



## AIR OPERATING PERMIT

Puget Sound Clean Air Agency  
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Seattle, Washington 98101

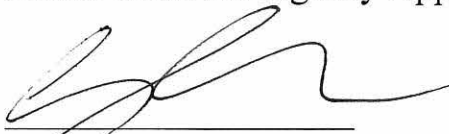
Issued in accordance with the provisions of Puget Sound Clean Air Agency Regulation I, Article 7; and Chapter 173-401 WAC.


Pursuant to Puget Sound Clean Air Agency Regulation I, Article 7 and Chapter 173-401 WAC, Puget Sound Energy is authorized to operate subject to the terms and conditions in this permit.

<b>PERMIT NO.: 10028</b>	<b>DATE OF ISSUANCE: May 15, 2007</b> <b>Administrative Amendment 1: February 18, 2009</b> <b>Administrative Amendment 2: April 4, 2011</b> <b>Administrative Amendment 3: March 12, 2013</b> <b>Administrative Amendment 4: November 28, 2018</b>
<b>ISSUED TO: Puget Sound Energy, Inc. (Frederickson Electric Generating Station)</b>	
<b>PERMIT EXPIRATION DATE: MAY 15, 2012</b>	

SIC Code, Primary: 4911  
NAICS Code: 22111  
Nature of Business: Electric power generation, fossil fuel (e.g., coal, oil, gas)  
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## I. EMISSION LIMITS AND PERFORMANCE STANDARDS

The following tables list the citation for each “applicable requirement” in the second column. This can be a Puget Sound Clean Air Agency requirement, a Washington State Department of Ecology requirement, or a federal requirement. All requirements are federally enforceable unless they are identified in column two by the words “*STATE ONLY*.”

The third column (Date) contains the adoption or effective date of the requirement. In some cases, the effective dates of the Federally Enforceable Requirement and the State Only Requirement are different because either the state has not yet submitted the regulation to the EPA for approval into the State Implementation Plan (SIP) or the EPA has not yet approved it. “*STATE ONLY*” adoption dates are in *italicized* font. When the EPA does approve the new requirement into the SIP, the old requirement will be replaced and superseded by the new requirement. This replacement will take place automatically, with no changes being made to this permit until the permit is renewed. The new requirement will be enforceable by the EPA as well as the Puget Sound Clean Air Agency from the date that it is adopted into the SIP, and the old requirement will no longer be an applicable requirement.

The first column is used as an identifier for the requirement, and the fourth (Requirement Paraphrase) column paraphrases the requirement. The first and fourth columns are for information only and are not enforceable conditions of this permit. The actual enforceable requirement is embodied in the requirement cited in the second and third columns.

The fifth column (Monitoring, Maintenance & Recordkeeping Method) identifies the methods described in Section II of the permit. Following these methods is required to “reasonably assure continuous compliance” with, and is an enforceable requirement of, this air operating permit. Note that all inspections, tests, and other actions must be documented (see paragraph 4 of Subsection V.O for specific requirements).

The sixth (Emission Standard Period) column identifies the averaging time for the reference test method. The last column (Reference Test Method) identifies the reference method associated with an applicable emission limit that is to be used if and when a source test is required. In some cases where the applicable requirement does not cite a test method, one has been added.

In the event of conflict or omission between the information contained in the fourth and sixth columns and the actual statute or regulation cited in the second column, the requirements and language of the actual statute or regulation cited shall govern. For more information regarding any of the requirements cited in the second and third columns, refer to the actual requirements cited.

### A. FACILITY-WIDE APPLICABLE REQUIREMENTS

The requirements in this section apply facility-wide to all the emission units regulated by this permit except that monitoring methods specified elsewhere in the permit for specific applicable requirements at specific emission units supersede the general monitoring requirements listed in Section I.A.

**Table 1 Facility-Wide Applicable Requirements**

Reqmt No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method	Emission Standard Period	Reference Test Method
<b>General</b>						
I.A.1	WAC 173-400-040 WAC 173-400-040 (STATE ONLY)	9/23/93 2/10/05	All emission units are required to use RACT.	No monitoring required	N/A	N/A
<b>Opacity Standards</b>						
I.A.2	Puget Sound Clean Air Agency Reg I: 9.03 (except for 9.03(e)) Puget Sound Clean Air Agency Reg. I: 9.03 (STATE ONLY) WAC 173-400-040(1) WAC 173-400-040(1) (STATE ONLY)	3/11/99 3/25/04 9/23/93 2/10/05	Puget Sound Energy shall not emit any air pollutants which exhibit greater than 20% opacity for a period or periods aggregating more than 3 minutes in any hour	II.A.1(a) Opacity Monitoring	More than 3 min. in any 1 hr	Ecology Reference Method 9A, 7/12/1990 (See Section X)



Reqmt No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method	Emission Standard Period	Reference Test Method
<b>Particulate Matter Standards</b>						
I.A.3	Puget Sound Clean Air Agency Reg I: 9.09	4/9/98	Puget Sound Energy shall not emit particulate matter in excess of 0.05 gr/dscf from equipment used in a manufacturing process.	II.A.1(a) Opacity Monitoring	(3) 1-hour runs	40 CFR 60, Appendix A, Reference Method 5 as modified by Puget Sound Clean Air Agency Resolution dated 8/11/1983
I.A.4	WAC 173-400-060 WAC 173-400-060 (STATE ONLY).	3/22/91 2/10/05	Puget Sound Energy shall not emit particulate matter in excess of 0.1 gr/dscf uncorrected for excess air from general process units	II.A.1(a) Opacity Monitoring	(3) 1-hour runs	EPA Method 5 (40 CFR Part 60, Appendix A, July 1, 2005)
I.A.5	WAC 173-400-050(1) WAC 173-400-050(1) (STATE ONLY)	3/22/91 2/10/05	Puget Sound Energy shall not emit particulate matter in excess of 0.1 gr/dscf corrected to 7% O <sub>2</sub> from combustion and incineration units.	II.A.1(a) Opacity Monitoring	(3) 1-hour runs	EPA Method 5 (40 CFR Part 60, Appendix A, July 1, 2005)
<b>SO<sub>2</sub> Standards</b>						
I.A.6	Puget Sound Clean Air Agency Reg I: 9.07 WAC 173-400-040(6) first paragraph only. WAC 173-400-040(6) (STATE ONLY)	4/14/94 9/23/93 2/10/05	Puget Sound Energy shall not emit SO <sub>2</sub> in excess of 1,000 ppmv (dry) corrected to 7% O <sub>2</sub> for fuel burning equipment	No monitoring required	(3) 1-hour runs	EPA Method 6C (40 CFR Part 60, Appendix A, July 1, 2005)

Reqmt No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method	Emission Standard Period	Reference Test Method
<b>HCl Standards</b>						
I.A.7	Puget Sound Clean Air Agency Reg. I: 9.10(a) (STATE ONLY)	6/9/88	Puget Sound Energy shall not emit HCl in excess of 100 ppm (dry) corrected to 7% O <sub>2</sub> for combustion sources	No monitoring required	(3) 1-hour runs	EPA Method 26 or 26A (40 CFR Part 60, Appendix A; July 1, 2005)
<b>Nuisance Standards</b>						
I.A.8	WAC 173-400-040(5) <i>Puget Sound Clean Air Agency Reg. I: 9.11 (STATE ONLY)</i> WAC 173-400-040(5) (STATE ONLY) WAC 173-400-040(2) (STATE ONLY) RCW 70.94.040 (STATE ONLY)	9/20/93 3/11/99 2/10/05 2/10/05 1996	Puget Sound Energy shall not emit air contaminants in sufficient quantities and of such characteristics and duration as is, or is likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interferes with enjoyment of life and property	II.A.1(b) Complaint Response II.A.1(c) Facility-Wide Inspections	NA	NA
I.A.9	WAC 173-400-040(4) (STATE ONLY)	2/10/05	Puget Sound Energy shall use recognized good practice and procedures to reduce to a minimum odors which may unreasonably interfere with any other property owners' use and enjoyment of their property	II.A.1(b) Complaint Response II.A.1(c) Facility-Wide Inspections	NA	NA

Reqmt No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method	Emission Standard Period	Reference Test Method
<b>Fugitive Emissions Standards</b>						
I.A.10	WAC 173-400-040(3)	9/23/93	Puget Sound Energy shall take reasonable precautions to prevent release of fugitive dust.	II.A.1(b) Complaint Response  II.A.1(c) Facility-Wide Inspections	NA	NA
	WAC 173-400-040(3) (STATE ONLY)	2/10/05				
	WAC 173-400-040(8)	9/23/93				
	WAC 173-400-040(8) (STATE ONLY)	2/10/05				

Reqmt No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method	Emission Standard Period	Reference Test Method
I.A.11	Puget Sound Clean Air Agency Reg. I: 9.15	3/11/99	<p>(a) Puget Sound Energy shall not cause or allow visible emissions of fugitive dust unless reasonable precautions are employed to minimize the emissions. Reasonable precautions include, but are not limited to, the following:</p> <ol style="list-style-type: none"> <li>(1) The use of control equipment, enclosures, and wet (or chemical) suppression techniques, as practical, and curtailment during high winds;</li> <li>(2) Surfacing roadways and parking areas with asphalt, concrete, or gravel;</li> <li>(3) Treating temporary, low-traffic areas (e.g., construction sites) with water or chemical stabilizers, reducing vehicle speeds, constructing pavement or rip rap exit aprons, and cleaning vehicle undercarriages before they exit to prevent the track-out of mud or dirt onto paved public roadways; or</li> <li>(4) Covering or wetting truck loads or allowing adequate freeboard to prevent the escape of dust-bearing materials</li> </ol> <p>(b) Compliance with the provisions of this section shall not relieve Puget Sound Energy of the responsibility of complying with Reg. I: 9.11.</p>	<p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility-Wide Inspections</p>	NA	NA
<b>Operations and Maintenance Standards</b>						
I.A.12	Puget Sound Clean Air Agency Reg. I: 9.20(b)	6/9/88	Puget Sound Energy shall maintain equipment not subject to Puget Sound Clean Air Agency Reg. I, Section 9.20(a) in good working order	II.B Operation and Maintenance (O&M) Plan Requirements	N/A	N/A

Reqmt No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method	Emission Standard Period	Reference Test Method
I.A.13	Puget Sound Clean Air Agency Reg. I: 7.09(b)	9/10/98	Puget Sound Energy shall develop and implement an O&M Plan to assure continuous compliance with Puget Sound Clean Air Agency Regulations I, II and III	II.B Operation and Maintenance (O&M) Plan Requirements	NA	NA
I.A.14	RCW 70.94.152(7) (STATE ONLY)	1996	Must maintain and operate equipment requiring an NOC in good working order	II.B Operation and Maintenance (O&M) Plan Requirements	NA	NA
I.A.15	RCW 70.94.040 (STATE ONLY)	1996	Except where specified in a variance permit, as provided in RCW <u>70.94.181</u> , it shall be unlawful for any person to cause air pollution or permit it to be caused in violation of chapter 70.94 RCW, or of any ordinance, resolution, rule or regulation validly promulgated thereunder.	No monitoring required	N/A	N/A

NA = Not Applicable

***B. EMISSION UNIT SPECIFIC APPLICABLE REQUIREMENTS***

The requirements in Section I.B. only apply to the specific emission units cited; however, the requirements in Section I.A. also apply to the specific emission units or activities described in Section I.B. If the monitoring, maintenance and recordkeeping method for any requirement in Section I.A. was more extensive for specific emission units, the requirement was repeated in this section with the additional monitoring, maintenance and recordkeeping requirements.

**1. Emission Unit #1 (EU-1): Two GE 7101E 75 MW combustion turbines with water injection**

This emission unit consists of combustion turbine emission units 1 and 2.

**Table 2 EU-1: Two GE 7101E 75 MW combustion turbines with water injection**

Reqmt No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method	Emission Standard Period	Reference Test Method
EU-1.1	Order of Approval No. 6860 Condition 5 40 CFR 60.332(a)(1) PSD X80-17	8/22/97 1/27/82 9/26/80	<p>Puget Sound Energy shall not exceed the hourly average emission concentration on a percent by dry volume basis corrected to 15% O<sub>2</sub> for:</p> <p>(a) <math>\text{NO}_x = 0.0075 \cdot (14.4/Y) + F</math>, or</p> <p>(b) <math>\text{SO}_2 = 0.009</math> (or a maximum fuel sulfur content of 0.5% by weight).</p> <p>Where <math>Y</math> is the manufacturer's rated heat rate at peak load in kilojoules/watt-hour which shall not exceed 14.4 kilojoules/watt hour, and <math>F</math> is either the default value of 0 or calculated by :</p> <p>(c) 0, when <math>N</math> (the fuel bound nitrogen by % weight) is less than or equal to 0.015;</p> <p>(d) <math>0.04 \cdot N</math>, when <math>N</math> is greater than 0.015 but less than or equal to 0.1;</p> <p>(e) <math>0.004 + 0.0067 \cdot (N - 0.1)</math>, when <math>N</math> is greater than 0.1 but less than 0.25; or</p> <p>(f) 0.005, when <math>N</math> is greater than or equal to 0.25</p>	II.A.2(b) Combustion turbine monitoring II.C Compliance Assurance Monitoring	At least 60 minutes per run	EPA Methods 6 and 20, 40 CFR Part 60, Appendix A, July 1 2005
EU-1.2	Order of Approval No. 6860 Condition 6 PSD X80-17	8/22/97 9/26/80	<p>Puget Sound Energy shall not exceed the emission rate for:</p> <p>(a) <math>\text{NO}_x = 388</math> lb/hr per turbine and 580 ton/year total for two turbines; and</p> <p>(b) <math>\text{SO}_2 = 480</math> lb/hr per turbine and 720 ton/year total for two turbines</p>	II.A.2(b) Combustion turbine monitoring II.C Compliance Assurance Monitoring	At least 60 minutes per run	EPA Methods 6 and 20, 40 CFR Part 60, Appendix A, July 1 2005



Reqmt No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method	Emission Standard Period	Reference Test Method
EU-1.3	Order of Approval No. 8436 Condition 5	10/9/02	Emissions of NO <sub>x</sub> from Puget Sound Energy shall not exceed: (a) 144 pounds per hour from any combustion turbine exhaust stack when fired on natural gas; (b) 246 pounds per hour from any combustion turbine exhaust stack when fired on distillate oil; and (c) 530 tons per year from the entire facility.	II.A.2(b) Combustion turbine monitoring II.C Compliance Assurance Monitoring	At least 60 minutes per run	EPA Methods 6 and 20, 40 CFR Part 60, Appendix A, July 1 2005
EU-1.4	Order of Approval No. 8436 Condition 3	10/9/02	Puget Sound Energy shall not consume more than 6,900,000 MMBtu facility-wide, during any consecutive 12-month period (based upon a maximum capacity of 794.25 MMBtu/hr for each turbine unit, 1,020 Btu per cubic foot for natural gas, and 139,000 Btu per gallon of distillate oil.	II.A.2(b) Combustion turbine monitoring	N/A	N/A

Reqmt No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method	Emission Standard Period	Reference Test Method
EU-1.5	Puget Sound Clean Air Agency Reg I: 9.08(a) RCW 70.94.610	4/14/94  1991	It shall be unlawful for any person to cause or allow combustion of oil that exceeds any of the following maximum limits unless allowed by a Puget Sound Clean Air Agency Order of Approval issued under Reg I: 6.07:  <ul style="list-style-type: none"> <li>▪ Ash 0.1%</li> <li>▪ Sulfur, used oil 1.0%</li> <li>▪ Sulfur, fuel oil 2.00%</li> <li>▪ Lead 100 ppm</li> <li>▪ Arsenic 5 ppm</li> <li>▪ Cadmium 2 ppm</li> <li>▪ Chromium 10 ppm</li> <li>▪ Total halogens 1,000 ppm</li> <li>▪ PCBs 2 ppm</li> <li>▪ Flash point 100 °F</li> </ul>	II.A.2(b) Combustion turbine monitoring	N/A	Ash ASTM D482-00A, Sulfur ASTM D3120-96, Halogens EPA SW846, 9076, PCB EPA SW846, 8080, Lead EPA 600/4-81-045, 200.7
EU-1.6	40 CFR 60.333	9/10/79	(a) SO <sub>2</sub> emissions shall not exceed 0.015% by volume on a dry basis corrected to 15% O <sub>2</sub> ; or  (b) Fuel shall not contain sulfur in excess of 0.8% by weight.	II.A.2(b) Combustion turbine monitoring	At least 20 minutes per run	EPA Method 6, 40 CFR Part 60, Appendix A, July 1, 2005
EU-1.7	PSD X80-17	9/26/80	Fuel shall not exceed 0.5% sulfur by weight	II.A.2(b) Combustion turbine monitoring	3 samples per fuel load for liquid fuel and once each 24 hours for gaseous fuel.	ASTM D-2880, D-1072, D-3031, D-4084, or D-3246

Reqmt No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method	Emission Standard Period	Reference Test Method
EU-1.8	Order of Approval No. 8436 Condition 4	10/9/02	Puget Sound Energy shall fire the turbine units only on natural gas and distillate oil with sulfur content no greater than 0.05 percent sulfur by weight, as purchased.	II.A.2(a) Fuels, trace compound and flashpoint	NA	NA
EU-1.9	40 CFR 60.7(e)	9/15/94	Defines criteria to allow reducing the frequency of reporting excess emissions required in 40 CFR 60.7(d)	NA	NA	NA
EU-1.10	40 CFR 60.7(f)	9/15/94	Requires and defines the retention of all records required by 40 CFR 60.7	NA	NA	NA
EU-1.11	Puget Sound Clean Air Agency Reg. I: 9.20(a) 40 CFR 60.11(d)	6/9/88 3/26/87	Must maintain equipment in good working order	II.B Operation and Maintenance (O&M) Plan Requirements	NA	NA

NA = Not Applicable

## 2. Emission Unit #2 (EU-2): Two Monsanto Brink Fiber Bed Demisters

This emission unit consists of two Monsanto Brink fiber bed model Chase 56X108es60-E demisters.

**Table 3 EU-2: Two Monsanto Brink Fiber Bed Demisters**

Reqmt No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method	Emission Standard Period	Reference Test Method
EU-2. 1.	Order of Approval No. 6461 Condition 4	4/25/96	Puget Sound Energy shall install a pressure drop indicator across the elements and maintain a pressure between 8 and 19 inches water gauge.	II.A.2(c) Demister Monitoring	NA	NA
EU-2. 2.	Order of Approval No. 6461 Condition 5	4/25/96	Puget Sound Energy shall not exceed 0.02 gr/dscf from the Lube Oil Mist Eliminators	II.A.2(c) Demister Monitoring	(3) 1-hour runs	40 CFR 60, Appendix A, Reference Method 5 as modified by Puget Sound Clean Air Agency Resolution dated 8/11/1983
EU-2. 3.	Order of Approval No. 6461 Condition 6	4/25/96	Puget Sound Energy shall not exceed 5% opacity from the Lube Oil Mist Eliminators	II.A.2(c) Demister Monitoring	More than 3 min. in any 1 hr	Ecology Reference Method 9A, 7/12/1990 (See Section X)

NA = Not Applicable

## **II. MONITORING, MAINTENANCE AND RECORDKEEPING PROCEDURES**

### ***A. Minimum Monitoring and Maintenance Requirements***

#### **1. Facility-Wide Monitoring**

##### ***(a) Opacity Monitoring***

Puget Sound Energy shall conduct at least one inspection per calendar month of the facility for visible emissions during months that the facility operates. Inspections are to be performed while the equipment is in operation during daylight hours. If visible emissions other than uncombined water are observed that last longer than three minutes in an hour, Puget Sound Energy shall, as soon as possible, but no later than 24 hours after the initial observation, take corrective action until there are no visible emissions or, alternatively, record the opacity using the reference test method or shut down the unit or activity until it can be repaired. [WAC 173-401-615(1)(b), 10/17/02]

##### ***(b) Complaint Response***

Puget Sound Energy shall record and commence an investigation of air pollution complaints as soon as possible, but no later than three days after receipt. Puget Sound Energy shall identify complaints regarding these emissions as follows:

1. Any emissions that are, or are likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interfere with enjoyment of life and property; or
2. Any emissions from fallout, or
3. Any track-out onto paved roads open to the public, or
4. Any emissions of odor-bearing air contaminants, or
5. Complaints regarding other applicable requirements.

Puget Sound Energy shall investigate the complaint and determine if there was noncompliance with an applicable requirement of this permit. If it is determined to be noncompliance, Puget Sound Energy shall correct the problem as soon as possible but no later than within 24 hours of determination or shut down the noncompliant operation until it is repaired or corrected.

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

***(c) Facility-Wide Inspections***

Puget Sound Energy shall conduct a facility-wide inspection at least once per calendar quarter. These inspections shall include checking for prohibited activities under Section III of the permit and activities that require additional approval under Section IV of the permit. The inspections shall also examine the general state of compliance with the general applicable requirements and the general effectiveness of the Operation & Maintenance (O&M) Plan.

Puget Sound Energy shall correct any problems, with significant emission units or activities, identified by these inspections as soon as possible but no later than 24 hours after identification or shut down the unit or activity until the problem can be corrected.

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

***(d) Maintenance and Repair of Insignificant Emission Units***

Puget Sound Energy shall use good industrial practices to maintain insignificant emission units and equipment<sup>2</sup> not listed in this permit. For such equipment, Puget Sound Energy shall also promptly repair defective equipment. Good industrial practices may include following the manufacturer's operations manual or an equipment operations schedule, minimizing emissions until the repairs can be completed and taking measures to prevent recurrence of the problem [WAC 173-401-615(1)(b), 10/17/02].

**2. Emission Unit Specific Monitoring, Recordkeeping, and Reporting**

***(a) Fuels, trace compound and flashpoint***

Puget Sound Energy shall receive only new oil, and shall maintain records demonstrating that fuel deliveries from all suppliers contain only new oil. Puget Sound Energy shall maintain records of the type and sulfur content of all distillate oil purchased and consumed by the facility.

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*WAC 173-401-200(16) states: "Insignificant activity" or "insignificant emissions unit" means any activity or emissions unit located at a chapter 401 source which qualifies as insignificant under the criteria listed in WAC 173-401-530. These units and activities are exempt from permit program requirements except as provided in WAC 173-401-530. WAC 173-401-530 contains criteria for identifying insignificant activities and emissions units. It also states that "Designation of an emission unit or activity as insignificant for purposes of this chapter does not exempt the unit or activity from any applicable requirement."*

<sup>2</sup> Puget Sound Clean Air Agency Regulation I, Section 1.07(s) says, *EQUIPMENT means any stationary or portable device or any part thereof that emits or may emit any air contaminant into the atmosphere.*

Puget Sound Energy shall obtain and maintain distillate oil specifications from each distillate oil supplier and shall certify the distillate oil purchased from that supplier contains no used distillate oil and that distillate oil sulfur content does not exceed 0.05% sulfur by weight.

[WAC 173-401-615(1)(b), 10/22/1997]; [Order of Approval No. 8436, Condition 4, 10/9/02]

***(b) Combustion turbine monitoring***

***(i) Puget Sound Clean Air Agency requirements***

During the term of the permit, at least once every 5 years or whenever a single turbine accumulates 10,000 hours or more of operation, Puget Sound Energy shall test that turbine to measure the NO<sub>x</sub> emission rate both in pounds per hour and in mass per quantity of heat input using EPA Method 20. In calculating the NO<sub>x</sub> emissions for each month, Puget Sound Energy shall use the most recent Method 20 results [WAC 173-401-615(1)(b), 10/17/02].

Puget Sound Energy shall demonstrate compliance with this NO<sub>x</sub> emission limits by maintaining “actual” water-to-fuel ratios no less than “required” water-to-fuel ratios, as measured by a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine. This system shall be accurate to within  $\pm 5.0$  percent and shall comply with 40 CFR 60.334(a) [Order of Approval No. 8436, Condition 5, 10/9/02].

Puget Sound Energy shall record data required in 40 CFR 60.334(a), including the date, time, fuel consumption rate (lb/sec), actual water injection rate (lb/sec), ambient temperature, and corresponding actual and required water-to-fuel ratios. Puget Sound Energy shall take the above readings at least once per minute of operation, and shall compute hourly average fuel consumption rate (lb/sec), water injection rate (lb/sec), and water-to-fuel ratio from all readings taken over each clock hour. Puget Sound Energy shall compute annual averages on a monthly basis. All data records shall be collected and maintained in accordance with Section V.P [WAC 173-401-615(1)(b), 10/17/02].

Puget Sound Energy shall limit the emissions of the two Model PG7101E gas turbines to not more than allowed in Order of Approval No. 6860(5), and maintain operation logs for a period of no less than five years from date of origin (Note: The Order requires records to be kept for no less than two years, but Section V.P requires these records to be kept for no less than five years). These records shall be made available to Puget Sound Clean Air Agency personnel upon request [Order of Approval No. 6860(4), 8/22/1997].

Puget Sound Energy shall submit records of fuel usage and the SO<sub>2</sub> and NO<sub>x</sub> emissions to the Puget Sound Clean Air Agency within 30 days after the end of each month that the SO<sub>2</sub> or NO<sub>x</sub> exceed 90% of the annual limits in Order of Approval No. 6860, Condition No 5 (580 tons/yr NO<sub>x</sub> or 720 tons/yr SO<sub>2</sub>) [Order of Approval No. 6860(6), 8/22/1997].



**(ii) New Source Performance Standards requirements**

**Notification and Recordkeeping**

- (a) Puget Sound Energy shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of either turbine; any malfunction of the associated air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
- (b) Puget Sound Energy shall submit written reports of any excess emissions, as defined in 40 CFR 60.334(c), to the Puget Sound Clean Air Agency. Written reports of excess emissions shall be submitted in accordance with the requirements in Section V.R.5.
- (c) Exceedances of standards in 40 CFR 60.332 and 40 CFR 60.333 need not be reported as deviations if:
  - (1) The excess emission occurs for less than 1 percent of the operating time of a turbine, or if continuous monitor system (CMS) downtime is less than 5 percent of total operating time.
  - (2) The excess emission occurs during periods of startup, shutdown, and malfunction, as provided in 40 CFR 60.8(c).

(Note: these exclusions apply *only* to NSPS emission limits).

[40 CFR 60.7, 2/12/99]

**Monitoring of Operations**

- (a) Puget Sound Energy shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbines. This system shall be accurate to within  $\pm 5.0$  percent. Permit Section II.A.2(b)(i) and the existing compliance curves for water-to-fuel injection ratios constitute the existing parameter monitoring plan. Any changes to these ratios or the parameters monitored shall include clear written documentation of the new parameters monitored, the acceptable ranges and the basis for designating the parameters and ranges, as well any supplemental data supporting the new monitoring plan.
- (b) Puget Sound Energy shall monitor sulfur content and nitrogen content of the fuel being fired in the turbines. The frequency of determination of these values shall be as follows:
  - (1) Distillate oil: The sulfur and nitrogen contents shall be determined on each occasion that fuel is transferred to the storage tank from any other source. Puget Sound Energy may use certifications by the fuel oil supplier to comply with this requirement. Puget Sound Energy shall evaluate records to assure certifications meet the applicable requirement, and shall not accept fuel if it is found to be above sulfur content limits.

- (2) Natural gas: The sulfur and nitrogen contents shall be determined and recorded on a semiannual schedule in accordance with the custom fuel monitoring schedule approved by Doug Hardesty of EPA Region X in a September 7, 2001 letter to Chris Drechsel of Puget Sound Energy. Puget Sound Energy may use certifications by the natural gas supplier to comply with this requirement.
- (c) For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions that shall be reported are defined as follows:
- (1) Nitrogen oxides. Any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with 40 CFR 60.332 by the performance test required in 40 CFR 60.8, any hour during which no water is injected into the turbine, or any period during which the fuel-bound nitrogen of the fuel is greater than the maximum nitrogen content allowed by the fuel-bound nitrogen allowance used during the performance test required in 40 CFR 60.8. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, gas turbine load, and nitrogen content of the fuel during the period of excess emissions, and the graphs or figures developed under 40 CFR 60.335(a).
  - (2) Sulfur dioxide. Any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent.
  - (3) Ice fog. Each period during which an exemption provided in 40 CFR 60.332(g) is in effect shall be reported in writing to the Puget Sound Clean Air Agency quarterly. For each period the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated shall be reported. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.
  - (4) Emergency fuel. Each period during which an exemption provided in 40 CFR 60.332(k) is in effect shall be included in the report required in 40 CFR 60.7(c). For each period, the type, reasons, and duration of the firing of the emergency fuel shall be reported.

[40 CFR 60.334, 2/24/06]; [PSD X80-17, 9/26/80]

### **Test methods and procedures**

- (a) To compute the nitrogen oxides emissions, Puget Sound Energy shall use analytical methods and procedures that are accurate to within 5 percent and are approved by the Puget Sound Clean Air Agency to determine the nitrogen content of the fuel being fired.
- (b) In conducting the performance tests required in 40 CFR 60.8, Puget Sound Energy shall use as reference methods and procedures the test methods in appendix A of 40 CFR 60 or other methods and procedures as specified in this section, except as provided for in 40 CFR

60.8(b). Acceptable alternative methods and procedures are given in paragraph (f) of this section.

(c) Puget Sound Energy shall determine compliance with the nitrogen oxides and sulfur dioxide standards in 40 CFR 60.332 and 60.333(a) as follows:

(1) The nitrogen oxides emission rate ( $NO_X$ ) shall be computed for each run using the following equation:

$$NO_X = (NO_{XO}) \times \left( \frac{P_R}{P_O} \right)^{0.5} \times e^{19 \times (H_O - 0.00633)} \times \left( \frac{288^\circ K}{T_a} \right)^{1.53}$$

where:

$NO_X$  = emission rate of  $NO_X$  at 15 percent  $O_2$  and ISO standard ambient conditions, parts per million by volume (ppmv)

$NO_{XO}$  = observed  $NO_X$  concentration, ppmv

$P_R$  = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg

$P_O$  = observed combustor inlet absolute pressure at test, mm Hg

$H_O$  = observed humidity of ambient air, g  $H_2O$ /g air

$E$  = transcendental constant, 2.718

$T_a$  = ambient temperature, deg.K

(2) The monitoring device of 40 CFR 60.334(a) shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with 40 CFR 60.332 at 30, 50, 75, and 100 percent of peak load or at four points in the normal operating range of the gas turbine, including the minimum point in the range and peak load. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer.

(3) Method 20 shall be used to determine the nitrogen oxides, sulfur dioxide, and oxygen concentrations. The  $NO_X$  emissions shall be determined at each of the load conditions specified in paragraph (c)(2) of this section.

(d) Puget Sound Energy shall monitor operations as provided in the following, paraphrased sections of 40 CFR 60.334 and 6.335:

**40 CFR 60.334(h)**

**(h)(1)** Monitor the total sulfur content of the fuel being fired in the turbine, except as provided in paragraph (h)(3) of 40 CFR 60.334. The sulfur content of the fuel must be determined using total

sulfur methods described in §60.335(b)(10). Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than 0.4 weight percent (4000 ppmw), ASTM D4084-82, 94, D5504-01, D6228-98, or Gas Processors Association Standard 2377-86 (all of which are incorporated by reference-see §60.17), which measure the major sulfur compounds may be used; and

**(h)(2)** Monitor the nitrogen content of the fuel combusted in the turbine, if Puget Sound Energy claims an allowance for fuel bound nitrogen (i.e., if an F-value greater than zero is being or will be used by Puget Sound Energy to calculate STD in §60.332). The nitrogen content of the fuel shall be determined using methods described in §60.335(b)(9) or an approved alternative.

**(h)(3)** Notwithstanding the provisions of paragraph (h)(1) of 40 CFR 60.334, Puget Sound Energy may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 CFR 60.331(u), regardless of whether an existing custom schedule approved by the administrator for subpart GG requires such monitoring. Puget Sound Energy shall use one of the following sources of information to make the required demonstration:

**(h)(3)(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

**(h)(3)(ii)** Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20 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 part 75 of this chapter is required.

**(h)(4)** For any turbine that commenced construction, reconstruction or modification after October 3, 1977, but before July 8, 2004, and for which a custom fuel monitoring schedule has previously been approved, Puget Sound Energy may, without submitting a special petition to the Administrator, continue monitoring on this schedule.

**40 CFR 60.335(b)(4)** Puget Sound Energy shall operate the water or steam injection used to control NO<sub>x</sub>, and shall monitor the steam or water to fuel ratio in accordance with 40 CFR 60.334(a), and shall operate the water or steam injection system concurrently with each EPA Method 20, ASTM D6522-00 (incorporated by reference, see 40 CFR 60.17), or EPA Method 7E run and shall be used to determine the fuel consumption and the steam or water to fuel ratio necessary to comply with the applicable 40 CFR 60.332 NO<sub>x</sub> emission limit.

(e) To meet the requirements of 40 CFR 60.334(b), Puget Sound Energy shall use the methods specified in 40 CFR 60.334(a) and (d) to determine the nitrogen and sulfur contents of the fuel being burned. The analysis may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency.

(f) Puget Sound Energy may use the following as alternatives to the reference methods and procedures specified in 40 CFR 60.335. Instead of using the equation in paragraph (b)(1) of this section, manufacturers may develop ambient condition correction factors to adjust the nitrogen oxides emission level measured by the performance test as provided in 40 CFR 60.8 to ISO standard day conditions.

[40 CFR 60.335, 2/24/06]

***(c) Demister Monitoring***

Puget Sound Energy shall perform inspections during operations, as described below, of the Brinks demisters at least once each month that the facility operates:

- Check system ductwork for signs of cracking or holes [WAC 173-401-615(1)(b), 10/17/02],
- Inspect pressure drop gauge reading for operation in the proper range, acceptable ranges that shall be clearly marked on or nearby the gauge. The acceptable range shall be 8 to 19 inches water gauge [Order of Approval No. 6461(4), 4/25/1996],
- Check for proper fan operation [WAC 173-401-615(1)(b), 10/17/02], and
- Check for evidence of emissions of “carryover” [WAC 173-401-615(1)(b), 10/17/02].

Puget Sound Energy shall correct any problems identified during scheduled inspections or at any other time as soon as possible, but not later than 24 hours after identification of the problem, or shut down the unit or activity until it can be repaired [WAC 173-401-615(1)(b), 10/17/02].

***B. Operation and Maintenance (O&M) Plan Requirements***

Puget Sound Energy’s O&M Plan shall include procedures specifying how Puget Sound Energy will assure continuous compliance with Puget Sound Clean Air Agency Regulations I, II and III. For insignificant emission units, refer to the requirements stated in Section II.A.1(d) of this permit. The plan shall reflect good industrial practice. In most instances, following the manufacturer’s operations manual or equipment operational schedule, minimizing emissions until the repairs can be completed and taking measures to prevent recurrence of the problem may be considered good industrial practice. Determination of whether good industrial practice is being used will be based on available information such as monitoring results, opacity observations, review of operations and maintenance procedures, and inspections of the emission unit or equipment. The specific provisions of the O&M Plan, other than those required by Section II.A, shall not be deemed part of this permit [Puget Sound Clean Air Agency Reg. I: 7.09(b) (9/10/98)].

***C. Compliance Assurance Monitoring***

***1. Applicability***

The compliance assurance monitoring (CAM) requirements in 40 CFR Part 64 apply to Emission Unit # 1 (EU-1), 2 GE-Type 7101E 75 MW Combustion Turbines with water injection for control of NO<sub>x</sub>, with respect to the NO<sub>x</sub> emissions limitations identified in requirements EU-1.1, EU-1.2, and EU-1.3. [40 CFR 64.2 (10/22/97)]

***2. Monitoring Approach***

Puget Sound Energy shall monitor date, time, fuel consumption rate (lb/sec), actual water injection rate (lb/sec), required water injection rate (lb/sec), ambient temperature, and corresponding actual and required water-to-fuel ratios at each turbine, using the methods specified in Section II.A.2(b) [40 CFR 64.3 and 64.6(c)(1) (10/22/97)].



### **3. Quality Assurance and control procedures**

Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, and shall be accurate to within  $\pm 5\%$ .

Puget Sound Energy shall establish a minimum water-to-fuel consumption ratio using the most appropriate of the following: the most recent compliant performance test data, manufacturer's recommendations, engineering calculations, and/or historical data. Puget Sound Energy shall verify, and if necessary, update, the "required" water-to-fuel consumption ratio each time performance tests are run on a turbine as required in II.A.2(b)(i).

[40 CFR 64.3(b)(3) and 64.6(c)(1) (10/22/97)]

### **4. Obligation to monitor and data availability requirement**

Puget Sound Energy shall perform the monitoring specified in Section II.A.2(b) and this Section at the specified intervals for either gas turbine whenever that turbine is in operation. [40 CFR 64.7 and 64.6(c)(3)-(4) (10/22/97)]

### **5. Definition of an excursion**

An excursion is defined as each minute that the consecutive sixty minute average water-to-fuel consumption ratio reading, taken in accordance with Section II.A.2(b), drops below the established minimum ratio.. An excursion does not necessarily indicate an exceedance of the applicable NO<sub>x</sub> emission standards referenced in II.C.1 above, nor does evidence of an excursion preclude Puget Sound Energy from certifying continuous compliance as provided in Section V.M of this permit, if Puget Sound Energy has other data on which to base a determination of compliance during the reporting period in which the excursion occurred. [40 CFR 64.6(c)(2) (10/22/97); 40 CFR 70.6(c)(5)(iii)(C) (6/27/03)]

### **6. Response to an excursion**

Upon detecting an excursion, Puget Sound Energy shall restore operation of the water injection unit and the affected gas turbine to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practice for minimizing emissions. [40 CR 64.7(d) and 64.6(c)(3) (10/22/97)]

### **7. Quality Improvement Plan (QIP)**

Puget Sound Energy will develop a QIP if there are more than six reportable excursions during any semi-annual reporting period referenced in Section V.R.1 of this permit. [40 CFR 64.8 and 64.6(c)(3) (10/22/97)]

## **8. Reporting**

The monthly deviation report required by Section V.R.1 shall include:

Summary information on the number, duration and cause (including unknown cause, if applicable) of each excursion and the corrective action taken;

1. Summary information on every failure to meet the data availability requirement in II.C.4; and
2. A description of the actions taken to implement a QIP during the reporting period, if required. Upon completion of a QIP, Puget Sound Energy shall include documentation that the implementation of the plan has been completed and describe how that plan has reduced the likelihood of occurrence of similar excursions in the next monthly deviation report required by Section V.R.1.

[40 CFR 64.9(a) and 64.6(c)(3) (10/22/97)]

## **9. Recordkeeping**

The recordkeeping required by Section V.P shall include records of the monitoring data described in this section, corrective actions taken pursuant to II.C.6, any QIP prepared under II.C.7, and any activities taken to implement a QIP. Instead of paper records, Puget Sound Energy 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. [40 CFR 64.9(b) and 64.6(c)(3) (10/22/97)]



### **III. PROHIBITED ACTIVITIES**

Puget Sound Energy is prohibited from conducting, causing, or allowing the following activities:

#### ***A. Adjustment for Atmospheric Conditions***

Varying the rate of emissions of a pollutant according to atmospheric conditions or ambient concentrations of that pollutant is prohibited, except as directed according to air pollution episode regulations. [WAC 173-400-205, 3/22/91]

#### ***B. Open Burning***

Puget Sound Energy shall not conduct open burning during any stage of an air pollution episode or period of impaired air quality and shall not conduct any open burning other than the following types:

1. Fires consisting solely of charcoal, propane, natural gas, or wood used solely for the preparation of food, and
2. Fires for instruction in the methods of fighting fires, provided that the person conducting the training fire complies with Puget Sound Clean Air Agency Regulation I, Section 8.07.

[Puget Sound Clean Air Agency Regulation I, Sections 8.04, 11/09/00], [WAC 173-425-020(1), 1/1/93; WAC 173-425-050(1) 1/1/93; RCW 70.94.743, 1998 c68 p1; and RCW 70.94.775(2) 1995 c 362p2 State/Puget Sound Clean Air Agency only]

#### ***C. Refuse Burning***

Puget Sound Energy shall not cause or allow the burning of combustible refuse except in a multiple chamber incinerator provided with control equipment. Puget Sound Energy shall not operate refuse burning equipment any time other than daylight hours. [Puget Sound Clean Air Agency Regulation I, Section 9.05, 12/9/93]

#### ***D. Concealment***

Puget Sound Energy shall not cause or allow the installation or use of any device or use of any means which, without resulting in a reduction in the total amount of air contaminant emitted, conceals an emission of an air contaminant which would otherwise violate Puget Sound Clean Air Agency Regulation I, Article 9 or Chapter 173-400 WAC. [WAC 173-400-040(7), 9/20/93 [Puget Sound Clean Air Agency Regulation I, Section 9.13(a), 6/9/88, State/Puget Sound Clean Air Agency only]

***E. Masking***

Puget Sound Energy shall not cause or allow the installation or use of any device or use of any means designed to mask the emission of an air contaminant that causes detriment to health, safety or welfare of any person or conceals or masks an emission of an air contaminant that would otherwise violate Regulation I, Article 9 or Chapter 173-400 WAC. [WAC 173-400-040(7), 9/20/93] [Puget Sound Clean Air Agency Regulation I, Section 9.13(b), 6/9/88, State/Puget Sound Clean Air Agency only]

***F. Circumvention***

Puget Sound Energy shall not build, erect, install, or otherwise use any article, machine, equipment or process, the use of which would otherwise constitute a violation of an applicable standard in 40 CFR Part 60. [40 CFR 60.12, 3/8/74]

***G. Tampering***

Puget Sound Energy shall not render inaccurate any monitoring device or method required under Chapter 70.94 RCW, or any ordinance, resolution, regulation, permit, or order in force pursuant thereto. [WAC 173-400-105(8), 8/21/98]

***H. False Statements***

Puget Sound Energy shall not make any false material statement, representation or certification in any form, notice, or report required under Chapter 70.94 RCW, or any ordinance, resolution, regulation, permit, or order in force pursuant thereto. [WAC 173-400-105(7), 8/21/98]

## **IV. ACTIVITIES REQUIRING ADDITIONAL APPROVAL**

Puget Sound Energy shall file notification and obtain the necessary approval from the Puget Sound Clean Air Agency before conducting any of the following:

### **A. New Source Review**

#### **1. Notice of Construction**

Puget Sound Energy shall not construct, install, establish, or modify an air contaminant source, except those sources that are excluded by Puget Sound Clean Air Agency Regulation I, Section 6.03(b), unless a "Notice of Construction and Application for Approval" has been filed with and approved by the Puget Sound Clean Air Agency. [Puget Sound Clean Air Agency Regulation I, Section 6.03, 9/12/96], [Puget Sound Clean Air Agency Regulation I, Section 6.01, 3/26/06; Puget Sound Clean Air Agency Regulation I, Section 6.03, 10/26/06; WAC 173-460-040, 1/14/94; RCW 70.94.152, 1996 c 67p1, 1996 c 29p1 State/Puget Sound Clean Air Agency only]

#### **2. New Source Performance Standards**

At least 60 days before commencing construction on a project to replace components of NSPS applicable items of equipment (facilities) such that the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a new equipment item, Puget Sound Energy shall notify the Control Officer of the proposed replacements. The notice must contain the information specified in 40 CFR 60.15(d). [40 CFR 60.15; 12/16/75]

### **B. Replacement or Substantial Alteration of Emission Control Technology.**

Puget Sound Energy shall file a Notice of Construction and Application for Approval according to WAC 173-400-114 with the Puget Sound Clean Air Agency before replacing or substantially altering any emission control technology installed at the facility. [Puget Sound Clean Air Agency Regulation I, Section 6.03, 11/19/92] [Puget Sound Clean Air Agency Regulation I, Section 6.01, 3/26/06; Puget Sound Clean Air Agency Regulation I, Section 6.03, 10/26/06; WAC 173-400-114, 9/20/93; RCW 70.94.153, 1991 c 199p303 State/Puget Sound Clean Air Agency only]

### **C. Asbestos**

1. Puget Sound Energy shall comply with 40 CFR 61.145 and 61.150 when conducting renovation or demolition activities at the facility. [40 CFR 61.145 and 61.150]
2. Puget Sound Energy shall comply with Puget Sound Clean Air Agency Regulation III, Article 4 when conducting any asbestos project, renovation or demolition activities at the facility. [Puget Sound Clean Air Agency Regulation III, Article 4, 3/27/03]

**D. Spray Coating**

- (a) Puget Sound Clean Air Agency Regulation I, Section 9.16 applies to Puget Sound Energy.
- (b) Exemptions. The following activities are exempt from the provisions of Sections 9.16(c) and (d) of this regulation. Persons claiming any of the following spray-coating exemptions shall have the burden of demonstrating compliance with the claimed exemption.
  - (1) Application of architectural or maintenance coatings to stationary structures (e.g., bridges, water towers, buildings, stationary machinery, or similar structures);
  - (2) Aerospace coating operations subject to 40 CFR Part 63, Subpart GG. This includes all activities and materials listed in 40 CFR 63.741(f);
  - (3) Use of high-volume, low-pressure (HVLP) spray guns when:
    - (A) Spray-coating operations do not involve motor vehicles or motor vehicle components;
    - (B) The gun cup capacity is 8 fluid ounces or less;
    - (C) The spray gun is used to spray-coat less than 9 square feet per day per facility;
    - (D) Coatings are purchased in containers of 1 quart or less; and
    - (E) Spray-coating is allowed by fire department, fire marshal, or other government agency requirements.
  - (4) Use of air-brush spray equipment with 0.5 to 2.0 cfm airflow and a maximum cup capacity of 2 fluid ounces;
  - (5) Use of hand-held aerosol spray cans with a capacity of 1 quart or less; or
  - (6) Indoor application of automotive undercoating materials using organic solvents having a flash point in excess of 100°F.
- (c) General Requirements for Indoor Spray-Coating Operations. It shall be unlawful for any person subject to the provisions of this section to cause or allow spray-coating inside a structure, or spray-coating of any motor vehicles or motor vehicle components, unless the spray-coating is conducted inside an enclosed spray area. The enclosed spray area shall employ either properly seated paint arresters, or water-wash curtains with a continuous water curtain to control the overspray. All emissions from the spray-coating operation shall be vented to the atmosphere through an unobstructed vertical exhaust vent.
- (d) General Requirements for Outdoor Spray-Coating Operations. It shall be unlawful for any person subject to the provisions of this section to cause or allow spray-coating outside an enclosed structure unless reasonable precautions are employed to minimize the overspray. Reasonable precautions include, but are not limited to the use of:
  - (1) Enclosures and curtailment during high winds; and

- (2) High-volume low-pressure (HVLP), low-volume low-pressure (LVLP), electrostatic, or air-assisted airless spray equipment. Airless spray equipment may be used where low viscosity and high solid coatings preclude the use of higher-transfer efficiency spray equipment.
- (e) Compliance with Other Regulations. Compliance with this regulation does not exempt any person from compliance with Regulation I, Section 9.11 and all other applicable regulations including those of other agencies.

[Puget Sound Clean Air Agency Regulation I, Section 9.16, 7/12/01]

## **V. STANDARD TERMS AND CONDITIONS**

### ***A. Duty to comply***

Puget Sound Energy shall 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 Federal Clean Air Act (FCAA). Such violations are grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [Puget Sound Clean Air Agency Regulation I, Section 7.05, 10/28/93; WAC 173-401-620(2)(a), 11/4/93]

### ***B. Permit actions***

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by Puget Sound Energy for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [WAC 173-401-620(2)(c), 11/4/93]

### ***C. Property rights***

This permit does not convey any property rights of any sort, or any exclusive privilege. [WAC 173-401-620(2)(d), 11/4/93]

### ***D. Duty to provide information***

Puget Sound Energy shall furnish to the Puget Sound Clean Air Agency, within a reasonable time, any information that the Puget Sound Clean Air Agency 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, Puget Sound Energy shall also furnish to the Puget Sound Clean Air Agency copies of records required to be kept by the permit or, for information claimed to be confidential, Puget Sound Energy may furnish such records directly to EPA Region 10 along with a claim of confidentiality. The Puget Sound Clean Air Agency shall maintain the confidentiality of such information in accordance with RCW 70.94.205. [WAC 173-401-620(2)(e), 11/4/93]

### ***E. Permit fees***

Puget Sound Energy shall pay fees as a condition of this permit in accordance with the Puget Sound Clean Air Agency Regulation I, Article 7. Failure to pay fees in a timely fashion shall subject Puget Sound Energy to civil and criminal penalties as prescribed in Chapter 70.94 RCW. [WAC 173-401-620(2)(f), 11/4/93]

***F. Emissions trading***

No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit. [WAC 173-401-620(2)(g), 11/4/93]

***G. 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), 11/4/93]

***H. Permit appeals***

This permit or any condition in it may be appealed only by filing an appeal with the Pollution Control Hearings Board and serving it on the Puget Sound Clean Air Agency within thirty days of receipt, pursuant to RCW 43.21B.310 and WAC 173-401-735. The provision for appeal in this section is separate from and additional to any federal rights to petition and review found under §505(b) of the FCAA. [WAC 173-401-620(2)(i) and WAC 173-401-735, 11/4/93]

***I. 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 under WAC 173-401-705(2) shall remain in effect until the renewal permit has been issued or denied if a timely and complete permit application has been submitted. [WAC 173-401-620(2)(j), 11/4/93]

***J. Federal enforceability***

All terms and conditions of this permit are enforceable by the EPA administrator and by citizens under the FCAA, except for those terms and conditions designated in the permit as not federally enforceable. [WAC 173-401-625, 11/4/93]

***K. Inspection and entry***

Upon presentation of credentials and other documents as may be required by law, Puget Sound Energy shall allow the Puget Sound Clean Air Agency or an authorized representative to:

1. Enter Puget Sound Energy's premises or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices or operations regulated or required under the permit; and



4. As authorized by WAC 173-400-105 and the FCAA, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [WAC 173-401-630(2), 11/4/93] [RCW 70.94.200 State/Puget Sound Clean Air Agency only]

***L. Compliance requirements***

Puget Sound Energy shall continue to comply with all applicable requirements with which the source is currently in compliance. Puget Sound Energy shall meet on a timely basis any applicable requirements that become effective during the permit term. [WAC 173-401-630(3), WAC 173-401-510(2)(h)(iii), 11/4/93]

***M. Compliance certifications***

Puget Sound Energy shall submit a certification of compliance with permit terms and conditions once per year. Each Annual Compliance Certification shall cover a one year interval ending March 20 and shall be submitted within 30 days after the end of the period covered by the report (April 19). Each certification shall include:

1. The identification of each term or condition of the permit that is the basis of the certification;
2. The compliance status;
3. Whether compliance was continuous or intermittent; and
4. The method(s) used for determining the compliance status of the source, currently and over the reporting period. These methods must be consistent with the permit Monitoring, Maintenance and Recordkeeping Methods.
5. Certification by the Responsible Official pursuant to Section V.R.3.

Submittal of a Puget Sound Clean Air Agency "OPERATING PERMIT – ANNUAL CERTIFICATION FORM," completed in accordance with the instructions on the form, fulfills the requirements of this subsection.

All compliance certifications shall be submitted to EPA Region 10 and to the Puget Sound Clean Air Agency, at the following addresses, within 30 days after the close of the period covered by the certification:

Puget Sound Clean Air Agency  
Attn.: Operating Permit Certification  
1904 3<sup>rd</sup> Ave, Suite 105  
Seattle, Washington 98101

EPA Region 10, Mail Stop OAQ-107  
Attn.: Air Operating Permits  
1200 Sixth Avenue  
Seattle, Washington 98101

[WAC 173-401-630(5), 11/4/93]

## ***N. Emission testing***

### **1. General**

- (a) For the purpose of determining compliance with an emission standard, the Puget Sound Clean Air Agency or Ecology may conduct testing of an emission unit or require Puget Sound Energy to have it tested. In the event the Puget Sound Clean Air Agency or Ecology conduct the test, Puget Sound Energy shall be given an opportunity to observe the sampling and to obtain a sample at the same time.
- (b) Testing of sources for compliance with emissions standards shall be performed in accordance with the Reference Test Methods identified in Section I of this permit, except where this permit indicates that a specific Reference Test Method is not needed or appropriate.
- (c) Puget Sound Energy shall notify the Puget Sound Clean Air Agency in writing at least 21 days prior to any compliance test. Notification of a compliance test shall be submitted on forms provided by the Agency. Test notifications using the Agency forms do not constitute test plans. Compliance with this notification provision does not satisfy any obligation found in an order or other regulatory requirement to submit a test plan for Agency review. Notification under this provision does not waive or modify test notification requirements found in other applicable regulations. (Notice requirements for NSPS testing are contained in Section V.N.2).
- (d) Unless otherwise specified, each test for particulate, PM<sub>10</sub>, NO<sub>x</sub> and sulfur dioxide shall consist of three separate runs and compliance shall be determined from the arithmetic average of the three runs. In the event that a sample is accidentally lost or conditions occur in which one of the runs must be discontinued because of circumstances beyond the operator's control, compliance may, upon Control Officer approval, be determined from the arithmetic average of the two other runs.
- (e) Puget Sound Energy, if required by the Puget Sound Clean Air Agency to perform a compliance test, shall submit a report to the Puget Sound Clean Air Agency no later than 60 days after the test. The report shall include:
  - (1) A description of the source and the sampling location;
  - (2) The time and date of the test;
  - (3) A summary of results, reported in units and for averaging periods consistent with the applicable emission standard;
  - (4) A description of the test methods and quality assurance procedures employed;
  - (5) The amount of fuel burned or raw material processed by the source during the test;

- (6) The operating parameters of the source and control equipment during the test;
- (7) Field data and example calculations; and
- (8) A statement signed by the senior management official of the testing firm certifying the validity of the source test report

[WAC 173-400-105(4), 9/20/93; Puget Sound Clean Air Agency Regulation I, Section 3.05(b), 2/10/94; and Puget Sound Clean Air Agency Regulation I, Section 3.07, 2/9/95] [Puget Sound Clean Air Agency Regulation I, Section 3.07, 3/23/06, *State/Puget Sound Clean Air Agency only*]

## **2. New Source Performance Tests**

- (a) At such times as may be required by the EPA Administrator under section 114 of the Act, Puget Sound Energy shall conduct performance test(s) and furnish the EPA Administrator and Control Officer a written report of the results of such performance test(s). [40 CFR 60.8(a), 2/12/99]
- (b) Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the EPA Administrator:
  - (i) Specifies or approves, in specific cases, the use of a reference method with minor changes in methodology;
  - (ii) Approves the use of an equivalent method;
  - (iii) Approves the use of an alternative method the results of which have been determined to be adequate for indicating whether a specific source is in compliance;
  - (iv) Waives the requirement for performance tests because Puget Sound Energy has demonstrated by other means to the EPA Administrator's satisfaction that the affected facility is in compliance with the standard; or
  - (v) Approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the EPA Administrator's authority to require testing under Section 114 of the Act.

[40 CFR 60.8(b), 2/12/99]

- (c) Performance tests shall be conducted under such conditions as the EPA Administrator or the Control Officer shall specify to Puget Sound Energy based on representative performance of the affected facility. Puget Sound Energy shall make available to the EPA Administrator and Control Officer such records as may be necessary to determine

the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of start-up, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c), 2/12/99]

- (d) Puget Sound Energy shall provide the Control Officer at least 30 days prior notice of any NSPS performance test to afford the Control Officer the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, Puget Sound Energy shall notify the Control Officer as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Control Officer by mutual agreement. [40 CFR 60.8(d), 2/12/99]
- (e) Puget Sound Energy shall provide, or cause to be provided, performance testing facilities as follows:
  - (i) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures, and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures;
  - (ii) Safe sampling platform(s);
  - (iii) Safe access to sampling platform(s); and
  - (iv) Utilities for sampling and testing equipment.

[40 CFR 60.8(e), 2/12/99]

- (f) Each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond Puget Sound Energy's control, compliance may, upon the EPA Administrator's or Control Officer's approval, be determined using the arithmetic mean of the results of the two other runs. [40 CFR 60.8(f), 2/12/99]
- (g) Puget Sound Energy shall furnish the Control Officer the information that is listed in 40 CFR 60.274a(h) and 40 CFR 60.276a(f) with each compliance report demonstrating compliance with 40 CFR 60.272a(a). [40 CFR 60.276a(f), 2/12/99]

## **O. Compliance determination**

### **1. Credible Evidence**

For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of this permit, nothing in Puget Sound Clean Air Agency Regulation I shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed. [40 CFR 51.212, 40 CFR 52.12, 40 CFR 52.33, Puget Sound Clean Air Agency Regulation I, Section 3.06, 10/8/98]

### **2. Compliance with New Source Performance Standards**

Compliance with standards in 40 CFR part 60 shall be determined according to the requirements in 40 CFR 60.11. [40 CFR 60.11, 11/17/00]

## **P. Recordkeeping**

Puget Sound Energy shall maintain the following:

- (1) Records of required monitoring information that include the following if applicable:
  - (a) The date, place as defined in the permit, and time of sampling or measurements;
  - (b) The date(s) analyses were performed;
  - (c) The company or entity that performed the analyses;
  - (d) The analytical techniques or methods used;
  - (e) The results of such analyses; and
  - (f) The operating conditions existing at the time of sampling or measurement.
- (2) 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), 11/4/93]
- (3) CAM records described in condition II.C.9 [40 CFR 64.9(b) and 64.6(c)(3), 10/22/97].
- (4) Puget Sound Energy shall document all inspections, tests and other actions required by the O&M Plan and Section II.A of this permit, including who conducted the inspection, tests or other actions; and the date and the results of the inspection, tests or other actions including corrective actions. All such records shall be signed and dated. Puget Sound Energy shall maintain records of all inspections, tests, and other actions required by the O&M Plan on site and available for Puget Sound Clean Air Agency review. [Puget Sound Clean Air Agency Regulation I, Section 7.09(b), 9/12/96]



- (5) Puget Sound Energy shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction of a turbine at the facility; any malfunction of control equipment serving a turbine; and any periods during which a continuous monitoring device or system serving a turbine is inoperative. [40 CFR 60.7(b), 2/12/99]
- (6) Puget Sound Energy shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60.7(f) recorded in a permanent form suitable for inspection. [40 CFR 60.7(f), 2/12/99]
- (7) Puget Sound Energy shall maintain a contemporaneous record of all deviations. [WAC 173-401-615 (3)(b), 11/4/93]
- (8) Records of all monitoring data and support information required by this permit shall be retained by Puget Sound Energy for a period of five years from the date of the monitoring, sample, measurement, record or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. [WAC 173-401-615(2), 11/4/93]

#### **Q. Data recovery**

Puget Sound Energy shall recover valid monitoring and recordkeeping data for each parameter according to any specific monitoring and recordkeeping requirements identified in Section II of this permit. However, if such requirements are silent on data recovery provisions, data recovery is assumed to be 100% [WAC 173-401-615(1)(b) 10/17/02].

#### **R. Reporting**

##### **1. Deviation Report**

Puget Sound Energy shall report in writing to Puget Sound Clean Air Agency Operating Permit Certification any and all instances of deviations from the permit requirements, including those attributable to upset conditions as defined in this permit, the probable cause of the deviations, and any corrective actions or preventive measures taken. Deviation means any situation in which an emission unit fails to meet a permit term or condition. Periods of operation during which water injection is not required in order to maintain compliance, based upon water injection curves developed in accordance with NOC Order of Approval No. 9436, shall not be reported as deviations, even though these periods are defined as periods of excess emissions under 40 CFR 60.334(j)(1)(ii)(a). For each CAM excursion recorded under Section II.C of the permit the report shall include the information described in Condition II.C.8 of the permit, including any required information on implementation of a QIP. Puget Sound Energy shall notify the Puget Sound Clean Air Agency of any occurrence of any emissions in excess of the PSD limits specified in EU-1.1 or EU-1.2, in writing, no later than ten days after each occurrence. Puget Sound Energy

shall maintain a contemporaneous record of all deviations. Puget Sound Energy shall report any deviations to the Puget Sound Clean Air Agency that represent a potential threat to human health or safety by FAX (206-343-7522) or e-mail as soon as possible but no later than 12 hours after such a deviation is discovered. Puget Sound Energy shall report other deviations in writing to Puget Sound Clean Air Agency Operating Permit Certification no later than 30 days after the end of the month during which the deviation is discovered. A Deviation Report *may* be certified by a responsible official as provided in V.R.3 at the time of submittal; however it is not required to be certified at the time of submittal. Any Deviation Report *not* certified at the time of submittal must be certified in the semiannual Certification of Reports as per V.R.2 [WAC 173-401-615(3)(b), 10/17/02; 40 CFR 64.9(a) and 64.6(c)(3), 10/22/97; PSD No. X80-17, Condition 3, 9/26/80]

## **2. Certification of Reports (semiannual)**

Puget Sound Energy shall submit in writing to Puget Sound Clean Air Agency Operating Permit Certification a semi-annual report which shall summarize each permit report filed during the six-month period. Each Certification of Reports shall cover a six month period (reporting periods: September 21 through March 20 and March 21 through September 20), and shall be submitted within 30 days after the end of the period covered by the report (due dates: October 20 and April 19). Each Certification of Reports shall be certified by a responsible official as provided in V.R.3. The “Certification of Reports” need not duplicate information contained in another report. Deviation reports that are submitted pursuant to V.R.1 within a given six-month reporting period may be summarized and certified by the responsible official in this semiannual Certification of Reports. If there were no instances of deviations from permit requirements during the six month period, the semi-annual report shall state that there were no instances of deviations from permit requirements. [WAC 173-401-615(3)(a), 10/17/02]

## **3. Certification by Responsible Official**

Any application form, report, or compliance certification (as required in Section V.M) submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. All certifications by a responsible official shall done be by the responsible official listed on the front page of this permit, unless that person designates a temporary substitute person who qualifies as a “responsible official” as defined in WAC 173-401-200(29), and that person signs “for” the responsible official listed on this permit. [WAC 173-401-520, 11/4/93]

## **4. Emission reporting**

Puget Sound Energy shall report annually to the Puget Sound Clean Air Agency listing those air contaminants emitted during the previous calendar year that equal or exceed the following in tons per year:



Carbon monoxide (CO) emissions.....	25
Facility combined total of all toxic air contaminants (TAC) emissions.....	6
Any single toxic air contaminant (TAC) emissions.....	2
Nitrogen oxide (NO <sub>x</sub> ) emissions .....	25
Particulate matter (PM <sub>10</sub> ) emissions .....	25
Particulate matter (PM <sub>2.5</sub> ) emissions.....	25
Sulfur oxide (SO <sub>2</sub> ) emissions.....	25
Volatile organic compounds (VOC) emissions .....	25

Annual emissions rates shall be reported to the nearest whole ton per year for only those contaminants that equal or exceed the thresholds above. Puget Sound Energy shall maintain records of information necessary to document any reported emissions or demonstrate that the emissions were less than the above amounts. [Puget Sound Clean Air Agency Regulation I, Section 7.09(a), 9/10/98]

#### **5. NSPS Excess Emissions Reporting**

Puget Sound Energy shall report excess emissions in accordance with Section 40 CFR 60.7(c).

Puget Sound Energy shall submit to the Puget Sound Clean Air Agency any additional information required by WAC 173-400-105(1) or Puget Sound Clean Air Agency Regulation III, Section 1.11. [Puget Sound Clean Air Agency Regulation III, Section 1.11, 12/12/96; WAC 173-400-105, 9/20/93, WAC 173-400-105, 2/10/05 State/Puget Sound Clean Air Agency only]

#### **6. Summary of "Routine" required reports**

Name of Report	Reqmt	Due date(s)	Certification requirement
Monthly Deviation Report	V.R.1	30 days after the end of the month deviation occurs	May certify each report, but normal practice is to summarize and certify DevReps in semiannual Certification of Reports as per V.R.2
Certification of Reports (semiannual)	V.R.2	October 21, April 19	Yes, in accordance with V.R.3
Annual Compliance Certification	V.M	Annually, April 19	Yes, in accordance with V.R.3
Emission inventory statement	V.R.4	Annually	Certify in semiannual Certification of Reports as per V.R.2

### ***S. Emergencies***

An emergency, as defined in WAC 173-401-645(l), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the conditions of WAC 173-401-645(3) are met.

The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (1) An emergency occurred and that Puget Sound Energy can identify the cause(s) of the emergency;
- (2) Puget Sound Energy was at the time being properly operated;
- (3) During the period of the emergency Puget Sound Energy took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in the permit; and
- (4) Puget Sound Energy submitted notice of the emergency to the Puget Sound Clean Air Agency within two (2) working days of the time when the emissions limitations were exceeded due to the emergency or shorter periods of time specified in an applicable requirement. This notice fulfills the requirement of WAC 173-401-615(3)(b) unless the excess emissions represent a potential threat to human health or safety. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

In any enforcement proceeding, Puget Sound Energy has the burden of proof to establish the occurrence of an emergency. This provision is in addition to any emergency or upset provision contained in any applicable requirement. [WAC 173-401-645, 11/4/93]

### ***T. Unavoidable excess emissions***

Excess emissions due to startup or shutdown conditions, scheduled maintenance or upsets that are determined to be unavoidable under the procedures and criteria in WAC 173-400-107 shall be excused and not subject to penalty. For any excess emission that Puget Sound Energy wants the Puget Sound Clean Air Agency to consider unavoidable and excusable under WAC 173-400-107, Puget Sound Energy shall report as required by Section V.R.1 of this permit the following:

- (1) Why the event was not caused by poor or inadequate design, operation, maintenance, or any other reasonably preventable condition;
- (2) Why the event was not of a recurring pattern indicative of inadequate design, operation, or maintenance; and
- (3) How Puget Sound Energy 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(2), 9/20/93]

***U. Need to halt or reduce activity not a defense***

It shall not be a defense for Puget Sound Energy 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), 11/4/93]

***V. Stratospheric ozone and climate protection***

- (1) Puget Sound Energy shall comply with the following standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
  - (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  - (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  - (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
- (2) Puget Sound Energy may switch from any ozone-depleting substance to any alternative approved pursuant to the Significant New Alternatives Program (SNAP), 40 CFR Part 82, Subpart G, without a permit revision but shall not switch to a substitute listed as unacceptable pursuant to such program. [40 CFR 82.174]
- (3) Any certified technician employed by Puget Sound Energy shall keep a copy of their certification at their place of employment. [40 CFR §82.166(1)]
- (4) Puget Sound Energy shall not willfully release any regulated refrigerant and shall use refrigerant extraction equipment to recover regulated refrigerant when servicing, repairing or disposing of commercial air conditioning, heating, or refrigeration systems. [RCW 70.94.970(2) and (4), 11/12/97 State/Puget Sound Clean Air Agency only]

***W. RACT satisfied***

Emission standards and other requirements contained in rules or regulatory orders in effect at the time of this permit issuance shall be considered RACT for the purposes of issuing this permit. [WAC 173-401-605(3), 11/4/93; RCW 70.94.031 State/Puget Sound Clean Air Agency only]

***X. Risk management programs***

In accordance with 40 CFR part 68, if Puget Sound Energy has or gets more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, Puget Sound Energy shall comply with the requirements of the Chemical Accident Prevention Provisions of 40 CFR part 68 no later than the following dates:

- (1) Three years after the date on which a regulated substance is first listed under 40 CFR 68.130; or
- (2) The date on which a regulated substance is first present above a threshold quantity in a process.

[40 CFR 68.10, 1/6/99]

***Y. Definitions***

Unless otherwise defined in this permit, the terms used in this permit shall have the same meaning ascribed to them in the referenced regulation. [WAC 173-401-200, 10/17/02]

***Z. Duty to supplement or correct application***

Upon becoming aware that it has failed to submit any relevant facts in a permit application or that it has submitted incorrect information in a permit application, Puget Sound Energy shall promptly submit such supplementary facts or corrected information to the Puget Sound Clean Air Agency. [WAC 173-401-500(6), 10/17/02]

***AA. Insignificant emission units and activities***

- (1) Insignificant emission units and activities at Puget Sound Energy are subject to all applicable requirements set forth in Sections I.A, III and IV. This permit does not require testing, monitoring, reporting or recordkeeping for insignificant emission units or activities, except as required by Puget Sound Clean Air Agency Regulation I, Sections 7.09(b) and 9.20 and their incorporation into this permit. Compliance with Puget Sound Clean Air Agency Regulation I, Sections 7.09(b) and 9.20 as defined in the terms of this permit, shall be deemed to satisfy the requirements of WAC 173-401-615 and 173-401-630(1). [WAC 173-401-530(2)(c), 10/17/02]
- (2) Where this permit does not require testing, monitoring, recordkeeping and reporting for insignificant emissions units or activities, Puget Sound Energy may certify continuous compliance if there were no observed, documented, or known instances of noncompliance

during the reporting period. Where this permit requires testing, monitoring, recordkeeping and reporting for insignificant emission units or activities, Puget Sound Energy may certify continuous compliance when the testing, monitoring, and recordkeeping required by the permit revealed no violations during the period, and there were no observed, documented, or known instances of noncompliance during the reporting period. [WAC 173-401-530(2)(d), 10/17/02]

- (3) An emission unit or activity that qualifies as insignificant solely on the basis of WAC 173-401-530(1)(a) shall not exceed the emission thresholds specified in WAC 173-401-530(4) until this permit is modified pursuant to Section VI.E of this permit and WAC 173-401-725. [WAC 173-401-530(6), 10/17/02]

## **VI. PERMIT ACTIONS**

### ***A. Permit Renewal, Revocation And Expiration***

- (1) **Renewal application.** Puget Sound Energy shall submit a complete permit renewal application to the Puget Sound Clean Air Agency no later than 12 months prior to the expiration of this permit. The Puget Sound Clean Air Agency will send Puget Sound Energy a renewal application no later than 18 months prior to the expiration of this permit. Failure of the Puget Sound Clean Air Agency to send Puget Sound Energy a renewal application shall not relieve Puget Sound Energy from the obligation to file a timely and complete renewal application. [WAC 173-401-710(1), 10/17/02; WAC 173-401-500(2), 10/17/02]
- (2) **Expired permits.** Permit expiration terminates Puget Sound Energy's right to operate unless a timely and complete renewal application has been submitted consistent with WAC 173-401-710(1) and WAC 173-401-500. All terms and conditions of the permit shall remain in effect after this permit expires if a timely and complete permit application has been submitted. [WAC 173-401-710(3), 10/17/02]
- (3) **Revocation of permits.** The Puget Sound Clean Air Agency may revoke a permit only upon the request of Puget Sound Energy or for cause. The Puget Sound Clean Air Agency shall provide at least thirty days written notice to Puget Sound Energy prior to revocation of the permit or denial of a permit renewal application. Such notice shall include an explanation of the basis for the proposed action and afford Puget Sound Energy an opportunity to meet with the Puget Sound Clean Air Agency prior to Puget Sound Clean Air Agency's final decision. A revocation issued under this condition may be issued conditionally with a future effective date and may specify that the revocation will not take effect if Puget Sound Energy satisfies the specified conditions before the effective date. Nothing in this subsection shall limit Puget Sound Clean Air Agency's authority to issue emergency orders. [WAC 173-401-710(4), 10/17/02]

### ***B. Administrative Permit Amendments***

- (1) **Definition.** An "administrative permit amendment" is a permit revision that:
  - a) Corrects typographical errors;
  - b) Identifies a change in the name, address, or phone number of any person identified in the permit, or provides a similar minor administrative change at Puget Sound Energy;
  - c) Requires more frequent monitoring or reporting by Puget Sound Energy;
  - d) Allows for a change in ownership or operational control of a source where the Puget Sound Clean Air Agency determines that no other change in the permit is necessary, 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 the Puget Sound Clean Air Agency;



- e) Incorporates into the permit the terms, conditions, and provisions from orders approving notice of construction applications processed under an EPA-approved program, provided 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. [WAC 173-401-720(1), 11/4/93]
- (2) **Administrative permit amendment procedures.** An administrative permit amendment may be made by the Puget Sound Clean Air Agency consistent with the following:
- a) The Puget Sound Clean Air Agency shall take no more than sixty days from receipt of a request for an administrative permit amendment to take final action on such request, and may incorporate such changes without providing notice to the public or affected states provided that it designates any such permit revisions as having been made pursuant to this paragraph.
- b) The Puget Sound Clean Air Agency shall submit a copy of the revised permit to EPA.
- c) Puget Sound Energy may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. [WAC 173-401-720(3), 11/4/93]
- (3) **Permit shield.** The Puget Sound Clean Air Agency 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 part (1)(e) of this condition. [WAC 173-401-720(4), 11/4/93]

### ***C. Changes not Requiring Permit Revisions***

- (1) General.
- a) Puget Sound Energy is authorized to make the changes described in this section without a permit revision, providing the following conditions are met:
- i) The proposed changes are not Title I modifications as defined in WAC 174-401-200(35);
- ii) The proposed changes do not result in emissions that exceed those allowable under the permit, whether expressed as a rate of emissions, or in total emissions;
- iii) The proposed changes do not alter permit terms that are necessary to enforce limitations on emissions from units covered by the permit; and
- iv) Puget Sound Energy provides EPA and the Puget Sound Clean Air Agency with written notification at least seven 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.
- b) Permit attachments. Puget Sound Energy and the Puget Sound Clean Air Agency shall attach each notice to their copy of the relevant permit.



(2) **Section 502(b)(10) changes.** Pursuant to the conditions in subsection (1) of this section, Puget Sound Energy is authorized to make section 502(b)(10) changes (as defined in WAC 173-401-200(30)) without a permit revision.

- a) For each such change, the written notification required under subsection (1)(a)(iv) of this condition 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.
- b) The permit shield authorized under WAC 173-401-640 shall not apply to any change made pursuant to this paragraph.

(3) **SIP authorized emissions trading.** Pursuant to the conditions in subsection (1) of this condition, Puget Sound Energy is authorized to trade increases and decreases in emissions 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.

- a) Under this subsection (3), the written notification required under subsection (1)(a)(iv) of this condition shall include such information as may be required by the provision in the Washington state implementation plan 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 Puget Sound Energy will comply using the emissions trading provisions of the Washington state implementation plan, and the pollutants emitted subject to the emissions trade. The notice shall also refer to the provisions with which Puget Sound Energy will comply in the applicable implementation plan and that provide for the emissions trade.
- b) The permit shield described in WAC 173-401-640 shall not extend to any change made under this paragraph. Compliance with the permit requirements that Puget Sound Energy will meet using the emissions trade shall be determined according to requirements of the applicable implementation plan authorizing the emissions trade.

[WAC 173-401-722, 10/17/02]

#### ***D. Off Permit Changes***

Puget Sound Energy shall be allowed to make changes not specifically addressed or prohibited by the permit terms and conditions without requiring a permit revision, provided that the proposed changes do not weaken the enforceability of existing permit conditions. Any change that is a Title I modification or is a change subject to the acid rain requirements under Title IV of the FCAA must be submitted as a permit revision.

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

Puget Sound Energy must provide contemporaneous written notice to the Puget Sound Clean Air Agency and EPA of each such change, except for changes that qualify as insignificant under

WAC 173-401-530. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change.

The change shall not qualify for the permit shield under WAC 173-401-640.

Puget Sound Energy shall keep a record describing changes made at Puget Sound Energy 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.

When making a change under this section, Puget Sound Energy shall comply with applicable preconstruction review requirements established pursuant to RCW 70.94.152 and Puget Sound Clean Air Agency Regulation I, Article 6.

[WAC 173-401-724, 11/4/93]

#### ***E. Permit Modification***

(1) **Definition.** A permit modification is any revision to this permit that cannot be accomplished under provisions for administrative permit amendments under WAC 173-401-720.

(2) **Procedures.** Minor permit modification procedures.

a) Criteria.

i) Minor permit modification procedures shall be used for those permit modifications that:

- a) Do not violate any applicable requirement;
- b) Do not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in the permit;
- c) Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;
- d) Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that Puget Sound Energy has assumed to avoid an applicable requirement to which Puget Sound Energy would otherwise be subject. Such terms and conditions include:
  - (1) A federally enforceable emissions cap assumed to avoid classification as a modification under any provision of Title I of the FCAA; and
  - (2) An alternative emissions limit approved pursuant to regulations promulgated under Section 112(i)(5) of the FCAA;

e) Are not modifications under any provision of Title I of the FCAA;

ii) Notwithstanding (a)(i) of this subsection, and subsection (3) of this section, the Puget Sound Clean Air Agency may allow the use of minor permit modification procedures for permit modifications involving the use of economic incentives,

marketable permits, emissions trading, and other similar approaches, to the extent that the use of such minor permit modification procedures is explicitly provided for in the Washington state implementation plan or in applicable requirements promulgated by EPA and in effect on April 7, 1993.

- b) Application. An application requesting the use of minor permit modification procedures shall meet the requirements of WAC 173-401-510 and shall include the following:
    - i) A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
    - ii) Puget Sound Energy's suggested draft permit;
    - iii) Certification by a responsible official, consistent with WAC 173-401-520, of the truth, accuracy, and completeness of the application and that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
    - iv) Completed forms for the Puget Sound Clean Air Agency to use to notify EPA and affected states as required under WAC 173-401-810 and 173-401-820.
  - c) Puget Sound Energy's ability to make change. Puget Sound Energy may make the change proposed in its minor permit modification application immediately after it files such application provided that those changes requiring the submission of a notice of construction application have been reviewed and approved by the Puget Sound Clean Air Agency. After Puget Sound Energy makes the change allowed by the preceding sentence, and until the Puget Sound Clean Air Agency takes any of the actions specified in WAC 173-401-725(d), Puget Sound Energy must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time period, Puget Sound Energy need not comply with the existing permit terms and conditions it seeks to modify. However, if Puget Sound Energy fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against it.
  - d) Permit shield. The permit shield under WAC 173-401-640 shall not extend to minor permit modifications.
- (3) **Group processing of minor permit modifications.** Consistent with WAC 173-401-725(3), the Puget Sound Clean Air Agency may process groups of a source's applications for certain modifications eligible for minor permit modification processing.
- (4) **Significant modification procedures.**
- a) Criteria. Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative permit amendments. Every significant change in existing monitoring permit terms or conditions and every relaxation of reporting or recordkeeping permit terms or conditions shall be considered significant. Nothing herein shall be construed to preclude Puget Sound Energy from making changes consistent with Chapter 173-401 WAC that would render existing permit compliance terms and conditions irrelevant.

- b) Significant permit modifications shall meet all requirements of Chapter 173-401 WAC, including those for applications, public participation, review by affected states, and review by EPA, as they apply to permit issuance and permit renewal. The Puget Sound Clean Air Agency shall complete review on the majority of significant permit modifications within nine months after receipt of a complete application.

[WAC 173-401-725, 11/4/93]

***F. Reopening for Cause.***

- (1) **Standard provisions.** This permit shall be reopened and revised under any of the following circumstances:

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

- (2) **Procedures.** Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

- (3) **Notice.** Reopenings under this section shall not be initiated before a notice of such intent is provided to Puget Sound Energy by the Puget Sound Clean Air Agency at least thirty days in advance of the date that the permit is to be reopened, except that the Puget Sound Clean Air Agency may provide a shorter time period in the case of an emergency.

[WAC 173-401-730, 11/4/93]

## **VII. PERMIT SHIELD**

Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements contained in Sections I through VI of this permit that are specifically identified in this permit as of the date of permit issuance. [WAC 173-401-640(1), 11/4/93]

Nothing in this permit shall alter or affect the following:

- (1) The provisions of Section 303 of the FCAA (emergency orders), including the authority of the administrator under that section;
- (2) The liability of an owner or operator of Puget Sound Energy for any violation of applicable requirements prior to or at the time of permit issuance;
- (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the FCAA;
- (4) The ability of EPA to obtain information from a source pursuant to Section 114 of the FCAA; or
- (5) The ability of the Puget Sound Clean Air Agency 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), 11/4/93]



## VIII. INAPPLICABLE REQUIREMENTS

As of the date of permit issuance, the requirements listed below do not apply to Puget Sound Energy, or to the specific emissions units specified below for the reasons indicated. The permit shield applies to all requirements so identified. [WAC 173-401-640(2), 11/4/93]

Requirement	Adoption or Effective Date	Description and Reason for Inapplicability
Puget Sound Clean Air Agency Reg I: 9.10(b)	6/9/88	HCl shall not exceed 30 ppm corrected to 7% O <sub>2</sub> from refuse burning equipment greater than 12 tons per day. Puget Sound Energy does not operate refuse burning equipment.
Puget Sound Clean Air Agency Reg I: 5	9/12/96	Registration Requirements. The Washington Clean Air Act prohibits the Puget Sound Clean Air Agency from requiring operating permit sources to register.
WAC 173-400-100	9/20/93	
Puget Sound Clean Air Agency Reg I: Article 12	8/10/89	Continuous Monitoring Requirements. Puget Sound Energy does not have any requirements for continuous emission monitoring under Puget Sound Clean Air Agency Regulation I, Article 12.
Puget Sound Clean Air Agency Reg II: Articles 1, 2, & 3	Permit Issuance Date	Certain VOC requirements. Puget Sound Energy does not have any equipment covered by the articles and would have to obtain approval to install any such equipment.
Puget Sound Clean Air Agency Reg III: Article 3	6/13/96	Specific requirements for specific sources of toxic emissions. Puget Sound Clean Air Agency Regulation III, Article 3 is an inapplicable requirement because Puget Sound Energy does not have any of the listed equipment and must obtain Puget Sound Clean Air Agency approval before installing any such equipment.
WAC 173-400-070	3/22/91	Emission standards for certain source categories. WAC 173-400-070 does not apply because the listed source types are not present at the facility, and Puget Sound Energy will need to submit a Notice of Construction and Application for Approval to install any of them.
WAC 173-400-100	9/20/93	Requires sources to register with Puget Sound Clean Air Agency or Ecology. Washington Clean Air Act prohibits the Puget Sound Clean Air Agency from requiring operating permit sources to register.
Puget Sound Clean Air Agency Reg I: 5.03	7/8/99	
WAC 173-400-120 WAC 173-400-131 WAC 173-400-136	9/20/93	Bubble and emission reduction credit rules. The Puget Sound Clean Air Agency has determined that these requirements are inapplicable because they do not currently apply, and Puget Sound Energy would need approval from the Puget Sound Clean Air Agency before any of these requirements apply.

Requirement	Adoption or Effective Date	Description and Reason for Inapplicability
WAC 173-400-151	3/22/91	Retrofit requirements for visibility protection. WAC 173-400-151 is an inapplicable requirement at this time because Ecology has not identified Puget Sound Energy as a source that can cause or contribute to impaired visibility in a Class I area. If Ecology makes such a determination, the Puget Sound Clean Air Agency will reopen the permit.
WAC 173-400-190	3/22/91	Requirements for nonattainment area development. This is a requirement for Ecology to involve the Puget Sound Clean Air Agency and as such does not apply to Puget Sound Energy, so it is inapplicable.
WAC 173-400-210	3/22/91	Emission requirements of prior jurisdictions. WAC 173-400-210 is inapplicable because Puget Sound Energy has always been in Puget Sound Clean Air Agency's jurisdiction.
Chapter 173-434 WAC	Date of Permit Issuance	Standards for incinerators. Chapter 173-434 WAC does not apply because Puget Sound Energy is not a "solid waste incinerator facility" as defined under WAC 173-434-030 and would need to obtain an Order of Approval if it became a solid waste incinerator facility.
Chapters 173-470, -474, -475, -480, and -491 WAC	Date of Permit Issuance	Ambient air quality standards. These are ambient air quality standards and by definition are not applicable requirements.
Chapter 173-490 WAC	Date of Permit Issuance	The Puget Sound Energy facility in Frederickson does not have any of the processes listed in WAC 173-490-030.
40 CFR 60 Subparts D, Da, Db & Dc	Date of Permit Issuance	Regulates fossil fuel fired steam generators but are not applicable since Puget Sound Energy has simple cycle combustion turbine electrical generators which do not generate steam. If Puget Sound Energy proposed to install equipment subject to 40 CFR 60 Subparts D, Da, Db or Dc, Puget Sound Energy would also have to apply for a permit modification.
40 CFR 60 Subparts K, Ka and Kb, Puget Sound Clean Air Agency Reg II: 2.04	Date of Permit Issuance	40 CFR 60 subparts K and Ka, for storage vessels for petroleum liquids, and Puget Sound Clean Air Agency Regulation II, Section 2.04 are not applicable to tanks storing distillate with a true vapor pressure less than 1.5 psia. Subpart Kb is not applicable to the tanks currently on site because they were constructed before 1984 and have not been modified since. Puget Sound Clean Air Agency Regulation II, Section 2.04 is not applicable because the fuel has a true vapor pressure less than 1.5 psia.
40 CFR 60 Subpart KKKK	Date of Permit Issuance	The Puget Sound Energy Frederickson facility was constructed before the Subpart KKKK applicability date of February 18, 2005.



Requirement	Adoption or Effective Date	Description and Reason for Inapplicability
40 CFR Part 72 through 78 Chapter 173-406 WAC	Date of Permit Issuance	Simple cycle combustion turbines which commenced operation before November 15, 1990 are exempt from the acid rain provisions (40 CFR 75.6(b)(1)). Therefore, the requirements of the acid rain program are not applicable to the Puget Sound Energy Generating Station. If the facility is modified in such a way that it becomes subject to the acid rain program, Puget Sound Energy will apply for a permit modification.
40 CFR Part 63	Date of Permit Issuance	Proposed or promulgated MACT standards are not applicable to the equipment or operations of Puget Sound Energy at the time of permit issuance. The Puget Sound Clean Air Agency will modify the permit if one becomes effective during the permit term and modify the permit if necessary.
RCW 70.94.531	1997	The Puget Sound Clean Air Agency has determined that a Transportation Demand Management (TDM) plan, as required by RCW 70.94.531, does not meet the definition of applicable requirement because it does not refer to stationary sources.

## **IX. APPENDIXES**

### ***A. Non-EPA Test Methods***

- (1) Puget Sound Clean Air Agency Method 5
- (2) Ecology Method 9A

### ***B. Puget Sound Clean Air Agency Regulation I Article 12***

- (1) Puget Sound Clean Air Agency Board Resolution 644 passed and approved August 10, 1989.