from the hog fuel boiler shall be controlled by a 70% efficient multi-clone followed by a 99% efficient ESP		1M
2.3.19	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 4.1, 6.1	F	Annual plant operation shall not exceed 8,520 hrs and record operating hours, wood waste consumption and natural gas consumption		11M
	PSD-X80-11 Issued 07/28/80 Approval Condition 6b	F			
	40 CFR 60.49b(d), (o), 7/1/17	F			

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.3.20	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 4.2, 6.1	F	The hog fuel boiler shall only be fired on wood waste fuel or natural gas. Annual fuel consumption shall be limited to 724,200 tons wood waste and 610,001,000 cubic feet of natural gas		11M
2.3.21	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 4.3	F	The boiler natural gas firing capacity shall not exceed 250 million BTU per hour.		11M
2.3.22	WAC 173-400-070(2)(b) 10/6/16	F	All hog fuel boilers shall utilize RACT and shall be operated and maintained to minimize emissions		2M
	WAC 173-400-070(2)(b) 5/31/16	S			
	40 CFR 60.11(d), 7/1/17	F			
2.3.23	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Conditions 8.4, 8.5	F	The boiler and all associated equipment shall be operated in a manner consistent with the O&M manual and NOC and PSD applications		4M
	PSD-X80-11 Issued 07/28/80 Approval Condition 5	F			
2.3.24	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 8.3	F	Approval Order and O&M Manual shall be in close proximity and accessible to the operators of the plant		2M
2.3.25	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 5	F	O&M manual shall be followed and kept updated		13M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.3.26	40 CFR 60.7(a)(4), 7/1/17	F	Any modification to the boilers or their operating procedures inconsistent with the NOC application shall be submitted to Ecology 60 days before such modification		17M
2.3.27	Order No. DE 95AQ-E131 4 th Amendment, 1/6/17, Approval Condition 8.1	F	Order No. DE 95AQ-E131 4 th Amendment becomes void if operation is discontinued for 18 months		1M
2.3.28	40 CFR 64.7(b) 7/1/17	F	The owner or operator shall maintain the monitoring equipment, including but not limited to, maintaining necessary parts for routine repairs of the equipment		2M
2.3.29	40 CFR 63.11201(b), 63.11205(a), 63.11223(b), 63.11225(b), 63.11225(c), 63.11225(d) 7/1/17	F	At all times the permittee must operate and maintain the hog fuel boiler in a manner consistent with safety and good air pollution control practices for minimizing emissions		19M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.3.30	40 CFR 63.11196(3), 63.11201, 63.11214 7/1/17	F	The hog fuel boiler must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment was completed on April 24, 2014 that meets the energy assessment requirements specified in 40 CFR 63.11201. If the permittee operates under and energy management program compatible with ISO 50001, that includes the hog fuel boiler, satisfies the energy assessment as well.		20M
2.3.31	40 CFR 63.11201(b), 63.11225(1), 63.11225(a)(4), 63.11225(a) 7/1/17	F	The permittee shall submit all initial notifications which apply to the hog fuel boiler as specified by 40 CFR 63 Subpart JJJJJ		21M

2.4 Section #4, Natural Gas Combustion Turbine

TABLE 2.4

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.4.1	Order No. 02AQER-3519 Issued 05/23/11 Approval Condition 4.3	F	Opacity shall not exceed 5%, averaged over a six (6) minute period	RM 9	16M
2.4.2	Order No. 02AQER-3519 Issued 05/23/11 Approval Condition 4.4	F	PM emissions shall not exceed 0.63 lbs/hour and 2.8 tons/year (filterable + condensable portions)	RM 5 and 202	7M, 15M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.4.3	Order No. 02AQER-3519 Issued 05/23/11 Approval Condition 4.1 40 CFR 60.8(a), (b), (c), (d), (f), 60.332(c), 60.335(b), 7/1/17	F F	NO _x emissions shall be ≤ 25.0 ppm _{dv} @ 15% O ₂ (3-hr average) or ≤ 8.90 lbs/hr or ≤ 38.9 tons per year	RM 20	7M, 15M
2.4.4	Order No. 02AQER-3519 Issued 05/23/11 Approval Condition 4.2	F	CO emissions shall be ≤ 30.0 ppm _{dv} @ 15 % O ₂ (1-hr average) or ≤ 16.90 lbs/hr or ≤ 74.0 tons per year	RM 10	7M, 15M
2.4.5	Order No. 02AQER-3519 Issued 05/23/11 Approval Conditions 3.3, 4.5 40 CFR 60.333(a), (b), 334(b)(2), (c)(2), 60.335(b), 7/1/17	F F	Exhaust gases shall contain ≤ 0.015 % SO ₂ by volume @ 15% O ₂ , and fuels with sulfur content greater than 0.8 percent by weight shall not be combusted	RM 6	16M
2.4.6	Order No. 02AQER-3519 Issued 05/23/11 Approval Condition 2.1, 2.2	F	Annual operation of 8,760 hours permitted, combustion of pipeline quality natural gas only	None	16M
2.4.7	40 CFR 60.11(d), 7/1/17	F	Good combustion control will be utilized in order to minimize emissions at all times, and exhaust stack shall be at least fifty (50) feet in height	None	1M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.4.8	Order No. 02AQER-3519 Issued 05/23/11 Approval Conditions 2.3	F	Emissions of nitrogen oxides will be controlled by a SoloNO _x combustor	None	1M
2.4.9	Order No. 02AQER-3519 Issued 05/23/11 Approval Conditions 2.1, 9.6	F	Any modification to plant or operating procedures shall be reported to Ecology 60 days prior to such modification	None	17M
	40 CFR 60.7(a)(4), 7/1/17	F			
2.4.10	Order No. 02AQER-3519 Issued 05/23/11 Approval Condition 9.4	F	Approval Order and O&M Manual shall be in the working vicinity and available to employees in direct operation of the turbine and duct burner	None	1M
2.4.11	Order No. 02AQER-3519 Issued 05/23/11 Approval Condition 9.5	F	Operation of equipment shall be conducted in a manner consistent with good air pollution control practice for minimizing emissions as well as with the NOC application and O&M Manual	None	4M
	40 CFR 60.11(d) 7/1/17	F			
2.4.12	Order No. 02AQER-3519 Issued 05/23/11 Approval Condition 9.2	F	Order No. 02AQER-3519 becomes void if combustion turbine and duct burner installation is not commenced within 18 months, or if subsequent operation is discontinued for 18 months	None	1M
2.4.13	Order No. 02AQER-3519 Issued 05/23/11 Approval Condition 4.1	F	Any indication of exceedances of the NO _x limit shall be investigated and corrected within 48 hours	None	1M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.4.14	Order No. 02AQER-3519 Issued 05/23/11 Approval Conditions 6	F	O&M manual shall be kept updated	None	18M

2.5 Section #5, 80 hp Diesel Fire Pump

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.5.1	40 CFR 63, Subpart ZZZZ, §63.6603(a), 2017	F	Management practices for Combustion Ignition (CI) engines	None	22M
2.5.2	40 CFR 63, Subpart ZZZZ, §63.6625, 2017	F	Installation of a non-resettable hour meter and minimized idle time at start-up	None	22M
2.5.3	40 CFR 63, Subpart ZZZZ, §63.6640, 2017	F	Demonstration of continuous compliance with the operating requirements and limitations	None	22M
2.5.4	40 CFR 63, Subpart ZZZZ, §63.6655, 2017	F	Recordkeeping for emergency stationary RICE	None	22M
2.5.5	40 CFR 63, Subpart ZZZZ, Table 2d, 2017	F	Operation during an emergency and it is not possible to shut down the engine in order to perform management practice requirements.	None	22M

2.6 Section #6, 335 hp diesel Generator

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.6.1	40 CFR 63, Subpart ZZZZ, §63.6603(a), 2017	F	Management practices for Combustion Ignition (CI) engines	None	22M
2.6.2	40 CFR 63, Subpart ZZZZ, §63.6625, 2017	F	Installation of a non-resettable hour meter and minimized idle time at start-up	None	22M
2.6.3	40 CFR 63, Subpart ZZZZ, §63.6640, 2017	F	Demonstration of continuous compliance with the operating requirements and limitations	None	22M
2.6.4	40 CFR 63, Subpart ZZZZ, §63.6655, 2017	F	Recordkeeping for emergency stationary RICE	None	22M
2.6.5	40 CFR 63, Subpart ZZZZ, Table 2d, 2017	F	Operation during an emergency and it is not possible to shut down the engine in order to perform management practice requirements.	None	22M

3. Monitoring, Recordkeeping, and Reporting Requirements (MRRR)

[WAC 173-401-630(1)], [WAC 173-401-615(1)(b), (c)]

GENERAL

1M. The permittee shall conscientiously monitor site operations and promptly report any deviations.

[WAC 173-401-615(1)(b), 9/16/02, 2/3/16 (S)]

2M. At least once every twelve (12) months, the permittee shall review actual operations and any other relevant information to determine if facility operations are being conducted in accordance with each specific requirement.

The permittee shall maintain records that include the date such reviews occur, the name of the person conducting the review, the information reviewed, summary information on any deviations identified and date and time when corrective action was initiated and completed.

[WAC 173-401-615(1)(b), 9/16/02, 2/3/16 (S)]

3M. The permittee shall maintain records of all complaints received. Ecology shall be notified within three (3) working days of receipt of any complaints. The permittee shall address and respond to all complaints within three (3) working days of receipt of the complaint. The recordkeeping shall include the following with regard to the complaint and the associated deviation:

- 1) A record of all written complaints, complaints received by telephone or complaints received in person,
- 2) Time, date, and duration of the deviation,
- 3) Cause of the deviation,
- 4) Estimate of excess emissions and magnitude of deviation, and
- 5) Corrective action taken, and the results of such action.

[WAC 173-401-615(1)(b), 9/16/02, 2/3/16 (S)]

- 4M.** At least once every twelve (12) months, the permittee shall perform a complete review of the Operation and Maintenance manuals and permit application materials (Notice of Construction, PSD) for the referenced unit and associated equipment. The purpose of this review shall be to verify that the emission unit and associated equipment is being operated in accordance with the documents stated above and with good air pollution control practices in mind.

The permittee shall maintain records that include the date such reviews occur as well as the name of the person conducting the review and each document or operational practice reviewed. Upon discovery that any equipment is being operated in a manner inconsistent with any of the above mentioned documents, the permittee shall initiate corrective action within two (2) business days. All such discoveries shall be reported to Ecology as required by Standard Condition 1.19.2 of this permit.

[WAC 173-401-615(1)(b), 9/16/02, 2/3/16 (S)]

- 5M.** The following shall apply generally, facility wide:

Monitoring – At least once per month, as well as any time visible emissions are observed, the permittee shall perform complete walk-around surveys for the purpose of determining the presence of visible emissions throughout the facility site. The surveys shall be conducted while the facility is in operation, and shall include observation for any visible emissions, including fugitive emissions, regardless of the source.

Recordkeeping – Information for each survey indicating the date the survey was performed, the name of the person performing the survey, the weather at the time of the survey, an indication of whether any visible emissions were observed, a description of the cause of the visible emissions, the corrective action taken, and the results of such action.

Reporting – Monthly reporting of deviations shall be performed as described in Standard Condition 1.19.2, as well as annual certification of compliance as described in Standard Condition 1.19.4. Any monthly deviation reports documenting visible emissions observed shall include the time, date and duration of the deviation, a description of the cause of the visible emissions, the corrective action taken, and the results of the corrective action.

[WAC 173-401-615(1)(b), 9/16/02, 2/3/16 (S)]

- 6M.** Semi-Annually – As part of the semi-annual monitoring report, the permittee shall submit parametric monitoring data for parameters that are used to calculate emissions. This may include actual fuel usage, actual hours of operation, actual steam production, etc. All hourly emissions reporting shall be calculated and expressed as the daily average hourly rate.

Annually – As part of the annual emissions inventory submittal required under Standard Condition 1.19.5, emissions shall be quantified by multiplying the appropriate recorded operating parameter (fuel usage, hours of operation, steam production, etc..) by an emission factor derived from the most recent source testing. All hourly emissions reporting shall be calculated and expressed as the daily average hourly rate. If test-derived factors are unavailable, use the most recent emission factor published by

USEPA. In the event that the most recent published data provides a range of emission factors, the calculation shall be performed using the most conservative factor within the provided range. Use of less conservative emission factors may be used only upon written approval by Ecology. In the event that USEPA emission factors are either inappropriate or unavailable, the permittee shall propose an alternative emission factor (or emission estimation method) that may be used upon written approval by Ecology.

Calculations should be adjusted for percent oxygen as required by the applicable requirement and should indicate pollutant emission rate and concentration in the same units as the limit(s) specified in the applicable requirement(s). The emission inventory submittal shall include a statement clearly indicating the emission factor that is being used, justification for the use of the emission factor, clear identification of all operating parameters used in the calculational method, and an example of the calculational method used.

[WAC 173-401-615(1)(b), 9/16/02, 2/3/16 (S)]

7M. Source testing as referenced shall be conducted at least once every five years.

Semi-Annually – As part of the semi-annual monitoring report, the permittee shall submit parametric monitoring data for parameters that are used to calculate emissions. This may include actual fuel usage, actual hours of operation, actual steam production, etc. All hourly emissions reporting shall be calculated and expressed as the daily average hourly rate.

Annually – As part of the annual emissions inventory submittal required under Standard Condition 1.19.5, emissions shall be quantified by multiplying the appropriate recorded operating parameter (fuel usage, hours of operation, steam production, etc..) by an emission factor derived from the most recent source testing. All hourly emissions reporting shall be calculated and expressed as the daily average hourly rate.

Calculations should be adjusted for percent oxygen or percent carbon dioxide as required by the applicable requirement and should indicate pollutant emission rate and concentration in the same units as the limit(s) specified in the applicable requirement(s). The emission inventory submittal shall include a statement clearly indicating the emission factor that is being used, justification for the use of the emission factor, clear identification of all operating parameters used in the calculational method, and an example of the calculational method used.

{Note – For purposes of estimating emissions from the main hog fuel boiler resulting from natural gas firing, **6M** may be utilized to allow emission estimation using AP-42 emission factors.}

[WAC 173-401-615(1)(b), 9/16/02, 2/3/16 (S)]

MAIN HOG FUEL BOILER

8M. Periodic performance testing shall be conducted. The following conditions shall apply to all testing:

- 1) The boiler shall be tested every five (5) years, for visible emissions, NO_x, HC, and PM, using 40 CFR Part 60, Appendix A, methods 1-5, 7E, 9, 10, and 25A (as propane), and 40 CFR Part 51, Appendix M, method 202.
- 2) The boiler shall be tested every ten (10) years, for acrolein, acetaldehyde, benzene, formaldehyde, hydrogen chloride, styrene, and toluene, using EPA Compendium Method TO-15, SW-846 method 0011, and 40 CFR Part 60, Appendix A, method 26A.
- 3) Alternate test methods may be proposed by the Permittee in writing and approved by Ecology in writing, in advance of testing.
- 4) All testing shall consist of three (3) runs, be conducted within ninety (90) percent of maximum production rate, and be reflective of normal source operation.

- 5) Periodic performance testing shall be conducted. Testing shall be performed by an independent testing firm.
- 6) Testing shall be performed by an independent testing firm. A test plan, including a description of the methods proposed, shall be submitted for Ecology approval at least 30 days prior to any performance testing. The permittee shall notify Ecology as soon as possible if any planned testing is cancelled or rescheduled. A written report of results shall be submitted to Ecology within 60 days after performance testing is conducted.
- 7) Sampling ports and platforms for performance testing must be provided by the Permittee, Adequate and safe access to the test ports must be provided.

[Order No. DE 95AQ-E131 4th Amendment, 1/6/17, Approval Condition 7]

9M. Monitoring, Recordkeeping, and Reporting as required by 40 CFR 64 – CAM shall be subject to the following general conditions:

- 1) The owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emission unit is operating, with the following qualifications:
 - a) Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement.
 - b) The owner or operator shall use all data collected during all other periods in assessing the operation of the control device and associated control system.
 - c) “Monitoring malfunction” is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.
[40 CFR 64.7(c), 7/1/17], [40 CFR 64.7(a), 7/1/17]
- 2) Semi-annual CAM monitoring reports shall include the following:
 - a) Summary information on the number, duration, and cause (including unknown cause, if applicable) of deviations or violations, as applicable, and the corrective actions taken,
 - b) Summary information on the number, duration, and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks), and
 - c) A description of any actions taken during the reporting period to implement any QIP’s in effect.
[40 CFR 64.9(a), 7/1/17]
- 3) The following conditions shall apply to all CAM recordkeeping:
 - a) The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan(s) required as well as any activities undertaken to implement a quality improvement plan, and any other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).
 - b) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such

alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.

[40 CFR 64.9(b), 7/1/17]

10M. Monitoring – Visible emission shall be monitored using a Continuous Opacity Monitoring System (COMS) which meeting all provisions of Title 40, CFR Part 60, Appendix B, *Performance Specification 1 – Specifications and Test Procedures for Opacity Continuous Emissions Monitoring Systems in Stationary Sources*, and shall be operated according to quality assurance procedures conforming to *EPA 340/1-86-010, Recommended Quality Assurance Procedures for Opacity Continuous Emission Monitoring Systems*.

The permittee shall prepare a Quality Assurance (QA) Plan outlining the quality assurance procedures used to verify the reliability of the COMS data. Such a document shall specify the frequency at which each quality assurance procedure will be performed.

Recordkeeping – The permittee shall maintain the following records related to the QA Plan and COMS. Such records shall be retained for a period of at least five (5) years and shall be well organized and readily accessible for inspection by Ecology personnel:

- 1) A copy of the QA Plan,
- 2) Records of all quality assurance procedures performed for a period of five (5) years, and
- 3) Chart recorder readings or computer file data from the COMS.

Reporting – The QA Plan shall be submitted to Ecology no later than sixty (60) days following issuance of this AOP, and shall be subject to Ecology approval.

[Order No. DE 95AQ-E131 4th Amendment Issued 1/6/17, Approval Conditions 5, 6], [WAC 173-401-630(1), 9/16/02, 2/3/16 (S)], [Order No. PSD-X80-11, Issued 07/28/80, Approval Condition 6b], [40 CFR 60.48b(a), 60.49b(f), 7/1/17]

11M. The following conditions shall apply to the monitoring, recordkeeping, and reporting required for the hog fuel boiler.

- 1) The following monitoring equipment shall be maintained in good operating condition:
 - a) A gage on the multiclone to measure differential pressure.
 - b) Continuous Opacity Monitoring System as otherwise required.
 - c) Instrumentation on the Electrostatic Precipitator displaying the secondary voltage for each Transformer – Rectifier set.
- 2) The following recordkeeping specific to the hog fuel boiler shall be retained for a period of five (5) years and kept in an organized, legible manner readily available for inspection by Ecology personnel.
 - a) Hours of facility operation.
 - b) Wood waste fuel consumption.
 - c) Natural gas consumption. By the 31st of January each year, the permittee shall calculate the annual capacity factor for natural gas using data from the previous calendar year. The annual capacity factor shall be calculated by dividing the total actual heat input from natural gas combustion by the potential heat input to the unit had it been operated for 8,760 hours during the calendar year at the maximum steady state design heat input capacity.
 - d) The operating rate of the hog fuel boiler (i.e. electricity production rate).

- e) A log shall be maintained to record operating problems and maintenance performed on the control equipment.
 - f) Regular plant maintenance records.
 - g) Recordkeeping as required by CAM.
- 3) Reporting specific to the hog fuel boiler shall be conducted in accordance with the following.
- a) Total hours of facility operation, total wood waste fuel consumption (tons), and total natural gas consumption (cubic feet) for each semi-annual reporting period shall be submitted in accordance with Standard Condition 1.19.3 Reporting.

[Order No. DE 95AQ-E131 4th Amendment, 1/6/17, Approval Conditions 5, 6], [Order No. PSD-X80-11, Issued 07/28/80, Approval Condition 6b], [40 CFR 60.49b(d), (o), 7/1/17], [WAC 173-401-630(1), 9/16/02, 2/3/16 (S)]

12M. Emissions that result from failure to follow the requirements of the O&M manual or manufacturers' instructions may be considered proof that the plant was not properly operated, maintained and tested. Any six (6) minute averaged emission in excess of ten-percent (10%) opacity shall be reported to Ecology on a monthly basis no later than thirty (30) days after the end of the month during which the deviation is discovered. The report should include the following information for each excess emission:

- 1) The date, time and duration of the deviation.
- 2) The magnitude of the deviation.
- 3) An estimate of the excess emissions.
- 4) The probable cause of the deviation.
- 5) Any corrective action taken or planned.
- 6) If corrective action is taken, the results of such action.
- 7) Any other agency contacted.

[WAC 173-401-615(1)(b), 9/16/02, 2/3/16 (S)]

13M. The following recordkeeping specific to the hog fuel boiler O&M manual shall be retained in an up-to-date manner, well organized, and easily accessible for inspection by Ecology personnel.

- 1) Normal operating parameters,
- 2) A maintenance schedule,
- 3) Monitoring and recordkeeping requirements,
- 4) A description of the monitoring procedures,
- 5) Monitoring, operation, and calibration of the COMS.

[Order No. DE 95AQ-E131 4th Amendment, 1/6/17, Approval Condition 5, 6]

14M. The following shall function as Compliance Assurance Monitoring for the hog fuel boiler.

- 1) The permittee shall conduct monitoring in accordance with the following.
 - a) Equipment shall be provided that monitors, and displays (digital), electrostatic precipitator secondary voltage in kilovolts for all transformer/rectifier sets (T/R 1 through T/R 4), as well as stack opacity in percent (digitally).
 - b) At least once per day, the permittee shall evaluate the data obtained through recordkeeping as described in 2) a) below with respect to the following criteria:

- i) The two-day average secondary voltage shall not be less than the following trigger limits for any two (2) consecutive days.
 - a. For the last T/R set through which the exhaust gas travels the trigger limit is 30 KV.
 - b. For the second to last T/R set through which the exhaust gas travels the trigger limit is 20 KV.
 - ii) Opacity shall not exceed seven percent (7%) for any six-minute period.
 - c) Under conditions that meet the criteria outlined in 1) b) above, no corrective action is required under CAM.
 - d) In the event that either of the criteria outlined in 1) b) above are not met, corrective action consistent with the following shall be taken.
 - i) As soon as possible, but no later than four (4) hours after discovery of the deviation, the permittee shall initiate corrective actions that are designed to return the equipment to normal operation as soon as possible and to prevent the likely recurrence of the cause of the deviation.
 - ii) Corrective action taken may include, but will not be limited to, checking rappers and vibrators for proper operation, checking multiclone for possible problems, checking bottom hoppers for buildup, checking ESP electrical systems, turning on the bottom vibrator, tripping the T/R set for an appropriate amount of time, obtaining manufacturer advice, and ESP shutdown and internal inspection along with appropriate subsequent maintenance and/or repair.
- 2) The permittee shall conduct recordkeeping in accordance with the following.
- a) At least once per day, the permittee shall record the values for secondary voltage and secondary amperage for all four (4) transformer/rectifier sets as displayed on the equipment provided.
 - b) In the event of a deviation from the criteria outlined in 1) b) above, the permittee shall maintain records documenting any ESP corrective action taken, and the results of such action. The records shall be retained in a well organized manner and easily accessible for inspection by Ecology personnel.
- 3) The permittee shall conduct reporting in accordance with the following.
- a) In the event of a deviation from the criteria outlined in 1) b) above, the permittee shall submit a report as part of, or attached to, the monthly deviation report as described in Standard Condition 1.19.2. The report shall include the appropriate data as recorded documenting the date, time and duration of the deviation, the magnitude of the deviation, an estimate of the excess emissions, a description of the corrective action taken, and the results of the corrective action.
 - b) Upon discovery that the monitoring as designed is insufficient to provide indications of all deviations, the permittee shall notify Ecology of the monitoring deficiency.

[40 CFR 64.3, 64.4(d), 64.7(d), 64.7(e), 64.8, 7/1/17]

COMBUSTION TURBINE

15M. Periodic performance testing shall be conducted every five (5) years or every 8,760 hours of operation, whichever occurs sooner. The following conditions shall apply to all testing:

- 1) Performance testing shall be conducted during combined cycle operation.
- 2) Testing shall be conducted for all pollutants of interest as determined by Ecology. The appropriate EPA reference method shall be used for testing of each pollutant. Pollutant emission rates shall be reported in terms consistent with the applicable requirement.

- 3) Any turbine operating parameters that are monitored shall be recorded during the entire duration of the testing and submitted as part of the test report.
- 4) Opacity observations using RM 9 shall be conducted for at least one six minute period during each run of the source testing. A copy of each RM 9 test shall be submitted as part of the test report.
- 5) An independent testing firm shall conduct the testing and shall submit a test plan for Ecology approval at least thirty (30) days prior to the source testing.
- 6) The permittee shall notify Ecology of the date of the source testing at least thirty (30) days prior to the date of testing. The permittee shall notify Ecology as soon as possible if any planned source testing is cancelled or rescheduled.
- 7) The test report shall be sent to Ecology within sixty (60) days after the testing.

[Order No. 02AQER-3519, Issued 05/23/11, Approval Condition 3], [WAC 173-401-630(1), 9/16/02, 2/3/16 (S)], [40 CFR 60.8(a), (b), (c), (d), (f), 7/1/17]

16M. The following conditions shall apply to the monitoring, recordkeeping, and reporting required for the combustion turbine.

- 1) The following monitoring equipment shall be maintained in good operating condition:
 - a) The sulfur and nitrogen content of the fuel shall be monitored. The frequency of the determination of these parameters shall depend on whether the turbine is supplied its fuel from a bulk storage tank or from some continuous source such as a pipeline.

If the turbine is supplied its fuel from a bulk storage tank, the values shall be determined on each occasion that fuel is transferred to the storage tank from any other source. If the turbine is supplied its fuel without intermediate bulk storage, the values shall be determined and recorded daily. The permittee may develop custom schedules for determination of the values based on the design and operation of the facility and the characteristics of the fuel supply. Any custom schedule shall be substantiated with data and must be approved by the EPA Administrator (or designee) before they can be used to comply with this requirement.

In order to compute the nitrogen oxides emissions, the permittee shall use analytical methods and procedures that are accurate to within 5% and are approved by the Administrator. The methods used shall be in accordance with the guidelines in 40 CFR 60.335(c), (d), (e), and (f).
 - b) At least once each day that the turbine operates, the permittee shall perform an evaluation of the visible emissions from the stack. If stack opacity is observed to be zero, no action is required besides documentation as described below. If opacity is observed to be non-zero, the permittee shall initiate corrective action to correct the excess emissions within 4 hours. If corrective action cannot return the turbine to zero opacity within 24 hours, the permittee shall perform, or have performed RM 9 on the turbine stack.
- 2) The following recordkeeping specific to the combustion turbine shall be retained for a period of five (5) years and kept in an organized, legible manner readily available for inspection by Ecology personnel.
 - a) Daily hours of operation, startups and shutdowns, process emissions indications, and gross power generated.
 - b) Daily record of natural gas consumed.
 - c) Daily results of the sulfur and nitrogen content analysis of the fuel and the calculated sulfur dioxide exhaust gas concentration.

- d) Documentation of the daily opacity evaluations including the name of the person conducting the evaluation, indication of whether initial opacity observation was zero or non-zero, any corrective action taken and the results of such action, and copies of the test forms for any RM 9 tests performed.
- 3) Reporting specific to the combustion turbine shall be conducted in accordance with the following.
 - a) Total hours of facility operation for each semi-annual reporting period shall be submitted in accordance with Standard Condition 1.19.3.
 - b) Annual emissions reporting as required under Standard Condition 1.19.5, Emission Inventory.
 - c) Any period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% shall be reported as required by Standard Condition 1.19.2.
 - d) An annual summary of emissions and operations shall be prepared and submitted in a format agreed to by Ecology.
 - e) Ecology may periodically request records to be submitted.

[Order No. 02AQER-3519, Issued 05/23/11, Approval Conditions 3.3, 5.1, 5.2, 5.3, 8, 8.1, 8.2, 8.3, 9], [40 CFR 60.334(b), (c)(2), 60.335, 7/1/17], [WAC 173-401-630(1), 9/16/02, 2/3/16 (S)]

17M. In the event 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, permittee shall provide notice as required. This notice shall be postmarked sixty (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. Ecology may request additional relevant information subsequent to this notice. These requirements are in addition to any pre-construction review requirements as outlined under Standard Condition 1.27.

[40 CFR 60.7(a)(4), 7/1/17]

18M. The following recordkeeping specific to the combustion turbine O&M manual shall be retained in an up-to-date manner, well organized, and easily accessible for inspection by Ecology personnel. Any emissions that result from failure to follow the operating procedures contained within the O&M manual or manufacturers operating instructions may be considered proof that the equipment was not properly installed, operated and/or maintained.

- 1) Normal operating parameters and design specifications for the unit,
- 2) A maintenance schedule and procedures for the unit,

[Order No. 02AQER-3519, Issued 05/23/11, Approval Conditions 6, 6.1, 6.2]

19M. The initial tune-up of the boiler is due no later than **[DATE = 180 days after Permit issuance]** and according to the applicable provisions in 63.7(a)(2). Performance tune-ups of the boiler shall be conducted every 5 years thereafter. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. Each 5 year tune-up must be conducted no more than 61 months after the previous tune-up. The burner inspection and the inspection of the system controlling the air-to-fuel ratio may be delayed until the next scheduled unit shutdown; however the permittee must conduct these inspections at least one every 72 months. The permittee shall maintain records identifying the boiler, the date of tune-up, the procedure followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.

The permittee shall prepare, by March 1st of each 5 year period, and submit to Ecology or the EPA upon request, a 5 year compliance certification report for the previous calendar years containing the

information specified in 40 CFR 63.11225(b). The permittee must submit the report by March 15th if any instance was had described by 40 CFR 63.11225(b)(3).

The permittee shall maintain onsite and submit, if requested by Ecology or the EPA, a 5 year report containing:

1. The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.
2. A description of any corrective actions taken as a part of the tune-up of the boiler.
3. The type and amount of fuel used over the 12 months prior to the 5 year tune-up of the boiler.

The permittee shall also maintain:

1. Records of the occurrence and duration of each malfunction of the boiler.
2. Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.11205(a) including corrective actions to restore the malfunctioning boiler to its normal or usual manner of operation.

[40 CFR 63.11201(b), 63.11205(a), 63.11223(b), 63.11225(b), 63.11225(c), 63.11225(d); 7/1/17]

- 20M.** The permittee shall achieve compliance with the energy assessment requirement no later than **[DATE = 180 days after Permit issuance]**.

The permittee must submit a signed certification in the Notification of Compliance Status report that an energy assessment of the boiler and its energy use systems was completed and is an accurate depiction of your facility.

[40 CFR 63.11196(3), 63.11214; 7/1/17]

- 21M.** Submit all of the notifications in 63.7(b); 63.8(e) and (f); 63.9(b) through (e); and 63.9(g) and (h) that apply to the hog fuel boiler by the dates specified in those sections. As specified in 40 CFR 63.9(b)(2), submit the Initial Notification no later than **[DATE = 120 days after Permit issuance]**.

Submit a Notification of Compliance Status, in accordance with 40 CFR 63.9(h), no later than 120 days after July 19, 2014. The notification shall be signed by a responsible official and shall include the applicable certifications of compliances listed in 40CFR 63.11225(a)(4).

[40 CFR 63.11225, 63.11225(1), 63.11225(a)(4); 7/1/17]

- 22M.** Keep records of engine manufacturer data indicating compliance with the emission standards.

An operating log shall be kept, specifying purpose and duration of all operation.

Demonstration of continuous compliance with the operating requirements and limitations include:

1. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions or develop and follow 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.
2. Report each instance in which you did not meet an operating limitation.
3. By operating the engine according to the following conditions:
 - a. For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in nonemergency situations for 50 hours per year, as permitted in this section, is prohibited.

- b. There is no time limit on the use of emergency stationary RICE in emergency situations.
- c. You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. 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.
- d. You may operate your emergency stationary RICE 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. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Engine must have a non-resettable hour meter.

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 apply.

Change oil and filter every 500 hours of operation or annually, whichever comes first (except that sources can extend the period for changing the oil if the oil is part of an oil analysis program as discussed in §63.6625(i). Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and Federal, State, or local law under which the risk was deemed unacceptable.

[40 CFR 63, Subpart ZZZZ, §63.6603(a), §63.6625(i), §63.6640, §63.6655, Table 2d(4), 2017] [WAC 173-401-615(1), 9/16/02, 2/3/16(S)]

4. NON-APPLICABLE REQUIREMENTS

Ecology has determined that the entire source, including all emission units, is not subject to the following requirements at the time of permit issuance. Some of the requirements listed below may become applicable during the permit term due to an invoking event, even though the requirement is deemed inapplicable at the time of permit issuance. Such requirements shall therefore be met on a timely basis by the permittee through submittal of a compliance schedule, per WAC 173-401-510(2)(h)(iii)(B).

Inapplicable Requirement	Requirement Description	Explanation
40 CFR 60, Subpart Da	Standards of Performance for Electric Utility Steam Generating Units	The heat input for the boiler is less than 250 MMBtu/hr, therefore the facility is not defined as an Electric Utility Steam Generator as defined by 60.40Da(1)
40 CFR 60, Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	The facility was constructed prior to June 9, 1989 and is not a Small Industrial Commercial Institutional Steam Generator as defined in 60.40c(a)
40 CFR 60, Subpart CCCC	Standards of Performance for Commercial and Industrial Solid Waste Incineration Units	The facility was constructed prior to May 20, 2011 and is not a Commercial and Industrial Solid Waste Incineration Unit as defined in 60.2265
40 CFR 60, Subpart DDDD	Emissions Guidelines and Compliance Times for Commercial and Industrial Solid Waste Incineration Units	The facility is not a Commercial and Industrial Solid Waste Incineration Unit as defined in 60.2875
40 CFR 60, Subpart EEEE	Standards for Performance for Other Solid Waste Incineration Units	The facility was constructed prior to December 9, 2004, and is not classified as an Other Solid Waste Incinerator as defined in 60.2977
40 CFR 60, Subpart FFFF	Emissions Guidelines and Compliance Times for Other Solid Waste Incineration Units	The facility is not classified as an Other Solid Waste Incinerator as defined in 60.3078
40 CFR 60, Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	The facilities emergency generators were installed prior to July 11, 2005, and have not undergone modification or reconstruction since that time.
40 CFR 60, Subpart KKKK	Standards or Performance for Stationary Combustion Turbines	The combustion turbine was constructed prior to February 18, 2005.
40 CFR 61	National Emission Standards for Hazardous Air Pollutants	The facility is not a stationary source for which a standard is prescribed
40 CFR 63, Subpart	National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	The facility is not a major source for hazardous air pollutants.
40 CFR 63, Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process heaters.	The permittee does not operate a major source of hazardous air pollutants.
40 CFR 68	Chemical Accident Prevention Provisions	The facility does not have more than the threshold quantity of any regulated substance.