

**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) 07AQ-E231
KETTLE FALLS GENERATING STATION)
LOCATED IN KETTLE FALLS, WA) **FINAL 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: October 22, 2007
Effective Date: November 2, 2007
Expiration Date: November 1, 2012

Responsible Official: Mr. Scott Morris

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.

This Renewal Air Operating Permit, DATED at Spokane, Washington, the 22nd day of October, 2007.

PREPARED BY:

REVIEWED BY:

David W. Wendland
Eastern Region Air Quality Section
Department of Ecology
State of Washington

Robert W. Koster, P.E.
Eastern Region Air Quality Section
Department of Ecology
State of Washington

APPROVED BY:

Karen K. Wood, Section Manager
Eastern Region Air Quality Section
Department of Ecology
State of Washington

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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
Air Permits MS: OAQ-108
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), 09/16/02], [WAC 173-401-640(1), 09/16/02]

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

[WAC 173-401-625, 09/16/02]

1.3 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 operating permit if the permit fees are not paid, per WAC 173-401-930(3).

[WAC 173-401-620(2)(f), 930(3), 09/16/02], [RCW 70.94.162(1), 1/4/01 (S)], [Order No. 02AQER-3519, Issued 03/05/02, Approval Condition 9.8]

1.4 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), 09/16/02]

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

[WAC 173-401-620(2)(d), 09/16/02]

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

1.6.1 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.

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

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

1.6.4 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.

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

1.6.4.2 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 February 20, 2001), 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.

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

1.6.6 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.

[WAC 173-401-630(2), 09/16/02], [WAC 173-400-105(2),(4), 8/20/93, 07/11/02 (S)], [RCW 70.94.200, 1/4/01 (S)], [Order No. DE 95AQ-E131 Third Amendment, Issued 05/12/03, Approval Conditions 1.4, 5.2 and 6.6], [Order No. PSD-X80-11, Issued 07/28/80, Approval Conditions 6b and 8], [Order No. 02AQER-3519, Issued 03/05/02, Approval Condition 9.2], [40 CFR 60.8(e), 07/01/02]

1.7 Duty to Comply The permittee must comply with all conditions of this chapter 173-401 operating 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), 09/16/02], [Order No. DE 95AQ-E131 Third Amendment, Issued 05/12/03, Approval Conditions 6.10 and 6.12], [Order No. PSD-X80-11, Issued 07/28/80, Approval Condition 5], [Order No. 02AQER-3519, Issued 03/05/02, Approval Conditions 9.6, 9.7]

1.8 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.

No person shall make any false material statement, representation or certification in any form, notice or required report. No person shall render inaccurate any required monitoring device or method.

[WAC 173-401-620(2)(e), 09/16/02], [WAC 173-400-105(7), (8), 8/20/93, 07/11/02 (S)]

1.9 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), 09/16/02]

1.10 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), 09/16/02]

1.11 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:

1.11.1 An emergency occurred and that the permittee can identify the cause(s) of the emergency,

1.11.2 The permitted facility was being properly operated at the time of the emergency,

1.11.3 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

1.11.4 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, 09/16/02]

1.12 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.

1.12.1 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 1.12.2, 1.12.3, or 1.12.4.

1.12.2 Excess emissions due to startup or shutdown conditions shall be considered unavoidable provided the source reports as required under Condition 1.13.1 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.

1.12.3 Excess emissions due to scheduled maintenance shall be considered unavoidable if the source reports as required under Condition 1.13.1 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.

1.12.4 Excess emissions due to upsets shall be considered unavoidable provided the source reports as required under Condition 1.13.1 and adequately demonstrates 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 enforceable 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.

- 1.12.4.1 The event was not caused by poor or inadequate design, operation, maintenance, or any other reasonably preventable condition,
- 1.12.4.2 The event was not of a recurring pattern indicative of inadequate design, operation, or maintenance, and
- 1.12.4.3 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.

[WAC 173-400-107(3), 8/20/93, 07/11/02 (S)], [WAC 173-400-107, 8/20/93, 07/11/02 (S)]

1.13 Reporting

1.13.1 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 2.3.4 through 2.3.10 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 1.13.2 below.

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

1.13.2 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, or which the source believes to be unavoidable, “promptly” means as soon as possible, but in no case later than twelve (12) hours after the deviation is discovered. Other deviations shall be reported no later than thirty days after the end of the month during which the deviation is 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. Responsible official certification in accordance with Condition 1.13.5 of monthly deviation reports shall be included in each semi-annual monitoring report covering all deviation reports made during the previous six month period. [WAC 173-401-615(3)(b), 09/16/02], [WAC 173-400-107, 8/20/93, 07/11/02 (S)], [40 CFR 60.49b(h), 07/01/02], [WAC 173-401-630(1), 09/16/02]

1.13.3 Semi-Annual Monitoring Reports The permittee shall submit reports of any required monitoring (i.e., Monitoring Recordkeeping and Reporting identified in section 3) at least once every six (6) months. Six-month periods shall be 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. The first semi-annual monitoring report submitted under this Renewal AOP shall include all information required to be submitted under the original

AOP as well as any additional information required under the Renewal AOP. All instances of deviations from permit requirements must be clearly identified in such reports. The report must include identification of all months during which no deviations occurred. All required reports must be certified by a responsible official consistent with Condition 1.13.6.

[WAC 173-401-615(3)(a), 09/16/02]

1.13.4 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. Upon issuance of this final permit, a final compliance certification shall be submitted under the original AOP for the period of time between the latest certification submitted and the renewal permit effective date. The first certification submitted under this renewal AOP shall cover the period of time between the renewal permit effective date and the end of that calendar year. 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(5)(a), 09/16/02], [WAC 173-401-630(1), 09/16/02]

1.13.4.1 The certification shall describe and include the following:

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

1.13.4.1.2 The current compliance status,

1.13.4.1.3 Whether compliance was continuous or intermittent, and

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

[WAC 173-401-630(5)(c), 09/16/02]

1.13.4.2 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)(d), 09/16/02]

1.13.4.3 The permittee need not certify compliance for insignificant emission units or activities.

[WAC 173-401-530(2)(d), 09/16/02]

1.13.4.4 All compliance certifications shall include certification by a responsible official in accordance with Condition 1.13.6.

1.13.4.5 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), 07/01/02], [40 CFR 60.11(g), 07/01/02]

1.13.5 Emission 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 TSP, PM-10, SO₂, CO, NO_x, lead, and VOC's, and shall be submitted no later than **April 15th** of the following year. The source shall maintain records of information necessary to substantiate

any reported emissions, consistent with the averaging times for the applicable standards. Emissions inventories shall be sent to Ecology at the address included in this permit.

[WAC 173-400-105(1), 8/20/93, 07/11/02 (S)]

1.13.6 Submittals 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, 09/16/02], [WAC 173-401-500(6), 09/16/02], [40 CFR 60.4(a), (b), 07/01/02]

1.14 Severability If any provision of this permit, or application of 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), 09/16/02], [RCW 70.94.905, 1/4/01 (S)]

1.15 Administrative Permit Amendments

1.15.1 An administrative permit amendment is a permit revision that:

1.15.1.1 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,

1.15.1.2 Corrects typographical errors within the permit,

1.15.1.3 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,

1.15.1.4 Requires more frequent monitoring or reporting by the permittee, or

1.15.1.5 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.

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

1.15.3 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 1.15.1.5 above.

[WAC 173-401-720, 09/16/02]

1.16 Permit Actions This operating 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), 09/16/02]

1.17 Reopening for Cause

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

1.17.1.1 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).

1.17.1.2 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.

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

1.17.2 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.

1.17.3 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.

1.17.4 All permit conditions remain in effect until such time as Ecology takes final action.

[WAC 173-401-730, 09/16/02]

1.18 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:

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

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

1.18.3 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.

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

1.18.5 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.

1.18.6 A source making a change under this section shall comply with the preconstruction review requirements established pursuant to Condition 1.20.

[WAC 173-401-724, 09/16/02]

1.19 Changes not Requiring Permit Revisions

1.19.1 *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.

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

1.19.1.2 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;

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

1.19.1.4 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;

1.19.1.4.1 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.

1.19.2 *Changes related to Emissions trading under an emissions cap.* Pursuant to Condition 1.19.1, 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:

1.19.2.1 The written notification required under Condition 1.19.1.4 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.)

1.19.2.2 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.

1.19.2.3 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.

1.19.2.4 A source making a change under this section shall comply with applicable preconstruction review requirements established pursuant to Condition 1.20.

1.19.2.5 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, 09/16/02], [WAC 173-401-620(2)(g), 09/16/02]

1.20 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 173-400-141, or WAC 173-460 before the permittee obtains written final approval from Ecology in accordance with those regulations, pays the appropriate fees required by WAC 173-400-116, and pays the cost of public notice described in WAC 173-400-171.

[WAC 173-400-110, 8/20/93, 07/11/02 (S)], [WAC 173-400-113, 8/20/93, 07/11/02 (S)], [WAC 173-400-116, 07/11/02 (S)], [WAC 173-400-141, 07/11/02 (S)], [WAC 173-400-171, 8/20/93, 07/11/02 (S)], [WAC 173-460, 7/21/98 (S)], [RCW 70.94.152, 1/4/01 (S)], [Order No. DE 95AQ-E131 Third Amendment, Issued 05/12/03, Approval Conditions 1.5, 1.6]

1.21 Replacement or Substantial Alteration of Emission Control Technology { TC "2.26 Replacement or substantial alteration of emission control technology" \f C \l "2" } 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 according to that regulation. The permittee shall pay the appropriate fees required by WAC 173-400-045(4) prior to commencing construction.

[WAC 173-400-045(4), 07/11/02 (S)], [WAC 173-400-114, 07/11/02 (S)], [RCW 70.94.153, 1/4/01 (S)]

1.22 Operational Flexibility

1.22.1 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.

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

[WAC 173-401-650, 09/16/02]

1.23 Permit Appeals This permit or any conditions in it may be appealed only by filing an appeal with the Pollution Control Hearings Board, P.O. Box 40903, Olympia, WA 98504-0903 and concurrently serving it on the Department of Ecology, P.O. Box 47600, Olympia, WA 98504-7600 and the Department of Ecology, Regional Air Quality Section, 4601 North Monroe, Spokane, WA 99205-1295 within thirty days of receipt of this permit, pursuant to RCW 43.21B.310. This provision for appeal in this section is separate from and additional to any federal rights to petition and review under § 505(b) of the FCAA.

[WAC 173-401-620(2)(i), 09/16/02]

1.24 Federal Chlorofluorocarbons (CFC) Requirements – Title VI of the FCAA

1.24.1 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.

- 1.24.1.1 Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- 1.24.1.2 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.
- 1.24.1.3 Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
- 1.24.1.4 Persons disposing of small appliances, MVACs, 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.)
- 1.24.1.5 Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156.
- 1.24.1.6 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.
- 1.24.1.7 Persons conducting maintenance, service, repair, or disposal of appliances must follow the prohibitions pursuant to 40 CFR 82.154.
- 1.24.1.8 Person performing maintenance, service, repair, or disposal of appliances must certify to the Administrator that such person has acquired certified recovery of recycling equipment pursuant to 40 CFR 82.162.

1.24.2 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.

1.24.3 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.

1.24.4 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.

[40 CFR 82, 07/01/02], [RCW 70.94.970, 1/4/01 (S)], [RCW 70.94.980, 1/4/01 (S)]

1.25 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), 09/16/02], [RCW 70.94.154, 1/4/01 (S)]

1.26 Compliance Schedules

1.26.1 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), 09/16/02], [WAC 173-401-510(2)(h)(iii)(B), 09/16/02]

1.27 Record Keeping

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

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

1.27.1.2 The date(s) analyses were performed.

1.27.1.3 The company or entity that performed the analysis.

1.27.1.4 The analytical techniques or methods used.

1.27.1.5 The results of such analyses.

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

[WAC 173-401-615(2)(a), 09/16/02]

1.27.2 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), 09/16/02]

1.27.3 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 or electronic data recordings from continuous monitoring instrumentation, and copies of all reports required by this permit.

[WAC 173-401-615(2)(c), 09/16/02]

1.27.4 All required recordkeeping shall be available to Ecology in accordance with Condition 1.6.

[WAC 173-401-630(2)(b), 09/16/02], [40 CFR 60.7(b), 60.7(f), 07/01/02]

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

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

1.28.2 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.

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

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

1.28.5 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), 09/16/02]

1.29 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 (as outlined in WAC 173-401-510) is submitted at least 12 months, but no greater than 18 months prior to the date of permit expiration. A complete renewal application is due no later than October,31,2011. Upon receipt of a timely and complete application for renewal, this source may continue to operate subject to final action by Ecology on the renewal application. This allowance shall

cease to apply if, subsequent to a 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. The application shall be sent to Ecology at the address included in this permit.

[WAC 173-401-610, 710, 09/16/02]

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 notification, 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.

[40 CFR 61, Subpart M, 07/01/02], [WAC 173-400-075(1), 07/11/02 (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), 09/16/02], [WAC 173-401-630(1), 09/16/02], [WAC 173-400-105(4), 8/15/01]

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(1), (1)(a), and (1)(b) 8/20/93	F	Visible emissions shall not exceed 20% opacity for more than 3 minutes in any one hour	RM 9A	5M
	WAC 173-400-040(1), (1)(a), and (1)(b) 1/10/05	S			
2.1.2	WAC 173-400-060 8/20/93	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 1/10/05	S			
2.1.3	WAC 173-400-040(2) 1/10/05	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(3)(a), (8)(a) 8/20/93	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(3)(a), (8)(a) 1/10/05	S			

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.1.5	WAC 173-400-040(3(a), (8)(a) 1/10/05	S	Fugitive dust control measures shall be taken to prevent fugitive emissions		5M
2.1.6	WAC 173-400-040(4) 1/10/05	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(5) 8/20/93	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(5) 1/10/05	S			
2.1.8	WAC 173-400-040(7) 8/20/93	F	No person shall conceal or mask an emission of an air contaminant	None	1M
	WAC 173-400-040(7) 1/10/05	F			
	40 CFR 60.12	F			
2.1.9	WAC 173-400-200(2) 8/20/93	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) 1/10/05	S			
2.1.10	WAC 173-400-205 8/20/93	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 1/10/05	S			

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.1.11	RCW 70.94.040 1/4/01	S	Causing air pollution in violation of Chapter 70.94 RCW is unlawful	None	1M
2.1.12	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Section 3. BACT and Section 4. T-BACT Chapter 173-425 WAC – Restriction on Open Burning	F <hr/> F	No open burning is allowed on site unless authorized by Ecology	None	2M
2.1.13	WAC 173-400-040, 1 st ¶ 8/20/93 <hr/> WAC 173-400-040, 1 st ¶ 1/10/05 (RCW 70.94.154(1))	F <hr/> S	All emissions units are required to use RACT	None	1M

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 3 rd Amendment Issued 05/12/03 Approval Conditions 2.1, 3.2 and 6.3	F	Opacity from the stack shall be < 10% (averaged over a six minute time interval as measured by COMS)	RM 9	10M, 12M
	PSD-X80-11 Issued 07/28/80 Approval Condition 1	F			
2.3.2	WAC 173-400-070(2)(a) 08/20/93	F	Hog fuel boilers shall meet all provisions of WAC 173-400-040 and 173-400-050(1), except opacity may exceed 20% for 15 minutes once every 8-hour period for soot blowing/grate cleaning which shall be scheduled for the same specific times each day and Ecology shall be notified of any change in this schedule	RM 9	10M, 12M
	WAC 173-400-070(2)(a) 1/10/05	S			
2.3.3	40 CFR 60.43b(f), (g), 60.46b(a), 60.48b(a), 07/01/02	F	Opacity ≤ 20% (6 minute average) – standard shall apply at all times except startup, shutdown, or malfunction	RM 9	10M, 12M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.3.4*	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Conditions 2.2, 5.1, 5.3, 5.4, 5.5, 6.7	F	PM ≤ 21.1 lbs/hr and ≤ 90 TPY	RM's 1,2,3, 4,5, and 202	7M, 8M, 9M, 14M
	PSD-X80-11 Issued 07/28/80 Approval Condition 1	F			
	40 CFR 60.8(a), (b), (c), (d), (f), 07/01/02	F			
2.3.5	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 1,2,3, 4, and 5	7M, 8M, 9M, 14M
2.3.6	40 CFR 60.43b(c)(1), (g), 60.46b(a), 07/01/02	F	PM ≤ 0.1 lb/MMBTU heat input – standard shall apply at all times except startup, shutdown, or malfunction	RM's 1,2,3, 4,5, and 202	7M, 8M, 9M, 14M
2.3.7	WAC 173-400-040 (6, 1 st ¶) 8/20/93	F	SO ₂ ≤ 1000 ppm @ 7% O ₂ (Sixty minute average)	RM 6	6M
	WAC 173-400-040(6) 1/10/05	S			
2.3.8*	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Condition 2.2	F	CO ≤ 1,088 lb/hr and CO ≤ 4,635 TPY	RM 10	7M, 8M
2.3.9*	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Condition 2.2	F	NO _x ≤ 142 lb/hr and ≤ 540 TPY	RM 7	7M, 8M
2.3.10*	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Condition 2.2	F	HC ≤ 55 lb/hr and HC ≤ 210 TPY	RM 25A	7M, 8M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.3.11	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Condition 2.2	F	Lead ≤ 0.01 TPY	RM 12	6M
2.3.12	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Condition 2.2	F	Acetaldehyde ≤ 1.1 TPY		6M
2.3.13	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Condition 2.2	F	Benzene ≤ 3,620 lbs/year		6M
2.3.14	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Condition 2.2	F	Formaldehyde ≤ 8 TPY		6M
2.3.15	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Conditions 1.1, 1.2, 1.3, 1.4, 4 PSD-X80-11 Issued 07/28/80 Approval Condition 6b 40 CFR 60.49b(d), (o), 07/01/02	F <hr/> F <hr/> F	<ul style="list-style-type: none"> • Annual plant operation shall be limited to: 8,520 hrs • Annual fuel consumption shall be limited to 724,200 tons wood waste and 610,001,000 cubic feet of natural gas 		11M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.3.16	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Condition 6.2	F	The hog fuel boiler shall only be fired on wood waste fuel or natural gas		2M
2.3.17	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Section 3. BACT and Section 4. T-BACT (PM)	F	PM emissions from the hog fuel boiler shall be controlled by a 70% efficient multi-clone followed by a 99% efficient electrostatic precipitator		1M
2.3.18	WAC 173-400-070(2)(b) 8/20/93	F	All hog fuel boilers shall utilize RACT and shall be operated and maintained to minimize emissions		2M
	WAC 173-400-070(2)(b) 1/10/05	S			
	40 CFR 60.11(d), 07/01/02	F			
2.3.19	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Condition 6.10	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			
2.3.20	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Condition 6.8	F	Approval Order and O&M Manual shall be in close proximity and accessible to the operators of the plant		2M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.3.21	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Condition 3.1, 4.1, 4.1.1, 4.1.2, 4.1.3, 4.1.4, 4.1.5	F	O&M manual shall be followed and kept updated		13M
2.3.22	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Conditions 1.5, 1.6 40 CFR 60.7(a)(4), 07/01/02	F 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
2.3.23	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Condition 6.5	F	Order No. DE 95AQ-E131 becomes void if operation is discontinued for 18 months		1M
2.3.24	Order No. DE 95AQ-E131 3 rd Amendment Issued 05/12/03 Approval Condition 6.12 40 CFR 64.7(b)	F 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

2.4 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 03/05/02 Approval Condition 3.2, 4.2	F	Opacity shall not exceed 5%, averaged over a six (6) minute period	RM 9	16M
2.4.2	Order No. 02AQER-3519 Issued 03/05/02 Approval Condition 3.4	F	PM emissions shall not exceed 0.63 lbs/hour and 2.8 tons/year (filterable + condensable portions)	RM 5 and 202	7M, 15M
2.4.3	Order No. 02AQER-3519 Issued 03/05/02 Approval Condition 3.1	F	NO _x emissions shall be ≤ 25.0 ppmdv @ 15% O ₂ (3-hr average) or ≤ 8.90 lbs/hr or ≤ 38.9 tons per year	RM 20	7M, 15M
	40 CFR 60.8(a), (b), (c), (d), (f), 60.332(c), 60.335(b), 07/01/02	F			
2.4.4	Order No. 02AQER-3519 Issued 03/05/02 Approval Condition 3.2	F	CO emissions shall be ≤ 30.0 ppmdv @ 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 03/05/02 Approval Conditions 2.3, 3.5	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
	40 CFR 60.333(a), (b), 334(h), 04/25/06	F			

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.4.6	Order No. 02AQER-3519 Issued 03/05/02 Approval Condition 1.1, 1.2, 4.1	F	Annual operation of 8,760 hours permitted, combustion of pipeline quality natural gas only	None	16M
2.4.7	Order No. 02AQER-3519 Issued 03/05/02 Section 3. BACT and Section 4. T-BACT (PM, SO ₂ , NO _x , CO, VOC's) 40 CFR 60.11(d), 07/01/02	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
2.4.8	Order No. 02AQER-3519 Issued 03/05/02 Section 3. BACT and Section 4. T-BACT (NO _x)	F	Emissions of nitrogen oxides will be controlled by a SoloNO _x combustor	None	1M
2.4.9	Order No. 02AQER-3519 Issued 03/05/02 Approval Conditions 1.1, 9.5 40 CFR 60.7(a)(4), 07/01/02	F	Any modification to plant or operating procedures shall be reported to Ecology 60 days prior to such modification	None	17M
2.4.10	Order No. 02AQER-3519 Issued 03/05/02 Approval Condition 9.3	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

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.4.11	Order No. 02AQER-3519 Issued 03/05/02 Approval Condition 9.4 40 CFR 60.11(d)	F <hr/> 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
2.4.12	Order No. 02AQER-3519 Issued 03/05/02 Approval Condition 9.1	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 03/05/02 Approval Condition 3.1	F	Any indication of exceedances of the NO _x limit shall be investigated and corrected within 48 hours	None	1M
2.4.14	Order No. 02AQER-3519 Issued 03/05/02 Approval Conditions 5, 5.1, 5.2	F	O&M manual shall be kept updated	None	18M

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), 09/16/02]

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), 09/16/02]

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), 09/16/02]

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 1.13.2 of this permit.

[WAC 173-401-615(1)(b), 09/16/02]

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 1.13.2, as well as annual certification of compliance as described in Standard Condition 1.13.4. 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), 09/16/02]

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.

Annually – As part of the annual emissions inventory submittal required under Standard Condition 1.13.5, 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. 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), 09/16/02]

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.

Annually – As part of the annual emissions inventory submittal required under Standard Condition 1.13.5, 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.

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), 09/16/02]

MAIN HOG FUEL BOILER

8M. Periodic performance testing shall be conducted every five (5) years. Initial performance testing shall be conducted no later than one hundred twenty (120) days following the final renewal permit effective date. The following conditions shall apply to all testing:

- 1) Particulate matter shall be reported for fronthalf (RM 5) and backhalf (RM 202). Particulate matter emissions shall be reported in grains per dry standard cubic foot of exhaust gas (gr/dscf) as well as pounds per hour (lb/hr).
- 2) Testing for PM, NO_x, CO, and HC shall be performed using the appropriate EPA reference method. Pollutant emission rates shall be reported in terms consistent with the applicable requirement.
- 3) The testing shall consist of at least three (3) runs, with the boiler operating at a minimum of ninety (90) percent of maximum production rate.

- 4) The testing will consist of two runs at normal boiler operation and one run with a grate ash cleaning and/or soot blowing evolution in progress.
- 5) Opacity as reported by the COMS as well as all monitored boiler and control equipment (multiclone and ESP) operating parameters shall be recorded during the entire duration of the testing and submitted as part of the test report.
- 6) 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 form shall be submitted as part of the test report.
- 7) 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.
- 8) 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.
- 9) The test report shall be sent to Ecology within sixty (60) days after the testing.
- 10) Alternate methods of testing and alternate testing requirements may be proposed by the permittee in writing to Ecology. Permission for use of alternate forms of testing and requirements must be approved in writing by Ecology.

[Order No. DE 95AQ-E131 3rd Amendment Issued 05/12/03, Approval Conditions 5.1, 5.3, 5.4, 5.5 and 6.7], [WAC 173-401-630(1), 09/16/02], [40 CFR 60.8(a), (b), (c), (d), (f), 07/01/02]

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), 07/01/02], [40 CFR 64.7(a), 07/01/02]
- 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), 07/01/02]
- 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), 07/01/02]

10M. Monitoring – A Continuous Opacity Monitoring System (COMS) which meets the approval requirements of the Environmental Protection Agency, is installed and shall be maintained. The COMS shall conform to 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*. The COMS shall be operated using quality assurance procedures conforming to *EPA 340/1-86-010, Recommended Quality Assurance Procedures of Opacity CEMS*. 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 3rd Amendment Issued 05/12/03, Approval Conditions 3.2, 6.3],
[WAC 173-401-630(1), 09/16/02], [Order No. PSD-X80-11, Issued 07/28/80, Approval
Condition 6b], [40 CFR 60.48b(a), 60.49b(f), 07/01/02]

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 for 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. steam or 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 1.13.3 Reporting.

[Order No. DE 95AQ-E131 3rd Amendment Issued 05/12/03, Approval Conditions 1.4, 4],
[Order No. PSD-X80-11, Issued 07/28/80, Approval Condition 6b], [40 CFR 60.49b(d), (o), 07/01/02], [WAC 173-401-630(1), 09/16/02]

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), 09/16/02]

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 for the plant,
- 2) A maintenance schedule for the plant,
- 3) Monitoring and recordkeeping requirements,
- 4) A description of the monitoring procedures,
- 5) Actions for abnormal control system operation,
- 6) References for all on-line monitors operating at the plant.

[Order No. DE 95AQ-E131 3rd Amendment Issued 05/12/03, Approval Conditions 3.1, 4.1, 4.1.1, 4.1.2, 4.1.3, 4.1.4, 4.1.5], [WAC 173-401-630(1), 09/16/02]

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 (analog), 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, dumping 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 1.13.2. 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, 07/01/02]

COMBUSTION TURBINE

15M. Periodic performance testing shall be conducted every two (2) 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 with the duct burner in full operation.
- 2) Testing for PM, NO_x and CO shall be performed using the appropriate EPA reference method. 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 thirty (30) days after the testing.

[Order No. 02AQER-3519, Issued 03/05/02, Approval Condition 2.2], [WAC 173-401-630(1), 09/16/02], [40 CFR 60.8(a), (b), (c), (d), (f), 07/01/02]

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 permittee shall demonstrate that the fuel combusted in the turbine meets the definition of natural gas in 40 CFR 60.331(u). The permittee shall use one of the following sources of information to make the required demonstration:
 - i) The gas quality characteristics in a current valid purchase contract, tariff sheet or transportation contract for the gaseous fuel specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or
 - ii) Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20.0 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of Appendix D to 40 CFR 75 is required.
 - b) The permittee shall monitor the nitrogen content of the fuel combusted in the turbine if the permittee claims an allowance for fuel bound nitrogen to establish a NO_x emission limit per the methods specified in 40 CFR 60.332(c). The nitrogen content of the fuel shall be determined using methods described in 40 CFR 60.335(b)(9) or an approved alternative. The permittee is not required to monitor fuel bound nitrogen; however the permittee cannot claim an allowance for fuel bound nitrogen without monitoring data collected in accordance with 40 CFR 60.335(b)(9) or an approved alternative.

- c) 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 1.13.3.
 - b) Annual emissions reporting as required under Standard Condition 1.13.5, 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 1.13.2.
 - 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 03/05/02, Approval Conditions 2.3, 4.1, 4.2, 4.3, 7, 7.1, 7.2, 7.3, 8], [40 CFR 60.334(b), (c)(2), 60.335, 07/01/02], [WAC 173-401-630(1), 09/16/02]

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 1.20.

[40 CFR 60.7(a)(4), 07/01/02]

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,
- 3) Manufacturers operating instructions.

[Order No. 02AQER-3519, Issued 03/05/02, Approval Conditions 5, 5.1, 5.2]