



# AIR OPERATING PERMIT

Puget Sound Clean Air Agency  
110 Union Street, Suite 500  
Seattle, Washington 98101

Issued in accordance with the provisions of Puget Sound Clean Air Agency (previously known as Puget Sound Air Pollution Control Agency (PSAPCA)) 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, Boeing Commercial Airplane Group Frederickson is authorized to operate subject to the terms and conditions in this permit.

<b>PERMIT NO.: 17771</b>	<b>DATE OF ISSUANCE: June 20, 2002</b> <b>Modification 1: January 9, 2004</b> <b>Modification 2: May 12, 2004</b>
<b>ISSUED TO: Boeing Commercial Airplane Group - Frederickson</b>	
<b>PERMIT EXPIRATION DATE: June 20, 2007</b>	

SIC Code, Primary:	3728
NAICS Code	336413
Nature of Business:	Other Aircraft Part and Auxiliary Equipment Manufacturing
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## **I. EMISSION LIMITS AND PERFORMANCE STANDARDS**

The following tables list the citation for the “applicable requirement” in the second column. 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 only rules approved by EPA through Sections 110, 111, and 112 of the federal Clean Air Act are federally enforceable and either the state has not submitted the regulation to the EPA or the EPA has not approved it.

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 an enforceable requirement of this permit. 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 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 for specific emission units or activities 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 (See Section II)	Emission Standard Period	Reference Test Method
I.A.1	Puget Sound Clean Air Agency Reg I: 9.03 <i>This requirement will be superseded upon adoption of the 3/11/99 version of Reg I: 9.03 into the SIP</i>  Puget Sound Clean Air Agency Reg. I: 9.03 (State Only). <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 9/08/94 version of Reg I: 9.03</i>  WAC 173-400-040(1) <i>This requirement will be superseded upon adoption of the 09/15/01 version of WAC 173-400-040(1) into the SIP</i>  WAC 173-400-040(1) (State Only). <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/1993 version of WAC 173-400-040(1)</i>	09/08/1994  03/11/1999  08/20/1993  9/15/01	Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour	II.A.1(a) Opacity Monitoring  II.A.1(b) Complaint Response  II.A.1(c) Facility Inspections	More than 3 min in any 1 hr	Ecology Method 9A (See Section VIII)

Reqmt. No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Reference Test Method
I.A.2	<p>Puget Sound Clean Air Agency Reg I: 9.09(a) <i>This requirement will be superseded upon adoption of the 4/9/98 version of Reg I: 9.09 into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I: 9.09 (State Only) <i>This requirement will become federally enforceable upon adoption of the 4/9/1998 version of Reg I: 9.09 into the SIP</i></p> <p>WAC 173-400-060 <i>This requirement shall be superseded by the 9/15/01 version of WAC 173-400-060 upon its adoption into the SIP</i></p> <p>WAC 173-400-060 (State Only). <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/93 version of WAC 173-400-060</i></p>	<p>2/10/1994</p> <p>04/09/1998</p> <p>8/20/93</p> <p>9/15/01</p>	<p>Shall not emit particulate matter in excess of 0.05 gr/dscf from equipment used in a manufacturing process and general process units, uncorrected for excess air</p>	<p>II.A.1(a) Opacity Monitoring</p> <p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p>	<p>At least 1-hr per run</p>	<p>Puget Sound Clean Air Agency Method 5 (See Section VIII)</p>
I.A.3	<p>Puget Sound Clean Air Agency Reg I: 9.09(a) <i>This requirement will be superseded upon adoption of the 4/9/98 version of Reg I: 9.09 into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I: 9.09 (State Only) <i>This requirement will become federally enforceable upon adoption of the 4/9/1998 version of Reg I: 9.09 into the SIP</i></p>	<p>02/10/1994</p> <p>04/09/1998</p>	<p>Shall not emit particulate matter in excess of 0.05 gr/dscf corrected to 7% O<sub>2</sub> from fuel burning equipment and combustion sources (applies to the equipment that produces hot air, hot water, steam, or other heated fluids by external combustion of fuel. Examples include indirect-fired drying ovens and space heaters and water heaters)</p>	<p>II.A.1(a) Opacity Monitoring</p> <p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p>	<p>At least 1-hr per run</p>	<p>Puget Sound Clean Air Agency Method 5 (See Section VIII)</p>

I.A FACILITY-WIDE APPLICABLE REQUIREMENTS

Reqmt. No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Reference Test Method
I.A.4	<p>WAC 173-400-050 <i>This requirement will be superseded upon adoption of the 9/15/01 version of WAC 173-400-050 into the SIP</i></p> <p>WAC 173-400-050 (State Only) <i>This requirement will be federally enforceable upon adoption into the SIP and will replace the 3/22/91 version of WAC 173-400-050</i></p>	<p>3/22/91</p> <p>9/15/01</p>	<p>Shall not emit particulate matter in excess of 0.10 gr/dscf corrected to 7% O<sub>2</sub> from fuel burning equipment and combustion sources. (Applies to the equipment that produces hot air, hot water, steam, or other heated fluids by external combustion of fuel, such as boilers and water heaters.</p>	<p>II.A.1(a) Opacity Monitoring</p> <p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p>	<p>At least 1-hr per run</p>	<p>Puget Sound Clean Air Agency Method 5 (See Section VIII)</p>
I.A.5	<p>Puget Sound Clean Air Agency Reg I: 9.07</p> <p>WAC 173-400-040(6) first paragraph only. <i>This requirement shall be superseded by the 09/15/01 version of WAC 173-400-040(6) upon its adoption into the SIP</i></p> <p>WAC 173-400-040(6) (State Only). <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/93 version of WAC 173-400-040(6)</i></p>	<p>04/14/1994</p> <p>08/20/1993</p> <p>9/15/01</p>	<p>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</p>	<p>II.A.1(g) Fuel Oil Sulfur Content Monitoring Procedure</p>	<p>At least 1-hr per run</p>	<p>EPA Method 6C (See 40 CFR Part 60, Appendix A, July 1, 2001)</p>
I.A.6	<p>Puget Sound Clean Air Agency Reg I: 9.11 <i>This requirement will be superseded upon adoption of the 3/11/99 version of Reg I: 9.11 into the SIP</i></p> <p>WAC 173-400-040(5) <i>This requirement will be superseded upon adoption of the 09/15/01 version of WAC 173-400-040(5)</i></p>	<p>06/9/1983</p> <p>08/20/1993</p>	<p>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</p>	<p>II.A.1(b) Complaint Response;</p> <p>II.A.1(c) Facility Inspections</p>	<p>N/A</p>	<p>N/A</p>

Reqmt. No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Reference Test Method
	<p><i>into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I: 9.11 (State Only) This requirement will become federally enforceable upon adoption into the SIP and will replace the 6/9/1983 version of Reg I: 911(a).</p> <p>WAC 173-400-040(5) (State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/93 version of WAC 173-400-040(5)</p>	<p>03/11/1999</p> <p>9/15/01</p>				

Reqmt. No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Reference Test Method
I.A.7	Puget Sound Clean Air Agency Reg I: 9.15 <i>This requirement will be superseded upon adoption of the 3/11/1999 version of Reg I: 9.15 into the SIP</i>	08/10/1989	(a) Shall not emit visible dust unless BACT is employed to control the emissions  (b) Unlawful to operate a vehicle on paved public roads unless: (1) The vehicle is constructed or loaded to prevent load from escaping or spilling; (2) The vehicle is covered to prevent load from escaping or spilling if loaded with gravel or dirt; and (3) Mud, dirt, and other debris is cleaned from the chassis and tires of the vehicle  (c) Unlawful to allow emission of fugitive dust from any refuse or fuel burning, manufacturing, or emissions control equipment  (d) Unlawful to allow emission of fugitive dust in such quantities and of such characteristics and duration as is, or is likely to be, injurious to human health, plant or animal life, or which unreasonably interferes with enjoyment of life and property	II.A.1(b) Complaint Response  II.A.1(c) Facility Inspections  II.A.1(f) Fugitive Dust, Track-Out, and Odor Bearing Contaminants	N/A	N/A

Reqmt. No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Reference Test Method
I.A.8	Puget Sound Clean Air Agency Reg I: 9.15 <i>(State only)</i> This requirement shall become federally enforceable upon adoption into the SIP and will replace the 8/10/1989 version of Reg I:9.15	03/11/1999	<p>It shall be unlawful for any person to 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> <p>(1) The use of control equipment, enclosures, and wet (or chemical) suppression techniques, as practical, and curtailment during high winds;</p> <p>(2) Surfacing roadways and parking areas with asphalt, concrete, or gravel;</p> <p>(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</p> <p>(4) Covering or wetting truck loads or allowing adequate freeboard to prevent the escape of dust-bearing materials</p>	<p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> <p>II.A.1(f) Fugitive Dust, Track-Out, and Odor Bearing Contaminants</p>	N/A	N/A

Reqmt. No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Reference Test Method
I.A.9	<p>WAC 173-400-040(3) &amp; (8) <i>These requirements will be superseded upon adoption of the 09/15/01 versions of WAC 173-400-040(3) &amp; (8) into the SIP</i></p> <p>WAC 173-400-040(3) &amp; (8) <i>(State Only). These requirements will become federally enforceable upon adoption into the SIP and will replace the 8/20/93 versions of WAC 173-400-040(3) &amp; (8)</i></p>	<p>08/20/1993</p> <p>9/15/01</p>	<p>Shall not emit visible dust unless reasonable precautions are employed to minimize the emissions</p>	<p>II.A.1(b) Complaint Response;                      II.A.1(c) Facility Inspections                      II.A.1(f) Fugitive Dust, Track-Out, and Odor Bearing Contaminants</p>	<p>N/A</p>	<p>N/A</p>
I.A.10	<p>Puget Sound Clean Air Agency Reg I: 9.20(b)</p>	<p>06/09/1988</p>	<p>Must maintain equipment not subject to Puget Sound Clean Air Agency Regulation I, Section 9.20(a) in good working order</p>	<p>II MONITORING, MAINTENANCE AND RECORDKEEPING PROCEDURES</p>	<p>N/A</p>	<p>N/A</p>
I.A.11	<p>Puget Sound Clean Air Agency Reg I: 7.09(b) <i>This requirement will be superseded upon adoption of the 9/10/1998 version of Reg I: 7.09(b) into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I: 7.09(b) <i>(State Only) This requirement shall become federally enforceable upon adoption into the SIP and will replace the 9/12/96 version of Reg I:7.09(b)</i></p>	<p>09/12/1996</p> <p>09/10/1998</p>	<p>Must develop and implement an O&amp;M Plan to assure continuous compliance with Puget Sound Clean Air Agency Regulations I, II and III</p>	<p>II MONITORING, MAINTENANCE AND RECORDKEEPING PROCEDURES</p>	<p>N/A</p>	<p>N/A</p>

I.A FACILITY-WIDE APPLICABLE REQUIREMENTS

Reqmt. No.	Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Reference Test Method
I.A.12	WAC 173-400-040(4) <i>(State Only)</i>	9/15/01	Must use recognized good practice and procedures to reduce 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 Inspections	N/A	N/A
I.A.13	WAC 173-400-040(2) <i>(State Only)</i>	9/15/01	Shall not deposit particulate matter beyond property boundary in sufficient quantity to interfere unreasonably with the use and enjoyment of the property	II.A.1(b)Complaint Response; II.A.1(c) Facility Inspections	N/A	N/A
I.A.14	Puget Sound Clean Air Agency Reg I: 9.10(a) <i>(State Only)</i>	06/09/1988	Shall not emit HCl in excess of 100 ppm (dry) corrected to 7% O <sub>2</sub> for combustion sources	No monitoring required	At least three 1-hr runs	EPA Method 26A (See 40 CFR Part 60, Appendix A; July 1, 2000)
I.A.15	RCW 70.94.040 <i>(State Only)</i>	1996	Shall not cause air pollution in violation of 70.94 RCW or any ordinance, resolution, rule or regulation adopted thereunder	No monitoring required	N/A	N/A

N/A = 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 a requirement in Section I.A. is repeated in this section, then the monitoring, maintenance, and recordkeeping method specified in this section supersedes the monitoring, maintenance, and recordkeeping method specified in Section I.A.

The first part of each subsection in Section I.B. lists a description of the emission activity and identifying information about each specific emission point or unit. The identifying information includes the building number, the column and door number (grid system for locating points within the buildings), a Boeing inventory control identification number (MSS/ID#), the Notice of Construction (NOC) number for equipment that has gone through the new source review process, the installation date and a short description of the emission unit. This information, which is in italics, is not an enforceable part of the permit. Because of the size of Boeing and its complexity, the information is provided as an aid in understanding the permit and locating the specific emission point or activity.

The following tables list the citation for the “applicable requirement” in the second column.

The third column (Requirement Paraphrase) paraphrases the requirements and is not an enforceable condition of this permit. The actual enforceable requirement is embodied in the requirement cited in the second column.

The fourth column (Monitoring, Maintenance and Recordkeeping Method) identifies the activities that Boeing shall use to monitor compliance with the applicable requirements identified in the second column. These methods are described in Section II of this permit. Following the method is a requirement of this permit. In some cases where the applicable requirement does not cite a test method, one has been added.

Boeing is subject to all the requirements in all the tables listed below. The paraphrasing contained in the third column below is intended to generally state the relevant requirements for the purposes of the table, but is not intended in any way to alter or change the meaning of any requirement referenced in the second column.

In the event of conflict or omission between the information contained in the third column 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 column, refer to the actual requirements cited.

**1. Chemical Process Tankline Operations**

**DESCRIPTION:** *This section includes the equipment listed below and all activities associated with chemical process tankline operations. For the purpose of defining an “emission unit” in this permit, each piece of equipment listed below is considered a separate emission unit.*

<i>Bldg.</i>	<i>Col./Dr.</i>	<i>MSS/ID #</i>	<i>Order of Approval #</i>	<i>Install Date</i>	<i>Source Description</i>
<i>24-60</i>	<i>M/N 1.7</i>	<i>59998</i>	<i>3909</i>	<i>1993</i>	<i>Scrubber</i>
<i>24-60</i>	<i>M/N 1.7</i>	<i>59999</i>	<i>3909</i>	<i>1993</i>	<i>Scrubber</i>
<i>24-60</i>	<i>M-N4.8</i>	<i>60100</i>	<i>3909</i>	<i>1992</i>	<i>Scrubber</i>
<i>24-60</i>	<i>M-N4.8</i>	<i>60101</i>	<i>3909</i>	<i>1992</i>	<i>Scrubber</i>

*Data in italics are for information only and not enforceable conditions of this permit.*

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**COMPLIANCE REQUIREMENTS:**

EMISSION UNIT SPECIFIC REQUIREMENTS  
I.B.1 Chemical Process Tankline Operations

Permit No. 17771  
Expiration Date: June 20, 2002  
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Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 1.1	<p>Puget Sound Clean Air Agency Reg I, 7.09(b) (9/12/96) <i>This requirement will be superseded upon adoption of the 9/10/1998 version of Reg I, 7.09(b) into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I, 7.09(b) (9/10/98) (State Only) <i>This requirement shall become federally enforceable upon adoption into the SIP and will replace the 9/12/96 version of Reg I, 7.09(b)</i></p>	Develop and implement an Operation and Maintenance Plan to assure continuous compliance with Puget Sound Clean Air Agency Regulations I, II, and III.	<p>II.B Operation and Maintenance (O&amp;M) Plan Requirements.</p> <p>This monitoring method supersedes the monitoring method for this requirement listed in I.A.11</p>	
EU 1.2	Puget Sound Clean Air Agency Reg I: 9.20(a) (6/9/88)	Maintain equipment in good working order that has received an NOC Order of Approval.	<p>II.A.2(d)(vi) Scrubbers for Metal Finishing Tankline</p> <p>II.A.1(c) Facility Inspections</p>	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 1.3	<p>Puget Sound Clean Air Agency Reg I, 9.03 (9/08/1994) <i>This requirement will be superseded upon adoption of the 3/11/99 version of Reg I, 9.03 into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg. I, 9.03 (3/11/1999) <i>(State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 9/08/94 version of Reg I, 9.03</i></p> <p>WAC 173-400-040(1) (8/20/1993) <i>This requirement will be superseded upon adoption of the 9/15/01 version of WAC 173-400-040(1) into the SIP</i></p> <p>WAC 173-400-040(1) (9/15/01) <i>(State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/1993 version of WAC 173-400-040(1)</i></p>	Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour	<p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> <p>II.A.2(d)(vi) Scrubbers for Metal Finishing Tankline</p> <p>These monitoring methods supersede the monitoring method for this requirement listed in I.A.1</p>	Ecology Method 9A (See Section VIII)

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 1.4	<p>Puget Sound Clean Air Agency Reg I, 9.09(a) (2/10/1994) <i>This requirement will be superseded upon adoption of the 4/9/98 version of Reg I, 9.09 into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I, 9.09 (4/09/1998) (State Only) <i>This requirement will become federally enforceable and will be effective in this table upon adoption of the 4/9/1998 version of Reg I, 9.09 into the SIP</i></p> <p>WAC 173-400-060 (8/20/93) <i>This requirement shall be superseded by the 9/15/01 version of WAC 173-400-060 upon its adoption into the SIP</i></p> <p>WAC 173-400-060 (9/15/01) (State Only). <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/93 version of WAC 173-400-060</i></p>	Shall not emit particulate matter in excess of 0.05 gr/dscf from equipment used in a manufacturing process and general process units, uncorrected for excess air	<p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> <p>II.A.2(d)(vi) Scrubbers for Metal Finishing Tankline</p> <p>These monitoring methods supersede the monitoring method for this requirement listed in I.A.2</p>	Puget Sound Clean Air Agency Method 5 (See Section VIII)
EU 1.5	RCW 70.94.152(7) 1996 (State Only)	Maintain equipment in good working order that has received an NOC Order of Approval.	<p>II.A.2(d)(vi) Scrubbers for Metal Finishing Tankline</p> <p>II.A.1(c) Facility Inspections</p>	

**2. Coating, Cleaning, and Depainting Operations**

**DESCRIPTION:** *This section includes all activities and equipment associated with surface coating, cleaning, and depainting operations. These operations include coating mixing, application, drying, and curing; spray gun cleaning; solvent wipe and solvent flush cleaning; depainting; and material and waste handling.*

*Cleaning, primer application, and topcoat application operations subject to the Aerospace NESHAP (40 CFR Part 63 Subpart GG) are included in this section. Currently, the Frederickson facility does not depaint completed aircraft. Therefore, the depainting requirements of the Aerospace NESHAP do not apply to the facility. Chemical milling maskant application operations subject to the Aerospace NESHAP are not conducted at the Frederickson facility and, therefore, are not included in this section.*

*The activities included in this section are conducted throughout the Frederickson facility. For the purpose of defining an “emission unit” in this permit, each piece of equipment listed below is considered a separate emission unit. The last column in this list indicates whether Aerospace NESHAP-regulated coatings containing inorganic HAPs are sprayed in the unit at the time of permit issuance. However, coatings that do not contain inorganic HAPs or coatings that are not primers or topcoats as defined in the Aerospace NESHAP are also being sprayed in these booths.*

<i>Bldg.</i>	<i>Col/Dr</i>	<i>MSS/ID#</i>	<i>Order of Approval #</i>	<i>Year Installed</i>	<i>Source Description</i>	<i>Aerospace NESHAP Coatings with Inorganic HAP Used in Unit?</i>
24-50	C.5/3.5	59279	4736	1993	Spray Coating Booth - Dry Filter	Yes
24-60	M/N 5.7	60107	3909	1992	Spray Coating Booth - Dry Filter	Yes

*Data in italics are for information only and not enforceable conditions of this permit.*

**COMPLIANCE REQUIREMENTS:**

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
<b>(a) NESHAP General Provisions</b>				
Requirement Nos. EU 2.1 through EU 2.17 are the NESHAP General Provisions, 40 CFR 63 Subpart A, that apply to sources subject to the Aerospace NESHAP. Applicability of 40 CFR 63 Subpart A is defined in Table 1 to Subpart GG of Part 63. Table 1 supersedes this permit if an apparent conflict exists.				
EU 2.1	40 CFR 63.1(c)(1), 63.4 (3/16/94)	Aerospace operations must comply with 40 CFR 63 Subpart A and GG.	NMR	
EU 2.2	40 CFR 63.5 (3/16/94)	Boeing shall comply with preconstruction review requirements.	NMR	
EU 2.3	40 CFR 63.6(b)(2) (3/16/94)	New and reconstructed affected sources that have an initial startup after the effective date of 40 CFR 63 Subpart GG must comply with the requirements of 40 CFR 63 Subpart GG upon startup.	NMR	
EU 2.4	40 CFR 63.6(e)(1) (i) & (iii) (3/16/94)	At all times, including startup, shutdown and malfunction, must operate and maintain affected sources consistent with good air pollution control practice. Correct malfunctions in accordance with startup, shutdown and malfunction plan as required by 40 CFR 63.6(e)(3). Note that additional O&M provisions are included under 40 CFR 63.743(b).	II.A.2(d)(ii) Spray Booths  II.A.2(h) Aerospace NESHAP Pressure Drop Monitoring and Recordkeeping Procedure	
EU 2.5	40 CFR 63.6(e)(3) (3/16/94)	If control equipment is used to control HAPs, Boeing shall develop and implement a Startup, Shutdown and Malfunction Plan, except for dry filters when Boeing follows the manufacturer's instructions.	II.A.2(c) Documentation on File	
EU 2.6	40 CFR 63.6(f) (3/16/94)	The nonopacity emission standards set forth in 40 CFR 63 shall apply at all times except during periods of startup, shutdown and malfunction as set forth in 40 CFR Subpart A and GG.	II.A.2(d)(ii) Spray Booths  II.A.2(h) Aerospace NESHAP Pressure Drop Monitoring and Recordkeeping Procedure	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 2. 7	40 CFR 63.8(a)(1), (a)(2), (b)(1) (2/12/99)	Conduct monitoring. Monitoring shall be conducted as set forth in Subpart A and GG.	II.A.2(d)(ii) Spray Booths  II.A.2(h) Aerospace NESHAP Pressure Drop Monitoring and Recordkeeping Procedure	
EU 2. 8	40 CFR 63.8(f) (2/12/99)	Boeing must receive permission from the Puget Sound Clean Air Agency before using an alternative monitoring procedure.	NMR	
EU 2. 9	40 CFR 63.9(b)(3)-(b)(5) (2/12/99)	Boeing shall notify the Puget Sound Clean Air Agency according to 40 CFR 63.9(b)(3)-(5), if it constructs or reconstructs a new affected source.	NMR	
EU 2. 10	40 CFR 63.9(i) (2/12/99)	Adjustment to time periods or postmark deadlines for submittal and review of required communications may be requested from and approved by the Puget Sound Clean Air Agency.	NMR	
EU 2. 11	40 CFR 63.9(j) (2/12/99)	Notification requirements. Any change in information already provided under 40 CFR 63.9 shall be sent to the Puget Sound Clean Air Agency within 15 days.	NMR	
EU 2. 12	40 CFR 63.10(a)(3)-(7) (2/12/99)	Must send reports to EPA and the Puget Sound Clean Air Agency according to 40 CFR 63.10(a)(3)-(7) and may request changes to report due dates.	NMR	
EU 2. 13	40 CFR 63.10(b) (2/12/99)	Boeing shall retain records for five years. At a minimum, the most recent two years of data shall be retained on site. The remaining three years of data may be off site.	II.A.2(c) Documentation on File	
EU 2. 14	40 CFR 63.10(b)(2) (2/12/99)	Boeing shall maintain relevant records in accordance with the rule - e.g., maintain occurrence and duration of startups, malfunctions, exceedances, maintenance, corrective actions and all other relevant information specified in the rule to demonstrate compliance with applicable NESHAP.	NMR	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 2. 15	40 CFR 63.10(b)(3) (2/12/99)	If Boeing determines that Frederickson emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants, but is not subject to a relevant standard or other requirement established under 40 CFR part 63, Boeing shall keep a record of the applicability determination on site at the source for a period of 5 years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination shall include an analysis (or other information) that demonstrates why Boeing believes the source is unaffected (e.g., because the source is an area source). The analysis (or other information) shall be sufficiently detailed to allow the Administrator to make a finding about the source's applicability status with regard to the relevant standard or other requirement. If relevant, the analysis shall be performed in accordance with requirements established in subparts of this part for this purpose for particular categories of stationary sources. If relevant, the analysis should be performed in accordance with EPA guidance materials published to assist sources in making applicability determinations under section 112, if any.	NMR	
EU 2. 16	40 CFR 63.10(d)(1) (2/12/99)	Boeing shall submit reports in accordance with 40 CFR 63 Subpart GG.	NMR	
EU 2. 17	40 CFR 63.10(f) (2/12/99)	Boeing must comply with the recordkeeping and reporting requirements in 40 CFR 63.10, unless a waiver is granted by the Puget Sound Clean Air Agency.	NMR	
<p><b>(b) ANESHAP Applicability &amp; Exemptions</b></p> <p>Requirement Nos. EU 2. 18 through EU 2. 30 are related to the applicability and exemptions of the Aerospace NESHAP.</p>				
EU 2. 18	40 CFR 63.741(b) (9/1/98)	Boeing must comply with Subparts GG and A, except as specified in 40 CFR 63.743(a) and Table 1 of Subpart GG.	NMR	

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Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 2. 19	40 CFR 63.741(a)-(d) (9/1/98)	Affected sources are specified in 40 CFR 63.741(c)(1) through (7). The activities subject to the Aerospace NESHAP requirements are limited to the manufacture or rework of aerospace vehicles or components as defined in the regulation. Where a dispute arises relating to the applicability of Subpart GG to a specific activity, Boeing shall demonstrate that the activity is not regulated under Subpart GG.	NMR	
EU 2. 20	40 CFR 63.741(e), (f) (9/1/98)	The Aerospace NESHAP requirements are not applicable to: RCRA hazardous waste, specialty coatings, adhesives, adhesive bonding primers, sealant, research and development, quality control, laboratory testing activities, chemical milling, metal finishing, electrodeposition (except of paints), composites processing (except cleaning and coating of composite parts or components that become part of an aerospace vehicle or component as well as composite tooling that comes in contact with such composite parts or components prior to cure), electronic parts and assemblies (except cleaning and topcoating of completed assemblies), manufacture of aircraft transparencies, wastewater operations, parts and assemblies not critical to the vehicle's structural integrity or flight performance. Not applicable to primers, topcoats, chemical milling maskants, strippers and cleaning solvents with HAP and VOC less than 0.1 percent for carcinogens or 1.0 percent for noncarcinogens as determined from manufacturer's representations.	NMR	
EU 2. 21	40 CFR 63.741(g) (9/1/98)	The requirements for primers, topcoats, and chemical milling maskants in 40 CFR 63.745 and 40 CFR 63.747 do not apply to the use of low-volume coatings in these categories for which the annual total of each separate formulation used at a facility does not exceed 189 liter (L) (50 gallons [gal]), and the combined annual total of all such primers, topcoats, and chemical milling maskants used at a facility does not exceed 757 L (200 gal).	NMR	
EU 2. 22	40 CFR 63.741(h) (9/1/98)	Regulated activities associated with space vehicles are exempt from the requirements of the Aerospace NESHAP, except for depainting operations in 40 CFR 63.746.	NMR	

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<b>Reqmt. No.</b>	<b>Enforceable Requirement</b>	<b>Requirement Paraphrase (For Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Reference Test Method (See Section VIII)</b>
EU 2. 23	40 CFR 63.741(i) (9/1/98)	Waterborne coatings are exempt from 40 CFR 63.745(d)-(e), 63.747(d)-(e), 63.749(d) and (h), 63.750(c)-(h) and (k)-(n), 63.752(c) and (f), and 63.753(c) and (e).	NMR	
EU 2. 24	40 CFR 63.741(j) (9/1/98)	Aerospace NESHAP does not apply to rework on antique vehicles.	NMR	
EU 2. 25	40 CFR 63.743(c) (3/27/98)	Requirements for the use of air pollution control device not listed in this subpart.	NMR	
EU 2. 26	40 CFR 63.743(d) (3/27/98)	Facilities may choose to comply with averaging provisions herein rather than individual coating limits in 40 CFR 63.745 and 40 CFR 63.747.	NMR	
EU 2. 27	40 CFR 63.746(a) (9/1/98)	Aerospace NESHAP depainting requirements in 40 CFR 63.746 do not apply to a facility that depaints six or less completed aerospace vehicles in a calendar year.	NMR	
EU 2. 28	40 CFR 63.749(a) (3/27/98)	New and reconstructed affected sources that have an initial startup after the effective date of 40 CFR 63 Subpart GG must comply with the requirements of 40 CFR 63 Subpart GG upon startup.	NMR	
EU 2. 29	40 CFR 63.751(e) (12/8/00)	Boeing must receive permission from the Puget Sound Clean Air Agency before using an alternative monitoring procedure.	NMR	
EU 2. 30	40 CFR 63.751(f) (12/8/00)	Reduction of monitoring data. All emission data shall be converted into units specified in this subpart for reporting purposes. After conversion into units specified in this subpart, the data may be rounded to the same number of significant digits as used in this subpart to specify the emission limit.	NMR	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
<b>(c) ANESHAP Cleaning</b>				
Requirement Nos. EU 2. 31through EU 2. 48 are the Aerospace NESHAP requirements related to the cleaning of aerospace parts and spray equipment.				
EU 2. 31	40 CFR 63.744 Table 1 (9/1/98)	Aqueous cleaners are ≥80 percent water, have flash points > 200°F and are miscible with water. Hydrocarbon based cleaners are mixtures of photochemically reactive hydrocarbons and oxygenated hydrocarbons, have a maximum vapor pressure of 7 mm Hg at 20°C, and contain no HAP.	NMR	
EU 2. 32	40 CFR 63.744(a) (9/1/98)	Must comply with housekeeping measures for cleaning operations unless using solvents that are identified in Table 1 of 40 CFR 63.744 as aqueous cleaners or hydrocarbon cleaners, or that meet the 40 CFR 63.741(f) de minimis levels.	NMR	
EU 2. 33	40 CFR 63.744(a)(1) (9/1/98)	Place cleaning solvent-laden cloth, paper, or any other absorbent applicators used for cleaning in bags or other closed containers upon completing their use. Use bags and containers of such design so as to contain the vapors of the cleaning solvent. "Completing their use" means when cleaning operation is completed or before leaving for a break or end shift, whichever comes first.	II.A.1(d) Work Practice Inspection	
EU 2. 34	40 CFR 63.744(a)(1) (9/1/98)	Cotton-tipped swabs used for very small cleaning operations are exempt from the requirements of 40 CFR 63.744(a)(1).	NMR	
EU 2. 35	40 CFR 63.744(a)(2) (9/1/98)	Fresh and spent cleaning solvents must be stored in closed containers.	II.A.1(d) Work Practice Inspection	
EU 2. 36	40 CFR 63.744(a)(3) (9/1/98)	Handling and transfer of cleaning solvents must be conducted in a manner as to minimize spills.	NMR	
EU 2. 37	40 CFR 63.744(b) (9/1/98)	Cleaning solvent solutions that contain HAP or VOC below the de minimis levels specified in 40 CFR 63.741(f) are exempt from the requirements in paragraphs (b)(1), (b)(2), and (b)(3).	NMR	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 2. 38	40 CFR 63.744(b)(1) & (2) (9/1/98)	Hand-wipe cleaning solvent must meet the aqueous or hydrocarbon-based composition requirements, or have composite v.p. of 45 mm Hg or less @ 20°C.	II.A.2(f) Aerospace NESHAP Solvent Cleaner Monitoring and Recordkeeping Procedure	40 CFR 63.750(a), 63.750(b)
EU 2. 39	40 CFR 63.744(c) (9/1/98)	Must use a compliant gun cleaning method. Cleaning solvent solutions that contain HAP or VOC below the de minimis levels specified in 40 CFR 63.741(f) are exempt from the requirements in paragraphs (c)(1)-(4).	II.A.1(d) Work Practice Inspection	
EU 2. 40	40 CFR 63.744(d) (9/1/98)	Flush cleaning operations, excluding those in which Table 1 of 40 CFR 63.744 or semi-aqueous cleaning solvents are used; Boeing shall empty the used cleaning solvent each time aerospace parts, assemblies, or components of a coating unit (with the exception of spray guns) are flush cleaned into an enclosed container or collection system that is kept closed when not in use or into a system with equivalent emission control.	NMR	
EU 2. 41	40 CFR 63.744(e) (9/1/98)	<p>The following cleaning operations are exempt from the requirements of 40 CFR 63.744(b) for hand-wipe cleaning:</p> <ul style="list-style-type: none"> <li>(1) Cleaning during the manufacture, assembly, installation, maintenance, or testing of components of breathing oxygen systems that are exposed to the breathing oxygen;</li> <li>(2) Cleaning during manufacture, assembly, installation maintenance or testing of parts, subassemblies, or assemblies that are exposed to strong oxidizers or reducers (e.g., nitrogen tetroxide, liquid oxygen, or hydrazine);</li> <li>(3) Cleaning and surface activation prior to adhesive bonding;</li> <li>(4) Cleaning of electronic parts and assemblies containing electronic parts;</li> <li>(5) Cleaning of aircraft and ground support equipment fluid systems that are exposed to the fluid, including air-to-air heat exchangers and hydraulic fluid system;</li> </ul>	NMR	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
		<p>(6) Cleaning of fuel cells, fuel tanks, and confined spaces;</p> <p>(7) Surface cleaning of solar cells, coated optics, and thermal control surfaces;</p> <p>(8) Cleaning during fabrication, assembly, installation and maintenance of upholstery, curtains, carpet, and other textile materials used in the interior of the aircraft;</p> <p>(9) Cleaning of metallic and nonmetallic materials used in honeycomb cores during the manufacture or maintenance of these cores, and cleaning of the completed cores used in the manufacture of aerospace vehicles or components;</p> <p>(10) Cleaning of aircraft transparencies, polycarbonate, or glass substrates;</p> <p>(11) Cleaning and cleaning solvent usage associated with research and development, quality control, and laboratory testing;</p> <p>(12) Cleaning operations, using nonflammable liquids, conducted within five feet of energized electrical systems. Energized electrical systems means any AC or DC electrical circuit on an assembled aircraft once electrical power is connected, including interior passenger and cargo areas, wheel wells and tail sections; and;</p> <p>(13) Cleaning operations identified as essential uses under the Montreal Protocol for which the Administrator has allocated essential use allowances or exemption in 40 CFR 82.4.</p>		
EU 2. 42	40 CFR 63.750(a) (10/17/00)	Boeing shall demonstrate compliance with solvent composition using manufacturer's data. The data shall identify all components of the cleaning solvent and shall demonstrate that one of the approved composition definitions is met.	NMR	
EU 2. 43	40 CFR 63.750(b) (10/17/00)	Boeing shall follow 40 CFR 63.750(b) to determine the vapor pressure of cleaning solvents.	NMR	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 2. 44	40 CFR 63.752(b)(1) (9/1/98)	Boeing shall record the name, vapor pressure, and documentation showing the organic HAP constituents of each cleaning solvent used for affected cleaning operations at the facility.	II.A.2(f) Aerospace NESHAP Solvent Cleaner Monitoring and Recordkeeping Procedure	
EU 2. 45	40 CFR 63.752(b)(2) (9/1/98)	For complying with hand-wipe cleaner composition requirements specified in 63.744(b)(1), or for semi-aqueous cleaning solvent for flush cleaning, Boeing shall keep records of name, data/calculations, and annual volumes on file.	II.A.2(f) Aerospace NESHAP Solvent Cleaner Monitoring and Recordkeeping Procedure	
EU 2. 46	40 CFR 63.752(b)(3) (9/1/98)	For complying with hand-wipe cleaner vapor pressure limit (not complying with the composition requirements specified in 63.744(b)(1)), Boeing must keep records of name, vapor pressure, data/calculations/test results, and monthly volumes on file for five years (the most recent two years must be kept on site) as required by 40 CFR 63.10(b)(1).	II.A.2(f) Aerospace NESHAP Solvent Cleaner Monitoring and Recordkeeping Procedure	
EU 2. 47	40 CFR 63.752(b)(4) (9/1/98)	For using noncompliant hand-wipe cleaning solvent in exempt cleaning operations specified in 40 CFR 63.744(e), Boeing shall keep records on monthly volumes by operation and a master list of processes on file.	II.A.2(f) Aerospace NESHAP Solvent Cleaner Monitoring and Recordkeeping Procedure	
EU 2. 48	40 CFR 63.752(b)(5) (9/1/98)	Boeing shall keep a record of all leaks from enclosed spray gun cleaners identified pursuant to 63.751(a) that includes the source identification, date leak was discovered and date leak was repaired for each leak found.	II.A.2(d)(i) Enclosed Gun Cleaning Systems	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
<p><b>(d) ANESHAP Coating</b></p> <p>Requirement Nos. EU 2. 49 through EU 2. 56 are the Aerospace NESHAP requirements related to aerospace coating operations. The Aerospace NESHAP requirements only apply to aerospace primer and topcoat application operations as defined in 40 CFR 63.741(c)(2) &amp; (3) and 40 CFR 63.742. Specialty coatings as defined in Appendix A of 40 CFR Part 63 Subpart GG are exempt from the requirements of 40 CFR 63.745 and 752(c). Structures that protrude from the fuselage, including wings and attached components, control surfaces, horizontal stabilizers, vertical fins, wing-to-body fairings, antennae, and landing gear and doors, have special coating requirements due to their flexion, aspect in the airstream, and practical limitations on access for inspection and recoating. Due to these considerations, the coatings applied generally require greater corrosion resistance and enhanced adhesion. Consequently, the coatings applied to these protruding structures and all their integral parts are considered to be a Commercial Exterior Aerodynamic Structural Primer specialty coating and, therefore, exempt from the requirements of 40 CFR 63.745 and 752(c) as allowed by 40 CFR 63.741(f)</p>				
EU 2. 49	40 CFR 63.741(i) (9/1/98)	For exempt waterborne coatings, Boeing shall maintain manufacturer's data on HAP/VOC content and annual purchase records for 5 years.	II.A.2(c) Documentation on File	
EU 2. 50	40 CFR 63.745(a) (12/8/00)	Aerospace equipment that is no longer operational, intended for public display, and not easily capable of being moved is exempt from the requirements of 40 CFR 63.745, EU 2. 51 through EU 2. 55.	NMR	
EU 2. 51	40 CFR 63.745(b) (12/8/00)	Boeing shall conduct handling and transfer of HAP-containing primers and topcoats in such a manner to minimize spills.	NMR	
EU 2. 52	40 CFR 63.745(c) (12/8/00)	Boeing shall limit primer organic HAP/VOC content to 350 g/l or 650 g/l for large commercial aircraft and their components; topcoat organic HAP/VOC content to 420 g/l.	II.A.2(g) Aerospace NESHAP Coating Monitoring and Recordkeeping Procedure	EPA Method 24 (see 40 CFR 60 Appendix A, July 1, 2001), 40 CFR 63.750(c)-(f)

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EU 2. 53	40 CFR 63.745(e) (12/8/00)	Compliance with the organic HAP and VOC content limits specified in 40 CFR 63.745(c)(1) through (c)(4), EU 2. 52, shall be accomplished by using the methods specified in 40 CFR 63.745(e)(1) and (e)(2) either by themselves or in conjunction with one another. (1) Use primers and topcoats (including self-priming topcoats) with HAP and VOC content levels equal to or less than the limits specified in 40 CFR 63.745(c)(1) through (c)(4); or (2) Use the averaging provisions described in 40 CFR 63.743(d), EU 2. 26.	II.A.2(g) Aerospace NESHAP Coating Monitoring and Recordkeeping Procedure	
EU 2. 54	40 CFR 63.745(f)(1), (2) (12/8/00)	Specific primer/topcoat application techniques identified in 40 CFR 63.745(f)(1) are required; must be operated according to company procedures, locally specified operating procedures, or manufacturer's specifications whichever is most stringent. Modified guns must maintain transfer efficiency equivalent to HVLP.	II.A.1(d) Work Practice Inspection	
EU 2. 55	40 CFR 63.745(f)(3) (12/8/00)	Certain situations are exempt from the requirements of 40 CFR 63.745(f)(1), including the use of airbrush equipment, hand-held aerosol cans, touch-up and repair operations and extension on the spray gun to properly reach limited access spaces.	NMR	
EU 2. 56	40 CFR 63.750(i) (10/17/00)	Boeing may apply for alternative application methods for primers and topcoats by following procedures in 40 CFR 63.750(i).	NMR	
<b>(e) ANESHAP Coating Recordkeeping</b>				
Requirement Nos. EU 2. 57 through EU 2. 60 are the Aerospace NESHAP recordkeeping requirements related to aerospace coating operations. These requirements only apply to aerospace primer and topcoat application operations as defined in 40 CFR 63.741(c)(2) & (3) and 40 CFR 63.742.				
EU 2. 57	40 CFR 63.752(c)(1) (9/1/98)	Boeing must keep records of name and VOC content for all primers and topcoats as received and as applied.	II.A.2(g) Aerospace NESHAP Coating Monitoring and Recordkeeping Procedure	

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<b>Reqmt. No.</b>	<b>Enforceable Requirement</b>	<b>Requirement Paraphrase (For Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Reference Test Method (See Section VIII)</b>
EU 2. 58	40 CFR 63.752(c)(2) (9/1/98)	For compliant coatings, Boeing must keep records on organic HAP and VOC contents, as applied, data/calculations or Method 24 used to determine them, and monthly usage.	II.A.2(g) Aerospace NESHAP Coating Monitoring and Recordkeeping Procedure	
EU 2. 59	40 CFR 63.752(c)(3) (9/1/98)	For low-HAP/VOC uncontrolled primers as applied: (<=250 g/L HAP less water as applied) and VOC (<=250 g/L VOC less water & exempt solvents); site must keep annual purchase records, and data/calculations or Method 24 used to determine organic HAP content on file.	II.A.2(g) Aerospace NESHAP Coating Monitoring and Recordkeeping Procedure	
EU 2. 60	40 CFR 63.752(c)(4) (9/1/98)	For primers and topcoats complying with the organic HAP/VOC content level by averaging, site must keep monthly volume-weighted average masses of organic HAP/VOC emitted per unit volume of coating as applied as determined by procedures in 40 CFR 63.750(d) and (f), and all data, calculations, and test results used to determine these values.	II.A.2(g) Aerospace NESHAP Coating Monitoring and Recordkeeping Procedure	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
<p><b>(f) ANESHAP Primer &amp; Topcoat</b></p> <p>Requirement Nos. EU 2. 61 through EU 2. 74 are the Aerospace NESHAP requirements related to aerospace primer and topcoat application operations (as defined in 40 CFR 63.741 and 742) where the primer or topcoat contains an inorganic HAP. These requirements only apply when an aerospace primer and topcoat containing an inorganic HAP is sprayed onto an aerospace part. Coatings that do not contain inorganic HAPs or coatings that are not primers or topcoats as defined in the Aerospace NESHAP are also be sprayed in these booths. Boeing may add other booths as being subject to the inorganic HAP requirements provided that Boeing shall, contemporaneously with making the change, record in a log at Boeing Frederickson a record of the additional booths that are required to comply with the following requirements and the scenario under which they are operating.</p>				
EU 2. 61	40 CFR 63.743(a)(10) (3/27/98)	Boeing shall notify the Administrator and the Puget Sound Clean Air Agency on or before March 1 of each year requirements for (re)construction of booths or hangars, during the prior calendar year, with potential to emit less than 10 tons/yr of an individual inorganic HAP or less than 25 tons/yr of all inorganic HAP combined. Submission of a Notice of Construction and Application for Approval to the Puget Sound Clean Air Agency fulfills the above-mentioned initial notification requirements.	II.A.2(a) Approval by the Puget Sound Clean Air Agency, via NOC/Order of Approval	
EU 2. 62	40 CFR 63.743(b) (3/27/98)	Boeing must develop and implement a startup, shutdown and malfunction plan required for water wash booths and dry particulate filter systems not operated per the manufacturer's instructions. In addition to the information required in 40 CFR 63.6, this plan shall also include the following provisions:  (1) The plan shall specify the operation and maintenance criteria for each air pollution control device or equipment and shall include a standardized checklist to document the operation and maintenance of the requirement;  (2) The plan shall include a systematic procedure for identifying malfunctions and for reporting them immediately to supervisory personnel: and  (3) The plan shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur.	II.A.2(c) Documentation on File	
EU 2. 63	40 CFR 63.743(b) (3/27/98)	Dry particulate filter systems operated per the manufacturer's instructions are exempt from a startup, shutdown and malfunction plan required by 40 CFR 63.6(e)(3).	NMR	

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## I.B.2 Coating, Cleaning, and Depainting Operations

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Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 2. 64	40 CFR 63.745(g)(1) (12/8/00)	Boeing shall apply aerospace primers and topcoats in a booth or hangar with airflow directed downward, onto or across and exhausted through one or more outlets.	II.A.1(c) Facility Inspections	
EU 2. 65	40 CFR 63.745(g)(2) (i)(A) (12/8/00)	For existing booths or hangars where primers or topcoats containing inorganic HAPs are spray applied, the air stream must be exhausted through a dry particulate filter system certified using Method 319 to meet or exceed the efficiency data points in Tables 1 and 2. Alternatively, may choose to comply with 40 CFR 63.745(g)(2)(i)(C), EU 2. 66.	II.A.2(c) Documentation on File	EPA Method 319 (See 40 CFR 63 Appendix A, July 1, 2001)
EU 2. 66	40 CFR 63.745(g)(2)(i)(C) (12/8/00)	For existing booths or hangars where primers or topcoats containing inorganic HAPs are spray applied, the air stream must be exhausted through an air pollution control system that meets or exceeds the efficiency data points in Tables 1 and 2 and is approved by the permitting authority. Alternatively, may choose to comply with 40 CFR 63.745(g)(2)(i)(A), EU 2. 65.	II.A.2(c) Documentation on File	
EU 2. 67	40 CFR 63.745(g)(2) (ii)(A) (12/8/00)	For new booths or hangars where primers or topcoats containing inorganic HAPs are spray applied, the air stream must be exhausted through a dry particulate filter system that is certified using Method 319 to meet or exceed the efficiency data points in Tables 3 and 4. Alternatively, may choose to comply with 40 CFR 63.745(g)(2)(ii)(B), EU 2. 68.	II.A.2(c) Documentation on File	EPA Method 319 (See 40 CFR 63 Appendix A, July 1, 2001)
EU 2. 68	40 CFR 63.745(g)(2) (ii)(B) (12/8/00)	For new booths or hangars where primers or topcoats containing inorganic HAPs are spray applied, the air stream must be exhausted through an air pollution control system that meets or exceeds the efficiency data points in Tables 3 and 4 and is approved by the permitting authority. Alternatively, may choose to comply with 40 CFR 63.745(g)(2)(ii)(A), EU 2. 67.	II.A.2(a) Approval by the Puget Sound Clean Air Agency, via NOC/Order of Approval  II.A.2(c) Documentation on File	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 2. 69	40 CFR 63.745(g)(2)(iv) (12/8/00)	For dry filter system, must maintain in good working order, Boeing must install a differential pressure gauge, continuously monitor the pressure drop across the filter and record once per shift, and take corrective action if outside the limits.	II.A.2(d)(ii) Spray Booths , II.A.2(h) Aerospace NESHAP Pressure Drop Monitoring and Recordkeeping Procedure	
EU 2. 70	40 CFR 63.745(g)(3) (12/8/00)	Boeing must shut down the spray operation if the pressure drop (as recorded pursuant to 63.752(d)(1)) or water flow (as recorded pursuant to 63.752(d)(2)) go outside of the range or if Boeing does not do scheduled maintenance. The operation shall not be resumed until the pressure drop or water flow rate is returned within the specified limit(s).	II.A.2(h) Aerospace NESHAP Pressure Drop Monitoring and Recordkeeping Procedure	
EU 2. 71	40 CFR 63.745(g)(4) (12/8/00)	The requirements of paragraphs (g)(1), EU 2. 64, through (g)(3), EU 2. 70, do not apply to: touchup of scratched surfaces or damaged paint; hole daubing for fasteners; touchup of trimmed edges; coating prior to joining dissimilar metal components; stencil operations performed by brush or air brush; section joining; touchup of bushing and other similar parts; sealant detackifying; painting parts in an area identified in a Title V permit, where the Puget Sound Clean Air Agency has determined that it is not technically feasible to paint the parts in a booth; and, use of hand-held spray can application methods.	NMR	
EU 2. 72	40 CFR 63.750(o) (10/17/00)	When dry filters are used to control inorganic HAP emissions from the booth, the filters must be certified using Method 319.	II.A.2(c) Documentation on File	
EU 2. 73	40 CFR 63.751(c)(1) (12/8/00)	When dry filters are used to control inorganic HAP, while primer or topcoat application operations are occurring, Boeing shall continuously monitor pressure drop across the system and read and record the pressure drop once per shift following the recordkeeping requirements of 40 CFR 63.752(d).	II.A.2(h) Aerospace NESHAP Pressure Drop Monitoring and Recordkeeping Procedure	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 2. 74	40 CFR 63.752(d) (12/8/00)	Boeing shall record pressure drop once each shift. Log shall include limits.	II.A.2(h) Aerospace NESHAP Pressure Drop Monitoring and Recordkeeping Procedure	
<p><b>(g) ANESHAP Waste</b></p> <p>Requirement No. EU 2. 75 is the Aerospace NESHAP requirement related to waste handling operations.</p>				
EU 2. 75	40 CFR 63.748 (9/1/95)	Boeing shall conduct handling and transfer of HAP-containing RCRA wastes in such a manner to minimize spills.	NMR	
<p><b>(h) PS Clean Air Regulations</b></p> <p>Requirement Nos. EU 2. 76 through EU 2. 82 are the Puget Sound Clean Air Agency Regulation I and II requirements for spray coating operations.</p>				
EU 2. 76	Puget Sound Clean Air Agency Reg II: 3.09(a) (12/9/93)	Regulation II: 3.09 applies to operations in which coatings are applied to aerospace components. Aerospace component means the fabricated part, assembly of parts, or completed unit of any aircraft, helicopter, missile, or space vehicle.	NMR	

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Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 2. 77	Puget Sound Clean Air Agency Reg II: 3.09(b) (12/9/93)	<p>Application of the following coatings in excess of the following limits is unlawful:</p> <p>Commercial Aerospace Topcoat: 420 gm VOC/Liter  Military Aerospace Topcoat: 420 gm VOC/Liter  Commercial Aerospace Primer: 350 gm VOC/Liter  Military Aerospace Primer: 350 gm VOC/Liter  Temporary Protective Coating: 250 gm VOC/Liter</p> <p>Commercial Aerospace Topcoat and Primer is defined in Regulation II as BMS 10-11 Type II and BMS 10-11 Type I, respectively. Military Aerospace Topcoat and Primer are defined in Regulation II as the current version of MIL-C-85285 and MIL-P-85582, respectively.</p>	II.A.2(b) VOC Content Monitoring and Recordkeeping Procedure	24
EU 2. 78	Puget Sound Clean Air Agency Reg II: 3.09(c) (12/9/93)	The coatings in Regulation II, 3.09(b) must be applied by HVLP spray equipment (0.1 to 10 psig air pressure for atomization), electrostatic spray equipment, or other acceptable coating application methods listed in Regulation II, 3.09(c), EU 2. 77.	II.A.1(d) Work Practice Inspection	
EU 2. 79	Puget Sound Clean Air Agency Reg II: 3.09(d) (12/9/93)	Boeing must collect and minimize the evaporation of VOC containing materials used for cleanup of spray equipment, including paint lines. VOC-containing cleanup material for spray equipment must be stored in closed containers.	II.A.1(d) Work Practice Inspection	
EU 2. 80	Puget Sound Clean Air Agency Reg II: 3.09(e) (12/9/93)	Containers used for the storage or disposal of VOC containing materials shall be kept closed except when being cleaned or when materials are being added, mixed, or removed. Closed containers for solvent rag or paper disposal are required. Disposal is required when the cleaning operation is completed or before leaving for a break or end of shift, whichever comes first.	II.A.1(d) Work Practice Inspection	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 2. 81	Puget Sound Clean Air Agency Reg I: 9.16(a) (6/13/91) <i>This requirement will be superseded upon adoption of the 7/12/01 version of Reg I: 9.16 into the SIP</i>	It is unlawful to use spray equipment to apply any VOC-containing material, including any negligibly reactive compound, unless the operation is conducted inside an enclosed spray area that is registered with the Agency and incorporates either dry filters or water wash curtains to control the overspray or the use of another technique that has received the prior written approval of the Control Officer. The exhaust from the spray area shall be vented to the atmosphere through a vertical stack or through the use of another technique that has received the prior written approval of the Control Officer.	II.A.1(c) Facility Inspections, II.A.2(c) Documentation on File	
EU 2. 82	Puget Sound Clean Air Agency Reg I: 9.16(b) (6/13/91) <i>This requirement will be superseded upon adoption of the 7/12/01 version of Reg I: 9.16 into the SIP</i>	The provisions of Section 9.16 shall not apply to:  (1) the use of hand-held aerosol cans, (2) touch-up operations, (3) the coating of marine vessels in dry docks, (4) the coating of bridges, water towers, buildings or similar structures, (5) insecticide, pesticide, or fertilizer spray equipment, (6) the coating of items that cannot be reasonably handled in an enclosed spray area, provided the operation has received the prior written approval of the Control Officer.	NMR	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
<p><b>(i) O&amp;M</b></p> <p>Requirement Nos. EU 2. 83 and EU 2. 84 are the Puget Sound Clean Air Agency O&amp;M requirements for operating permit sources.</p>				
EU 2. 83	<p>Puget Sound Clean Air Agency Reg I: 7.09(b) (9/12/96)</p> <p><i>This requirement will be superseded upon adoption of the 9/10/1998 version of Reg I, 7.09(b) into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I, 7.09(b) (9/10/98) (<i>State Only</i>) <i>This requirement shall become federally enforceable upon adoption into the SIP and will replace the 9/12/96 version of Reg I, 7.09(b)</i></p>	Boeing shall develop and implement an O&M plan to assure continuous compliance with Puget Sound Clean Air Agency Regulations I, II, and III.	<p>II.B Operation and Maintenance (O&amp;M) Plan Requirements.</p> <p>This monitoring method supersedes the monitoring method for this requirement listed in I.A.11</p>	
EU 2. 84	Puget Sound Clean Air Agency Reg I: 9.20(a) (6/9/88)	All equipment must be maintained in good working order that has received an NOC Order of Approval.	<p>II.A.2(d)(ii) Spray Booths</p> <p>II.A.1(c) Facility Inspections</p>	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
<p><b>(j) Alternative Compliance</b></p> <p>Requirement No. EU 2. 85 is the NOC 7746 permit condition that establishes an alternative means of compliance with PSCAA Regulation II, Section 3.09(b) (12/93) for the use of Temporary Protective Coating (TPC) for touch-up operations at the Boeing Frederickson site.</p>				
EU 2. 85	Order of Approval No. 7746 Condition #3 (5/5/99)	Limit the use of Aerosol Temporary Protective Coating (TPC) to touch-up operations at the Boeing Frederickson site.	II.A.1(c) Facility Inspections	
<p><b>(k) Maintain equipment</b></p> <p>Requirement No. EU 2. 86 is the RCW requirement to maintain order of approval equipment in good working order.</p>				
EU 2. 86	RCW 70.94.152(7) 1996 (State Only)	Maintain equipment that has received an Order of Approval in good working order	II.A.2(d)(ii) Spray Booths  II.A.1(c) Facility Inspections	
<p><b>(l) Adoption of 40 CFR Part 63</b></p> <p>Requirement No. EU 2. 87 is the Puget Sound Clean Air Agency adoption of 40 CFR Part 61 and 63.</p>				
EU 2. 87	Puget Sound Clean Air Agency Reg III: 2:02 (9/10/98)	Adopts 40 CFR 63 by reference and those requirements are listed elsewhere in this permit.	NMR	
<p><b>(m) General spray coating requirements</b></p> <p>Requirement Nos. EU 2. 88 through EU 2. 90 are the Puget Sound Clean Air Agency Regulation I requirements for spray coating operations.</p>				

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 2. 88	<p>Puget Sound Clean Air Agency Reg I: 9.16(b) (7/12/01) (State Only)</p> <p>This requirement will become federally enforceable upon adoption into the SIP and will replace the 6/13/91 version of Reg. 1. 9.16</p>	<p>The following activities are exempt from the provisions of Reg I: 9.16(c) and (d):</p> <ol style="list-style-type: none"> <li>1) Application of architectural or maintenance coatings to stationary structures.</li> <li>2) Aerospace coating operations subject to 40 CFR Part 63 Subpart GG, including all activities and materials listed in 40 CFR 63.741(f).</li> <li>3) Use of HVLP guns in certain situations described in Reg I: 9.16(b)(3)(A) through (E).</li> <li>4) Use of air brush spray equipment with 0.5 to 2.0 CFM airflow and 2 fluid ounce or less cup capacity.</li> <li>5) Use of hand-held aerosol spray cans with 1 quart or less capacity.</li> <li>6) Indoor application of automotive undercoating materials using organic solvents with flash points in excess of 100°F.</li> </ol>	NMR	
EU 2. 89	<p>Puget Sound Clean Air Agency Reg I: 9.16(c) (7/12/01) (State Only)</p> <p>This requirement will become federally enforceable upon adoption into the SIP and will replace the 6/13/91 version of Reg. 1. 9.16</p>	<p>General Requirements for Indoor Spray-Coating Operations. It shall be unlawful for any person subject to the provisions of Reg I, Section 9.16 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.</p>	<p>II.A.1(c) Facility Inspections</p> <p>II.A.1(d) Work Practice Inspection</p>	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 2. 90	<p>Puget Sound Clean Air Agency Reg I: 9.16(d) (7/12/01) (State Only)</p> <p>This requirement will become federally enforceable upon adoption into the SIP and will replace the 6/13/91 version of Reg. 1. 9.16</p>	<p>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:</p> <ol style="list-style-type: none"> <li>(1) Enclosures and curtailment during high winds; and</li> <li>(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.</li> </ol>	<p>II.A.1(c) Facility Inspections</p> <p>II.A.1(d) Work Practice Inspection</p>	

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Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
<b>(n) Motor vehicles</b>				
Requirement Nos. EU 2. 91 through EU 2.96 are the Puget Sound Clean Air Agency requirements that apply to motor vehicle and mobile equipment coating operations. Motor vehicle and mobile equipment coating operations are not normally conducted in the spray coating units used in aerospace component coating operations.				
EU 2. 91	Puget Sound Clean Air Agency Reg. II:3.04(a) & (b), (12/9/93)	Motor vehicle and mobile equipment coating VOC content must not exceed the limits in Reg II 3.04(a) and (b).	II.A.1(d) Work Practice Inspection II.A.2(b) VOC Content Monitoring and Recordkeeping Procedure	
EU 2. 92	Puget Sound Clean Air Agency Reg. II:3.04(c) (12/9/93)	Motor vehicle and mobile equipment specialty coating VOC content must not exceed 840 g/L.	II.A.1(d) Work Practice Inspection II.A.2(b) VOC Content Monitoring and Recordkeeping Procedure	
EU 2. 93	Puget Sound Clean Air Agency Reg. II:3.04(d) (12/9/93)	VOC content of coating must be displayed on container or available on file for inspection.	II.A.2(c) Documentation on File	
EU 2. 94	Puget Sound Clean Air Agency Reg. II:3.04(e) (12/9/93)	HVLP (0.1 to 10 psig air pressure for atomization), electrostatic, or other acceptable coating application method must be employed.	II.A.1(d) Work Practice Inspection	
EU 2. 95	Puget Sound Clean Air Agency Reg. II:3.04(f) (12/9/93)	Boeing must collect and minimize the evaporation of VOC-containing materials used for cleanup of spray equipment, including paint lines. VOC containing cleanup material for spray equipment collected in closed containers.	II.A.1(d) Work Practice Inspection	
EU 2. 96	Puget Sound Clean Air Agency Reg. II:3.04(g) (12/9/93)	VOC containing material must be stored in closed containers and disposed of properly.	II.A.1(d) Work Practice Inspection	

NMR = No Monitoring Required -- Monitoring is not required; however, if a noncompliant situation is observed, Boeing will initiate appropriate corrective action.

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**EXEMPTIONS, EXTENSIONS AND DETERMINATIONS GRANTED BY AGENCIES:**

<u>Source</u>	<u>Description</u>
1. Puget Sound Clean Air Agency	Manufacturer's supplied data is sufficient to demonstrate compliance with the solvent composition requirements in the Aerospace NESHAP. Letter dated January 15, 1998, N. J. Shulman to The Boeing Company. See Attachment 1.
2. Puget Sound Clean Air Agency	If Boeing observes problems for which there are no monitoring requirements under 40 CFR subpart GG and corrects those problems within 24 hours, PSCAA will consider the facility in compliance with 40 CFR 63.744(a) and the problem does not have to be reported as a deviation. Letter dated November 30, 1999, J.L. Nolan to R. Bennett, Plant 2 Draft Air Operating Permit Monitoring, Maintenance and Recordkeeping Requirements. See Attachment 2
3. Puget Sound Clean Air Agency	Approval of the format of the Semiannual Compliance Report submitted per 40 CFR 63.753(b)-(e). Letter dated September 21, 1999, J. M. Willenberg to E. J. Cierbiej, Puget Sound Clean Air Agency, Review and Comment on Boeing's Draft Semiannual Compliance Report. See Attachment 3.
4. US EPA	Preval systems are aerosol cans and are not subject to 40 CFR 63 Subpart GG. Letter dated October 14, 1998, D. E. Hardesty to J. M. Willenberg, Preval Spray Units Applicability to the Aerospace NESHAP. See Attachment 4.
5. Puget Sound Clean Air Agency	Aerospace NESHAP requirements for coatings with inorganic HAPs do not apply to coatings with inorganic HAP concentrations less than 0.1% for carcinogens and 1.0% for non-carcinogens. Letter dated February 19, 1999, J. M. Willenberg to The Boeing Company, Boeing Commercial Airplane Group Aerospace NESHAP Paint Booth Requirements. See Attachment 5.
6. US EPA	Aerospace NESHAP requirements for coatings with inorganic HAPs do not apply to coatings with inorganic HAP concentrations less than 0.1% for carcinogens and 1.0% for non-carcinogens. Letter dated April 2, 1999, B. Thie to The Boeing Company, Aerospace Rule Interpretation. See Attachment 6.

<u>Source</u>	<u>Description</u>
7. Puget Sound Clean Air Agency	Construction permit is required when a new control technology is implemented at a paint booth or when changes result in an increase in emissions. Letter dated January 9, 1998, J. M. Willenberg to The Boeing Company, Notice of Construction (NOC) Requirements for Paint Spray Booths. See Attachment 7.
8. Puget Sound Clean Air Agency	Regulation III, Section 3.05 does not apply to cleaning equipment used exclusively to clean spray guns or nonmetal parts. Letter dated May 8, 1995, D. S. Kircher to H. Kimball, Rule Applicability for Cold Solvent Cleaners. See Attachment 8.
9. Puget Sound Clean Air Agency	Mobile equipment under Puget Sound Clean Air Agency Regulation II Section 3.04 is intended to mean equipment that is licensed or likely to be licensed to operate on a public roadway. Letter dated January 30, 2001, J.M. Willenberg, Puget Sound Clean Air Agency to E. Cierebiej, The Boeing Company. See Attachment 9.
10. Puget Sound Clean Air Agency	Spray coating operation that cannot be reasonably handled in an enclosed spray area as required by Regulation I, Section 9.16(b)(6). Letter dated February 27, 1996, J. M. Willenberg to J.E. Ramos, The Boeing Company, Approval of Exemption Request for Adhesive Coating Operation in the 24-50 Building. See Attachment 10.
11. Puget Sound Clean Air Agency	“New Source” Requirements for Spray Gun Cleaning Operations. Letter dated January 18, 2002, Jay M Willenberg to Robin Bennett, the Boeing Company. See Attachment 11.
12. US EPA	Exception: Any waterborne coating for which the manufacturer's supplied data demonstrate that organic HAP and VOC contents are less than or equal to the organic HAP and VOC content limits for its coating type, as specified in 40 63.745(c) and 63.747(c), is exempt from the following requirements of this subpart: 40 CFR 63.745(d)-(e), 63.747(d)-(e), 63.749(d) and (h), 63.750(c)-(h) and (k)-(m), 63.752(c) and (f), and 63.753(c) and (e). [40 CFR 63.741(i)]
13. Puget Sound Clean Air Agency	Small containers with a capacity of two gallons or less containing acetone are exempt from Puget Sound Clean Air Agency Regulation III Section 3.05 and WAC 173-460-060(5). Letter dated August 10, 1999, D. S. Kircher to The

Boeing Company, Small Container Used for Immersion Cleaning with Acetone. See Attachment 14.

14. Puget Sound Clean Air Agency Hand-wipe cleaning operations (Aerospace NESHAP 40 CFR Part 63 Subpart GG) where wiping, scrubbing, mopping or other hand actions are used are specifically not included as "flush cleaning." Letter dated August 1, 1996, A. C. Lee to C. Morris, Airplane Cleaning Operations Boeing Everett Facility. See Attachment 15.

### 3. NSPS - Fuel Burning Equipment

**DESCRIPTION:** *This section includes all activities and equipment associated with fuel burning devices. These operations include combustion of natural gas in boilers subject to the New Source Performance Standards (Subpart Dc).*

*For the purpose of defining an "emission unit" in this permit, each boiler listed below is considered a separate emission unit.*

<i>Bldg.</i>	<i>Col./Dr.</i>	<i>MSS/ID#</i>	<i>Order of Approval #</i>	<i>Install Date</i>	<i>Source Description</i>
24-40	Central Plant	58919	4382	1992	Boiler #2, 27 MMBtu/hr, gas fired
24-40	Central Plant l	58920	4382	1992	Boiler #1, 27 MMBtu/hr, gas fired
24-40	Central Plant	62026	4658	1993	Boiler #3, 27 MMBtu/hr, gas fired

*Data in italics are for information only and are not enforceable conditions of this permit.*

### COMPLIANCE REQUIREMENTS:

<b>Reqmt. No.</b>	<b>Enforceable Requirement</b>	<b>Requirement Paraphrase (For Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Reference Test Method (See Section VIII)</b>
(a) Requirement Nos. EU 3.1 through EU 3.19 are the General Provisions for the Standards of Performance for New Stationary Sources (40 CFR 63 Subpart A).				
EU 3.1	40 CFR 60.1(a) (10/8/97)	40 CFR Part 60 applies to any stationary source which contain an affected facility, the construction or modification of which is commenced after the date of publication in Part 60 of any standard applicable to the facility.	NMR	
EU 3.2	40 CFR 60.4 (4/25/75)	All requests, reports, applications, submittals, and other communications to Puget Sound Clean Air Agency pursuant to 40 CFR Part 60 shall be submitted in duplicate to Region 10, Director, Air and Waste Management Division, U.S. Environmental Protection Agency, 1200 Sixth Avenue, Seattle, WA 98101.	NMR	

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I.B.3 NSPS - Fuel Burning Equipment

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Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 3.3	40 CFR 60.7(a)(4) (2/12/99) 40 CFR 60.48c(a) (10/17/00)	Must notify Puget Sound Clean Air Agency of any physical or operational change to an existing facility, which may increase the emission rate of any air pollutant to which a standard applies unless exempted under 40 CFR 60.14(e), EU 3.12.	NMR	
EU 3.4	40 CFR 60.7(b) (2/12/99)	Must maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.	II.A.2(c) Documentation on File	
EU 3.5	40 CFR 60.7(f) (2/12/99)	Must maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records.	II.A.2(c) Documentation on File	
EU 3.6	40 CFR 60.7(g) (2/12/99)	If notification substantially similar to that in 40 CFR 60.7(a) (EU 3.3) is required by the state or local agency, sending the Administrator a copy of that notification will satisfy the requirement of 40 CFR 60.7(a).	NMR	
EU 3.7	40 CFR 60.7(h) (2/12/99)	Individual subparts of 40 CFR Part 60 may include specific provisions, which clarify or make inapplicable the provisions set forth in 40 CFR 60.7 (EU 3.3 - EU 3.6).	NMR	

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Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 3.8	40 CFR 60.11(d) (2/24/97)	At all times, including periods of startup, shutdown, and malfunction, Boeing shall, to the extent practicable, operate and maintain Boilers #1, #2, and #3, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operations and maintenance procedures, and inspection of the source.	II.A.2(d)(iii) Fuel Burning Equipment	
EU 3.9	40 CFR 60.12 (3/8/74)	Boeing shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable (40 CFR Part 60) standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard, which is based on the concentration of a pollutant in the gases discharged to the atmosphere.	NMR	
EU 3.10	40 CFR 60.14(a) (10/17/00)	Any physical or operational change to an existing facility which results in an increase in the emission rate to the atmosphere of any pollutant to which a standard applies shall be considered a modification within the meaning of Section 111 of the Act. Upon modification, an existing facility shall become an affected facility.	NMR	
EU 3.11	40 CFR 60.14(c) (10/17/00)	Addition of an affected facility to a stationary source shall not by itself bring within the applicability of 40 CFR Part 60 any other facility within the source.	NMR	
EU 3.12	40 CFR 60.14(e) (10/17/00)	Examples listed in 40 CFR 60.14(e) shall not be considered modifications under 40 CFR Part 60.	NMR	
EU 3.13	40 CFR 60.14(f) (10/17/00)	Special provisions in an applicable subpart shall supersede this section.	NMR	
EU 3.14	40 CFR 60.14(g) (10/17/00)	Within 180 days of a change subject to 40 CFR 60.14(a), compliance with all applicable standards must be achieved.	NMR	

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EU 3.15	40 CFR 60.15(a) (12/16/75)	An existing facility upon reconstruction becomes an affected facility.	NMR	
EU 3.16	40 CFR 60.15(b) (12/16/75)	Reconstruction means the replacement of components of an existing facility that the fixed capital cost exceeds 50% of the cost required to construct a comparable new facility and it is technologically and economically feasible to meet the applicable standards.	NMR	
EU 3.17	40 CFR 60.15(c) (12/16/75)	Fixed capital cost means the capital needed to provide all the depreciable components.	NMR	
EU 3.18	40 CFR 60.15(d) (12/16/75)	If the fixed capital cost exceeds 50%, the facility must notify the Administrator of the proposed replacement 60 days before construction is commenced.	NMR	
EU 3.19	40 CFR 60.19 (2/12/98)	Reports and notifications required by 40 CFR Part 60 must be submitted according to 40 CFR 60.19.	NMR	
(b) Requirement Nos. EU 3.20 through EU 3.22 are the Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 63 Subpart Dc).				
EU 3.20	40 CFR 60.40c(a) (5/8/96)	40 CFR Part 60 Subpart Dc applies to each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 100 million Btu/hour or less, but greater than or equal to 10 million Btu/hour.	NMR	
EU 3.21	40 CFR 60.48c(g) (10/17/00) See Requirement No. EU 3.31 to EU 3.34	Boeing shall record and maintain records of the amounts of each fuel combusted during each day. {See Requirement No. EU 3.31 to EU 3.34 for alternative monitoring approval }	II.A.2(d)(iv) Fuel Monitoring	
EU 3.22	40 CFR 60.48c(i) (10/17/00)	All required records required by 40 CFR 60 Subpart Dc shall be maintained for a period of two years following the date of such record.	II.A.2(c) Documentation on File	
(c) Requirement Nos. EU 3.23 and EU 3.29 are the Puget Sound Clean Air Agency Washington Department of Ecology requirements.				
EU 3.23	Puget Sound Clean Air Agency Reg I: 9.03 (9/08/1994) <i>This requirement will be superseded</i>	Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour	II.A.2(d)(iii) Fuel Burning Equipment II.A.1(b) Complaint	Ecology Method 9A (See Section VIII)

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	<p><i>upon adoption of the 3/11/99 version of Reg I: 9.03 into the SIP</i></p> <p><i>Puget Sound Clean Air Agency Reg. I: 9.03 (3/11/1999) (State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 9/08/94 version of Reg I: 9.03</i></p> <p><i>WAC 173-400-040(1) (8/20/1993) This requirement will be superseded upon adoption of the 9/15/01 version of WAC 173-400-040(1) into the SIP</i></p> <p><i>WAC 173-400-040(1) (9/15/01) (State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/1993 version of WAC 173-400-040(1)</i></p>		<p>Response</p> <p>II.A.1(c)            Facility Inspections</p> <p>These monitoring methods supersede the monitoring method for this requirement listed in I.A.1</p>	

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Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 3.24	<p>Puget Sound Clean Air Agency Reg I: 9.09(a) (2/10/1994) <i>This requirement will be superseded upon adoption of the 4/9/98 version of Reg I: 9.09 into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I: 9.09 (4/09/1998) (State Only) <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 2/10/94 version of Agency Reg I: 9.09(a)</i></p>	<p>Shall not emit particulate matter in excess of 0.05 gr/dscf corrected to 7% O<sub>2</sub> from fuel burning equipment and combustion sources. (Applies to the equipment that produces hot air, hot water, steam, or other heated fluids by external combustion of fuel, such as boilers and water heaters.)</p>	<p>II.A.2(d)(iii) Fuel Burning Equipment</p> <p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> <p>These monitoring methods supersede the monitoring method for this requirement listed in I.A.3</p>	<p>Puget Sound Clean Air Agency Method 5 (See Section VIII)</p>
EU 3.25	<p>WAC 173-400-050 (3/22/91) <i>This requirement will be superseded upon adoption of the 9/15/01 version of WAC 173-400-050 into the SIP.</i></p> <p>WAC 173-400-050 (9/15/01)(State Only). <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 3/22/93 version of WAC 173-400-050)</i></p>	<p>Shall not emit particulate matter in excess of 0.10 gr/dscf corrected to 7% O<sub>2</sub> from fuel burning equipment and combustion sources. (Applies to the equipment that produces hot air, hot water, steam, or other heated fluids by external combustion of fuel, such as boilers and water heaters.)</p>	<p>II.A.2(d)(iii) Fuel Burning Equipment</p> <p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> <p>These monitoring methods supersede the monitoring method for this requirement listed in I.A.3</p>	<p>EPA Method 5 (See 40 CFR Part 60, Appendix A, July 1, 2001)</p>

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Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 3.26	Puget Sound Clean Air Agency Reg I: 6.11 (9/13/01) State Only	Adopts 40 CFR 60 and Appendices in effect on July 1, 2001.	NMR	
EU 3.27	WAC 173-400-115 (9/15/01) State Only	Adoptions by reference 40 CFR Part 60 and Appendices in effect on February 20, 2001. Exceptions are listed in subsection (1)(d) of WAC 173-400-115.	NMR	
EU 3.28	<p>Puget Sound Clean Air Agency Reg I: 7.09(b) (9/12/96) <i>This requirement will be superseded upon adoption of the 9/10/1998 version of Reg I, Section 7.09(b) into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I, 7.09(b) (9/10/98) (State Only) <i>This requirement shall become federally enforceable upon adoption into the SIP and will replace the 9/12/96 version of Reg I, Section 7.09(b)</i></p>	Develop and implement an O&M plan to assure continuous compliance with Puget Sound Clean Air Agency Regulations I, II, and III.	<p>II.B Operation and Maintenance (O&amp;M) Plan Requirements.</p> <p>This monitoring method supersedes the monitoring method for this requirement listed in I.A.11</p>	
EU 3.29	<p>Puget Sound Clean Air Agency Reg I: 9.20(a) (6/9/88)</p> <p>RCW 70.94.152(7) 1996 (State only)</p>	Maintain equipment in good working order that has received an NOC Order of Approval.	<p>II.A.2(d)(iii) Fuel Burning Equipment</p> <p>II.A.1(c) Facility Inspections</p>	
(d) Requirement Nos. EU 3.30 through EU 3.32 are the Order of Approval No. 7438 conditions that apply to the boilers, MSS# 58919 and 58920, in Building 24-40.				
EU 3.30	Order of Approval No. 4382 Condition #3 (6/12/01)	The emissions of NOx from these boilers shall not exceed 0.1 lb/MMBtu when firing natural gas.	II.A.2(e) NOx Monitoring	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 3.31	Order of Approval No. 4382 Condition #4 (6/12/01)	Boeing shall keep monthly records of the natural gas fuel use for the two Cleaver Brooks gas fired boilers. Boeing shall comply with all other applicable requirements as stated in 40 CFR 60 Subpart Dc.	II.A.2(d)(iv) Fuel Monitoring	
EU 3.32	Order of Approval No. 4382 Condition #5 (6/12/01)	This Order of Approval No. 4382 modified to reduce fuel usage recordkeeping frequency from daily to monthly for gas fired boilers subject to 40 CFR 60 Subpart Dc, hereby supersedes and cancels Orders of Approval No. 4382 dated April 2, 1992 and May 17, 1995.	NMR	
(e) Requirement Nos. EU 3.33 through EU 3.34 are the NOC approval condition that applies to the boilers, MSS# 62026 in Building 24-40.				
EU 3.33	Order of Approval No. 4658 Condition #3 (6/12/01)	Boeing (Frederickson) shall keep monthly records of the natural gas fuel use for the Cleaver Brooks CB 200-800 gas fired boiler. Boeing (Frederickson) shall comply with all other applicable requirements as stated in 40 CFR 60 Subpart Dc.	II.A.2(d)(iv) Fuel Monitoring	
EU 3.34	Order of Approval No. 4658 Condition #4 (6/12/01)	This Order of Approval No. 4658 modified to reduce fuel usage recordkeeping frequency from daily to monthly for gas fired boilers subject to 40 CFR 60 Subpart Dc, hereby supersedes and cancels Order of Approval No. 4658 dated September 1, 1992.	NMR	

NMR = No Monitoring Required -- Monitoring is not required; however, if a noncompliant situation is observed, Boeing will initiate appropriate corrective action.

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**DESCRIPTION OF REFERENCE TEST METHODS:**

9 = Visual Determination of the Opacity of Emissions from Stationary

**4. Non NSPS - Fuel Burning Equipment**

**DESCRIPTION:** *This section includes all activities and equipment associated with combustion of natural gas in autoclaves. Fuel burning equipment listed in this section is not subject to the New Source Performance Standards (Subpart Dc).*

*For the purpose of defining an “emission unit” in this permit, each piece of equipment listed below is considered a separate emission unit.*

<i>Bldg.</i>	<i>Col./Dr.</i>	<i>MSS/ID#</i>	<i>Order of Approval #</i>	<i>Install Date</i>	<i>Source Description</i>
<i>24-50</i>	<i>A4, B4</i>	<i>61401</i>	<i>4657</i>	<i>1993</i>	<i>Autoclave, 35.2 MMBtu/hr, gas fired</i>
<i>24-50</i>	<i>A4, B4</i>	<i>61402</i>	<i>4657</i>	<i>1993</i>	<i>Autoclave, 35.2 MMBtu/hr, gas fired</i>
<i>24-50</i>	<i>C4</i>	<i>61403</i>	<i>4657</i>	<i>1993</i>	<i>Autoclave, 15.3 MMBtu/hr, gas fired</i>

*Data in italics are for information only and are not enforceable conditions of this permit.*

**COMPLIANCE REQUIREMENTS:**

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 4.1	<p>Puget Sound Clean Air Agency Reg I: 9.03 (9/08/1994) <i>This requirement will be superseded upon adoption of the 3/11/99 version of Reg I: 9.03 into the SIP</i></p> <p><i>Puget Sound Clean Air Agency Reg. I: 9.03 (3/11/1999) (State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 9/08/94 version of Reg I: 9.03</i></p> <p>WAC 173-400-040(1) (8/20/1993) <i>This requirement will be superseded upon adoption of the 9/15/01 version of WAC 173-400-040(1) into the SIP</i></p> <p>WAC 173-400-040(1) (9/15/01)(State Only). <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/1993 version of WAC 173-400-040(1)</i></p>	<p>Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour</p>	<p>II.A.2(d)(iii) Fuel Burning Equipment</p> <p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> <p>These monitoring methods supersede the monitoring method for this requirement listed in I.A.1.</p>	<p>Ecology Method 9A (See Section VIII)</p>
EU 4.2	<p>Puget Sound Clean Air Agency Reg I: 9.09(a) (2/10/1994) <i>This requirement will be superseded upon adoption of the 4/9/98 version of Reg I: 9.09 into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I: 9.09 (4/09/1998) (State Only) <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 2/10/94 version of Agency Reg I: 9.09(a)</i></p>	<p>Shall not emit particulate matter in excess of 0.05 gr/dscf corrected to 7% O<sub>2</sub></p>	<p>II.A.2(d)(iii) Fuel Burning Equipment</p> <p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> <p>These monitoring methods supersede the monitoring method for this requirement listed in I.A.3.</p>	<p>Puget Sound Clean Air Agency Method 5 (See Section VIII)</p>

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Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 4.3	<p>WAC 173-400-050 (3/22/91) <i>This requirement will be superseded upon adoption of the 9/15/01 version of WAC 173-400-050 into the SIP.</i></p> <p>WAC 173-400-050 (9/15/01)(<i>State Only</i>). <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 3/22/93 version of WAC 173-400-050)</i></p>	<p>Shall not emit particulate matter in excess of 0.10 gr/dscf corrected to 7% O<sub>2</sub></p>	<p>II.A.2(d)(iii) Fuel Burning Equipment</p> <p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> <p>These monitoring methods supersede the monitoring method for this requirement listed in I.A.3</p>	<p>EPA Method 5 (See 40 CFR Part 60, Appendix A, July 1, 2001)</p>
EU 4.4	<p>Puget Sound Clean Air Agency Reg I: 7.09(b) (9/12/96) <i>This requirement will be superseded upon adoption of the 9/10/1998 version of Reg I, Section 7.09(b) into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I, 7.09(b) (9/10/98) (<i>State Only</i>) <i>This requirement shall become federally enforceable upon adoption into the SIP and will replace the 9/12/96 version of Reg I, Section 7.09(b)</i></p>	<p>Develop and implement an O&amp;M plan to assure continuous compliance with Puget Sound Clean Air Agency Regulations I, II, and III.</p>	<p>II.B Operation and Maintenance (O&amp;M) Plan Requirements.</p> <p>This monitoring method supersedes the monitoring method for this requirement listed in I.A.11</p>	
EU 4.5	<p>Puget Sound Clean Air Agency Reg I: 9.20(a) (6/9/88)</p> <p>RCW 70.94.152(7) (1996) (State only)</p>	<p>Maintain equipment in good working order that has received an NOC Order of Approval.</p>	<p>II.A.2(d)(iii) Fuel Burning Equipment</p> <p>II.A.1(c) Facility Inspections</p>	

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## I.B.5 Cyclones, Baghouses, and Other Particulate Control Operations

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**5. Cyclones, Baghouses, and Other Particulate Control Operations****DESCRIPTION:**

*This section includes all cyclones, baghouses, and other equipment, which exhaust to the outside and control particulate emissions from the various activities including but not limited to machining of metal or nonmetal parts, housecleaning, and salt bath operations. For the purpose of defining an emission unit in this permit, each piece of equipment is considered a separate emission unit.*

<b>Bldg.</b>	<b>Col./Dr.</b>	<b>MSS/ ID#</b>	<b>Order Approval #</b>	<b>Install Date</b>	<b>Source Description</b>	<b>Rated at 2000 cfm or less</b>
24-50	O/S East Side	62075	4853	1993	Baghouse	Yes
24-50	O/S East Side	62076	4853	1993	Baghouse	Yes
24-50	O/S East Side	62077	4853	1993	Baghouse	Yes
24-50	O/S East Side	62078	4853	1993	Baghouse	Yes
24-50	O/S East Side	62079	4853	1993	Baghouse	Yes
24-50	O/S East Side	62080	4853	1993	Baghouse	Yes
24-50	O/S East Side	62081	4853	1993	Baghouse	Yes
24-50	O/S East Side	62082	4853	1993	Baghouse	Yes
24-50	O/S West Side	62083	4853	1993	Baghouse	Yes
24-50	O/S West Side	62084	4853	1993	Baghouse	Yes
24-50	O/S West Side	62085	4853	1993	Baghouse	Yes
24-50	O/S East Side	62086	4853	1993	Baghouse	Yes
24-50	A4.3 O/S	4473	4736	1992	Dust Collector	No
24-60	C-E/1 O/S	59176	3909	1992	Baghouse	No
24-60	D.9/1	59177	3909	1992	Baghouse	No
24-60	C-E/1 O/S	59179	3909	1992	Baghouse	No
24-60	C-E/1 O/S	59181	3909	1992	Baghouse	No
24-60	E.9/1	59183	3909	1992	Baghouse	No
24-60	C-E/1 O/S	59186	3909	1992	Baghouse	No
24-60	C-E/1 O/S	59188	3909	1992	Baghouse	No

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<i>Bldg.</i>	<i>Col./Dr.</i>	<i>MSS/ ID#</i>	<i>Order Approval #</i>	<i>Install Date</i>	<i>Source Description</i>	<i>Rated at 2000 cfm or less</i>
24-60	G.9/1	59189	3909	1992	Baghouse	No
24-60	J2	59199	4682	1993	Baghouse	No
24-60	Col K2	59201	3909	1992	Baghouse	No
24-60	Col K2	59204	3909	1992	Baghouse	No
24-60	D.3/8	59206	3909	1992	Baghouse	No
24-60	C8	59217	3909	1992	Baghouse	No
24-60	M/N 2.3	4457	3909	1992	Baghouse	No
24-60	O/S L7.5, 7.3	59247	3909	1992	Baghouse	No
24-60	O/S L7.5, 7.3	59248	3909	1992	Baghouse	No
24-60	O/S L7.5, 7.3	59249	3909	1992	Baghouse	No
24-60	O/S L7.5, 7.3	59250	3909	1992	Baghouse	No
24-60	E 5/7	60169	3909	1992	Baghouse	Yes
24-60	W Of A3	60730	3909	1992	Baghouse	No
24-60	W Of A3	60731	3909	1992	Baghouse	No
24-60	W Of A3	60732	3909	1992	Baghouse	No
24-60	O/S G-H.1	13435	7466	1998	Baghouse	No
24-60	O/S C.5/8	13437	7467	1998	Baghouse	No
24-60	O/S K2	59192	3909	1992	Baghouse/Cyclone	No
24-60	O/S K2	59196	3909	1992	Baghouse/Cyclone	No
24-60	O/S K2	59198	3909	1992	Baghouse/Cyclone	No
24-60	O/S B.9-D.1/8	59207	3909	1992	Baghouse/Cyclone	No
24-60	O/S B.9-D.1/8	59209	3909	1992	Baghouse/Cyclone	No
24-60	O/S B.9-D.1/8	59211	3909	1992	Baghouse/Cyclone	No
24-60	O/S B.9-D.1/8	59213	3909	1992	Baghouse/Cyclone	No

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<i>Bldg.</i>	<i>Col./Dr.</i>	<i>MSS/ ID#</i>	<i>Order Approval #</i>	<i>Install Date</i>	<i>Source Description</i>	<i>Rated at 2000 cfm or less</i>
24-60	<i>O/S B.9-D.1/8</i>	<i>59215</i>	<i>3909</i>	<i>1992</i>	<i>Baghouse/Cyclone</i>	<i>No</i>
24-60	<i>O/S B.9-D.1/8</i>	<i>59220</i>	<i>3909</i>	<i>1992</i>	<i>Baghouse/Cyclone</i>	<i>No</i>
24-60	<i>West Of A3</i>	<i>60723</i>	<i>3909</i>	<i>1992</i>	<i>Baghouse/Cyclone</i>	<i>No</i>
24-60	<i>West Of A3</i>	<i>60727</i>	<i>3909</i>	<i>1992</i>	<i>Baghouse/Cyclone</i>	<i>No</i>
24-60	<i>Salt Tank</i>	<i>4458</i>	<i>4681</i>	<i>1993</i>	<i>Wet Particulate Scrubber</i>	<i>No</i>
24-60	<i>C5/1</i>	<i>59166</i>	<i>3909</i>	<i>1992</i>	<i>Baghouse</i>	<i>No</i>
24-60	<i>O/S, C-E/1</i>	<i>59157</i>	<i>3909</i>	<i>1992</i>	<i>Baghouse</i>	<i>No</i>
24-60	<i>O/S, C-E/1</i>	<i>59162</i>	<i>3909</i>	<i>1992</i>	<i>Baghouse</i>	<i>No</i>
24-60	<i>O/S, C-E/1</i>	<i>59170</i>	<i>3909</i>	<i>1992</i>	<i>Baghouse</i>	<i>No</i>
24-60	<i>O/S, C-E/1</i>	<i>59164</i>	<i>3909</i>	<i>1992</i>	<i>Baghouse</i>	<i>No</i>
24-60	<i>O/S, C-E/1</i>	<i>59173</i>	<i>3909</i>	<i>1992</i>	<i>Baghouse</i>	<i>No</i>
24-60	<i>O/S, C-E/1</i>	<i>59174</i>	<i>3909</i>	<i>1992</i>	<i>Baghouse</i>	<i>No</i>
24-60	<i>B.8/1</i>	<i>59159</i>	<i>3909</i>	<i>1992</i>	<i>Baghouse</i>	<i>No</i>
24-60	<i>D.1/1</i>	<i>59168</i>	<i>3909</i>	<i>1992</i>	<i>Baghouse</i>	<i>No</i>

*Data in italics are for information only and are not enforceable conditions of this permit.*

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**COMPLIANCE REQUIREMENTS:**

## EMISSION UNIT SPECIFIC REQUIREMENTS

Expiration Date: June 20, 2002

## I.B.5 Cyclones, Baghouses, and Other Particulate Control Operations

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Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
(a) Requirement Nos. EU 5.1 through EU 5.5 are the Puget Sound Clean Air Agency requirements for operating permit sources.				
EU 5.1	<p>Puget Sound Clean Air Agency Reg I, 9.03 (9/08/1994) <i>This requirement will be superseded upon adoption of the 3/11/99 version of Reg I, 9.03 into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg. I, 9.03 (3/11/1999) (<i>State Only</i>). <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 9/08/94 version of Reg I, 9.03</i></p> <p>WAC 173-400-040(1) (8/20/1993) <i>This requirement will be superseded upon adoption of the 9/15/01 version of WAC 173-400-040(1) into the SIP</i></p> <p>WAC 173-400-040(1) (9/15/01)(<i>State Only</i>). <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/1993 version of WAC 173-400-040(1)</i></p>	Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour	<p>II.A.2(d)(v) Cyclones, Baghouses, and Abrasive Blast Booths</p> <p>II.A.2(d)(vii) Wet Particulate Scrubber</p> <p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> <p>These monitoring methods supersede the monitoring method for this requirement listed in I.A.1</p>	Ecology Method 9A (See Section VIII)

## EMISSION UNIT SPECIFIC REQUIREMENTS

Expiration Date: June 20, 2002

## I.B.5 Cyclones, Baghouses, and Other Particulate Control Operations

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Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 5.2	<p>Puget Sound Clean Air Agency Reg I, 9.09(a) (2/10/1994) <i>This requirement will be superseded upon adoption of the 4/9/98 version of Reg I, 9.09 into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I, 9.09 (4/09/1998) (State Only) <i>This requirement will become federally enforceable and will be effective in this table upon adoption of the 4/9/1998 version of Reg I, 9.09 into the SIP</i></p> <p>WAC 173-400-060 (8/20/1993) <i>This requirement will be superseded upon adoption of the 9/15/01 version of WAC 173-400-060 upon its adoption into the SIP</i></p> <p>WAC 173-400-060 (9/15/01) (State Only). <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/1993 version of WAC 173-400-060</i></p>	Shall not emit in excess of 0.05gr/dscf from equipment used in a manufacturing process and general process units, uncorrected for excess air	<p>II.A.2(d)(v) Cyclones, Baghouses, and Abrasive Blast Booths</p> <p>II.A.2(d)(vii) Wet Particulate Scrubber</p> <p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> <p>These monitoring methods supersede the monitoring method for this requirement listed in I.A.2</p>	Puget Sound Clean Air Agency Method 5 (See Section VIII)
EU 5.3	<p>Puget Sound Clean Air Agency Reg I: 7.09(b) (9/12/96) <i>This requirement will be superseded upon adoption of the 9/10/1998 version of Reg I, 7.09(b) into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I, 7.09(b) (9/10/98) (State Only) <i>This requirement shall become federally enforceable upon adoption into the SIP and will replace the 9/12/96 version of Reg I, 7.09(b)</i></p>	Develop and implement an Operation and Maintenance Plan to assure continuous compliance with Puget Sound Clean Air Agency Regulations I, II, and III.	<p>II.B Operation and Maintenance (O&amp;M) Plan Requirements.</p> <p>This monitoring method supersedes the monitoring method for this requirement listed in I.A.11</p>	

## EMISSION UNIT SPECIFIC REQUIREMENTS

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<b>Reqmt. No.</b>	<b>Enforceable Requirement</b>	<b>Requirement Paraphrase (For Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Reference Test Method (See Section VIII)</b>
EU 5.4	Puget Sound Clean Air Agency Reg I: 9.20(a) (6/9/88)  RCW 70.94.152(7) 1996 State Only	Maintain equipment in good working order that has received an NOC Order of Approval.	II.A.2(d)(v) Cyclones, Baghouses, and Abrasive Blast Booths (Except for MSS #4458, Order of Approval No. 4681)  II.A.1(c) Facility Inspections	
EU 5.5	Puget Sound Clean Air Agency Reg I: 9.20(a) (6/9/88)  RCW 70.94.152(7) 1996 State Only	Maintain equipment in good working order that has received an NOC Order of Approval.	II.A.2(d)(vii) Wet Particulate Scrubber  (For MSS #4458 only, Order of Approval No. 4681)  II.A.1(c) Facility Inspections	
(b) Requirement Nos. EU 5.6 and EU 5.7 are the Order of Approval No. 7466 conditions that apply to the Spar Mill Baghouse MSS/ID# 13435 in Bldg. 24-60.				
EU 5.6	Order of Approval No. 7466, Condition #3. (6/23/99)	A gauge to measure the pressure drop across the bag separator will be installed and maintained. Within 90 days after beginning operation, the acceptable range for the gauge shall be clearly marked on or near the gauge.	II.A.2(d)(v) Cyclones, Baghouses, and Abrasive Blast Booths	
EU 5.7	Order of Approval No. 7466, Condition #4. (6/23/99)	Once each month, determine if the pressure drop across the exhaust filters is in the acceptable range. If the pressure drop is not within the acceptable range, take corrective action as specified in the operations and maintenance plan.	II.A.2(d)(v) Cyclones, Baghouses, and Abrasive Blast Booths	

## EMISSION UNIT SPECIFIC REQUIREMENTS

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## I.B.5 Cyclones, Baghouses, and Other Particulate Control Operations

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<b>Reqmt. No.</b>	<b>Enforceable Requirement</b>	<b>Requirement Paraphrase</b> (For Information Only)	<b>Monitoring, Maintenance &amp; Recordkeeping Method</b> (See Section II)	<b>Reference Test Method</b> (See Section VIII)
(c) Requirement Nos. EU 5.8 and EU 5.9 are the Order of Approval No. 7467 conditions that apply to the Spar Mill Baghouse MSS/ID# 13437 in Bldg. 24-60.				
EU 5.8	Order of Approval No. 7467, Condition #3 (6/23/99)	Boeing shall install and maintain a differential pressure transmitter or gauge to measure the pressure drop across the new dry filter particulate control system. The pressure drop shall be displayed on a readout or the gauge. Within 90 days after beginning operations, the acceptable pressure drop range shall be clearly marked on or nearby the readout or gauge.	II.A.2(d)(v) Cyclones, Baghouses, and Abrasive Blast Booths	
EU 5.9	Order of Approval No. 7467, Condition #4 (6/23/99)	Once each month, determine if the pressure drop across the exhaust filters is in the acceptable range. If the pressure drop is not within the acceptable range, take corrective action as specified in the operations and maintenance plan.	II.B Operation and Maintenance (O&M) Plan Requirements.	

## 6. Abrasive Blasting Operations

**DESCRIPTION:**

*This section includes all activities and equipment associated with abrasive blasting operations on production parts, tooling, or equipment. For the purpose of defining an emission unit in this permit, each piece of equipment is considered a separate emission unit.*

<i>Bldg.</i>	<i>Location</i>	<i>MSS/ID#</i>	<i>Order of Approval #</i>	<i>Install Date</i>	<i>Source Description</i>
24-60	M7	64932	4680	1992	Dust Collector

*Data in italics are for information only and are not enforceable conditions of this permit.*

### COMPLIANCE REQUIREMENTS:

<b>Reqmt. No.</b>	<b>Enforceable Requirement</b>	<b>Requirement Paraphrase (For Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Reference Test Method (See Section VIII)</b>
EU 6.1	<p>Puget Sound Clean Air Agency Reg I: 7.09(b) (9/12/96) <i>This requirement will be superseded upon adoption of the 9/10/1998 version of Reg I, 7.09(b) into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I, 7.09(b) (9/10/98) <i>(State Only)</i> <i>This requirement shall become federally enforceable upon adoption into the SIP and will replace the 9/12/96 version of Reg I, 7.09(b)</i></p>	Develop and implement an Operation and Maintenance Plan to assure continuous compliance with Puget Sound Clean Air Agency Regulations I, II, and III.	<p>II.B Operation and Maintenance (O&amp;M) Plan Requirements.</p> <p>This monitoring method supersedes the monitoring method for this requirement listed in I.A.11</p>	
EU 6.2	Puget Sound Clean Air Agency Reg I: 9.20(a) (6/9/88)	Maintain equipment in good working order that has received an NOC Order of Approval.	<p>II.A.2(d)(v) Cyclones, Baghouses, and Abrasive Blast Booths</p> <p>II.A.1(c) Facility Inspections</p>	

<b>Reqmt. No.</b>	<b>Enforceable Requirement</b>	<b>Requirement Paraphrase</b> (For Information Only)	<b>Monitoring, Maintenance &amp; Recordkeeping Method</b> (See Section II)	<b>Reference Test Method</b> (See Section VIII)
EU 6.3	RCW 70.94.152(7) 1996 (State Only)	Maintain equipment in good working order that has received an Order of Approval.	II.A.2(d)(v) Cyclones, Baghouses, and Abrasive Blast Booths II.A.1(c) Facility Inspections	
EU 6.4	WAC 173-460-060(6)(a) (8/21/98) (State Only)	Abrasive blasting shall be performed inside a booth or hangar designed to capture the blast grit or overspray.	II.A.1(c) Facility Inspections	
EU 6.5	WAC 173-460-060(6)(b) (8/21/98) (State Only)	Outdoor blasting of structures or items too large to be reasonably handled indoors shall employ control measures such as curtailment during windy periods and enclosure of the area being blasted with tarps.	II.A.1(d) Work Practice Inspection	
EU 6.6	WAC 173-460-060(6)(c) (8/21/98) (State Only)	Outdoor blasting shall be performed with either steel shot or an abrasive containing less than one percent by mass which would pass through a No. 200 sieve.	II.A.1(d) Work Practice Inspection	
EU 6.7	WAC 173-460-060(6)(d) (8/21/98) (State Only)	All abrasive blasting with sand shall be performed inside a blasting booth or cabinet.	II.A.1(c) Facility Inspections	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 6.8	<p>Puget Sound Clean Air Agency Reg I, 9.03 (9/08/1994) <i>This requirement will be superseded upon adoption of the 3/11/99 version of Reg I, 9.03 into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg. I, 9.03 (3/11/1999) <i>(State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 9/08/94 version of Reg I, 9.03</i></p> <p>WAC 173-400-040(1) (8/20/1993) <i>This requirement will be superseded upon adoption of the 9/15/01 version of WAC 173-400-040(1) into the SIP</i></p> <p>WAC 173-400-040(1) (9/15/01)<i>(State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/1993 version of WAC 173-400-040(1)</i></p>	Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour	<p>II.A.2(d)(v) Cyclones, Baghouses, and Abrasive Blast Booths</p> <p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> <p>These monitoring methods supersede the monitoring method for this requirement listed in I.A.1</p>	Ecology Method 9A (See Section VIII)

**7. Composite Processing Operations**

**DESCRIPTION:** *This section includes all activities and equipment associated with composite processing operation.*

*Data in italics are for information only and are not enforceable conditions of this permit.*

**COMPLIANCE REQUIREMENTS:**

<b>Reqmt. No.</b>	<b>Enforceable Requirement</b>	<b>Requirement Paraphrase (For Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Reference Test Method (See Section VIII)</b>
EU 7.1	Puget Sound Clean Air Agency Reg I: 7.09(b) (9/12/96) <i>This requirement will be superseded upon adoption of the 9/10/1998 version of Reg I, 7.09(b) into the SIP</i>  Puget Sound Clean Air Agency Reg I, 7.09(b) (9/10/98) <i>(State Only) This requirement shall become federally enforceable upon adoption into the SIP and will replace the 9/12/96 version of Reg I, 7.09(b)</i>	Develop and implement an Operation and Maintenance 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.  These monitoring methods supersede the monitoring method for this requirement listed in I.A.11	

Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 7.2	<p>Puget Sound Clean Air Agency Reg I, 9.03 (9/08/1994) <i>This requirement will be superseded upon adoption of the 3/11/99 version of Reg I, 9.03 into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg. I, 9.03 (3/11/1999) <i>(State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 9/08/94 version of Reg I, 9.03</i></p> <p>WAC 173-400-040(1) (8/20/1993) <i>This requirement will be superseded upon adoption of the 9/15/01 version of WAC 173-400-040(1) into the SIP</i></p> <p>WAC 173-400-040(1) (9/15/01)<i>(State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/1993 version of WAC 173-400-040(1)</i></p>	<p>Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour</p>	<p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> <p>These monitoring methods supersede the monitoring method for this requirement listed in I.A.1</p>	<p>Ecology Method 9A (See Section VIII)</p>

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I.B.7 Composite Processing Operations

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Reqmt. No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section VIII)
EU 7.3	<p>Puget Sound Clean Air Agency Reg I, 9.09(a) (2/10/1994) <i>This requirement will be superseded upon adoption of the 4/9/98 version of Reg I, 9.09 into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I, 9.09 (4/09/1998) (State Only) <i>This requirement will become federally enforceable and will be effective in this table upon adoption of the 4/9/1998 version of Reg I, 9.09 into the SIP</i></p> <p>WAC 173-400-060 (8/20/1993) <i>This requirement will be superseded upon adoption of the 9/15/01 version of WAC 173-400-060 upon its adoption into the SIP</i></p> <p>WAC 173-400-060 (9/15/01) (State Only). <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/1993 version of WAC 173-400-060</i></p>	Shall not emit in excess of 0.05gr/dscf from equipment used in a manufacturing process and general process units, uncorrected for excess air	<p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> <p>These monitoring methods supersede the monitoring method for this requirement listed in I.A.2.</p>	
EU 7.4	Puget Sound Clean Air Agency Reg I: 9.20 (6/9/88)	Maintain equipment in good working order.	<p>II.A.1(c) Facility Inspections</p> <p>This monitoring method supersedes the monitoring method for this requirement listed in I.A.9</p>	

EMISSION UNIT SPECIFIC REQUIREMENTS  
I.B.7 Composite Processing Operations

<b>Reqmt. No.</b>	<b>Enforceable Requirement</b>	<b>Requirement Paraphrase (For Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Reference Test Method (See Section VIII)</b>
EU 7.5	Puget Sound Clean Air Agency Regulation II: 3.08(b) (12/93)	It shall be unlawful to apply polyester resin, vinylester resin, gelcoat, or any other resin unless the operation is conducted inside an enclosed area that is registered with the Agency. The exhaust shall be vented to the atmosphere through a vertical stack. (See EU 7.7 for an alternate means of compliance with requirement for an enclosed area with a vertical stack.) Spray operations require a dry filter to control overspray.	II.A.1(d) Work Practice Inspection	
EU 7.6	Puget Sound Clean Air Agency Regulation II: 3.08(f) (12/93)	Closed containers shall be used for storage or disposal of VOC-containing materials. Such containers shall be kept closed except when being cleaned or when materials are being added, mixed, or removed. Closed containers for solvent rag or paper disposal are required.	II.A.1(d) Work Practice Inspection	

<b>Reqmt. No.</b>	<b>Enforceable Requirement</b>	<b>Requirement Paraphrase (For Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Reference Test Method (See Section VIII)</b>
EU 7.7	Order of Approval No. 7726, Condition (5/28/1999)	<p>As an Alternate Means of Compliance with Reg II: 3.08(b) to conduct non-spray application of products containing styrene in areas other than enclosed vertically exhausted booths Boeing shall</p> <ol style="list-style-type: none"> <li>1. Implement an odor complaint response procedure to handle any incoming odor complaints from the public and shall record such complaints from the public and the action taken to resolve the odor complaint. Boeing shall provide these records to PSAPCA upon request.</li> <li>2. Limit application of products containing styrene outside of a ventilated booth enclosure to brush or other hand-application methods.</li> <li>3. This Order of Approval No. 7726, issued to amend Condition No. 3, hereby supersedes and cancels Order of Approval No. 7726 dated Mar 12, 1999.</li> </ol>	<p>II.A.1(b) Complaint Response</p> <p>II.A.1(d) Work Practice Inspection</p>	

### 8. Drying and Curing Operations

**DESCRIPTION:** *This section includes all activities and equipment associated with drying and curing operations. For the purpose of defining an emission unit in this permit, each piece of equipment is considered a separate emission unit.*

<i>Bldg.</i>	<i>Location</i>	<i>MSS/ID#</i>	<i>Order of Approval #</i>	<i>Install Date</i>	<i>Source Description</i>
24-50	D2	62091	4736	1993	Curing Oven
24-50	A1	62267	4736	1993	Dispatch repair oven

*Data in italics are for information only and are not enforceable conditions of this permit.*

### COMPLIANCE REQUIREMENTS:

<b>Reqmt. No.</b>	<b>Enforceable Requirement</b>	<b>Requirement Paraphrase (For Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>
EU 8.1	<p>Puget Sound Clean Air Agency Reg I: 7.09(b) (9/12/96) <i>This requirement will be superseded upon adoption of the 9/10/1998 version of Reg I, 7.09(b) into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I, 7.09(b) (9/10/98) <i>(State Only) This requirement shall become federally enforceable upon adoption into the SIP and will replace the 9/12/96 version of Reg I, 7.09(b)</i></p>	Develop and implement an Operation and Maintenance Plan to assure continuous compliance with Puget Sound Clean Air Agency Regulations I, II, and III.	<p>II.B Operation and Maintenance (O&amp;M) Plan Requirements.</p> <p>This monitoring method supersedes the monitoring method for this requirement listed in I.A.11</p>
EU 8.2	Puget Sound Clean Air Agency Reg I: 9.20(a) (6/9/88)	Maintain equipment in good working order that has received an NOC Order of Approval.	II.A.1(c) Facility Inspections
EU 8.3	RCW 70.94.152(7) 1996 (State Only)	Maintain equipment in good working order that has received an Order of Approval.	<p>II.B Operation and Maintenance (O&amp;M) Plan Requirements.</p> <p>II.A.1(c) Facility Inspections</p>

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**EXEMPTIONS, EXTENSIONS AND DETERMINATIONS GRANTED BY AGENCIES:**

<u>Source</u>	<u>Description</u>
1. Puget Sound Clean Air Agency	Letter, February 26, 1993, A. Lee to J. Johnston. No record keeping required regarding the operations and maintenance of fume hoods or ovens unless a special condition or other regulatory requirement is imposed upon the specific fume hood or oven operation by the Agency. See Attachment 16.

**9. Wood Furniture**

**DESCRIPTION:** *This section consists of wood furniture manufacturing activities. These activities have been permitted under a Notice of Construction and/or are subject to 40 CFR Part 63 Subpart JJ.*

<i>Bldg.</i>	<i>Col/Dr</i>	<i>MSS/ID#</i>	<i>Order of Approval #</i>	<i>Date Installed</i>	<i>Source Description</i>
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Data in italics are for information only and are not enforceable conditions of this permit.

**APPLICABLE REQUIREMENTS:**

<b>Reqmt. No.</b>	<b>Enforceable Requirement</b>	<b>Requirement Paraphrase (For Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>
EU 9.1	40 CFR 63.800(a) (6/3/97)	Boeing shall maintain purchase or usage records demonstrating that it meets the definition for an incidental wood furniture manufacturer in 40 CFR 63.801, (uses no more than 100 gallons per month of finishing material or adhesives in the manufacture of wood furniture or wood furniture components).	II.A.2(i) Wood furniture manufacture
EU 9.2	Puget Sound Clean Air Agency Reg III: 2:02 (9/13/01) (State Only)  WAC 173-400-075 (9/15/01) (State Only)	Adopts 40 CFR 63 by reference and those requirements are listed elsewhere in this permit.	NMR

### **C. Operations without Specific Applicable Requirements**

**DESCRIPTION:** *This section contains insignificant emission units as defined in WAC 173-401 and other equipment and activities that do not have specific applicable requirements as listed elsewhere in this permit. Insignificant emission units that are categorically exempt under WAC 173-401-532 are not listed in this section. This section includes:*

- Ventilating systems, including fume hoods, not designed to prevent or reduce air contaminant emissions.
- Fuel burning equipment that has a maximum input rate of:
  - (A) less than 0.5 million Btu per hour (0.15 million joules per second) burning waste-derived fuel; or
  - (B) less than 10 million Btu per hour (3 million joules per second) burning natural gas, propane, or butane; or
  - (C) less than 1 million Btu per hour (0.3 million joules per second) burning any other fuel
- Insecticide, pesticide, or fertilizer spray equipment
- Internal combustion engines less than the size thresholds of the proposed United States Environmental Protection Agency (EPA) New Source Performance Standards (NSPS) 40 CFR Part 60 Subpart FF (Stationary Internal Combustion Engines, 44 CFR 43152 7/23/79) or the promulgated EPA NSPS 40 CFR Part 60 Subpart GG (Stationary Gas Turbines)
- Laboratory testing and quality assurance/control testing equipment used exclusively for chemical or physical analysis, teaching, or experimentation, including non-production bench scale research equipment.
- Dryers or ovens used solely to accelerate evaporation
- Routing, turning, carving, cutting, and drilling equipment used for metal, wood, plastics, rubber, leather, or ceramics which does not release air contaminants to the ambient air
- Storage tanks:
  - (A) that do not store substances capable of emitting air contaminants; or
  - (B) with a rated capacity of 1,000 gallons (3,780 liters) or less used for storage of gasoline; or
  - (C) with a rated capacity of less than 10,000 gallons (38,000 liters) used for storage of volatile organic compounds; or
  - (D) with a rated capacity of less than 40,000 gallons (150,000 liters) used for storage of volatile organic compounds with a true vapor pressure less than 0.01 kPa (0.002 psia)
- Sanitary or storm drainage systems

- Welding, oxygen/gaseous fuel cutting, brazing, or soldering equipment, including brazing ovens
- Asphalt roofing and laying equipment (not including manufacturing or storage)
- Restaurants and other retail food-preparing establishments
- Cold solvent cleaners using a solvent with a true vapor pressure less than or equal to 4.2 kPa (0.6 psia)
- Spray painting or blasting equipment used at a temporary location to clean or paint bridges, water towers, buildings, or similar structures
- Any source that has been determined through review by the Control Officer not to warrant a “Notice of Construction and Application for Approval,” due to the minimal amount and nature of air contaminants produced and potential to contribute to air pollution, with special reference to effects on health, economic and social factors, and physical effects on property
- Metal forming (pull-out, tube bending, and hydraulic forming press), metal joining or metal separating operations
- Manufacturing research and development, quality control and product testing operations
- Detail part assembly
- Wipe solvent cleaning for non-aerospace parts
- Aqueous and emulsion cleaning
- Non-styrene composite processing
- Groundwater remediation operations
- Accumulation and collection of hazardous waste other than for aerospace parts manufacture
- Material and waste handling, except as listed elsewhere in this permit
- Chemical mixing
- Curing ovens
- Solvent cleaning of non-aerospace or non-motor vehicle parts
- Spray gun cleaning equipment used for non-aerospace or non-motor vehicle parts
- Small industrial vacuum systems that vent outside
- Touch-up spray, hand-held aerosol can spray, of non-aerospace or non-motorized vehicle parts outside of a booth
- Remote reservoir solvent cleaners

- Miscellaneous abrasive blast units not requiring an Order of Approval
- Paint mixing
- Paint mixing room ventilation
- Hand applied alodine
- Boric Sulfuric Acid Anodize systems
- Equipment used exclusively for surface preparation, passivation, deoxidation, and/or stripping that uses materials containing  $\leq 50$  grams of VOC per liter, or containing exclusively formic acid, acetic acid, phosphoric acid, sulfuric acid,  $\leq 12\%$  hydrochloric acid, alkaline oxidizing agents, hydrogen peroxide, salt solutions, sodium hydroxide, and/or water and associated rinse tanks and waste storage tanks use exclusively to store the solutions drained from this equipment. (This does not include anodizing, hard anodizing, chemical milling, or the stripping of chromium, except sulfuric acid and/or boric acid anodizing with a total bath concentration of  $\leq 20\%$  by weight and using  $\leq 10,000$  amp-hours per day, or phosphoric acid anodizing with a bath concentration of  $\leq 15\%$  by weight of phosphoric acid and using  $\leq 20,000$  am-hours per day.)
- Equipment used exclusively for electrolytic plating (except the use of chromic and/or hydrochloric acid) or electrolytic stripping (except the use of chromic, hydrochloric, nitric, or sulfuric acid) of brass, bronze, copper, iron, tin, zinc, precious metals, and associated rinse tanks and waste storage tanks used exclusively to store the solutions drained from this equipment
- Alodine systems
- Storage tanks not regulated under 40 CFR Part 60 Subpart K, Ka, or Kb
- Steam cleaning
- Liquid storage and transfer operations not requiring an NOC
- Portable coating equipment and pavement strippers used exclusively for the field application of architectural coatings and industrial maintenance coatings to stationary structures and their appurtenances or to pavements and curbs
- Portable control equipment used exclusively for storage tank degassing
- Fire extinguishing equipment
- Gasoline stations with all gasoline storage tanks with a capacity less than or equal to 1000 gallons.
- On site wastewater pretreatment plant that treats rinsewaters that are generated from various chemical treatment processes on site. The pretreatment plant utilizes pH adjustment and metals precipitation processes to treat the wastewaters prior to discharge to the Pierce County Chambers Creek Wastewater Treatment plant.

- Use of products such as sealants, adhesives, resins, fillers, smoothers, leveling compounds, potting compounds, lubricants, greases, oils, coolants and other products without specific applicable requirements.
- Refrigeration units
- Refrigerant recovery and/or recycling units
- Building construction and demolition
- Oil/water separators
- Hand-held sanding equipment

Emission units and activities that are defined as insignificant on the basis of size or production rate in accordance with WAC 173-401-533 are listed below:

Regulatory Citation	Description	IEU Present at the Facility?	
		Yes	No
WAC 173-401-533			
(2)(a)	Operation, loading and unloading of storage tanks and storage vessels, with lids or other appropriate closure and less than two hundred sixty gallon capacity (35 cft), heated only to the minimum extent to avoid solidification if necessary.	X	
(2)(b)	Operation, loading and unloading of storage tanks, not greater than one thousand one hundred gallon capacity, with lids or other appropriate closure, not for use with hazardous air pollutants (HAPs), maximum (max.) vp 550mm Hg.	X	
(2)(c)	Operation, loading and unloading of VOC storage tanks (including gasoline storage tanks), ten thousand gallons capacity or less, with lids or other appropriate closure, vp not greater than 80mm Hg at 21°C.	X	
(2)(d)	Operation, loading and unloading storage of butane, propane, or liquefied petroleum gas (LPG), storage tanks, vessel capacity under forty thousand gallons.	X	
(2)(e)	Combustion source less than five million Btu/hr. exclusively using natural gas, butane, propane, and/or LPG.	X	
(2)(f)	Combustion source, less than five hundred thousand Btu/hr., using any commercial fuel containing less than 0.4% by weight sulfur for coal or less than 1% by weight sulfur for other fuels.	X	
(2)(g)	Combustion source, of less than one million Btu/hr. if using kerosene, No. 1 or No. 2 fuel oil.	X	

Regulatory Citation	Description	IEU Present at the Facility?	
		Yes	No
WAC 173-401-533			
(2)(h)	Combustion source, not greater than five hundred thousand Btu/hr. if burning used oil and not greater than four hundred thousand Btu/hr. if burning waste wood or waste paper.		X
(2)(i)	Welding using not more than one ton per day of welding rod.	X	
(2)(j)	Foundry sand molds, unheated and using binders with less than 0.25% free phenol by sand weight.		X
(2)(k)	"Parylene" coaters using less than five hundred gallons of coating per year.		X
(2)(l)	Printing and silk-screening, using less than two gallon/day of any combination of the following: Inks, coatings, adhesives, fountain solutions, thinners, retarders, or nonaqueous cleaning solutions.		X
(2)(m)	Water cooling towers and ponds, not using chromium-based corrosion inhibitors, not used with barometric jets or condensers, not greater than ten thousand gpm, not in direct contact w/ gaseous or liquid process streams containing regulated air pollutants.	X	
(2)(n)	Combustion turbines, of less than 500 HP.		X
(2)(o)	Batch solvent distillation, not greater than fifty-five gallons batch capacity.	X	
(2)(p)	Municipal and industrial water chlorination facilities of not greater than twenty million gallons per day capacity. The exemption does not apply to waste water treatment.		X
(2)(q)	Surface coating, using less than two gallons per day.	X	
(2)(r)	Space heaters and hot water heaters using natural gas, propane or kerosene and generating less than five million Btu/hr.	X	
(2)(s)(i)	Tanks, vessels, and pumping equipment, with lids or other appropriate closure for storage or dispensing of aqueous solutions of inorganic salts, bases and acids excluding 99% or greater H <sub>2</sub> SO <sub>4</sub> or H <sub>3</sub> PO <sub>4</sub> .	X	
(2)(s)(ii)	Tanks, vessels, and pumping equipment, with lids or other appropriate closure for storage or dispensing of aqueous solutions of inorganic salts, bases and acids excluding 70% or greater HNO <sub>3</sub> .	X	
(2)(s)(iii)	Tanks, vessels, and pumping equipment, with lids or other appropriate closure for storage or dispensing of aqueous solutions of inorganic salts, bases and acids excluding 30% or greater HCl.	X	
(2)(s)(iv)	Tanks, vessels, and pumping equipment, with lids or other appropriate closure for storage or dispensing of aqueous solutions of inorganic salts, bases and acids excluding more than one liquid phase where the top phase is more than one percent VOCs.	X	

Regulatory Citation	Description	IEU Present at the Facility?	
		Yes	No
WAC 173-401-533			
(2)(t)	Equipment used exclusively to pump, load, unload or store high boiling organic material, material with initial boiling point (IBP) not less than 150°C. or vapor pressure (vp) not more than 5mm Hg at 21°C. with lids or other appropriate closure.	X	
(2)(u)	Smokehouses under twenty square feet.		X
(2)(v)	Milling and grinding activities, using paste-form compounds with less than one percent VOCs.	X	
(2)(w)	Rolling, forging, drawing, stamping, shearing, or spinning hot or cold metals.	X	
(2)(x)	Dip coating operations, using materials with less than one percent VOCs.	X	
(2)(y)	Surface coating, aqueous solution or suspension containing less than one percent VOCs.	X	
(2)(z)	Cleaning and stripping activities and equipment, using solutions having less than one percent VOCs by weight. On metallic substrates, acid solutions are not considered for listing as insignificant.	X	
(2)(aa)	Storage and handling of water based lubricants for metal working where the organic content of the lubricant is less than ten percent.	X	
(2)(bb)	Municipal and industrial waste water chlorination facilities of not greater than one million gallons per day capacity.		X

*Data in italics are for information only and are not enforceable conditions of this permit.*

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### COMPLIANCE REQUIREMENTS:

No emission unit specific federally enforceable requirements apply other than generally applicable requirements of the state implementation plan. Generally applicable requirements of the state implementation plan are those federally enforceable requirements that apply universally to all emission units or activities without reference to specific types of emission units or activities. General requirements of Section I.A. apply.

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**INAPPLICABLE REQUIREMENTS:**

The following requirements (1) and (2) do not apply to paint gun cleaners, cleaners with vapor pressure less than or equal to 0.6 psia, or cleaners used exclusively on non-metal parts, per Attachment 8. Remote reservoir cleaners using solvent are not considered regulated cold solvent cleaners.

<u>Requirement</u>	<u>Description and Justification</u>
1) Puget Sound Clean Air Agency Reg. III: 3.05 (8/90)	Solvent metal cleaner rules.
2) WAC 173-460-060(5)(1/94)	Same as Puget Sound Clean Air Agency Reg III: 3.05(a)

**EXEMPTIONS, EXTENSIONS AND DETERMINATIONS GRANTED BY AGENCIES:**

<u>Source</u>	<u>Description</u>
1. Puget Sound Clean Air Agency	Solvent Metal Cleaner. Letter dated January 16, 2002, Steve M. Van Slyke to Neva Welch, the Boeing Company. See Attachment 13.

## II. MONITORING, MAINTENANCE AND RECORDKEEPING PROCEDURES

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

Boeing must follow the applicable requirements listed below when referenced by an applicable requirement in Section I.A or I.B of this permit. Except for the testing required under Section II.A.2 (e) of this permit (NO<sub>x</sub> Monitoring), the tests performed to satisfy the requirements of any monitoring method under Section II of this permit are monitoring tests and are not considered “compliance tests” for purposes of Section V.N.1(iii) of this permit. [WAC 173-401-615, 11/4/93]

#### 1. Facility-Wide Monitoring

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

Boeing shall conduct visible emission inspections of the facility at least once per calendar quarter. Inspections are to be performed while the facility is in operation during daylight hours. If during a quarterly visible emissions inspection, visible emissions other than uncombined water are observed from a single unit or activity, Boeing shall as soon as practicable but within 24 hours of the initial observation:

- Take corrective action, which may include shutting down the unit or activity until it can be repaired, until there are no visible emissions; (or until the unit or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method); or,
- Determine the opacity using the reference test method, or
- Observe for a minimum of 15 minutes, or until visible emissions have been observed for a total of 45 seconds, whichever is a shorter period. If visible emissions other than uncombined water are observed from a single unit or activity lasting longer than 45 seconds during a 15 minute interval, Boeing may continue to observe visible emissions for an additional 45 minutes or until visible emissions have been observed for a total of 3 minutes in the hour, whichever is a shorter period. If visible emissions are observed for a total of 3 minutes during the 60 minute observation, or if visible emissions have been observed for a total of 45 seconds during the 15 minute observation and Boeing did not elect to continue the visible emission inspection as described above, Boeing shall, as soon as practicable but within 24 hours of the initial observation either:
  - Take corrective action, which may include shutting down the unit or activity until it can be repaired, until there are no visible emissions (or until the unit or activity is demonstrated to be in compliance with all

applicable opacity limitations in the permit using the reference test method); or,

- Alternatively, record the opacity using the reference test method.

Failure to take action as described above must be reported under Section V.M Compliance certifications or V.Q Reporting of this permit.

If Boeing observes visible emissions from an emergency generator or generator for fire suppression pumps, Boeing shall check to make sure that the generator is operated and maintained in accordance with its Operations and Maintenance Plan or manufacturer's recommended maintenance procedures and either:

- shut it down within 3 hours, or
- conduct a complete WDOE Method 9A test on the unit within 30 days of seeing the visible emissions; WDOE Method 9A test does not need to be repeated again if the unit is only operated less than 100 hours in the calendar year in which the visible emissions were -observed.

If a visible emission observation from an emergency generator or generator for a fire suppression pump occurs in December and a visible emission observation using WDOE Method 9A is required within 30 days of the occurrence, such WDOE Method 9A observation may occur in the following calendar year.

All observations using the opacity reference test method shall be reported according to V.Q.4 Method 9A Reports.

[WAC 173-401-615(1)(b), 11/4/93]

***(b) Complaint Response***

Boeing shall record and commence an investigation of air pollution complaints as soon as practicable, but no later than three working days after receipt by Boeing. Boeing shall identify complaints regarding these emissions as follows:

- i. Any emissions that are, or likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interfere with enjoyment of life and property; or
- ii. Any fugitive dust emissions, or
- iii. Any track-out onto paved roads open to the public, or
- iv. Any emissions of odor-bearing air contaminants, or
- v. Complaints regarding other applicable requirements.

Boeing shall investigate the complaint and determine if there was noncompliance with an applicable requirement of this permit. If it is determined that there is such noncompliance, Boeing shall as soon as practicable but no later than within 24 hours of determination of noncompliance, either correct the problem, shut down the noncompliant operation until it is repaired or corrected, or report according to V.Q.5 Report of Problems not Corrected Within 24 hours. Failure to investigate the complaint as described above is a deviation of this permit. If noncompliance is determined, failure to either correct the noncompliance, shut down the unit or activity within 24 hours, or report according to Section V.Q.5 Report of Problems not Corrected Within 24 hours is a deviation of this permit and must be reported under Section V.M Compliance certifications or V.Q Reporting of this permit.

[WAC 173-401-615(1)(b), 11/4/93]

**(c) Facility Inspections**

Boeing shall conduct a facility 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 facility-wide applicable requirements and the general effectiveness of the Operation & Maintenance (O&M) Plan.

Boeing shall, as soon as practicable but no later than 24 hours after identification, correct any potential compliance problems with respect to applicable requirements for which this section II.A.1(c) is an applicable monitoring method for significant emission units or activities identified by these quarterly inspections, or any other time, shut down the unit or activity until the problem can be corrected, or report according to Section V.Q.5 Report of Problems not Corrected Within 24 hours. If Boeing observes potential compliance problems for which there are no monitoring requirements under an applicable requirement and corrects that problem within 24 hours, Boeing does not need to report the deviation under Section V.M Compliance certifications or V.Q Reporting and does not need to record such action under Section V.O.1.4 of this permit. Boeing shall also promptly repair defective insignificant emission units.

[WAC 173-401-615(1)(b), 11/4/93]

**(d) Work Practice Inspection**

Boeing shall conduct inspections of work practice activities that are applicable requirements at least once per calendar quarter. Work practices shall be randomly sampled during the facility-wide inspection and observed for consistency with permit requirements. Boeing shall, as soon as practicable but within 24 hours of identification, correct any potential compliance problems with respect to applicable requirements for which this section II.A.1(d) is an applicable monitoring method identified by these

quarterly inspections, or any other time, shut down the unit or activity to which the work practice applies until the problem can be corrected, or report according to V.Q.5 Report of Problems not Corrected Within 24 hours. If Boeing observes potential compliance problems for which there are no monitoring requirements under an applicable requirement, and corrects that problem within 24 hours, Boeing does not need to report the deviation under Section V.M Compliance certifications or V.Q Reporting and does not need to record such action under Section V.O.1.4 of this permit, except that deviations from the spray gun cleaning requirements under 40 CFR 63.744(c) must be reported in the Aerospace NESHAP semi-annual report in accordance with Section V.Q.3(b)(3). Examples of such requirements that do not have monitoring requirements include 40 CFR 63.744(a)(1) (EU 2. 33) *Place cleaning solvent-laden cloth, paper or any other absorbent applicator used for cleaning in bags or other closed containers upon completing their use*, and 40 CFR 63.744(a)(3) (EU 2. 36) *Handling and transfer of cleaning solvents conducted in a manner to minimize spills*. For the purpose of determining compliance with the work practice requirements of 40 CFR 63.744(a)(1) (EU 2. 33) for solvent rag management, “completing their use” means upon completion of the cleaning operation, before leaving for a break, or the end of a shift, whichever comes first. [WAC 173-401-615(1)(b), 11/4/93]

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

Boeing shall use good industrial practices to maintain insignificant emission units. For such equipment<sup>1</sup>, Boeing shall also promptly repair defective equipment or, alternatively, shut down the unit until the defective equipment can be repaired. Records under V.O.1.4 are not required for such equipment except when such equipment is inspected under II.A.1(c) Facility Inspections and a problem requiring prompt repair is discovered during the inspection. [WAC 173-401-615(1)(b), 11/4/93]

***(f) Fugitive Dust, Track-Out, and Odor Bearing Contaminants***

Boeing shall conduct inspections of the facility for odor bearing contaminants and emissions of any air contaminant 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 interfere with enjoyment of life and property at least once per calendar quarter. Boeing shall also conduct inspections to monitor for fugitive dust and track-out from the facility at least once per calendar quarter. If a deviation from the applicable requirements identified in this permit for which this section II.A.1(f) is an applicable monitoring method is observed during a quarterly inspection, or any other time, Boeing shall within 24 hours of identification implement corrective

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<sup>1</sup> Puget Sound Clean Air Agency Regulation I, Section 1.07(s) states, “EQUIPMENT means any stationary or portable device or any part thereof that emits or may emit any air contaminant into the atmosphere.”

actions to eliminate the deviation promptly, shut down the unit or activity at which the deviation occurs until the deviation can be corrected, or report according to Section V.Q.5 Report of Problems not Corrected Within 24 hours. [WAC 173-401-615(1)(b), 11/4/93]

***(g) Fuel Oil Sulfur Content Monitoring Procedure***

For all other fuel oil deliveries, Boeing Frederickson's fuel oil contract shall specify that only fuel oil with a sulfur content not greater than 2% be delivered to the site. [WAC 173-401-615(1)(b), 11/4/93]

**2. Specific Monitoring**

In this section, if any equipment is not in use during the specified monitoring period, then no monitoring is required for that time period and the absence of monitoring is not a permit deviation.<sup>2</sup>

***(a) Approval by the Puget Sound Clean Air Agency, via NOC/Order of Approval***

Boeing has presented the pertinent information to the Puget Sound Clean Air Agency via a Notice of Construction/Application for Approval (NOC) and the Puget Sound Clean Air Agency has issued an Order of Approval indicating approval of this operation or activity. Boeing shall remain in compliance with the Order of Approval. [WAC 173-401-615(1)(b), 11/4/93]

***(b) VOC Content Monitoring and Recordkeeping Procedure***

Boeing shall maintain manufacturer's Materials Safety Data Sheets (MSDS), or other manufacturer-supplied data on the VOC content of Commercial Aerospace Primers (BMS 10-11, Type I) and Topcoats (BMS 10-11, Type II), Aerospace Temporary Protective Coatings, and motor vehicles/mobile equipment coatings. Boeing shall maintain a list of the coatings described above that are used on site. Boeing shall update this list at least annually. Boeing shall make this information available to the Puget Sound Clean Air Agency upon request. [WAC 173-401-615(1)(b), 11/4/93]

***(c) Documentation on File***

Boeing shall maintain documents in its files for at least five years from the date of record, which demonstrate compliance with the requirement. Boeing shall make the

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<sup>2</sup> See Attachment 17 for clarification of weekly and monthly frequencies.

documents available to the Puget Sound Clean Air Agency upon request. [WAC 173-401-615(1)(b), 11/4/93]

**(d) Equipment Maintenance**

Boeing shall, at a minimum, perform all the following maintenance activities at the frequency specified below.

**(i) Enclosed Gun Cleaning Systems**

Boeing shall visually inspect the seals and all other potential sources of leaks associated with each enclosed gun spray cleaner system at least once per month. Each inspection shall occur while the system is in operation. If leaks are found during the monthly inspection, repairs shall be made as soon as practicable, but no later than 15 days after the leak was found. If the leak is not repaired by the 15<sup>th</sup> day after detection, the cleaning solvent shall be removed, and the enclosed cleaner shall be shut down until the leak is repaired or its use is permanently discontinued. [40 CFR 63.744(c)(1)(ii), 9/1/98, 40 CFR 63.751(a), 12/8/00]

**(ii) Spray Booths**

Boeing shall check the primary dry filter systems, where visible, for proper seating and complete coverage over the exhaust plenum.<sup>3</sup> The inspection shall be conducted at least monthly or at time of use if booth is used less frequently than once per month, except as provided under Section V.P Data recovery of this permit. If filter coverage is acceptable for all inspections of a particular booth for a one year period, the inspection frequency for that booth may be reduced to once per calendar quarter. If coverage is unacceptable during quarterly inspections, monthly inspections shall be reinstated. Boeing shall, as soon as practicable but within 24 hours of the initial observation, correct the filter coverage, shut down the unit or activity until it can be repaired, or report according to Section V.Q.5 Report of Problems not Corrected Within 24 hours. Failure to take action as described above is a deviation of this permit and must be reported under Section V.M Compliance certifications or V.Q Reporting of this permit.

[WAC 173-401-615(1)(b), 11/4/93]

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<sup>3</sup> *On booths with no other applicable requirements, the primary filter is the visible filter. On booths with applicable requirements the primary filter is the filter that meets the efficiencies specified in the requirement. If a multi-stage filtration system is used to meet the required efficiencies, the primary filter is the visible filter that is part of the multi-stage system used to meet the required efficiency.*

**(iii) Fuel Burning Equipment**

- Check for visible emissions (exclusive of uncombined water vapor) quarterly when burning gas.
- If during the above monitoring visible emissions other than uncombined water are observed from a single unit or activity, Boeing shall, as soon as practicable but within 24 hours of the initial observation:

(1) Take corrective action, which may include shutting down the unit or activity, until it can be repaired, until there are no visible emissions (or until the unit or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method) or,

(2) Determine the opacity using the reference test, or

(3) Observe for a minimum of 15 minutes, or until visible emissions have been observed for a total of 45 seconds, whichever is a shorter period. If visible emissions other than uncombined water are observed from a single unit or activity lasting longer than 45 seconds during a 15 minute interval, Boeing may continue to observe visible emissions for an additional 45 minutes or until visible emissions have been observed for a total of 3 minutes in the hour, whichever is a shorter period. If visible emissions are observed for a total of 3 minutes during the 60 minute observation, or if visible emissions have been observed for a total of 45 seconds during the 15 minute observation and Boeing did not elect to continue the visible emission inspection as described above, Boeing shall, as soon as practicable but within 24 hours of the initial observation either;

- Take corrective action, which may include shutting down the unit until it can be repaired, until there are no visible emissions (or until the unit or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method); or
- Alternatively, determine the opacity using the reference test method.
- Failure to take action as described above must be reported under Section V.M Compliance certifications or V.Q Reporting of this permit.
- All observations using the opacity reference test method shall be reported according to V.Q.4 Method 9A Reports.

[WAC 173-401-615(1)(b), 11/4/93]

**(iv) Fuel Monitoring**

Boeing shall record and maintain records of the amounts of each fuel combusted during each month at Boiler Nos. 1, 2, and 3 and maintain those records for at least two years following the date of record. [40 CFR 60.48c(g) and (i), (10/17/00)]

**(v) Cyclones, Baghouses, and Abrasive Blast Booths**

Boeing shall inspect the cyclones, baghouses, and abrasive blast booths, which exhaust to the outside atmosphere, as described below. If the inspection is required by an NOC order of approval permit condition, the inspection shall be conducted according to the frequency specified in the Order of Approval. Otherwise, Boeing shall inspect each unit at least monthly, except as provided under Section V.P Data recovery of this permit. However, Boeing may reduce the inspection frequency to at least once per calendar quarter if the unit is rated at 2000 cfm or less.

- Boeing shall conduct visible emission inspections of the control equipment. Inspections are to be performed while the equipment is in operation during daylight hours. If during such inspections visible emissions other than uncombined water are observed from equipment, Boeing shall, as soon as practicable but within 24 hours of the initial observation:
  - (1) Take corrective action, which may include shutting down the unit or activity, until it can be repaired, until there are no visible emissions (or until the unit or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method); or
  - (2) Determine the opacity using the reference test, or
  - (3) Observe for a minimum of 15 minutes, or until visible emissions have been observed for a total of 45 seconds, whichever is a shorter period. If visible emissions other than uncombined water are observed from a single unit or activity lasting longer than 45 seconds during a 15 minute interval, Boeing may continue to observe visible emissions for an additional 45 minutes or until visible emissions have been observed for a total of 3 minutes in the hour, whichever is a shorter period. If visible emissions are observed for a total of 3 minutes during the 60 minute observation, or if visible emissions have been observed for a total of 45 seconds during the 15 minute observation and Boeing did not elect to continue the visible emission inspection as described above, Boeing shall, as soon as practicable but within 24 hours of the initial observation either;
    - Take corrective action, which may include shutting down the unit or activity until it can be repaired, until there are no visible emissions (or until the unit or activity is demonstrated to be in compliance with

all applicable opacity limitations in the permit using the reference test method); or,

- Alternatively, record the opacity using the reference test method.
- Failure to take action as described above, observing opacity above the standard, or not shutting down the unit or activity within 24 hours is a deviation of this permit and must be reported under Section V.M Compliance certifications or V.Q Reporting of this permit.
- All observations using the opacity reference test method shall be reported according to V.Q.4 Method 9A Reports.
- Boeing shall check for evidence of fugitive dust or fallout from the equipment or the exhaust stack. If the fugitive dust or fallout from the equipment or the exhaust stack is observed, Boeing shall, as soon as practicable but no later than within 24 hours of determination, correct the problem, shut down the operation until it is repaired or corrected, or report according to Section V.Q.5 Report of Problems not Corrected Within 24 hours. Failure to take action as described above is a deviation of this permit and must be reported under Section V.M Compliance certifications or V.Q Reporting of this permit.
- Where required by an Order of Approval condition, a pressure drop transmitter or gauge shall be installed to measure the pressure drop across the booth's exhaust filters.
- If a pressure differential gauge is required by an Order of Approval condition, then the range shall be established using the manufacturer's recommendations or the low end of the range will be no less than 50 percent of the pressure differential when operating with a clean filter or cyclone and the high end shall be a value based on the operational experience and will be a value below that at which the filters or bags would reasonably be expected to fail.

[WAC 173-401-615(1)(b), 11/4/93]

**(vi)    *Scrubbers for Metal Finishing Tankline***

Boeing shall inspect the packed bed wet scrubbers used to control emissions from metal finishing tankline operations as follows:

- At least once each month, except as provided under Section V.P Data recovery of this permit, inspect the pump for proper operation. If during inspection or any other time, Boeing discovers that the pump is not operating properly, resulting in a potential compliance problem with respect to an applicable requirement for which this section II.A.2(d)(vi) is an applicable monitoring

method, Boeing shall, within 24 hours after identification, correct the problem, shutdown the operation, or report according to Section V.Q.5 Report of Problems not Corrected Within 24 hours. If Boeing corrects pump problems within 24 hours of initial observation or shuts down the unit or activity within 24 hours until it is repaired or corrected, Boeing does not need to report the deviation under Section V.M Compliance certifications or V.Q Reporting of this permit.

- At least once each month, except as provided under Section V.P Data recovery of this permit, inspect for visible emissions exclusive of uncombined water vapor while the scrubber is in operation. Inspections are to be performed while the scrubber is in operation during daylight hours. If during such inspections visible emissions other than uncombined water are observed from a single unit or activity, Boeing shall as soon as practicable but within 24 hours of the initial observation:
  - (1) Take corrective action, which may include shutting down the unit or activity until there are no visible emissions; (or until the unit or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method); or
  - (2) Determine the opacity using the reference test; or,
  - (3) Observe for a minimum of 15 minutes, or until visible emissions have been observed for a total of 45 seconds, whichever is a shorter period. If visible emissions other than uncombined water are observed from a single unit or activity lasting longer than 45 seconds during a 15 minute interval, Boeing may continue to observe visible emissions for an additional 45 minutes or until visible emissions have been observed for a total of 3 minutes in the hour, whichever is a shorter period. If visible emissions are observed for a total of 3 minutes during the 60 minute observation, or if visible emissions have been observed for a total of 45 seconds during the 15 minute observation and Boeing did not elect to continue the visible emission inspection as described above, Boeing shall, as soon as practicable but within 24 hours of the initial observation either;
    - Take corrective action, which may include shutting down the unit or activity until it can be repaired, until there are no visible emissions (or until the unit or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method); or
    - Alternatively, determine the opacity using the reference test method.

At least once each calendar quarter, check that the pH of the scrubber recirculation water is between 7 and 11. If the pH is not within the acceptable range, Boeing

shall, as soon as practicable but within 24 hours of the initial observation take corrective action to bring the pH to between 7 and 11, shut down the unit or activity until it can be repaired, or report according to Section V.Q.5 Report of Problems not Corrected Within 24 hours.

Once each calendar quarter, inspect the nozzles for pluggage and even flow patterns. If sufficient plugged nozzles or uneven flow patterns that could cause violation of applicable emission standards are observed, Boeing shall, as soon as practicable but within 24 hours of the initial observation correct the problem, shut down the unit or activity until it can be repaired, or report according to Section V.Q.5 Report of Problems not Corrected Within 24 hours.

All observations using the opacity reference test method shall be reported according to V.Q.4 Method 9A Reports.

Failure to take corrective action as described above must be reported under Section V.M Compliance certifications or V.Q Reporting of this permit.

[WAC 173-401-615(1)(b), 11/4/93]

**(vii) Wet Particulate Scrubber**

Boeing shall inspect the wet particulate scrubber for the items described below.

- With the emission control equipment operating, at least monthly, except as provided under Section V.P Data recovery of this permit, check for visible emissions. If during a monthly check or any other time visible emissions other than uncombined water are observed from a single unit or activity, resulting in a potential compliance problem with respect to an applicable requirement for which this section II.A.2(d)(vii) is an applicable monitoring method, Boeing shall as soon as practicable but within 24 hours of the initial observation:

(1) Take corrective action, which may include shutting down the unit or activity, until there are no visible emissions (or until the unit or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method);or,

(2) Determine the opacity using the reference test; or,

(3) Observe for a minimum of 15 minutes, or until visible emissions have been observed for a total of 45 seconds, whichever is a shorter period. If visible emissions other than uncombined water are observed from a single unit or activity lasting longer than 45 seconds during a 15 minute interval, Boeing may continue to observe visible emissions for an additional 45 minutes or until visible emissions have been observed for a total of 3 minutes in the hour, whichever is a shorter period. If visible emissions are

observed for a total of 3 minutes during the 60 minute observation, or if visible emissions have been observed for a total of 45 seconds during the 15 minute observation and Boeing did not elect to continue the visible emission inspection as described above, Boeing shall, as soon as practicable but within 24 hours of the initial observation either

- Take corrective action, which may include shutting down the unit or activity until it can be repaired, until there are no visible emissions (or until the unit or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method); or
- Alternatively, determine the opacity using the reference test method.
- Boeing shall at least monthly check for evidence of fugitive dust or fallout from the equipment or the exhaust stack. If the fugitive dust or fallout from the equipment or the exhaust stack is observed, Boeing shall, as soon as practicable but within 24 hours of the initial observation correct the problem, shut down the operation until it is repaired or corrected, or report according to Section V.Q.5 Report of Problems not Corrected Within 24 hours.
- At least once each calendar quarter, monitor and record the water flow rate. The water flow rate range shall be established using either the manufacturer's recommendations or operational experience. If during inspection, Boeing discovers that the water flow rate is outside the range, Boeing shall, as soon as practicable but within 24 hours of the initial observation, correct the problem, shut down the unit or activity until it can be repaired, or report according to Section V.Q.5 Report of Problems not Corrected Within 24 hours.

All observations using the opacity reference test method shall be reported according to V.Q.4 Method 9A Reports.

Failure to take action as described above or not shutting down the unit or activity within 24 hours is a deviation of this permit and must be reported under Section V.M Compliance certifications or V.Q Reporting of this permit.

[WAC 173-401-615(1)(b), 11/4/93]

***(e) NOx Monitoring***

Boeing shall inspect the boilers annually for proper fuel and air ratios and fuel-air mixing.

Boeing shall test each boiler for NOx emission at least once, following the procedures in V.N.1 Emission Testing - General, before January 1, 2004.

[WAC 173-401-615(1)(b), 11/4/93]

***(f) Aerospace NESHAP Solvent Cleaner Monitoring and Recordkeeping Procedure***

Boeing shall record the name, vapor pressure, and documentation showing the organic HAP constituents of each affected cleaning solvent used for affected cleaning operations. [40 CFR 63.752(b)(1), 9/1/98]

For each cleaning solvent used in the hand-wipe cleaning operation at the facility that complies with the composition requirements specified in 63.744(b)(1) or for semi-aqueous cleaning solvents used for flush cleaning, Boeing shall record the name, data and calculations demonstrating the solvent complies with the compositions requirements, and annual records of the volume of each solvent used. Boeing shall demonstrate compliance with solvent composition using manufacturer's data per 63.750(a). The hand-wipe cleaning operation means collectively all hand-wipe cleaning operations. Flush cleaning operations means collectively all flush cleaning operations. [40 CFR 63.752(b)(2), 9/1/98]

For each cleaning solvent used in the hand-wipe cleaning operation at the facility that does not comply with the composition requirements in 63.744(b)(1) but does comply with the vapor pressure requirement of 63.744(b)(2), Boeing shall record the name, composite vapor pressure, the vapor pressure test results, data, or calculations used to determine the composite vapor pressure, and the amount in gallons of each cleaning solvent used each month at the Boeing Frederickson facility. [40 CFR 63.752(b)(3), 9/1/98]

For cleaning solvents that do not meet the composition or vapor pressure requirements and are used for the exempt hand-wipe cleaning operation, Boeing shall record the name and the amount of each cleaning solvent used each month for the collective exempt cleaning operation. Boeing shall maintain a list of the exempt processes to which the exempt hand-wipe cleaning operation applies. [40 CFR 63.752(b)(4), 9/1/98]

The test methods and procedures included in 40 CFR 63.750(a) and (b) shall be used for composition and vapor pressure determinations, as applicable [40 CFR 63.750(a) and (b), 10/17/00]

***(g) Aerospace NESHAP Coating Monitoring and Recordkeeping Procedure***

Boeing shall maintain the following records on the Aerospace NESHAP regulated primers and topcoats (such as primers like BMS 10-11 type I, some 10-72 primers, some uses of 10-103; topcoats like BMS 10-11 type II, 10-60 types I and II, and 10-72) used at the site. These procedures do not apply to specialty, touch-up, repair, and other specialty coatings exempt per 40 CFR 63.741(f) or to low volume coatings exempt per 40 CFR 63.741(g).

(i) For uncontrolled primers and topcoats that meet the HAP and VOC content limits without averaging, the name of each primer and topcoat; the VOC content as received and as applied; the mass of organic HAP emitted per unit volume as applied (less water) as calculated using the procedures specified in 63.750(c); the mass of VOC emitted per unit volume as applied (less water and exempt solvents) as calculated using the procedures specified in 63.750(e), and all data, calculations, and test results used in determining the HAP and VOC contents; and the volume of each coating category of formulation used each month. [40 CFR 63.752(c)(2), 9/1/98]

(ii) For “low HAP content” uncontrolled primers with organic HAP content less than or equal to 250 g/l and VOC content less than or equal to 250 g/l, the name of each primer and topcoat, the VOC content as received and as applied, annual purchase records of the total volume of each primer purchased, and all data, calculations, and test results used in determining the organic HAP and VOC contents. [40 CFR 63.752(c)(3), 9/1/98]

(iii) For primers and topcoats complying with the organic HAP or VOC content level by averaging, the name of each primer and topcoat, the VOC content as received and as applied, the monthly volume-weighted average masses of organic HAP and VOC emitted per unit volume of coating as applied as determined by the procedures specified in 63.750(d) and (f), and all data, calculations, and test results used in determining the values. [40 CFR 63.752(c)(4), 9/1/98]

Boeing shall comply using methods defined in 40 CFR 63.745(e) if applicable. [40 CFR 63.745(e), 12/8/00]

***(h) Aerospace NESHAP Pressure Drop Monitoring and Recordkeeping Procedure***

(i) For affected spray coating operations when inorganic HAPs are sprayed, unless the primers or topcoats have inorganic HAP concentration less than 0.1 % for carcinogens and 1.0 % for non-carcinogens, Boeing shall install a pressure gauge to continuously monitor the pressure drop across dry particulate filter systems while aerospace primer or topcoat application operations are occurring

(ii) Boeing shall read and record the pressure drop once each shift of operation on a log in accordance with 40 CFR 63.751(c) and 63.752(d) when spraying primer or topcoat with inorganic HAP regulated under 40 CFR 63.745(g), unless the primers or topcoats have inorganic HAP concentration less than 0.1 % for carcinogens and 1.0 % for non-carcinogens.

If the recorded pressure drop exceeds or falls below the acceptable limits established by Boeing or the filter manufacturer, as applicable, Boeing shall shut down the operation and take corrective action. The operation can be resumed when pressure drop is returned within the specified limits. The corrective actions shall include investigating if the activity occurring at the time of the

reading included activities regulated under 40 CFR 63.745(g). Boeing shall assume that the activity was regulated under 40 CFR 63.745(g) unless Boeing can demonstrate by a preponderance of the evidence otherwise. Acceptable limits shall be documented on the log. [40 CFR 63.745, 12/8/00]

- (iii) When the Aerospace NESHAP requires that the pressure drop across the exhaust filters be monitored and recorded once per shift, the pressure drop range shall be established using either the manufacturer's recommendations or shall be based on providing adequate air flow while maintaining filter integrity based on the specific design of the system. If the manufacturer's recommendations are not utilized, the pressure drop shall be established as follows:
  - (a) The low end of the range, with the exception of filter banks which have a clean filter pressure drop less than or equal to 0.03 inches of water, will be established at no less than 50 percent of the clean filter value. For filter banks which have a clean filter pressure drop less than or equal to 0.03 inches of water, the low end of the range may be set at zero.
  - (b) The high end will be established based on operational experience to allow for adequate air flow in the specific paint booth or hangar, but no higher than the point at which the filter will fail.
  - (c) If the manufacturer's recommendations are not utilized, all equipment malfunctions shall be immediately reported to supervisory personnel, or the malfunctioning dry filter booth shall be shut down. [40 CFR 63.745(g), 12/8/00; 40 CFR 63.743(b), 3/27/98]
- (iv) For dry filter spray booths where Aerospace NESHAP primers and topcoats containing inorganic HAPs are sprayed, unless the primers or topcoats have inorganic HAP concentrations less than 0.1 % for carcinogens and 1.0 % for non-carcinogens:
  - (a) Install NESHAP-compliant filters in booths where inorganic HAPs are applied to aerospace parts.
  - (b) Check to see that the pressure gauge functions properly and the pressure drop range is labeled on the log sheets at least quarterly.

[40 CFR 63.745, 12/8/00]

**(i) *Wood furniture manufacture***

Boeing shall keep purchase or usage records to document that the facility is an incidental wood furniture manufacturer, as defined by 40 CFR 63.801. These records shall show the monthly use of finishing materials or adhesives used for the manufacture of wood furniture or wood furniture components at the Boeing Frederickson facility.

[40 CFR 63.801, 12/28/98]

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

Boeing's O&M Plan shall include equipment operation and maintenance procedures specifying how Boeing 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(e) Maintenance and Repair of Insignificant Emission Units 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 checks of the emission unit or equipment. The specific provisions of the O&M Plan, other than those required by Condition Section II.A.1 and II.A.2(d), shall not be deemed part of this permit. [Puget Sound Clean Air Agency Regulation I, Section 7.09(b), 9/10/98]

### III. PROHIBITED ACTIVITIES

Boeing 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**

Boeing 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 that comply with WAC 173-425-020(1) and WAC 173-425-030(21) 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(a), 11/09/2000 and 8.07, 9/09/1999] [WAC 173-425-020(1), 3/13/2000; WAC 173-425-030(21), 3/13/2000; RCW 70.94.743, 1998 c68 p1 and RCW 70.94.775(2), 1995 c362 p2 State/Puget Sound Clean Air Agency only]

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

Boeing shall not cause or allow the burning of combustible refuse except in a multiple chamber incinerator provided with control equipment. Boeing 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**

##### **1. General**

Boeing 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. [Puget Sound Clean Air Agency Regulation I, Section 9.13(a), 6/9/88 and WAC 173-400-040(7), 8/20/93] [WAC 173-400-040(7), 9/15/01 state only]

##### **2. NSPS**

Boeing shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an

applicable (40 CFR Part 60) standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. [40 CFR 60.12, 3/8/74]

**E. Masking**

Boeing 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. [Puget Sound Clean Air Agency Regulation I, Section 9.13(b), 6/9/88 and WAC 173-400-040(7), 8/20/93] [WAC 173-400-040(7), 9/15/01 state only]

**F. Ambient Standards**

Boeing shall not cause or allow the emission of air contaminants in sufficient quantity as to exceed any ambient air quality standard in Puget Sound Clean Air Agency Regulation I, Section 11.01. [Puget Sound Clean Air Agency Regulation I, Section 11.01(b), 4/14/94]

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

Boeing 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**

Boeing 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 and, 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; WAC 173-400-110, 9/20/93; 40 CFR 60.7, 2/12/99; 40 CFR 60.14, 12/17/00; 40 CFR 60.15, 12/16/75; 40 CFR 63.5, 4/5/02] [Puget Sound Clean Air Agency Regulation I, Section 6.03, 7/12/01, WAC 173-400-110, 9/15/01; WAC 173-460-040, 2/14/94; RCW 70.94.152, 1996 c 67p1, 1996 c 29p1 State/Puget Sound Clean Air Agency only]

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

Boeing 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, except as provided in Puget Sound Clean Air Agency Regulation I Section 6.03. [Puget Sound Clean Air Agency Regulation I, Section 6.03, 9/12/96; WAC 173-400-110, 9/20/93] [Puget Sound Clean Air Agency Regulation I, Section 6.03, 7/12/01; WAC 173-400-110, 9/15/01; WAC 173-400-114, 9/20/93; RCW 70.94.152 1996 c 67p1, 1996 c29p1; RCW 70.94.153, 1991 c 199p303 State/Puget Sound Clean Air Agency only]

##### **C. Asbestos**

1. Boeing 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. Boeing 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, 7/13/00]

##### **D. Spray Coating**

- (a) Applicability. This section applies to spray-coating operations where a coating that protects or beautifies a surface is applied with spray-coating equipment.
- (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 State/Puget Sound Clean Air Agency only. This requirement will become federally enforceable upon adoption into the SIP and will replace the 6/13/91 version of Reg I: 9.16]

**V. STANDARD TERMS AND CONDITIONS****A. Duty to comply**

Boeing 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 Boeing 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**

Boeing 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, Boeing 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, Boeing 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**

Boeing shall pay fees as a condition of this permit in accordance with Puget Sound Clean Air Agency Regulation I, Article 7. Failure to pay fees in a timely fashion shall subject Boeing to civil and criminal penalties as prescribed in Chapter 70.94 RCW. [WAC 173-401-620(2)(f), 11/4/93; RCW 70.94.162, 1998 c 245p129]

**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; RCW 70.94.905, 1991 c 199p719 State and Puget Sound Clean Air Agency only]

**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 40 CFR 505(b) of the FCAA. [WAC 173-401-620(2)(i) and WAC 173-401-735, 5/3/97; RCW 70.94.221, 1970 ex.s.c 62p58]

**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 (i.e. "state only" or "State/Puget Sound Clean Air Agency only." [WAC 173-401-625, 11/4/93]

**K. Inspection and entry**

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

1. Enter Boeing'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, 1987 c 109 State/Puget Sound Clean Air Agency only]

#### **L. Compliance requirements**

Boeing shall continue to comply with all applicable requirements with which the source is currently in compliance. Boeing shall meet on a timely basis any applicable requirements that become effective during the permit term. [WAC 173-401-630(3), 11/4/93; WAC 173-401-510(2)(h)(iii), 6/17/94]

#### **M. Compliance certifications**

Boeing shall submit a certification of compliance with permit terms and conditions once per year. The first such certification shall cover the period from permit issuance to December 31, 2002. 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.

All annual compliance certifications shall be submitted to EPA Region 10 and to the Puget Sound Clean Air Agency, at the following addresses, by February 28 for the previous calendar year. [WAC 173-401-630(5), 11/4/93]:

Puget Sound Clean Air Agency  
Attn.: Operating Permit Certification  
110 Union Street, Suite 500  
Seattle, Washington 98101

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

#### **N. Compliance determination**

##### **1. Emission Testing - General**

- i) 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 Boeing to have it tested. In the event the Puget Sound Clean Air Agency or Ecology conduct the test, Boeing shall be given an opportunity to observe the sampling and to obtain a sample at the same time. [Puget Sound Clean Air Agency Regulation I, Section 3.05(b), 2/10/94; WAC 173-400-105(4), 8/20/93, 9/15/01 State/Puget Sound Clean Air Agency Only]

- ii) 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.
- iii) Boeing shall notify the Puget Sound Clean Air Agency in writing at least 2 weeks (14 days) prior to any compliance test and provide the Puget Sound Clean Air Agency an opportunity to review the test plan and to observe the test.
- iv) Boeing, 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:
  - (a) A description of the source and the sampling location;
  - (b) The time and date of the test;
  - (c) A summary of results, reported in units and for averaging periods consistent with the applicable emission standard;
  - (d) A description of the test methods and quality assurance procedures employed;
  - (e) The amount of fuel burned or raw material processed by the source during the test;
  - (f) The operating parameters of the source and control equipment during the test;
  - (g) Field data and example calculations; and
  - (h) 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), 9/15/01 State/Puget Sound Clean Air Agency Only; 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]

## **2. 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 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. [Puget Sound Clean Air Agency Regulation I, Section 3.06, 10/8/98; 40 CFR 60.11(g), 2/24/97]

**O. Recordkeeping****1. General**

Boeing shall maintain the following, where applicable:

1. Records of required monitoring information that include the following:
  - i) The date, place as defined in the permit, and time of sampling or measurements;
  - ii) The date(s) analyses were performed;
  - iii) The company or entity that performed the analyses;
  - iv) The analytical techniques or methods used;
  - v) The results of such analyses; and
  - iv) The operating conditions existing at the time of sampling or measurement. [WAC 173-401-615(2), 9/15/01]
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), 9/15/01]
3. Records of all monitoring data and support information required by this permit shall be retained by Boeing 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), 9/15/01]
4. Boeing shall keep records of all inspections, tests and other actions required by Section II.A.1. 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. Boeing shall also maintain records of all inspections, tests, and other actions required by the O&M Plan and Section II.A.2. of this permit. All records required under this item will be available for Puget Sound Clean Air Agency review. [Puget Sound Clean Air Agency Regulation I, Section 7.09(b), 9/10/98]
5. Boeing shall keep records for all complaints received concerning odor, fugitive emissions or nuisance relating to Section II of this permit. These records must also contain the following information:
  - i) The date and time of the complaint,

- ii) The name of the person complaining, if known,
- iii) The nature of the complaint, and
- iv) The date, time and nature of any corrective action taken.

[WAC 173-401-615(2)(b), 11/4/93]

## **2. Specific**

### **(a) NESHAP**

For the requirements of the 40 CFR 63 Subparts GG, Boeing shall retain at least two years of records on site. The remaining three years of data may be retained off site. [40 CFR 63.10(b)(1), 2/12/99]

### **(b) Boiler NSPS**

All records required under 40 CFR 60.48c shall be maintained for a period of 2 years following the date of such record. [40 CFR 60.48c(i), 10/17/00]

## **P. Data recovery**

### **1. General Data Recovery**

If the specific monitoring and recordkeeping requirements in Section II of this permit are silent on data recovery provisions data recovery is assumed to be 100%. However, no data need be collected during any period that the monitored process does not operate.

### **2. Data Recovery Exceptions**

This section applies to the following monitoring and recordkeeping requirements in Section II of this permit

II.A.2(d)(ii) Spray Booths

II.A.2(d)(v) Cyclones, Baghouses, and Abrasive Blast Booths

II.A.2(d)(vi) Scrubbers for Metal Finishing Tankline

II.A.2(d)(vii) Wet Particulate Scrubber

For the above listed the following applies:

(1) Boeing shall collect at least the following amount of valid data:

- (a) For records or monitoring data that are required daily or more frequently, Boeing shall collect at least 90% of all records or data required in a month.

- (b) For records or monitoring data that are required monthly or more frequently (yet less frequently than daily), Boeing shall collect at least nine of the most recent ten required records.
- (2) The Deviation Reports required by Section V.Q.1(b) shall include an explanation for any instance in which Boeing failed to meet the data recovery requirements of this condition for any monitored process or parameter and any instances of reconstructing lost data. The explanation shall include the reason that the data was not collected and any actions that Boeing will take to insure collection of such data in the future.
- (3) Failure to recover the required amount of monitoring may be excused from penalty during any period of monitoring system breakdown, malfunction, repairs, calibration checks, and acts of God deemed to be unavoidable. In determining whether a monitoring failure was unavoidable, the following factors shall be considered:
- (a) Whether the event was caused by poor or inadequate design, operation, maintenance, or any other reasonably preventable condition;
  - (b) Whether the event was of a recurring pattern indicative of inadequate design, operation, or maintenance; and
  - (c) Whether Boeing took immediate and appropriate corrective action in a manner consistent with good air pollution control practice.
- (4) The occasional and unintentional loss or omission of required records shall not constitute a reportable permit deviation, provided Boeing, upon discovery of the missing records, is able to reconstruct the required information from other available information or knowledge or the missing record is otherwise allowed by this permit.

[WAC 173-401-615(1)(b), 11/4/93]

## **Q. Reporting**

### **1. General Reports**

#### **(a) Semiannual Operating Permit Reports**

Any monitoring reports required by this permit to be submitted to the Puget Sound Clean Air Agency shall be submitted at least once every six months, or more frequently where required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. If there were no deviation Boeing must submit a report stating that, there were no deviations. [WAC 173-401-615(3)(a), 9/15/01]

#### **(b) Deviation Reports**

Boeing shall report in writing to Puget Sound Clean Air Agency Operating Permit

Certification 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. Boeing shall maintain a contemporaneous record of all deviations. Boeing 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) as soon as possible but no later than 12 hours after such a deviation is discovered. Boeing shall report other deviations in writing to Puget Sound Clean Air Agency Operating Permit Certification on a monthly basis, within 30 days after the end of the month in which the deviation is discovered. Boeing is not required to submit a monthly report for months during which there were no deviations, except that if there are no deviations during a calendar half, Boeing must report that there were no deviations by August 30 for the reporting period January 1 through June 30, and by February 28 for the reporting period between July 1 through December 31. [WAC 173-401-615(3)(b), 9/15/01]

Boeing shall report to the Puget Sound Clean Air Agency any instances where it failed to promptly repair any defective equipment. [WAC 173-401-615(3)(b), 9/15/01]

***(c) Reporting Certification***

Any application form, report, or compliance certification that is required to be certified by any applicable requirement or is submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. [WAC 173-401-520, 11/4/1993]

The following application forms, reports, and compliance certifications must be certified upon submittal:

- Annual Air Operating Permit Compliance Certification (V.M Compliance certifications) (WAC 173-401-630(5))
- Semi-annual Air Operating Permit Report (V.Q.1(a) Semiannual Operating Permit Reports) (WAC 173-401-615(3)(a))
- Administrative Permit Amendment Requests (VI.B Administrative Permit Amendments) (WAC 173-401-720)
- Minor Permit Modification Application (VI.E Permit Modification) (WAC 173-401-725)
- Significant Permit Modification Application (VI.E Permit Modification) (WAC 173-401-725)
- Aerospace NESHAP semiannual report(V.Q.3(b) Semiannual Compliance Certification Reports) (40 CFR 63.753(b)(1), 40 CFR 63.753(c)(1), 40 CFR 63.9(i))

- Aerospace NESHAP annual report (V.Q.3(c) Annual Compliance Certification Reports) (40 CFR 63.753(c)(2), 40 CFR 63.9(i))

For all other application forms, reports, and compliance certifications the responsible official's certification needs only to be submitted once every six months, covering all required reporting since the date of the last certification, provided that the certification specifically identifies all documents subject to the certification. [WAC 173-401-615(3)(a), 9/15/01]

**(d) Reporting Submittal**

All reports required under this section shall be submitted the Puget Sound Clean Air Agency, at the following address:

Puget Sound Clean Air Agency  
Attn.: Operating Permit Certification  
110 Union Street, Suite 500  
Seattle, Washington 98101

**2. Annual Emission Inventory**

Boeing shall report annually to the Puget Sound Clean Air Agency for those air contaminants that are emitted in amounts equal to or exceeding the following (tons per year) during the previous calendar year:

1. Carbon monoxide (CO) emissions	25
2. Facility combined total of all toxic air contaminants (TAC) emissions	6
3. Any single toxic air contaminant (TAC) emissions	2
4. Nitrogen oxide (NO <sub>x</sub> ) emissions	25
5. Particulate matter (PM <sub>10</sub> ) emissions	25
6. Particulate matter (PM <sub>2.5</sub> ) emissions	25
7. Sulfur oxide (SO <sub>x</sub> ) emissions	25
8. 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. Boeing 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 I, Section 7.09(a), 9/10/1998]

**3. Aerospace Manufacturing and Rework Facilities NESHAP -- Reporting/Notification*****(a) Notification of Compliance Status Report***

For new or reconstructed affected sources:

No later than 240 days after the startup date of a new or reconstructed affected source, or 60 days after the performance test (if one is performed), whichever is earlier, the facility shall submit a Notification of Compliance Status to Puget Sound Clean Air Agency Operating Permit Certification in accordance with 40 CFR Section 63.753(a)(1) and the applicable 40 CFR Section 63.9(h). [40 CFR Section 63.753(a)(1), 9/1/98 and 40 CFR Section 63.9(h), 2/12/99]

***(b) Semiannual Compliance Certification Reports***

Boeing shall submit a semiannual compliance certification report to Puget Sound Clean Air Agency Operating Permit Certification in accordance with 40 CFR 63.753(b)(1) and (c)(1) and V.Q.1 General Reports. [40 CFR 63.753(b)(1) and (c)(1), 9/1/98]

This semiannual report shall include the following:

- 1) Any instance where a noncompliant cleaning solvent is used for a nonexempt hand-wipe cleaning operation;
- 2) A list of any new cleaning solvents used for hand-wipe cleaning in the previous 6 months and, as appropriate, their composite vapor pressure or notification that they comply with the composition requirements specified in 40 CFR 63.744(b)(1);
- 3) Any instances where a noncompliant spray gun cleaning method is used;
- 4) Any instance where a leaking enclosed spray gun cleaner remains unrepaired and in use for more than 15 days;
- 5) If the cleaning operations have been in compliance for the semiannual period, a statement that the cleaning operations have been in compliance with the applicable standards;
- 6) For cleaning operations, a statement of compliance signed by a responsible company official certifying that the facility is in compliance with all applicable requirements;
- 7) For primers and topcoats where there is no averaging or a control device, each value of  $H_i$  and  $G_i$  that exceeds the applicable organic HAP or VOC content limit;

- 8) For primers and topcoats that are averaged, each value of H<sub>a</sub> and G<sub>a</sub> that exceeds the organic HAP or VOC content limit;
- 9) All times when a primer or topcoat application operation was not immediately shut down when the pressure drop or water flow rate was outside the limits;
- 10) If the primer and topcoat operations have been in compliance for the semiannual period, a statement that the operations have been in compliance with the applicable standards;

***(c) Annual Compliance Certification Reports***

Boeing shall submit an annual compliance certification report to Puget Sound Clean Air Agency Operating Permit Certification by February 28 of each year for the period covering the preceding calendar year in accordance with 40 CFR 63.753(c)(2). [40 CFR 63.753(c)(2), 9/1/98]

The annual report shall list the number of times the pressure drop for each dry filter was outside the limits and, if the facility depaints more than 6 completed aircraft in a calendar year, the average volume per aircraft of organic HAP-containing strippers or weight of organic HAP used for spot stripping and decal removal operations if it exceeds the limit specified in 40 CFR 63.746(b)(3). [40 CFR 63.746(b)(3), 9/1/98]

***(d) Change in Information***

Boeing shall provide in writing any change in the information that was already provided under 40 CFR Section 63.9 within 15 calendar days after the change in accordance with 40 CFR Section 63.9(j). [40 CFR Section 63.9(j), 2/12/99]

***(e) Startup, Shutdown, and Malfunction Reports***

For spray booths conducting a topcoat or primer operation regulated under 40 CFR 63.745(g), except for dry particulate filter systems operated per the manufacturer's instructions, Boeing shall submit to Puget Sound Clean Air Agency Operating Permit Certification the startup, shutdown, and malfunction report semiannually if a startup, shutdown or malfunction occurred in the semiannual period in accordance with 40 CFR Section 63.10(d)(5)(i) and Section V.Q.(1) of this permit. The report shall be delivered or postmarked by the 30th day following the end of each calendar half (or other calendar reporting period, as appropriate). [40 CFR Section 63.10(d), 2/12/99]

Boeing shall submit Immediate Startup, Shutdown, and Malfunction Reports, as required by 40 CFR 63.10(d)(5)(ii) to the Puget Sound Clean Air Agency if an action taken during a startup, shutdown or malfunction is not consistent with the procedures specified in the Startup, Shutdown and Malfunction Plan. These reports shall be

submitted according to the procedures in V.Q.1(b) Deviation Reports. [40 CFR 63.10(d)(5)(ii), 2/12/99]

#### **4. Method 9A Reports**

Boeing shall report to the Puget Sound Clean Air Agency results of all opacity monitoring using Ecology Method 9A within 30 days after the end of the month that the measurement occurred. These reports will be certified in accordance with V.Q.1.(c) at least semi-annually. [WAC 173-401-615(3)(a), 11/4/93]

#### **5. Report of Problems not Corrected Within 24 hours**

If Boeing is reporting a problem (such as leak, out of range pressure drop, out of range pH, or other problem, as applicable) in lieu of correcting it or shutting down the associated equipment or activity in accordance with Sections II.A.1(b), II.A.1(c), II.A.1(d), II.A.1(f), II.A.2(d)(ii), II.A.2(d)(v), II.A.2(d)(vi), and II.A.2(d)(vii) then Boeing shall report to the Agency in writing by facsimile (206-343-7522) to Puget Sound Clean Air Agency Attn.: Operating Permit Certification, the nature of the problem and Boeing's intent to continue operating while seeking to address the problem.

In addition, within 30 days after the end of the month in which the problem was reported under this section (V.Q.5), Boeing shall also submit either:

- (a) A deviation report pursuant to V.Q.1(b) Deviation Reports; or
- (b) A report indicating that after reasonable inquiry Boeing has determined that no deviation occurred and the basis for that determination.

All reports submitted pursuant to this Section V.Q.5 shall be certified in accordance with Section V.Q.1(c) Reporting Certification at least semi-annually.

Nothing in this Section V.Q.5 shall be construed to extend the deadlines for submitting deviation reports under Section V.Q.1(b) Deviation Reports, notifications of emergencies under Section V.R, or reports of unavoidable excess emissions under Section V.S.

[WAC 173-401-615(3), 11/4/93]

#### **6. REQUIRED APPLICATIONS, REPORTS, AND COMPLIANCE CERTIFICATIONS**

*The following table contains a summary of the reporting requirements that are presented in detail in this permit. In the event of a conflict between the reporting requirements listed below and the reporting requirements listed in other sections of this permit, the reporting requirements listed in other sections of the permit shall govern.*

Name of Application, Report, or Compliance Certification	Required by	Paraphrased Frequency
Aerospace NESHAP semiannual report (V.Q.3(b) Semiannual Compliance Certification Reports)	40 CFR 63.753(b)(1)  40 CFR 63.753(c)(1)  40 CFR 63.9(i)	Semiannually, by August 30 <sup>th</sup> for the reporting period of January through June and by February 28 <sup>th</sup> for the reporting period of July through December. All deviations must also be reported consistent with V.Q.1(b) Deviation Reports.
Aerospace NESHAP annual report (V.Q.3(c) Annual Compliance Certification Reports)	40 CFR 63.753(c)(2)  40 CFR 63.9(i)	Annually, by February 28 for the reporting period of January through December of the previous year.
Periodic startup, shutdown, malfunction report (applicable to Aerospace NESHAP only) (V.Q.3(e) Startup, Shutdown, and Malfunction Reports)	40 CFR 63.10(d)(5)(i)	Semiannually, by August 30 <sup>th</sup> for the reporting period of January through June and by February 28 <sup>th</sup> for the reporting period of July through December.
Immediate SSM report (applicable to Aerospace NESHAP only) (V.Q.3(e) Startup, Shutdown, and Malfunction Reports)	40 CFR 63.10(d)(5)(ii)	Consistent with V.Q.1(b) Deviation Reports.
Compliance certification V.M Compliance certifications	WAC 173-401-630(5)	Annually – February 28 for the previous calendar year.
Semiannual deviation report (V.Q.1(a) Semiannual Operating Permit Reports)	WAC 173-401-615(3)(a)	August 30 for period January 1-June 30 and February 28 for period July 1-December 31.
Permit deviations which represent a potential threat to human health or safety (V.Q.1(b) Deviation Reports)	WAC 173-401-615(3)(b)	As soon as possible but no later than 12 hours of discovery of the deviation.
Other permit deviations including failure to repair any defective equipment (V.Q.1(b) Deviation Reports)	WAC 173-401-615(3)(b)	Monthly - within 30 days after the end of the month in which the deviation is discovered.  Note: If Boeing is claiming the emergency defense of WAC 173-401-645 the report must be submitted within two working days.
Emission inventory statement (V.Q.2 Annual Emission Inventory)	Reg. I, 7.09(a)	Annually, by April 15 <sup>th</sup> for the previous reporting period, or by a different date if specified by the Puget Sound Clean Air Agency.

Name of Application, Report, or Compliance Certification	Required by	Paraphrased Frequency
Unavoidable Excess Emissions (V.S Unavoidable excess emissions)	WAC 173-400-107	As needed.
Administrative permit amendment request (VI.B Administrative Permit Amendments)	WAC 173-401-720	Can make change immediately on submission.
Notice of changes not requiring permit revisions, including 502(b)(10) changes and SIP authorized emission trading (VI.C Changes not Requiring Permit Revisions)	WAC 173-401-722	7 days prior to making a change.
Notice of off permit changes (VI.D Off Permit Changes)	WAC 173-401-724	Contemporaneous with the change.
Minor permit modification application (VI.E Permit Modification)	WAC 173-401-725	Can make change immediately after filing application.
Significant permit modification application (VI.E Permit Modification)	WAC 173-401-725	As needed.
Notice of Construction and Application for Approval (IV.A New Source Review)	Puget Sound Clean Air Agency Reg. I, Article 6	Before construction begins.
Asbestos project quarterly reports	Puget Sound Clean Air Agency Reg. III, Section 4.03(a)(8)(C)	Submitted quarterly
PSD permit applications (IV.A New Source Review)	WAC 173-400-141	Before construction begins.
NESHAP Application for Approval of Construction or Reconstruction	40 CFR 63.5(d)(1)	As soon as possible prior to construction if NESHAP in effect. No later than 60 days after effective date of standard if not in effect.

**7. NOTIFICATION REQUIREMENTS**

*The following table contains a summary of the notification requirements that are presented in detail in this permit. In the event of a conflict between the notification requirements listed below and the notification requirements listed in other sections of this permit, the notification requirements listed in other sections of the permit shall govern.*

<b>Reqmt. No.</b>	<b>Citation</b>	<b>Adoption or Effective Date</b>	<b>Paraphrased Notification Requirement</b>	<b>Date Notification Due</b>
N. 1	Puget Sound Clean Air Agency Regulation I, Section 3.07(b)	2/9/1995	As specified in Section V. N. of this permit, Boeing shall notify the Puget Sound Clean Air Agency in writing at least 2 weeks (14 days) prior to any compliance test and provide the Puget Sound Clean Air Agency an opportunity to review the test plan and to observe the test.	At least 14 days prior to compliance test.
N. 2	40 CFR 60.7(a)(1)	9/15/1994	Boeing shall furnish written notification to the Puget Sound Clean Air Agency and EPA Region 10 of the date of construction or reconstruction of an affected NSPS facility as specified in 40 CFR Part 60	Postmarked no later than 30 days after date of construction or reconstruction
N. 3	40 CFR 60.7(a)(2)	9/15/1994	Boeing shall furnish written notification to the Puget Sound Clean Air Agency and EPA Region 10 of the anticipated date of initial start-up of an affected NSPS facility as specified in 40 CFR Part 60	No more than 60 nor less than 30 days prior to anticipated date of initial start-up
N. 4	40 CFR 60.7(a)(3)	9/15/1994	Boeing shall furnish written notification to the Puget Sound Clean Air Agency and EPA Region 10 of the actual date of initial start-up of an affected NSPS facility as specified in 40 CFR Part 60	Postmarked within 15 days after date of initial start-up
N. 5	40 CFR 60.7(a)(4)	9/15/1994	Boeing shall furnish written notification to the Puget Sound Clean Air Agency and EPA Region 10 of any physical or operational change which may increase emission rate of any air pollutant to which an NSPS standard applies unless change is exempted under 40 CFR 60.14(3)	Postmarked 60 days or as soon as practicable before change is commenced

V. STANDARD TERMS AND CONDITIONS

Reqmt. No.	Citation	Adoption or Effective Date	Paraphrased Notification Requirement	Date Notification Due
N. 6	40 CFR 60.8	5/17/1989	Provide notice to the Puget Sound Clean Air Agency and EPA Region 10 of performance test conducted to demonstrate compliance with standards in 40 CFR Part 60 (NSPS)	30 days prior to test
N. 7	40 CFR 63.5(b)(4) 40 CFR 63.743(a)(10)	3/16/1994 3/27/1998	<p>For a new affected source or reconstructed affected source subject to a NESHAP, notify the Puget Sound Clean Air Agency of the intended construction or reconstruction. Submit in accordance with 63.9(b), Initial Notifications, and include information required for application for approval or construction or reconstruction as specified in 40 CFR 63.5(d). For major sources, application for approval may be used to fulfill notification requirements.</p> <p>For construction or reconstruction of a spray booth or hangar subject to the aerospace NESHAP (40 CFR Part 63, Subpart GG) that does not have the potential to emit 10 tons/year or more of an individual inorganic HAP or 25 tons/year or more of all inorganic HAP combined, Boeing shall comply with 40 CFR 63.5(b)(4) by notifying the Puget Sound Clean Air Agency on an annual basis on or before March 1 or each year. Notification shall include information required in 40 CFR 63.5(b)(4) for each spray booth or hangar.</p>	For major sources, see timeline in 63.5(d).
N. 8	40 CFR 63.9(b)(3)	2/12/99	For a new or reconstructed affected source subject to a NESHAP with an initial startup after the effective date of a relevant standard and for which an application for approval of construction or reconstruction is not required under 40 CFR 63.5(d), submit an initial notification to the Puget Sound Clean Air Agency in accordance with 40 CFR 63.9(b)(3).	No later than 120 days after initial startup.
N. 9	40 CFR 63.9(e), 40 CFR 63.9(i), Puget Sound Clean Air Agency Reg I: 3.07	2/12/99 2/9/1995	Boeing shall notify the Control Officer in writing of its intention to conduct a NESHAP performance test at least 60 calendar days before the performance test is scheduled to begin to allow the Control Officer to review and approve the site-specific test plan required under 40 CFR 63.7(c), if requested by the Control Officer, and to have an observer present during the test.	At least two weeks before the performance test is scheduled to begin.
N. 10	40 CFR 63.9(j) Puget Sound Clean Air Agency Regulation III, 2.02	02/12/1999 09/13/2001	For aerospace coating operations subject to the NESHAP, Boeing shall send changes in information to the Puget Sound Clean Air Agency within 15 days	Within 15 days of determining changes in information needed

V. STANDARD TERMS AND CONDITIONS

Reqmt. No.	Citation	Adoption or Effective Date	Paraphrased Notification Requirement	Date Notification Due
N. 11	WAC 173-401-724	11/4/93	Notice of off permit changes (VI.D Off Permit Changes)	Contemporaneous with the change
N. 12	Puget Sound Clean Air Agency Reg. III, Section 4.03	7/13/00	Asbestos project notification (Note: Includes all notification required under Reg. III, Section 4.03) (IV.C Asbestos)	Up to 10 days prior
N. 13	WAC 173-401-645(d)	11/4/93	Notice of Emergency (V.R Emergencies)	Within 2 days of exceeding emission limits.

**R. Emergencies**

An emergency, as defined in WAC 173-401-645(1), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if 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 Boeing can identify the cause(s) of the emergency;
2. The permitted facility was at the time being properly operated;
3. During the period of the emergency Boeing took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in the permit; and
4. Boeing 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, Boeing 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]

**S. 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 Boeing wants the Puget Sound Clean Air Agency to consider unavoidable and excusable under WAC 173-400-107, Boeing shall submit the information required under WAC 173-400-107. [WAC 173-400-107(2), 8/20/93 State/Puget Sound Clean Air Agency only]

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

It shall not be a defense for Boeing 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]

**U. Stratospheric ozone and climate protection**

1. Boeing 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:
  - i) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  - ii) 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; and
  - iii) 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. Boeing 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, 1/13/95]
3. Any certified technician employed by Boeing shall keep a copy of their certification at their place of employment. [40 CFR 82.166(1), 9/8/95]
4. Boeing 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. [40 CFR 82.154, 12/27/96] [RCW 70.94.970(2) and (4), 1991 State/Puget Sound Clean Air Agency only]

**V. 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]

**W. Risk management programs**

In accordance with 40 CFR Part 68, if Boeing has or receives more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, Boeing 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, 1/6/1999]

#### **X. 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, 11/4/93]

#### **Y. 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, Boeing shall promptly submit such supplementary facts or corrected information to the Puget Sound Clean Air Agency. [WAC 173-401-500(6), 5/30/94]

#### **Z. Insignificant emission units and activities**

1. Insignificant emission units and activities at Boeing are subject to all applicable requirements set forth in Sections I.A, III and IV. This permit shall not require testing, monitoring, reporting or recordkeeping for insignificant emission units or activities. [WAC 173-401-530(2)(c), 5/30/94]
2. For insignificant emission units and activities, Boeing does not need to certify compliance under WAC 173-401-630(5). [WAC 173-401-530(2)(d), 5/30/94]
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), 5/30/94]

## VI. PERMIT ACTIONS

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

- (1) **Renewal application.** Boeing 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 Boeing 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 Boeing a renewal application shall not relieve Boeing from the obligation to file a timely and complete renewal application. [WAC 173-401-710(1), 11/4/93; WAC 173-401-500(2), 11/4/93]
- (2) **Expired permits.** Permit expiration terminates Boeing'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), 11/4/93]
- (3) **Revocation of permits.** The Puget Sound Clean Air Agency may revoke a permit only upon the request of Boeing or for cause. The Puget Sound Clean Air Agency shall provide at least thirty days written notice to Boeing 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 Boeing 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 Boeing 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), 11/4/93]

### 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 Boeing;
  - c) Requires more frequent monitoring or reporting by Boeing;
  - 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) Boeing 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) Boeing 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 173-401-200(33);
  - 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;

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- 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) Boeing 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. Boeing 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, Boeing is authorized to make section 502(b)(10) changes (as defined in WAC 173-401-200(28)) 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, Boeing 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 Boeing 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 Boeing 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 Boeing 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, 11/4/93]

**D. Off Permit Changes**

- (1) Boeing 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.
- (2) Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition.
- (3) Boeing 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.
- (4) The change shall not qualify for the permit shield under WAC 173-401-640.
- (5) Boeing shall keep a record describing changes made at Boeing 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.
- (6) When making a change under this section, Boeing 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;

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- d) Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that Boeing has assumed to avoid an applicable requirement to which Boeing 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) Boeing'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) Boeing's ability to make change. Boeing 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 Boeing 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), Boeing must comply with both the applicable requirements

governing the change and the proposed permit terms and conditions. During this time period, Boeing need not comply with the existing permit terms and conditions it seeks to modify. However, if Boeing 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 Boeing 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 Boeing 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

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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 Boeing 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]

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**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 Boeing 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. APPENDIXES****A. Reference Method Titles and Averaging Periods**

EPA Reference Test Method	Date	Title	Averaging Period
Puget Sound Clean Air Agency Method 5 Puget Sound Clean Air Agency Board Resolution 540	August 11, 1983	Determination of Particulate Emissions from Stationary Sources	1-hour tests unless otherwise specified.
Ecology 9A, "Source Test Manual – Procedures for Compliance Testing"	July 12, 1990	Visual Determination of the Opacity of Emissions from Stationary Sources - for State and Puget Sound Clean Air Agency requirements	Any 13 opacity readings above standard in one hour, opacity readings taken in 15-second intervals.
EPA Method 9 40 CFR Part 60, Appendix A	July 1, 2001	Visual Determination of the Opacity of Emissions from Stationary Sources - for Federal Requirements	6-minute averaging period, opacity readings taken in 15-second intervals.
EPA Method 24 40 CFR Part 60, Appendix A	July 1, 2001	Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings	For water-based and water reducible coatings, vendor certification or data will be used for determining compliance. For other VOC containing materials, vendor certification or data will be the primary means for determining compliance. If Method 24 is used for coatings, grab samples will be taken and the average of all of a single type of coating (e.g., primer or topcoat), mixed and ready for application within the same coating operation, will be used for determining compliance.

EPA Reference Test Method	Date	Title	Averaging Period
EPA Method 319 40 CFR Part 60, Appendix A	July 1, 2001	Determination of Filtration Efficiency for Paint Overspray	None required.

For Puget Sound Clean Air Agency Method 5, EPA Method 6, EPA Method 7, A, C and D, EPA Method 24, EPA Method 26A and EPA Method 306 A and B, each test 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 EPA or Puget Sound Clean Air Agency approval, be determined from the arithmetic average of the two other runs.

**B. Non-EPA Test Methods**

1. Puget Sound Clean Air Agency Method 5
2. Ecology Method 9A

**C. Attachments**

- | <u>No.</u> | <u>Subject</u>   |
|------------|--|
| 1          | N J Shulman letter dated January 15, 1998 to The Boeing Company re Solvent Composition Requirements in Aerospace NESHAP                                |
| 2          | Jim Nolan letter dated November 30, 1999 to Robin Bennett re Plant 2 Draft Air Operating Permit Monitoring, Maintenance and Recordkeeping Requirements |
| 3          | Jay Willenberg letter dated September 21, 1999 to Edward Cierebiej re Review and Comment on Boeing's Draft Semiannual Compliance Report                |
| 4          | Douglas E Hardesty, EPA, letter dated Oct 14, 1998 to Jay M Willenberg re Preval Spray Units Applicability to the Aerospace NESHAP                     |
| 5          | Jay M Willenberg letter dated February 19, 1999 to Robin Bennett re Aerospace NESHAP Paint Booth Requirements  |
| 6          | Bonnie Thie, EPA, letter dated April 2, 1998 to Robin Bennett re Aerospace NESHAP Rule Interpretation  |
| 7          | J M Willenberg letter dated January 9, 1998 to David Moore re Notice of Construction (NOC) Requirements for Paint Spray Booths                         |
| 8          | David S Kircher letter dated May 8, 1995 to Hannah Kimball re Rule Applicability for Cold Solvent Cleaners   |
| 9          | Jay M Willenberg letter dated January 30, 2001 to Edward Cierebiej re Mobile Equipment   |
| 10         | Jay M Willenberg letter dated February 27, 1996 to Jenette Ramos re Approval of Exemption Request for Adhesive Coating Operation in the 24-50 Building |
| 11         | Jay M Willenberg letter dated January 18, 2002 to Robin Bennett re "New Source" Requirements for Spray Gun Cleaning Operations.                        |
| 12         | Steve M. Van Slyke letter dated October 10, 2001 to Jade Hudson re Notice of Construction Requirements for Scrubbers and Baghouses.                    |
| 13         | Steve Van Slyke letter dated January 16, 2002 to Neva Welch re Solvent Metal Cleaner rule interpretation.  |
| 14.        | David S Kircher letter dated August 10, 1999 to Charles Austin re Small Container Used for Immersion Cleaning with Acetone.                            |

15. Abigail C Lee letter dated August 1, 1996 to Chris Morris re Airplane Cleaning Operations Boeing Everett Facility.
16. A. Lee letter February 26, 1993 to J. Johnston re record keeping of the operations and maintenance of fume hoods and ovens.
17. A McIntyre email January 2, 2003 to J. Fosberg re Meaning of “month” and “week” requested December 18, 2002.