



## AIR OPERATING PERMIT

Puget Sound Clean Air Agency  
1904 3<sup>rd</sup> Ave, Suite 105  
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 Auburn is authorized to operate subject to the terms and conditions in this permit.

**PERMIT NO.: 13117**

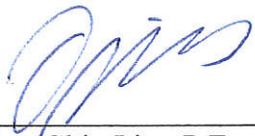
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**ISSUED TO: Boeing Commercial Airplane Group Auburn**

**PERMIT EXPIRATION DATE: February 2, 2009**

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| SIC Code, Primary:    | 3728                                                         |
| NAICS Code            | 336413                                                       |
| Nature of Business:   | Other Aircraft Part and Auxiliary Equipment<br>Manufacturing |
| Mailing Address:      | PO Box 3707, MC 5A-41, Seattle, WA 98124                     |
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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 either the state (or local authority) has not submitted the regulation to the EPA for approval into the State Implementation Plan (SIP), or the state (or local authority) has submitted it and the EPA has not yet approved it. “*STATE ONLY*” adoption dates are in *italicized* font. When the EPA does approve the new requirement into the SIP, the old requirement will be replaced and superseded by the new requirement. This replacement will take place automatically, with no changes being made to this permit until the permit is renewed. The new requirement will be enforceable by the EPA as well as the Puget Sound Clean Air Agency from the date that it is adopted into the SIP, and the old requirement will no longer be an applicable requirement.

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

The fifth column (Monitoring, Maintenance & Recordkeeping Method) identifies the methods described in Section II of the permit. Following these methods is 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      | <p>Puget Sound Clean Air Agency Reg I: 9.03 <i>This requirement will be superseded upon adoption of the 3/25/04 version of Reg I: 9.03 into the SIP</i></p> <p><i>Puget Sound Clean Air Agency Reg. I: 9.03 (State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 3/11/99 version of Reg I: 9.03</i></p> <p>WAC 173-400-040(1) <i>This requirement will be superseded upon adoption of</i></p> | <p>3/11/1999</p> <p>3/25/2004</p> <p>9/20/1993</p> <p>2/10/2005</p> | <p>Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour</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>More than 3 min in any 1 hr</p> | <p>Ecology Method 9A (See Section VIII)</p> |

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                                    |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------|
|            | <p><i>the 2/10/05 version of WAC 173-400-040(1) into the SIP</i></p> <p>WAC 173-400-040(1) (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)</p> |                              |                                                                                                                                                                  |                                                                                                        |                          |                                                          |
| I.A.2      | Puget Sound Clean Air Agency Reg I: 9.09                                                                                                                                                                                                                | 04/09/1998                   | 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 | II.A.1(a) Opacity Monitoring<br><br>II.A.1(b) Complaint Response<br><br>II.A.1(c) Facility Inspections | At least 1-hr per run    | Puget Sound Clean Air Agency Method 5 (See Section VIII) |
| I.A.3      | <p>WAC 173-400-060 This requirement shall be superseded by the 2/10/05 version of WAC 173-400-060 upon its adoption into the SIP</p>                                                                                                                    | 03/22/1991<br><br>02/10/2005 | Shall not emit particulate matter in excess of 0.1 gr/dscf from general process units, uncorrected for excess air                                                | II.A.1(a) Opacity Monitoring<br><br>II.A.1(b) Complaint Response<br><br>II.A.1(c) Facility Inspections | At least 1-hr per run    | EPA Method 5 (See Section VIII)                          |

FACILITY-WIDE APPLICABLE REQUIREMENTS

| Reqmt. No. | Enforceable Requirement                                                                                                                                                           | Adoption or Effective Date | Requirement Paraphrase<br>(Information Only)                                                                                                                                                                                                                                                                                                                                                            | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                | Emission Standard Period | Reference Test Method                                    |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------|
|            | <p><i>WAC 173-400-060 (State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 3/22/91 version of WAC 173-400-060</i></p> |                            |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                   |                          |                                                          |
| I.A.4      | Puget Sound Clean Air Agency Reg I: 9.09                                                                                                                                          | 04/09/1998                 | <p>Shall not emit particulate matter in excess of 0.05 gr/dscf corrected to 7% O<sub>2</sub> from fuel burning equipment burning fuel other than wood, coal, or other solid fossil fuel (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<br/>                     II.A.1(b) Complaint Response<br/>                     II.A.1(c) Facility Inspections</p> | At least 1-hr per run    | Puget Sound Clean Air Agency Method 5 (See Section VIII) |

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.5      | <p>WAC 173-400-050 (1) &amp; (3) <i>This requirement will be superseded upon adoption of the 2/10/05 version of WAC 173-400-050 into the SIP</i></p> <p>WAC 173-400-050 (1) &amp; (3) <i>(State Only) 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>3/22/1991</p> <p>2/10/2005</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 and incineration units except for emission units combusting wood derived fuels for the production of steam. Shall not emit particulate matter in excess of 0.2 gr/dscf at standard conditions..</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> |

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.6      | Puget Sound Clean Air Agency Reg I: 9.07<br><br>WAC 173-400-040(6) first paragraph only. <i>This requirement shall be superseded by the 9/15/01 version of WAC 173-400-040(6) upon its adoption into the SIP</i><br><br>WAC 173-400-040(6) (State Only). <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 9/20/93 version of WAC 173-400-040(6)</i> | 04/14/1994<br><br>09/20/1993<br><br>2/10/2005 | 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                                                                                                                                          | II.A.1(a) Opacity Monitoring                                       | At least 1-hr per run    | EPA Method 6C (See 40 CFR Part 60, Appendix A, July 1, 2001) |
| I.A.7      | Puget Sound Clean Air Agency Reg I: 9.11 (State Only)<br><br>WAC 173-400-040(5) <i>This requirement will</i>                                                                                                                                                                                                                                                                                             | 3/11/1999<br><br>09/20/1993                   | Shall not emit air contaminants in sufficient quantities and of such characteristics and duration as is, or is likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interferes with enjoyment of life and property | II.A.1(b) Complaint Response<br><br>II.A.1(c) Facility Inspections | N/A                      | N/A                                                          |

FACILITY-WIDE APPLICABLE REQUIREMENTS

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| 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>be superseded upon adoption of the 2/10/05 version of WAC 173-400-040(5) into the SIP</i></p> <p>WAC 173-400-040(5) (State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 9/20/93 version of WAC 173-400-040(5)</p> | 2/10/2005                  |                                           |                                                                 |                          |                       |

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.8      | Puget Sound Clean Air Agency 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                   |



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.11     | <p>Puget Sound Clean Air Agency Reg I: 7.09(b)<br/> <i>This requirement will be superseded upon adoption of the 9/25/08 version of Reg I: 7.09(b) into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I: 7.09(b)<br/> <i>(State Only) This requirement shall become federally enforceable upon adoption into the SIP and will replace the 9/110/98 version of Reg I: 7.09(b)</i></p> | <p>09/10/1998</p> <p>09/25/2008</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.B Operation and Maintenance (O&amp;M) Plan Requirements</p>         | N/A                      | N/A                   |
| I.A.12     | <p>WAC 173-400-040(4) <i>(State Only)</i></p>                                                                                                                                                                                                                                                                                                                                             | 2/10/2005                           | <p>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</p> | <p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> | N/A                      | N/A                   |
| I.A.13     | <p>WAC 173-400-040(2) <i>(State Only)</i></p>                                                                                                                                                                                                                                                                                                                                             | 2/10/2005                           | <p>Shall not deposit particulate matter beyond property boundary in sufficient quantity to interfere unreasonably with the use and enjoyment of the property</p>             | <p>II.A.1(b) Complaint Response</p> <p>II.A.1(c) Facility Inspections</p> | N/A                      | N/A                   |

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| 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.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 Section VIII) |
| I.A.15     | RCW 70.94.040 <i>(State Only)</i>                               | 1980                       | 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 activities and equipment associated with chemical process tankline operations except for the NO<sub>2</sub> and H<sub>2</sub>S scrubbers which are listed elsewhere in the permit. Chemical mill masking operations not covered by EU 2 are also listed. These activities and equipment have specific applicable requirements other than the general requirements in Section I.A. For the purpose of defining an "emission unit" in this permit, each piece of equipment listed below is considered a separate emission unit.*

| <b>Bldg.</b> | <b>Col./Dr.</b> | <b>MSS/ID #</b> | <b>Order of Approval #</b> | <b>Install Date</b> | <b>Source Description</b>  |
|--------------|-----------------|-----------------|----------------------------|---------------------|----------------------------|
| 17-06        | Door W-36/W-37  | 12453           | 6109                       | 1995                | Scrubber                   |
| 17-06        | Door W-38       | 12174           | 6526                       | 1996                | Scrubber                   |
| 17-07        | South of Bldg.  | 4224            | 7045                       | 1997                | Scrubber #4                |
| 17-07        | South of Bldg.  | 4223            | 7263                       | 1997                | Scrubber #3                |
| 17-07        | South of Bldg.  | 11624           | 7332                       | 1998                | Scrubber #6                |
| 17-08        | South end       | 64252           | 6760                       | 1994                | Scrubber                   |
| 17-45        | D/E1;Door 16    | 55146           | 8029                       | 1991                | Scrubber                   |
| 17-45        | D/E1;Door 16    | 55147           | 8029                       | 1991                | Scrubber                   |
| 17-45        | E1;Door 16      | 55148           | 8029                       | 1991                | Scrubber                   |
| 17-45        | E1, 2nd Floor;  | 55149           | 8029                       | 1991                | Scrubber                   |
| 17-45        | G25; Door 31    | 60036           | 8029                       | 1991                | Chemical Milling Tank Line |
| 17-45        | G2; Door 31     | 60037           | 8029                       | 1991                | Chemical Milling Tank Line |
| 17-62        | O/S East        | 58010           | 3842                       | 1992                | Scrubber                   |
| 17-62        | O/S East        | 58015           | 3842                       | 1992                | Scrubber                   |
| 17-62        | O/S East        | 58013           | 3842                       | 1992                | Scrubber                   |
| 17-62        | O/S East        | 58017           | 3842                       | 1992                | Scrubber                   |
| 17-62        | O/S East        | 58023           | 3842                       | 1992                | Scrubber                   |
| 17-62        | O/S East        | 58035           | 3842                       | 1992                | Scrubber                   |
| 17-62        | O/S East        | 58038           | 3842                       | 1992                | Scrubber                   |
| 17-62        | O/S East        | 58040           | 8702                       | 1992                | Scrubber No. 6             |
| 17-68        | A10.5           | 56536           | 3587                       | 1991                | Scrubber                   |
| 17-68        | A11             | 56584           | 3587                       | 1991                | Scrubber                   |
| 17-68        | A2              | 56585           | 3587                       | 1991                | Scrubber                   |
| 17-68        | A3              | 56602           | 3587                       | 1991                | Scrubber                   |
| 17-68        | A2.5            | 56586           | 3587                       | 1991                | Scrubber                   |
| 17-68        | O/S             | 4222            | 7264                       | 1997                | Scrubber                   |

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

**APPLICABLE REQUIREMENTS:**

| Reqmt. No.                                                                            | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                            | Requirement Paraphrase<br>(For Information Only)                                                                                                                   | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                           | Reference Test Method<br>(See Section VIII) |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| (a) Requirement No. EU 1.1 and 1.5 are the Puget Sound Clean Air Agency requirements. |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                    |                                                                                                                                                                              |                                             |
| EU 1.1                                                                                | <p>Puget Sound Clean Air Agency Reg I: 7.09(b) 9/10/98 <i>This requirement will be superseded upon adoption of the 9/25/2008 version of Reg I, 7.09(b) into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I, 7.09(b) 9/25/2008 (State Only) <i>This requirement shall become federally enforceable upon adoption into the SIP and will replace the 9/10/98 version of Reg I, 7.09(b)</i></p> | Boeing shall 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)                                                                                                                                                                                                                                                                                                                                               | Boeing shall 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.2(d)(vii) AA-tankline and Chemical Milling Tankline Operations</p> <p>II.A.1(c) Facility Inspections</p> |                                             |

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Requirement Paraphrase<br>(For Information Only)                                          | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                                                                                                                                                                | Reference Test Method<br>(See Section VIII) |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| EU 1.3     | RCW 70.94.152(7) 1996<br>(State Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Maintain equipment in good working order that has received an NOC Order of Approval.      | II.A.2(d)(vi)<br>Scrubbers for Metal Finishing Tankline<br><br>II.A.2(d)(vii) AA-tankline and Chemical Milling Tankline Operations<br><br>II.A.1(c) Facility Inspections                                                                                                                                          |                                             |
| EU 1.4     | Puget Sound Clean Air Agency Reg I, 9.03 (3/11/99) <i>This requirement will be superseded upon adoption of the 3/25/04 version of Reg I, 9.03 into the SIP</i><br><br>Puget Sound Clean Air Agency Reg. I, 9.03 (3/25/04) (State Only). <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 3/11/99 version of Reg I, 9.03</i><br><br>WAC 173-400-040(1) (a) & (b) (9/20/1993) <i>This requirement will be superseded upon adoption of the 2/10/05 version of WAC 173-400-040(1)</i> | Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour | II.A.2(d)(vi)<br>Scrubbers for Metal Finishing Tankline<br><br>II.A.2(d)(vii) AA-tankline and Chemical Milling Tankline Operations<br><br>II.A.1(c) Facility Inspections<br><br>II.A.1(b) Complaint Response<br><br>These monitoring methods supersede the monitoring method for this requirement listed in I.A.1 | Ecology Method 9A<br>(See Section VIII)     |

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                          | Requirement Paraphrase<br>(For Information Only)                                                                                                                        | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                                                                                                                                                                              | Reference Test Method<br>(See Section VIII)                     |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
|            | <p><i>into the SIP</i></p> <p>WAC 173-400-040(1) (2/10/05)(State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 9/20/1993 version of WAC 173-400-040(1)</p>                                                                                                                                                                           |                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                 |                                                                 |
| EU 1.5     | <p>Puget Sound Clean Air Agency Reg I, 9.09 (4/9/1998)</p> <p>WAC 173-400-060 (3/22/1991) This requirement shall be superseded by the 9/15/01 version of WAC 173-400-060 upon its adoption into the SIP</p> <p>WAC 173-400-060 (2/10/05) (State Only). This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/93 version of WAC 173-400-060</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.2(d)(vi) Scrubbers for Metal Finishing Tankline</p> <p>II.A.2(d)(vii) AA-tankline and Chemical Milling Tankline Operations</p> <p>II.A.1(c) Facility Inspections</p> <p>II.A.1(b) Complaint Response</p> <p>These monitoring methods supersede the monitoring method for this requirement listed in I.A.2 and I.A.4</p> | <p>Puget Sound Clean Air Agency Method 5 (See Section VIII)</p> |

| Reqmt. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Enforceable Requirement                           | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                      | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method<br>(See Section VIII) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|
| (b) Requirement No. EU 1.6 applies to the scrubber at Bldg. 17-06, MSS/ID# 12453.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                   |                                                                                                                                                                                                                                                                                       |                                                                    |                                             |
| EU 1.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Order of Approval #6109, Condition #4 (7/14/1995) | Boeing shall install and maintain a differential pressure indicator to indicate the differential pressure across the scrubber. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.                          | II.A.2(d)(vi)<br>Scrubbers for Metal Finishing Tankline            |                                             |
| (c) Requirement No. EU 1.7 applies to the scrubber at Bldg. 17-06, MSS/ID# 12174.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                   |                                                                                                                                                                                                                                                                                       |                                                                    |                                             |
| EU 1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Order of Approval #6526, Condition #4 (7/24/1996) | Boeing shall install and maintain a differential pressure indicator to measure the differential pressure across the scrubber. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the differential pressure indicator. | II.A.2(d)(vi)<br>Scrubbers for Metal Finishing Tankline            |                                             |
| (d) Requirement Nos. EU 1.8 and EU 1.9 are the Order of Approval 6760 permit conditions that apply to the scrubber at Bldg. 17-08, MSS/ID# 64252. This Order of Approval No. 6760, issued to clarify that the tankline described above is used for Research and Development and is therefore exempt from the requirements of 40 CFR Part 63, Subpart N, National Emission Standards (NESHAPS) for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks and also from PSAPCA Regulation III Section 3.01, Hard and Decorative Chromium Electroplating and Chromium Anodizing; and to delete ampere-hour accumulator and performance test requirements, hereby supersedes and cancels Order of Approval No. 6549 dated Aug 22, 1996 and Orders of Approval No. 6760 dated Feb 12, 1997 and Apr 10, 1997. |                                                   |                                                                                                                                                                                                                                                                                       |                                                                    |                                             |
| EU 1.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Order of Approval #6760, Condition #3 (7/23/99)   | Boeing shall not operate more than 6 ventilated tanks at any one time on each of the tank lines.                                                                                                                                                                                      | II.A.1(d) Work Practice Inspection                                 |                                             |
| EU 1.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Order of Approval #6760, Condition #4 (7/23/99)   | A gauge to indicate the static pressure differential across the scrubber will be installed and maintained. Within 90 days after beginning equipment operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.                                    | II.A.2(d)(vi)<br>Scrubbers for Metal Finishing Tankline            |                                             |

| Reqmt. No.                                                                         | Enforceable Requirement                          | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                           | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method<br>(See Section VIII) |
|------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|
| (e) Requirement No. EU 1.10 applies to the scrubber at Bldg. 17-07, MSS/ID# 4224.  |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                    |                                             |
| EU 1.10                                                                            | Order of Approval #7045, Condition #3 (12/18/98) | A gauge to indicate the static pressure differential across the scrubber will be installed and maintained. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.                                                                                                                                                                                                   | II.A.2(d)(vi)<br>Scrubbers for Metal Finishing Tankline            |                                             |
| (f) Requirement No. EU 1.11 applies to the scrubber at Bldg. 17-07, MSS/ID# 4223.  |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                    |                                             |
| EU 1.11                                                                            | Order of Approval #7263, Condition #3 (12/22/98) | A gauge to indicate the static pressure differential across the scrubber will be installed and maintained. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.                                                                                                                                                                                                   | II.A.2(d)(vi)<br>Scrubbers for Metal Finishing Tankline            |                                             |
| (g) Requirement No. EU 1.12 applies to the scrubber at Bldg. 17-68, MSS/ID# 4222.  |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                    |                                             |
| EU 1.12                                                                            | Order of Approval #7264, Condition #3 (11/25/97) | A gauge to indicate the static pressure differential across the scrubber will be installed and maintained. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.                                                                                                                                                                                                   | II.A.2(d)(vi)<br>Scrubbers for Metal Finishing Tankline            |                                             |
| (h) Requirement No. EU 1.13 applies to the scrubber at Bldg. 17-07, MSS/ID# 11624. |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                    |                                             |
| EU 1.13                                                                            | Order of Approval #7332, Condition #3 (4/14/98)  | Boeing shall install and maintain a pressure differential gauge across the scrubber packing and a pH monitoring system on the Viron wet scrubber. Within 90 days after the approval date of this Order of Approval, the acceptable range shall be marked on or nearby the pressure differential gauge, and the pH monitoring system will be operational and will indicate if the scrubber is operating outside of the acceptable pH range. | II.A.2(d)(vi)<br>Scrubbers for Metal Finishing Tankline            |                                             |

| Reqmt. No.                                                                                                                                                                                                                  | Enforceable Requirement                          | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)  | Reference Test Method<br>(See Section VIII) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|
| (i) Requirement Nos. EU 1.14 through EU 1.20 apply to the AA-tankline scrubbers at Bldg. 17-45, MSS/ID# 55146, 55147, 55148, and 55149 and the Chemical Milling tankline scrubbers at Bldg. 17-45, MSS/ID# 60036 and 60037. |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                     |                                             |
| EU 1.14                                                                                                                                                                                                                     | Order of Approval #8029, Condition #3 (5/30/01)  | Boeing shall install and maintain gauges to measure the pressure drop across the filter media of each scrubber controlling the "AA-tankline" and the "Chemical Milling tankline" in the 17-45 building. Within 90 days after the completion of the tankline modification project, the acceptable range for the pressure drop on each scrubber controlling the "AA-tankline" and the "Chemical Milling tankline" shall be clearly identified on or near the gauge or in the records of the pressure drop. | II.A.2(d)(vii) AA-tankline and Chemical Milling Tankline Operations |                                             |
| EU 1.15                                                                                                                                                                                                                     | Order of Approval #8029, Condition #4 (5/30/01)  | Once each week Boeing shall record the pressure drop across each scrubber controlling the "AA-tankline" and the "Chemical Milling tankline". If the pressure drop is not within the acceptable range, Boeing shall take corrective action as specified in the facility's Operation and Maintenance Plan.                                                                                                                                                                                                 | II.A.2(d)(vii) AA-tankline and Chemical Milling Tankline Operations |                                             |
| EU 1.16                                                                                                                                                                                                                     | Order of Approval #8029, Condition #5 (5/30/01). | Boeing shall install and maintain gauges to measure the pH of the scrubbing liquor on each of the scrubbers controlling the chemical milling tankline. Within 90 days after the completion of the tankline modification project, the acceptable range for the pH for each scrubber controlling the chemical milling tankline shall be clearly identified on or near the gauge or in the records of the pH.                                                                                               | II.A.2(d)(vii) AA-tankline and Chemical Milling Tankline Operations |                                             |

| Reqmt. No. | Enforceable Requirement                         | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                 | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)  | Reference Test Method<br>(See Section VIII) |
|------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|
| EU 1.17    | Order of Approval #8029, Condition #6 (5/30/01) | Once each week Boeing shall record the pH of the scrubbing liquor in each of the scrubbers controlling the chemical milling tankline. If the pH is not within the acceptable range, Boeing shall take corrective action as specified in the facility's Operation and Maintenance Plan.                                                                                                                                                                                           | II.A.2(d)(vii) AA-tankline and Chemical Milling Tankline Operations |                                             |
| EU 1.18    | Order of Approval #8029, Condition #7 (5/30/01) | By January 1, 2001, Boeing shall install and maintain gauges to measure either the water flow rate or the water pressure at the water headers on each of the scrubbers controlling the chemical milling tankline. The acceptable range for this gauge shall be clearly marked on or near the gauge or in the records of the water flow rate or water pressure.                                                                                                                   | II.A.2(d)(vii) AA-tankline and Chemical Milling Tankline Operations |                                             |
| EU 1.19    | Order of Approval #8029, Condition #8 (5/30/01) | By January 1, 2001, Boeing shall record the water flow rate or water pressure in each of the scrubbers controlling the chemical milling tankline on a weekly basis. If the water flow rate or water pressure is not within the acceptable range, Boeing shall take corrective action as specified in the facility's Operation and Maintenance Plan.                                                                                                                              | II.A.2(d)(vii) AA-tankline and Chemical Milling Tankline Operations |                                             |
| EU 1.20    | Order of Approval #8029, Condition #9 (5/30/01) | Boeing shall conduct and make a record of monthly inspections of the scrubbers controlling the chemical milling tankline including the following: (a) Check nozzles for pluggage and even flow patterns, (b) Check for leaks, and (c) Check for visible emissions. If the nozzles are malfunctioning, or if any leaks or visible emissions are noted during such inspections, Boeing shall take corrective action as specified in the facility's Operation and Maintenance Plan. | II.A.2(d)(vii) AA-tankline and Chemical Milling Tankline Operations |                                             |

| Reqmt. No.                                                                                    | Enforceable Requirement                        | Requirement Paraphrase (For Information Only)                                                                                                                                                                                                                                                                                     | Monitoring, Maintenance & Recordkeeping Method (See Section II) | Reference Test Method (See Section VIII) |
|-----------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------|
| (j) Requirement Nos. EU 1.21 and EU 1.22 apply to the scrubber at Bldg. 17-62, MSS/ID# 58040. |                                                |                                                                                                                                                                                                                                                                                                                                   |                                                                 |                                          |
| EU 1.21                                                                                       | Order of Approval #8702, Condition #3 (8/2/02) | Boeing shall install and maintain gauges to measure the pH and differential pressure of the chemical solution tank scrubber. Within 90 days after the completion of the tankline modification project, the acceptable range for the pressure drop shall be clearly identified on or near the gauge, or on a pressure drop log.    | II.A.2(d)(vi) Scrubbers for Metal Finishing Tankline            |                                          |
| EU 1.22                                                                                       | Order of Approval #8702, Condition #4 (8/2/02) | Within 90 days after the completion of the tankline modification project, Boeing shall begin collecting monthly differential pressure and pH readings. If the differential pressure or pH is not within the acceptable range, Boeing shall take corrective actions as specified in the facility's Operation and Maintenance Plan. | II.A.2(d)(vi) Scrubbers for Metal Finishing Tankline            |                                          |

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

| Source                          | Description                                                                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Puget Sound Clean Air Agency | Notice of Construction Requirements for Scrubbers and Baghouses. Letter dated October 10, 2001, Steve M. Van Slyke to Jade Hudson, the Boeing Company. See Attachment 12. |

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

**DESCRIPTION:** *This section includes all activities and equipment associated with surface coating, cleaning, and depainting operations, that have specific applicable requirements other than the general requirements in Section I.A. These operations include coating mixing, application, drying, and curing; spray gun cleaning; solvent wipe and solvent flush cleaning; chemical milling maskant application; depainting; and material and waste handling. Examples of equipment involved in these activities include spray booths, paint hangars, solvent cleaning benches, and gun cleaning units. In addition, cold solvent cleaners using solvents that meet the volatility thresholds in Puget Sound Clean Air Agency Regulation I Section 6.03(c)(53) are exempt from WAC 173-460-060 since they are exempt from review under Agency Regulation I Section 6.03. (WAC 173-460 is a supplemental regulation which does not apply to units that are exempt from review under Agency Regulation I Section 6.03).<sup>1</sup>*

*Cleaning, primer, topcoat and chemical milling maskant operations subject to the Aerospace NESHAP (40 CFR Part 63 Subpart GG) are included in this section. Currently, the Auburn facility does not repaint completed aircraft. Therefore, the depainting requirements of the Aerospace NESHAP are not included in this section.*

*The table below includes those units that have received Orders of Approval or were registered with the Puget Sound Clean Air Agency. This table does not necessarily include all units that may be subject to the requirements of this section; units that have not received an Order of Approval or were not previously registered with the Puget Sound Clean Air Agency are not included in the table. The last column in the table indicates whether Aerospace NESHAP-regulated coatings containing inorganic HAPs are sprayed in the unit at the time of permit issuance. However, any of the booths listed below may have such coatings sprayed in them in the future, and in some cases an amendment or modification to the existing permits may not be needed.*

| <i>Bldg.</i> | <i>Col/Dr</i> | <i>MSS/ID#</i> | <i>Order of Approval #</i> | <i>Date Installed</i> | <i>Source Description</i>        | <i>Aerospace NESHAP Regulated Coatings with Inorganic HAP Used?</i> |
|--------------|---------------|----------------|----------------------------|-----------------------|----------------------------------|---------------------------------------------------------------------|
| 17-05        | G11           | 6782           | Reg.                       | 1966                  | Spray coating booth - dry filter | Yes                                                                 |

<sup>1</sup> February 24, 2005 email from Steve Van Slyke, Puget Sound Clean Air Agency, to John Fosberg, Boeing.

| <i>Bldg.</i> | <i>Col/Dr</i>   | <i>MSS/ID#</i> | <i>Order of Approval #</i> | <i>Date Installed</i> | <i>Source Description</i>                        | <i>Aerospace NESHAP Regulated Coatings with Inorganic HAP Used?</i> |
|--------------|-----------------|----------------|----------------------------|-----------------------|--------------------------------------------------|---------------------------------------------------------------------|
| 17-05        | C13             | 6785           | Reg.                       | 1966                  | Spray coating booth - dry filter                 | Yes                                                                 |
| 17-05        | E10             | 6784           | 1250                       | 1966                  | Spray coating booth - dry filter                 | Yes                                                                 |
| 17-05        | A11             | 61261          | 5160                       | 1993                  | Spray coating booth - waterwall                  | No                                                                  |
| 17-06        | D1              | 6765           | 1991                       | 1979                  | Spray coating booth - dry filter                 | Yes                                                                 |
| 17-06        | D1              | 6766           | 1991                       | 1979                  | Spray coating booth - dry filter                 | Yes                                                                 |
| 17-07        | D10             | 9063           | Reg.                       | 1987                  | Spray coating booth - dry filter                 | No                                                                  |
| 17-07        | AA10.5          | 12355          | 7279                       | 1998                  | Spray coating booth - dry filter                 | Yes                                                                 |
| 17-07        | BB10            | 12356          | 7279                       | 1998                  | Spray coating booth - dry filter                 | Yes                                                                 |
| 17-45        | C2 Finish Zone  | 13305          | 7302                       | 1998                  | Spray coating booth - dry filter                 | Yes                                                                 |
| 17-45        | C2 Finish Zone  | 13306          | 7302                       | 1998                  | Spray coating booth - dry filter                 | Yes                                                                 |
| 17-45        | C2 Finish Zone  | 13307          | 7302                       | 1998                  | Spray coating booth - dry filter                 | Yes                                                                 |
| 17-45        | C2 Finish Zone  | 13308          | 7302                       | 1998                  | Spray coating booth - dry filter                 | Yes                                                                 |
| 17-45        | C2              | 14921          | 7689                       | 1999                  | Spray coating booth - dry filter (hand-dip line) | Yes                                                                 |
| 17-45        | B1, Mezzanine   | 14720          | 7941                       | 1999                  | Spray coating booth - dry filter (TCIB)          | Yes                                                                 |
| 17-45        | A1.9, 2nd Floor | 55220          | 8029                       | 1991                  | Spray coating booth - water wash                 | Yes                                                                 |

EMISSION UNIT SPECIFIC APPLICABLE REQUIREMENTS    Expiration Date: 02/02/2009  
 I.B.2 Coating, Cleaning, and Depainting Operations, Page 27 of 195

| <i>Bldg.</i> | <i>Col/Dr</i>   | <i>MSS/ID#</i> | <i>Order of Approval #</i> | <i>Date Installed</i> | <i>Source Description</i>                       | <i>Aerospace NESHAP Regulated Coatings with Inorganic HAP Used?</i> |
|--------------|-----------------|----------------|----------------------------|-----------------------|-------------------------------------------------|---------------------------------------------------------------------|
| 17-45        | A1.7, 2nd Floor | 55221          | 8029                       | 1991                  | Spray coating booth – water wash                | Yes                                                                 |
| 17-45        | A1.5, 2nd Floor | 55222          | 8029                       | 1991                  | Spray coating booth – water wash                | Yes                                                                 |
| 17-45        | B/C2 2ND FLR    | 55223          | 8029                       | 1991                  | Spray coating booth – dry filter                | Yes                                                                 |
| 17-45        | B1.6 2nd FLR    | 55224          | 8029                       | 1991                  | Spray coating booth – water wash                | Yes                                                                 |
| 17-45        | B1.8, 2nd Floor | 55225          | 8029                       | 1991                  | Spray coating booth – water wash                | Yes                                                                 |
| 17-45        | B2, 2ND FLR     | 55226          | 8029                       | 1991                  | Spray coating booth – dry filter                | Yes                                                                 |
| 17-45        | F2.5            | 56105          | 8669                       | 1991                  | Spray coating booth – dry filter                | Yes                                                                 |
| 17-45        | F7              | 3806           | 8747                       | 2003                  | Spray coating booth – dry filter                | Yes                                                                 |
| 17-45        | G/H2            | 59822          | 8506                       | 1991                  | Spray coating booth – dry filter                | Yes                                                                 |
| 17-45        | C1              | 10695          | 8506                       | 2001                  | Spray coating booth – dry filter (manual booth) | Yes                                                                 |
| 17-62        | F2.5            | 58303          | 3842                       | 1992                  | Spray coating booth – dry filter                | Yes                                                                 |
| 17-62        | E15             | 58305          | 3842                       | 1992                  | Spray coating booth – dry filter                | Yes                                                                 |
| 17-62        |                 | 6783           | 8835                       | 2003                  | Spray coating booth – dry filter                | Yes                                                                 |
| 17-68        | A7              | 56540          | 3587                       | 1991                  | Spray coating booth – dry filter                | Yes                                                                 |
| 17-68        | A6.1            | 56541          | 3587                       | 1991                  | Spray coating booth – dry filter                | Yes                                                                 |

| <i>Bldg.</i> | <i>Col/Dr</i> | <i>MSS/ID#</i> | <i>Order of Approval #</i> | <i>Date Installed</i> | <i>Source Description</i>               | <i>Aerospace NESHAP Regulated Coatings with Inorganic HAP Used?</i> |
|--------------|---------------|----------------|----------------------------|-----------------------|-----------------------------------------|---------------------------------------------------------------------|
| <i>17-68</i> | <i>A7.5</i>   | <i>59271</i>   | <i>3587</i>                | <i>1992</i>           | <i>Spray coating booth – dry filter</i> | <i>Yes</i>                                                          |
| <i>17-68</i> | <i>E-1</i>    | <i>10851</i>   | <i>7639</i>                | <i>2000</i>           | <i>Dry lube spray booth</i>             | <i>No</i>                                                           |

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

**APPLICABLE REQUIREMENTS:**

| Reqmt. No.                                                                                                                                                                                                                                                                                                | Enforceable Requirement                                           | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                          | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                         | Reference Test Method (See Section VIII) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------|
| <b>(a) NESHAP General Provisions</b>                                                                                                                                                                                                                                                                      |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                            |                                          |
| Requirement Nos. EU 2.1 through EU2.17 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 (4/5/02)<br><br>40 CFR 63.741(b) (9/1/98) | Aerospace operations must comply with 40 CFR 63 Subpart A and GG.                                                                                                                                                                                                                                                                                                                                                                                                         | NMR                                                                                        |                                          |
| EU 2. 2                                                                                                                                                                                                                                                                                                   | 40 CFR 63.5 (4/5/02)                                              | Boeing shall comply with preconstruction review requirements.                                                                                                                                                                                                                                                                                                                                                                                                             | NMR                                                                                        |                                          |
| EU 2. 3                                                                                                                                                                                                                                                                                                   | 40 CFR 63.6(b)(2) (4/20/06)                                       | 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) (4/20/06)                            | At all times, including periods of startup, shutdown, and malfunction, Boeing must operate and maintain any affected source consistent with safety and good air pollution control practice for minimizing emissions. Malfunctions must be corrected as soon as practicable after their occurrence. During periods of startup, shutdown, or malfunction, reduce emissions to the greatest extent which is consistent with safety and good air pollution control practices. | II.A.2(d)(ii) Spray Booths<br><br>II.A.2(h) Aerospace NESHAP Pressure Drop/Water Flow Rate |                                          |
| EU 2. 5                                                                                                                                                                                                                                                                                                   | 40 CFR 63.6(e)(3) (4/20/06)                                       | If control equipment is used to control HAPs, Boeing shall develop and implement a Startup, Shutdown and Malfunction Plan (SSMP), except for dry filters when Boeing follows the manufacturer's instructions. The SSMP does not need to address any scenario that would not cause the source to exceed an applicable emission limitation in the relevant standard.<br><br><i>(Note that additional O&amp;M provisions are included under 40 CFR 63.743(b).)</i>           | II.A.2(c) Documentation on File                                                            |                                          |

| Reqmt. No. | Enforceable Requirement             | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                            | Reference Test Method (See Section VIII) |
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| EU 2. 6    | 40 CFR 63.6(f)<br>(4/20/06)         | 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. If a startup, shutdown, or malfunction of one portion of an affected source does not affect the ability of particular emission points within other portions of the affected source to comply with the non-opacity emission standards set forth in this part, then that emission point must still comply with the non-opacity emission standards and other applicable requirements. | II.A.2(d)(ii)<br>Spray Booths<br><br>II.A.2(h)<br>Aerospace<br>NESHAP<br>Pressure Drop/<br>Water Flow<br>Rate |                                          |
| EU 2. 7    | 40 CFR 63.8<br>(b) (4/20/06)        | Conduct monitoring. Monitoring shall be conducted as set forth in Subpart A and GG.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | II.A.2(d)(ii)<br>Spray Booths<br><br>II.A.2(h)<br>Aerospace<br>NESHAP<br>Pressure Drop/<br>Water Flow<br>Rate |                                          |
| EU 2. 8    | 40 CFR 63.8(f)<br>(4/20/06)         | Boeing must receive permission from the Administrator before using an alternative monitoring procedure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NMR                                                                                                           |                                          |
| EU 2. 9    | 40 CFR 63.9(b)<br>(5/30/03)         | 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)<br>(5/30/03)         | 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)<br>(5/30/03)         | 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)<br>(4/20/06) | Boeing must send reports to 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)(1)<br>(4/20/06)     | 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)<br>Documentation<br>on File                                                                         |                                          |

| Reqmt. No. | Enforceable Requirement         | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| EU 2. 14   | 40 CFR 63.10(b)(2)<br>(4/20/06) | Boeing shall maintain relevant records records of startups, shutdowns, malfunctions, maintenance, corrective actions, monitoring, measurements, and testing in accordance with the rule.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | II.A.2(c)<br>Documentation on File                                 |                                          |
| EU 2. 15   | 40 CFR 63.10(b)(3)<br>(4/20/06) | If Boeing determines that its Auburn facility 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. | II.A.2(c)<br>Documentation on File                                 |                                          |
| EU 2. 16   | 40 CFR 63.10(d)(1)<br>(4/20/06) | Boeing shall submit reports in accordance with 40 CFR 63 Subpart GG.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NMR                                                                |                                          |
| EU 2. 17   | 40 CFR 63.10(f)<br>(4/20/06)    | 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                                                                |                                          |

| Reqmt. No.                                                                                                                                                                                                                                                                                                                                                                                       | Enforceable Requirement        | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| <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> <p>The manufacturer's supplied data is sufficient to demonstrate compliance with the solvent composition requirements in the Aerospace NESHAP, unless another method is cited in the NESHAP.<sup>2</sup></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                                                                |                                          |
| 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                                                                |                                          |

<sup>2</sup> January 15, 1998 letter from Neal Shulman, Puget Sound Clean Air Agency, to David Moore, Boeing.

| Reqmt. No. | Enforceable Requirement       | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                        | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| EU 2. 21   | 40 CFR 63.741(g)<br>(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)<br>(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                                                                |                                          |
| EU 2. 23   | 40 CFR 63.741(i)<br>(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)<br>(9/1/98)  | Aerospace NESHAP does not apply to rework on antique vehicles.                                                                                                                                                                                                                                                                                                                                                                                          | NMR                                                                |                                          |
| EU 2. 25   | 40 CFR 63.743(c)<br>(4/20/06) | Requirements for the use of air pollution control device not listed in this subpart.                                                                                                                                                                                                                                                                                                                                                                    | NMR                                                                |                                          |

| Reqmt. No. | Enforceable Requirement    | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| EU 2. 26   | 40 CFR 63.743(d) (4/20/06) | <p>Facilities may choose to comply with averaging provisions herein rather than individual coating limits in 40 CFR 63.745 and 40 CFR 63.747. If choosing to comply with averaging provisions, NBF/Plant 2 shall use any combination of primers, topcoats (including self-priming topcoats), Type I chemical milling maskants, or Type II chemical milling maskants such that the monthly volume-weighted average organic HAP and VOC contents of the combination of primers, topcoats, Type I chemical milling maskants, or Type II chemical milling maskants, as determined in accordance with the applicable procedures set forth in 40 CFR 63.750, complies with the specified content limits in 40 CFR 63.745(c) and 40 CFR 63.747(c).</p> <p>Averaging is allowed only for uncontrolled primers, topcoats (including self-priming topcoats), Type I chemical milling maskants, or Type II chemical milling maskants.</p> <p>Averaging is not allowed between primers and topcoats (including self-priming topcoats); nor between Type I and Type II chemical milling maskants; nor between primers and chemical milling maskants; nor between topcoats and chemical milling maskants.</p> | II.A.2.g<br>Aerospace<br>NESHAP<br>Coating                         |                                          |
| 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<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                  | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| <b>(c) ANESHAP Cleaning</b>                                                                                                                                                                                                                                                                                                                             |                                 |                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                    |                                          |
| Requirement Nos. EU 2. 31 through EU 2. 48 are the Aerospace NESHAP requirements related to the cleaning of aerospace parts and spray equipment. The manufacturer's supplied data is sufficient to demonstrate compliance with the solvent composition requirements in the Aerospace NESHAP, unless another method is cited in the NESHAP. <sup>2</sup> |                                 |                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                    |                                          |
| EU 2. 31                                                                                                                                                                                                                                                                                                                                                | 40 CFR 63.744 Table 1 (6/23/03) | 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) (6/23/03)      | 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) (6/23/03)   | 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 of shift, whichever comes first. | II.A.1(d) Work Practice Inspection                                 |                                          |
| EU 2. 34                                                                                                                                                                                                                                                                                                                                                | 40 CFR 63.744(a)(1) (6/23/03)   | 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) (6/23/03)   | 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) (6/23/03)   | Handling and transfer of cleaning solvents must be conducted in a manner as to minimize spills.                                                                                                                                                                                                                                                                                                   | II.A.1(d) Work Practice Inspection                                 |                                          |
| EU 2. 37                                                                                                                                                                                                                                                                                                                                                | 40 CFR 63.744(b) (6/23/03)      | 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<br>(For Information Only)                                                                                                   | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| EU 2. 38   | 40 CFR 63.744(b)(1) & (2) (6/23/03) | 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)<br>Aerospace<br>NESHAP<br>Solvent<br>Cleaner             | 40 CFR 63.750(a), 63.750(b)              |

| Reqmt. No. | Enforceable Requirement    | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                  | Reference Test Method (See Section VIII) |
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| EU 2. 39   | 40 CFR 63.744(c) (6/23/03) | <p>Must use one or more of the following techniques, or their equivalent, to clean spray guns:</p> <ul style="list-style-type: none"> <li>• Enclosed system: clean spray gun by forcing solvent through gun in an enclosed system that is closed at all times except when inserting or removing the spray gun.</li> <li>• Nonatomized cleaning: clean gun by placing solvent in the pressure pot and forcing it through the gun with the atomizing cap in place. (No atomizing air.) Direct solvent from the gun into a container that is closed when not in use.</li> <li>• Disassembled cleaning: disassemble the gun and clean the components by hand in a vat, which shall remain closed at all times except when in use; or soak components in a vat, which shall remain closed during the soaking and when not inserting or removing parts.</li> <li>• Atomizing cleaning: Clean spray gun by forcing cleaning solvent through the gun and directing the spray into a waste container that is fitted with a device designed to capture the atomized cleaning solvent emissions.</li> </ul> <p>Cleaning of nozzle tips of automated spray equipment systems, except for robotic systems programmed to spray into a closed container, is exempt from the requirements of paragraphs c(1)-(4).</p> <p>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).</p> <p>Cleaning procedures used in Safety Kleen gun cleaner models 1107 and 1111 are generally equivalent to those specified in 40 CFR 63.744(c)(2) and (3).<sup>3</sup></p> | <p>II.A.1(d)<br/>Work Practice Inspection</p> <p>II.A.2(d)(i)<br/>Enclosed Gun Cleaning Systems</p> |                                          |

<sup>3</sup> June 14, 2000 letter from Jay Willenberg, Puget Sound Clean Air Agency, to Robin Bennett, Boeing.

| Reqmt. No. | Enforceable Requirement    | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| EU 2. 40   | 40 CFR 63.744(d) (6/23/03) | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | II.A.1(d) Work Practice Inspection                                 |                                          |
| EU 2. 41   | 40 CFR 63.744(e) (6/23/03) | <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> <li>(6) Cleaning of fuel cells, fuel tanks, and confined spaces;</li> <li>(7) Surface cleaning of solar cells, coated optics, and thermal control surfaces;</li> <li>(8) Cleaning during fabrication, assembly, installation and maintenance of upholstery, curtains, carpet, and other textile materials used in the interior of the aircraft;</li> <li>(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;</li> <li>(10) Cleaning of aircraft transparencies, polycarbonate,</li> </ul> | NMR                                                                |                                          |

EMISSION UNIT SPECIFIC APPLICABLE REQUIREMENTS    Expiration Date: 02/02/2009  
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| Reqmt. No. | Enforceable Requirement      | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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|            |                              | <p>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                                                                |                                          |
| 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                         |                                          |
| 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                         |                                          |
| 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                         |                                          |

| Reqmt. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Enforceable Requirement         | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                            | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| EU 2. 47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 40 CFR 63.752(b)(4)<br>(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)<br>Aerospace NESHAP Solvent Cleaner                      |                                          |
| EU 2. 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 40 CFR 63.752(b)(5)<br>(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)<br>Enclosed Gun Cleaning Systems                      |                                          |
| <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> <p>The manufacturer's supplied data is sufficient to demonstrate compliance with the solvent composition requirements in the Aerospace NESHAP, unless another method is cited in the NESHAP.<sup>2</sup></p> <p>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. <sup>4</sup></p> |                                 |                                                                                                                                                                                                                             |                                                                    |                                          |
| EU 2. 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 40 CFR 63.741(i)<br>(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)<br>Documentation on File                                 |                                          |
| EU 2. 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 40 CFR 63.745(a)<br>(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.                                                     | NMR                                                                |                                          |

<sup>4</sup> February 19, 1999 letter from J. M. Willenberg, Puget Sound Clean Air Agency, to Robin Bennett, Boeing, and April 2, 1999 letter from Bonnie Thie, EPA, to Robin Bennett, Boeing.

| Reqmt. No. | Enforceable Requirement               | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| EU 2. 51   | 40 CFR 63.745(b)<br>(12/8/00)         | Boeing shall conduct handling and transfer of HAP-containing primers and topcoats in such a manner to minimize spills.                                                                                                                                                                                                                                                                                                                                                                                                               | II.A.1(d) Work Practice Inspection                                 |                                          |
| EU 2. 52   | 40 CFR 63.745(c)<br>(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                                 | EPA Method 24<br>(see Section VIII)      |
| EU 2. 53   | 40 CFR 63.745(e)<br>(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.<br>(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<br>(2) Use the averaging provisions described in 40 CFR 63.743(d), EU 2. 26. | II.A.2(g) Aerospace NESHAP Coating                                 |                                          |
| EU 2. 54   | 40 CFR 63.745(f)(1),<br>(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)<br>(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 the use of an extension on the spray gun to properly reach limited access spaces.<br><br>Preval hand-held aerosol cans with a non-refillable pressurized portion qualify for the exemption under 40 CFR 63.741(f). <sup>5</sup>                                                                                                                     | NMR                                                                |                                          |
| EU 2. 56   | 40 CFR 63.750(i)<br>(10/17/00)        | Boeing may apply for alternative application methods for primers and topcoats by following procedures in 40 CFR 63.750(i).                                                                                                                                                                                                                                                                                                                                                                                                           | NMR                                                                |                                          |

<sup>5</sup> October 14, 1998 letter from Douglas Hardesty, EPA, to Jay Willenberg, Puget Sound Clean Air Agency.

| Reqmt. No.                                                                                                                                                                                                                                                                              | Enforceable Requirement         | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                     | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| <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)<br>(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)<br>Aerospace<br>NESHAP<br>Coating                        |                                          |
| EU 2. 58                                                                                                                                                                                                                                                                                | 40 CFR 63.752(c)(2)<br>(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)<br>Aerospace<br>NESHAP<br>Coating                        |                                          |
| EU 2. 59                                                                                                                                                                                                                                                                                | 40 CFR 63.752(c)(3)<br>(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)<br>Aerospace<br>NESHAP<br>Coating                        |                                          |
| EU 2. 60                                                                                                                                                                                                                                                                                | 40 CFR 63.752(c)(4)<br>(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)<br>Aerospace<br>NESHAP<br>Coating                        |                                          |

| Reqmt. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Enforceable Requirement        | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                   | Reference Test Method (See Section VIII) |
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| <p><b>(f) ANESHAP Primer &amp; Topcoat</b></p> <p>Requirement Nos. EU 2. 61 through EU 2. 77 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 may 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 Auburn 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) (4/20/06) | 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)<br>Approval by the Puget Sound Clean Air Agency, via NOC/Order of Approval |                                          |
| EU 2. 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 40 CFR 63.743(b) (4/20/06)     | Boeing must prepare 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:<br><br>(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;<br><br>(2) The plan shall include a systematic procedure for identifying malfunctions and for reporting them immediately to supervisory personnel: and<br><br>(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)<br>Documentation on File                                                   |                                          |
| EU 2. 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 40 CFR 63.743(b) (4/20/06)     | 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                                                                                  |                                          |

| Reqmt. No. | Enforceable Requirement                 | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                   | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| EU 2. 64   | 40 CFR 63.745(g)(1)<br>(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)<br>Facility Inspections                                  |                                          |
| EU 2. 65   | 40 CFR 63.745(g)(2)(i)(A)<br>(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)(B), EU 2.66, or 40 CFR 63.745(g)(2)(i)(C), EU 2.67.                      | II.A.2(c)<br>Documentation on File                                 | EPA Method 319 (See Section VIII)        |
| EU 2. 66   | 40 CFR 63.745(g)(2)(i)(B)<br>(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 waterwash system that remains in operation during all coating application operations. Alternatively, may choose to comply with 40 CFR 63.745(g)(2)(i)(A), EU 2.65 or 40 CFR 63.745(g)(2)(i)(C), EU 2.67. .                                                        | II.A.2(h)<br>Aerospace NESHAP Pressure Drop/ Water Flow Rate       |                                          |
| EU 2. 67   | 40 CFR 63.745(g)(2)(i)(C)<br>(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, or 40 CFR 63.745(g)(2)(i)(B), EU 2.66. | II.A.2(c)<br>Documentation on File                                 |                                          |
| EU 2. 68   | 40 CFR 63.745(g)(2)(ii)(A)<br>(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 2.69.                                                         | II.A.2(c)<br>Documentation on File                                 | EPA Method 319 (See Section VIII)        |

| Reqmt. No. | Enforceable Requirement              | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                   | Reference Test Method (See Section VIII) |
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| EU 2. 69   | 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. 68.                                                                                                                                                                                                                                                             | II.A.2(a) Approval by the Puget Sound Clean Air Agency, via NOC/Order of Approval<br>II.A.2(c) Documentation on File |                                          |
| EU 2. 70   | 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<br>II.A.2(h) Aerospace NESHAP Pressure Drop/ Water Flow Rate                              |                                          |
| EU 2. 71   | 40 CFR 63.745(g)(2)(v) (12/8/00)     | When water wash is used to control inorganic HAP emissions from the booth, Boeing must continuously monitor water flow rate and record once per shift.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | II.A.2(h) Aerospace NESHAP Pressure Drop/ Water Flow Rate                                                            |                                          |
| EU 2. 72   | 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/ Water Flow Rate                                                            |                                          |
| EU 2. 73   | 40 CFR 63.745(g)(4) (12/8/00)        | The requirements of paragraphs (g)(1), EU 2.64, through (g)(3), EU 2.72, 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                                                                                                                  |                                          |

| Reqmt. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Enforceable Requirement          | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                        | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| EU 2. 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 40 CFR 63.750(o)<br>(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)<br>Documentation on File                                 |                                          |
| EU 2. 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 40 CFR 63.751(c)(1)<br>(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 or water flow rate as applicable 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)<br>Aerospace NESHAP<br>Pressure Drop/<br>Water Flow Rate |                                          |
| EU 2. 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 40 CFR 63.751(c)(2)<br>(12/8/00) | When water wash is used to control inorganic HAP emissions from the booth, while primer and topcoat application operations are occurring, Boeing shall continuously monitor the water flow rate through the system and read and record the water flow rate once per shift following the recordkeeping requirements of 40 CFR 63.752(d). | II.A.2(h)<br>Aerospace NESHAP<br>Pressure Drop/<br>Water Flow Rate |                                          |
| EU 2. 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 40 CFR 63.752(d)<br>(9/1/98)     | Boeing shall record pressure drop or water flow rate once each shift. Log shall include limits.                                                                                                                                                                                                                                         | II.A.2(h)<br>Aerospace NESHAP<br>Pressure Drop/<br>Water Flow Rate |                                          |
| <b><i>(g) Chemical Milling Maskants</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |                                                                                                                                                                                                                                                                                                                                         |                                                                    |                                          |
| Requirement No. EU 2.78 through EU 2. 82 are the Aerospace NESHAP requirements related to application of chemical milling maskants to aerospace parts and products. These operations include chemical milling maskant mixing, application, drying, and curing. The operations are conducted mainly at the Auburn 17-45 facility, and use either compliant waterborne maskants as provided by 40 CFR 63.741(i), or maskants that are exempt from the Aerospace NESHAP in accordance with 40 CFR 63.741(f) because of their use as specialty coatings or because the HAP and VOC concentrations are less than 0.1% for carcinogens or 1.0% for noncarcinogens. |                                  |                                                                                                                                                                                                                                                                                                                                         |                                                                    |                                          |
| EU 2. 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 40 CFR 63.747(a)<br>(3/27/98)    | Each chemical milling maskant operation shall comply with 40 CFR 63.747(c) (EU 2. 80 - EU 2. 82) for uncontrolled maskants.                                                                                                                                                                                                             | NMR                                                                |                                          |
| EU 2. 79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 40 CFR 63.747(b)<br>(3/27/98)    | Boeing shall minimize spills during handling and transfer of maskants                                                                                                                                                                                                                                                                   | NMR                                                                |                                          |

| Reqmt. No.                                                                                                                                                                      | Enforceable Requirement                                   | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                             | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| EU 2. 80                                                                                                                                                                        | 40 CFR 63.747(c)(1)<br>(3/27/98)                          | Organic HAP emissions from maskants shall be limited to no more than 622 grams per liter of Type I maskant (less water), and no more than 160 grams per liter of Type II maskant (less water).                                               | II.A.2(k)<br>Chemical Milling Maskant Application                  | EPA Method 24<br>(see Section VIII)      |
| EU 2. 81                                                                                                                                                                        | 40 CFR 63.747(c)(2)<br>(3/27/98)                          | VOC emissions from maskants shall be limited to no more than 622 grams per liter of Type I maskant (less water and exempt solvents), and no more than 160 grams per liter of Type II maskant (less water and exempt solvents).               | II.A.2(k)<br>Chemical Milling Maskant Application                  | EPA Method 24<br>(see Section VIII)      |
| EU 2. 82                                                                                                                                                                        | 40 CFR 63.747(c)(3)<br>(3/27/98)                          | 40 CFR 63.747(c) (1), EU 2. 80 and (c) (2) EU 2. 81 do not apply to:<br><br>(i) Touch-up of scratched surfaces or damaged maskant; and<br><br>(ii) Touch-up of trimmed edges.                                                                | NMR                                                                |                                          |
| <b><i>(h) ANESHAP Waste</i></b>                                                                                                                                                 |                                                           |                                                                                                                                                                                                                                              |                                                                    |                                          |
| Requirement No. EU 2. 83 is the Aerospace NESHAP requirement related to waste handling operations.                                                                              |                                                           |                                                                                                                                                                                                                                              |                                                                    |                                          |
| EU 2. 83                                                                                                                                                                        | 40 CFR 63.748<br>(9/1/95)                                 | Except as provided in EU 2.20, Boeing shall conduct handling and transfer of HAP-containing RCRA wastes in such a manner to minimize spills.                                                                                                 | II.A.1(d)<br>Work Practice Inspection                              |                                          |
| <b><i>(i) PS Clean Air Aerospace Regulations</i></b>                                                                                                                            |                                                           |                                                                                                                                                                                                                                              |                                                                    |                                          |
| Requirement Nos. EU 2. 84 through <b>Error! Reference source not found.</b> are the Puget Sound Clean Air Agency Regulation I and II requirements for spray coating operations. |                                                           |                                                                                                                                                                                                                                              |                                                                    |                                          |
| EU 2. 84                                                                                                                                                                        | Puget Sound Clean Air Agency Reg II: 3.09(a)<br>(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                                                                |                                          |

| Reqmt. No.                                                                                                               | Enforceable Requirement                                              | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|
| EU 2. 85                                                                                                                 | 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<br/> Military Aerospace Topcoat: 420 gm VOC/Liter<br/> Commercial Aerospace Primer: 350 gm VOC/Liter<br/> Military Aerospace Primer: 350 gm VOC/Liter<br/> 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       | EPA Method 24 (see Section VIII)         |
| EU 2. 86                                                                                                                 | Puget Sound Clean Air Agency Reg II: 3.09(c) (12/9/93)               | The coatings in Regulation II, 3.09(b), EU 2.85, 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).                                                                                                                                                                                                                                                                                                                                                                                | II.A.1(d) Work Practice Inspection                                 |                                          |
| EU 2. 87                                                                                                                 | 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. 88                                                                                                                 | 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                                 |                                          |
| <b>(j) O&amp;M</b>                                                                                                       |                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                    |                                          |
| Requirement Nos. EU 2.89 and EU 2.90 are the Puget Sound Clean Air Agency O&M requirements for operating permit sources. |                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                    |                                          |
| EU 2. 89                                                                                                                 | Puget Sound Clean Air Agency Reg I, 7.09(b) (9/10/98)<br><i>This</i> | Boeing shall develop and implement an O&M plan to assure continuous compliance with Puget Sound Clean Air Agency Regulations I, II, and III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | II.B Operation and Maintenance (O&M) Plan Requirements             |                                          |

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| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                          | Requirement Paraphrase<br>(For Information Only) | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                   | Reference Test Method (See Section VIII) |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------|
|            | <p><i>requirement will be superseded upon adoption of the 9/25/2008 version of Reg I, 7.09(b) into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I, 7.09(b) (9/25/2008) (State Only)<br/> <i>This requirement shall become federally enforceable upon adoption into the SIP and will replace the 9/10/98 version of Reg I, 7.09(b)</i></p> |                                                  | <p>This monitoring method supersedes the monitoring method for this requirement listed in I.A.11</p> |                                          |

| Reqmt. No.                                                                                          | Enforceable Requirement                           | Requirement Paraphrase<br>(For Information Only)                                                                                                                         | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                     | Reference Test Method (See Section VIII) |
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| EU 2. 90                                                                                            | Puget Sound Clean Air Agency Reg I: 9.20 (6/9/88) | All equipment must be maintained in good working order.                                                                                                                  | II.A.2(d)(ii) Spray Booths<br><br>II.A.1(c) Facility Inspections<br><br>These monitoring methods supersede the monitoring method for this requirement listed in I.A.10 |                                          |
| <b>(k) PSD Approval</b>                                                                             |                                                   |                                                                                                                                                                          |                                                                                                                                                                        |                                          |
| Requirement Nos. EU 2.91 through EU 2.98 are the PSD approval conditions that apply to Bldg. 17-45. |                                                   |                                                                                                                                                                          |                                                                                                                                                                        |                                          |
| EU 2. 91                                                                                            | PSD No. 88-5 Amendment 2 Approval Condition 1     | Emissions of VOC from Building 17-45 shall not exceed 278 tons per year.                                                                                                 | II.A.2(e) Emission Limitation by PSD or Order of Approval Conditions                                                                                                   |                                          |
| EU 2. 92                                                                                            | PSD No. 88-5 Amendment 2 Approval Condition 2     | Boeing Commercial Airplanes shall, upon request, report the quantities and VOC content of each maskant, paint and cleaning solution to the Puget Sound Clean Air Agency. | II.A.2(c) Documentation on File                                                                                                                                        |                                          |
| EU 2. 93                                                                                            | PSD No. 88-5 Amendment 2 Approval Condition 3     | Only water-based chemicals shall be used in the maskant dip tank.                                                                                                        | II.A.2(c) Documentation on File<br><br>II.A.1(d) Work Practice Inspection                                                                                              |                                          |

| Reqmt. No.                                                                                                                                      | Enforceable Requirement                        | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                 | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| EU 2. 94                                                                                                                                        | PSD No. 88-5 Amendment 2 Approval Condition 4  | At least 50 percent of the paint used at Building 17-45 shall be applied in a spray booth by use of high transfer efficiency (HTE) painting equipment and methods, such as: high volume low pressure (HVLP) spray guns or electrostatic paint application.                                                                                                                                       | II.A.1(d)<br>Work Practice Inspection                              |                                          |
| EU 2. 95                                                                                                                                        | PSD No. 88-5 Amendment 2 Approval Condition 5  | Solvent-laden wiping rags will be deposited in covered containers.                                                                                                                                                                                                                                                                                                                               | II.A.1(d)<br>Work Practice Inspection                              |                                          |
| EU 2. 96                                                                                                                                        | PSD No. 88-5 Amendment 2 Approval Condition 6  | All operations in Building 17-45 shall comply with Regulation II of the Puget Sound Clean Air Agency.                                                                                                                                                                                                                                                                                            | NMR                                                                |                                          |
| EU 2. 97                                                                                                                                        | PSD No. 88-5 Amendment 2 Approval Condition 8  | Any activity that is undertaken by Boeing Commercial Airplanes or others, in a manner which is inconsistent with the application and this determination, shall be subject to Ecology enforcement under applicable regulations. Nothing in this determination shall be construed to relieve Boeing Commercial Airplanes of its obligation under any state, local, or federal laws or regulations. | NMR                                                                |                                          |
| EU 2. 98                                                                                                                                        | PSD No. 88-5 Amendment 2 Approval Condition 10 | Access to the Building 17-45 by the Environmental Protection Agency (EPA), state or local regulatory personnel shall be permitted upon request for the purpose of compliance assurance inspections. Failure to allow such access is grounds for revocation.                                                                                                                                      | NMR                                                                |                                          |
| <b><i>(l) Order of Approval 7941</i></b>                                                                                                        |                                                |                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                    |                                          |
| Requirement Nos. EU 2.99 and EU 2. 100 are the Order of Approval 7941 conditions that apply to the MSS 14720 TCIB dry booth in the Bldg. 17-45. |                                                |                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                    |                                          |
| EU 2. 99                                                                                                                                        | Order of Approval #7941 Condition #3 (11/2/99) | Boeing shall install and maintain a gauge to measure the pressure drop across the spray booth exhaust filter systems. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.                                                                                                                                              | II.A.2(d)(ii)<br>Spray Booths                                      |                                          |

| Reqmt. No.                                                                                                                                                | Enforceable Requirement                            | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                   | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)       | Reference Test Method (See Section VIII) |
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| EU 2. 100                                                                                                                                                 | Order of Approval #7941<br>Condition #4 (11/2/99)  | Boeing shall log the pressure drop across the exhaust filter system once each shift that the spray booth is used for spraying primers or topcoats as defined in 40 CFR 63.742, 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 is not within the acceptable range, take corrective action specified by 40 CFR 63.745(g)(3), EU 2. 72. | II.A.2(h)<br>Aerospace<br>NESHAP<br>Pressure Drop/<br>Water Flow<br>Rate |                                          |
| <b><i>(m) Order of Approval 7689</i></b>                                                                                                                  |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                          |                                          |
| Requirement Nos. EU 2. 1011 and EU 2.102 are the Order of Approval 7689 conditions that apply to the MSS 14921 hand-dip line booth in the Bldg. 17-45.    |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                          |                                          |
| EU 2. 101                                                                                                                                                 | Order of Approval #7689<br>Condition #3 (4/9/99)   | Boeing shall install and maintain a gauge to measure the pressure drop across the spray booth exhaust filter systems. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.                                                                                                                                                                                                | II.A.2(d)(ii)<br>Spray Booths                                            |                                          |
| EU 2. 102                                                                                                                                                 | Order of Approval #7689<br>Condition #4 (4/9/99)   | Boeing shall log the pressure drop across the exhaust filter system once each shift that the spray booth is used for spraying primers or topcoats as defined in 40 CFR 63.742, 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 is not within the acceptable range, take corrective action specified by 40 CFR 63.745(g)(3), EU 2. 72. | II.A.2(h)<br>Aerospace<br>NESHAP<br>Pressure Drop/<br>Water Flow<br>Rate |                                          |
| <b><i>(n) Order of Approval 7639</i></b>                                                                                                                  |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                          |                                          |
| Requirement Nos. EU 2. 1033 and EU 2. 1044 are the Order of Approval 7639 conditions that apply to the MSS 10851 dry lube spray booth in the Bldg. 17-68. |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                          |                                          |
| EU 2. 103                                                                                                                                                 | Order of Approval #7639<br>Condition #3 (12/15/98) | Boeing shall install and maintain a gauge to measure the pressure drop across the spray booth exhaust filter systems. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.                                                                                                                                                                                                | II.A.2(d)(ii)<br>Spray Booths                                            |                                          |

| Reqmt. No.                                                                                                                                                                | Enforceable Requirement                         | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                             | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| EU 2. 104                                                                                                                                                                 | Order of Approval #7639 Condition #4 (12/15/98) | Once each month, Boeing shall determine if pressure drop across the filters is in the acceptable range. If the pressure drop is not within the acceptable range, take corrective action as specified in the operation and maintenance plan.                                                  | II.A.2(d)(ii) Spray Booths                                         |                                          |
| <b>(o) Order of Approval 7302</b>                                                                                                                                         |                                                 |                                                                                                                                                                                                                                                                                              |                                                                    |                                          |
| Requirement Nos. EU 2.105 through EU 2.108 are the Order of Approval 7302 conditions that apply to the MSS 13305, 13306, 13307 and 13308 spray booths in the Bldg. 17-45. |                                                 |                                                                                                                                                                                                                                                                                              |                                                                    |                                          |
| EU 2. 105                                                                                                                                                                 | Order of Approval #7302 Condition #3 (3/31/98)  | Boeing shall install and maintain instrumentation to measure the pressure drop across the three-stage dry filter system of each spray booth. Within 90 days after beginning operations, the acceptable ranges for the pressure drop shall be clearly marked on or nearby the instrumentation | II.A.2(d)(ii) Spray Booths                                         |                                          |
| EU 2. 106                                                                                                                                                                 | Order of Approval #7302 Condition #4 (3/31/98)  | On and after September 1, 1998, or upon start-up, whichever is later, once each shift that the spray booths are used, Boeing shall record the pressure drop during operation across the three-stage dry filter systems of each of the booths used during that shift.                         | II.A.2(h) Aerospace NESHAP Pressure Drop/ Water Flow Rate          |                                          |
| EU 2. 107                                                                                                                                                                 | Order of Approval #7302 Condition #5 (3/31/98)  | If the pressure drop is not within the acceptable range, take corrective action as specified in the facility's Operation and Maintenance Plan.                                                                                                                                               | II.B Operation and Maintenance (O&M) Plan Requirements             |                                          |
| EU 2. 108                                                                                                                                                                 | Order of Approval #7302 Condition #6 (3/31/98)  | Boeing shall install and maintain HEPA filters downstream of the three-stage aerospace NESHAP filters on each spray booth.                                                                                                                                                                   | II.A.2(d)(ii) Spray Booths                                         |                                          |

| Reqmt. No.                                                                                                                                                  | Enforceable Requirement                        | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                     | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                                | Reference Test Method (See Section VIII) |
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| <b><i>(p) Order of Approval 7279</i></b>                                                                                                                    |                                                |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                   |                                          |
| Requirement Nos. EU 2.109 through EU 2.113 are the Order of Approval 7279 conditions that apply to the MSS 12355 and 12356 spray booths in the Bldg. 17-07. |                                                |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                   |                                          |
| EU 2. 109                                                                                                                                                   | Order of Approval #7279 Condition #3 (2/24/98) | Boeing shall install and maintain gauges to measure the pressure drop across the three-stage dry filter system of each spray booth. Within 90 days after beginning operations, the acceptable ranges for the gauges shall be clearly marked on or nearby the gauges. | II.A.2(d)(ii)<br>Spray Booths                                                                                                                                                     |                                          |
| EU 2. 110                                                                                                                                                   | Order of Approval #7279 Condition #4 (2/24/98) | No later than September 1, 1998, once during each shift that the spray booths are used, determine and record if the pressure drop across the 3-stage dry filter system is in the acceptable range.                                                                   | II.A.2(h)<br>Aerospace NESHAP<br>Pressure Drop/<br>Water Flow<br>Rate                                                                                                             |                                          |
| EU 2. 111                                                                                                                                                   | Order of Approval #7279 Condition #5 (2/24/98) | If the pressure drop is not within the acceptable range, Boeing shall take corrective action as specified in the facility's Operation and Maintenance Plan.                                                                                                          | II.B Operation and Maintenance (O&M) Plan Requirements                                                                                                                            |                                          |
| EU 2. 112                                                                                                                                                   | Order of Approval #7279 Condition #6 (2/24/98) | Boeing shall comply with the Aerospace National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR 63 Subpart GG and the General Provisions of the NESHAP, 40 CFR 63 Subpart A by September 1, 1998.                                                   | II.A.2(f)<br>Aerospace NESHAP<br>Solvent<br>Cleaner<br><br>II.A.2(g)<br>Aerospace NESHAP<br>Coating,<br><br>II.A.2(h)<br>Aerospace NESHAP<br>Pressure Drop/<br>Water Flow<br>Rate |                                          |

| Reqmt. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Enforceable Requirement                              | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                    | Reference Test Method (See Section VIII) |
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| EU 2. 113                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Order of Approval #7279<br>Condition #7<br>(2/24/98) | The sum of the actual volatile organic compound (VOC) emissions from paint usage in the two booths combined shall not exceed 30 tons during any 12 consecutive months after the date of this Order. Boeing shall notify PSAPCA, in writing, within 30 days after the end of each 12-month period if, during that period, emissions of VOC exceed 27 tons. Boeing shall calculate VOC emissions monthly and retain a record of the calculations for a period of five years. The calculations shall be made available to PSAPCA upon request. | II.A.2(e)<br>Emission Limitation by PSD or Order of Approval Conditions                               |                                          |
| <b><i>(q) Order of Approval 7745</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                       |                                          |
| Requirement No. EU 2.114 is the Order of Approval 7745 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 Auburn site.                                                                                                                                                                                |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                       |                                          |
| EU 2. 114                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Order of Approval #7745<br>Condition #3<br>(5/5/99)  | Alternate Means of Compliance with PSAPCA Regulation II, Section 3.09(b), as allowed by PSAPCA Regulation I, Section 3.23 for the use of Aerosol Temporary Protective Coating (TPC) for touch-up operations at the Boeing Auburn site.<br><br>Boeing shall limit the use of Aerosol Temporary Protective Coating (TPC) to touch-up operations at the Boeing Auburn site.                                                                                                                                                                    | II.A.1(c)<br>Facility Inspections                                                                     |                                          |
| <b><i>(r) Order of Approval 6756</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                       |                                          |
| Requirement No. EU 2.115 is the Order of Approval 6756 condition that establishes the use of an Alternate Means of Compliance with the coating application methods required by Regulation II, Section 3.09(c), for the application of a water-based Temporary Protective Coating (TPC) with a negligible VOC content, less than 1% by weight of VOC, in a spray enclosure using airless and air-assisted spray guns for the application of these coatings. |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                       |                                          |
| EU 2. 115                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Order of Approval #6756<br>Condition #4<br>(2/4/97)  | As an alternate means of compliance with Regulation II, 3.09(c), application methods other than those listed in 3.09(c), airless and air-assisted spray guns attached directly to the container of TPC, may be used when applying TPC if the VOC content of the TPC is less than 1 % by weight, as determined from the manufacturer's Material Safety Data Sheet.                                                                                                                                                                           | II.A.2(b) VOC Content Monitoring and Recordkeeping Procedure<br><br>II.A.1(c)<br>Facility Inspections |                                          |

| Reqmt. No.                                                                                                                                                                                                                                                                                                                                                                       | Enforceable Requirement                        | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                  | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| <b>(s) Order of Approval 8339</b>                                                                                                                                                                                                                                                                                                                                                |                                                |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                    |                                          |
| Requirement Nos. EU 2.116 and EU 2.117 are the Order of Approval 8339 conditions that establish the use of conventional, Non-High Volume, Low Pressure (HVLP) spray gun and extension nozzle at the Boeing Auburn site as an Alternate Means of Compliance, as allowed by Regulation I, Section 3.23, to comply with Regulation II, Section 3.09(c) (12/93) application methods. |                                                |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                    |                                          |
| EU 2. 116                                                                                                                                                                                                                                                                                                                                                                        | Order of Approval #8339 Condition #3 (4/24/01) | Boeing is hereby granted approval for an "alternate means of compliance" with Regulation II, Section 3.09(c), to use conventional spray guns and extension nozzles to properly reach limited access places and where an HVLP nozzle is too large to fit and cannot reasonably be coated using an airbrush, or other application methods listed in Regulation II, Section 3.09(c). | NMR                                                                |                                          |
| EU 2. 117                                                                                                                                                                                                                                                                                                                                                                        | Order of Approval #8339 Condition #4 (4/24/01) | Boeing shall keep a record documenting, for each type of part that it uses conventional spray guns with an extension, why the conventional spray guns application with an extension is as effective as the methods listed in Regulation II, Section 3.09(c). This record shall be available to PSCAA staff upon request.                                                          | II.A.2(c) Documentation on File                                    |                                          |
| <b>(t) Order of Approval 8506</b>                                                                                                                                                                                                                                                                                                                                                |                                                |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                    |                                          |
| Requirement Nos. EU 2.118 through EU 2.123 are the Order of Approval 8506 conditions that apply to the MSS 59822 and 10695 spray booths in the Bldg. 17-45.                                                                                                                                                                                                                      |                                                |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                    |                                          |
| EU 2. 118                                                                                                                                                                                                                                                                                                                                                                        | Order of Approval #8506 Condition #3 (3/29/02) | Boeing shall install and maintain gauges to measure the pressure drop across the filters of the manual spray booth 10695 and, spray booth 59822, in Building 17-45.                                                                                                                                                                                                               | II.A.2(d)(ii) Spray Booths                                         |                                          |
| EU 2. 119                                                                                                                                                                                                                                                                                                                                                                        | Order of Approval #8506 Condition #4 (3/29/02) | Within 90 days after beginning operations, Boeing shall incorporate the normal operating pressure drop into its Operation and Maintenance (O&M) Plan or pressure drop log sheet and clearly marked that range on or near the pressure drop gauge.                                                                                                                                 | II.A.2(d)(ii) Spray Booths                                         |                                          |

| Reqmt. No. | Enforceable Requirement                        | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                 | Reference Test Method (See Section VIII) |
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| EU 2. 120  | Order of Approval #8506 Condition #5 (3/29/02) | For manual spray booth 10695, and spray booth 59822, check the primary dry filter systems, where visible, for proper seating and complete coverage over the exhaust plenum. This inspection shall be conducted at least monthly or at time of use if booth is used less frequently than once per month. If filter coverage is acceptable for 12 consecutive months, the inspection frequency may be reduced to quarterly. If coverage is unacceptable during quarterly inspections, monthly inspections shall be reinstated. | II.A.2(d)(ii)<br>Spray Booths                                                                                                                                      |                                          |
| EU 2. 121  | Order of Approval #8506 Condition #6 (3/29/02) | If improperly seated filters, incomplete coverage over the exhaust plenum, or abnormal pressure drop are observed, Boeing shall take corrective action prior to resuming any spray coating activity.                                                                                                                                                                                                                                                                                                                         | II.A.2(d)(ii)<br>Spray Booths                                                                                                                                      |                                          |
| EU 2. 122  | Order of Approval #8506 Condition #7 (3/29/02) | Records of all inspections and corrective actions shall be maintained for at least five years and made available to Puget Sound Clean Air Agency personnel upon request.                                                                                                                                                                                                                                                                                                                                                     | II.A.2(c)<br>Documentation on File                                                                                                                                 |                                          |
| EU 2. 123  | Order of Approval #8506 Condition #8 (3/29/02) | Boeing shall comply with the Aerospace National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR 63 Subpart GG and the General Provisions of the NESHAP, 40 CFR 63 Subpart A with respect to operations in the spray coating booths.                                                                                                                                                                                                                                                                         | II.A.2(f)<br>Aerospace NESHAP Solvent Cleaner<br><br>II.A.2(g)<br>Aerospace NESHAP Coating,<br><br>II.A.2(h)<br>Aerospace NESHAP Pressure Drop/<br>Water Flow Rate |                                          |

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| Reqmt. No.                                                                                                                                                 | Enforceable Requirement                                                                                         | Requirement Paraphrase<br>(For Information Only)                                          | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
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| <p><b>(u) Maintain equipment</b></p> <p>Requirement No. EU 2.124 is the RCW requirement to maintain order of approval equipment in good working order.</p> |                                                                                                                 |                                                                                           |                                                                    |                                          |
| EU 2. 124                                                                                                                                                  | 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<br><br>II.A.1(c) Facility Inspections   |                                          |
| <p><b>(v) Adoption of 40 CFR Part 63</b></p> <p>Requirement No. EU 2.125 is the Puget Sound Clean Air Agency adoption of 40 CFR Part 61 and 63.</p>        |                                                                                                                 |                                                                                           |                                                                    |                                          |
| EU 2. 125                                                                                                                                                  | Puget Sound Clean Air Agency Reg III: 2:02 (9/13/01) (State Only)<br><br>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                                                                |                                          |

| Reqmt. No.                                                                                                                                                                                                 | Enforceable Requirement                                                                                                                                                                                                           | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method (See Section VIII) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|
| <p><b><i>(w) General spray coating requirements</i></b></p> <p>Requirement Nos. EU 2.126 through EU 2.128 are the Puget Sound Clean Air Agency Regulation I requirements for spray coating operations.</p> |                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                    |                                          |
| EU 2. 126                                                                                                                                                                                                  | <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 Regulation I Section 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 ounces 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                                                                |                                          |

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                             | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)              | Reference Test Method (See Section VIII) |
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| EU 2. 127  | Puget Sound Clean Air Agency Reg I: 9.16(c) (7/12/01) (State Only) This requirement will become federally enforceable upon adoption into the SIP and will replace the 6/13/91 version of Regulation I Section 9.16. | 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.                                                        | II.A.1(c)<br>Facility Inspections                                               |                                          |
| EU 2. 128  | Puget Sound Clean Air Agency Reg I: 9.16(d) (7/12/01) (State Only) This requirement will become federally enforceable upon adoption into the SIP and will replace the 6/13/91 version of Regulation I Section 9.16. | 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:<br><br>(1) Enclosures and curtailment during high winds; and<br><br>(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. | II.A.1(c)<br>Facility Inspections,<br><br>II.A.1(d)<br>Work Practice Inspection |                                          |

| Reqmt. No.                                                                                                                                      | Enforceable Requirement                                   | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                            | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                          | Reference Test Method (See Section VIII) |
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| <b><i>(x) Order of Approval 8747</i></b>                                                                                                        |                                                           |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                             |                                          |
| Requirement Nos. EU 2.129 through EU 2.137 are the Order of Approval No. 8747 conditions that apply to the MSS 3806 spray booth in Bldg. 17-45. |                                                           |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                             |                                          |
| EU 2. 129                                                                                                                                       | Order of Approval No. 8747, Condition No. 3<br>(12/19/02) | Boeing shall install exhaust filters that meet the requirements of 40 CFR 63.745(g)(2)(ii).                                                                                                                                                                                                 | II.A.2(h)<br>Aerospace NESHAP<br>Pressure Drop/<br>Water Flow Rate                                                                                                          |                                          |
| EU 2. 130                                                                                                                                       | Order of Approval No. 8747, Condition No. 4<br>(12/19/02) | Boeing shall comply with all applicable requirements of 40 CFR 63 Subpart GG.                                                                                                                                                                                                               | II.A.2(f)<br>Aerospace NESHAP<br>Solvent Cleaner<br><br>II.A.2(g)<br>Aerospace NESHAP<br>Coating,<br><br>II.A.2(h)<br>Aerospace NESHAP<br>Pressure Drop/<br>Water Flow Rate |                                          |
| EU 2. 131                                                                                                                                       | Order of Approval No. 8747, Condition No. 5<br>(12/19/02) | The air exhaust from this spray booth shall be vented through HEPA filters with a control efficiency of 99.97% or greater.                                                                                                                                                                  | II.A.2(d)(ii)<br>Spray Booths                                                                                                                                               |                                          |
| EU 2. 132                                                                                                                                       | Order of Approval No. 8747, Condition No. 6<br>(12/19/02) | Boeing shall install and maintain a gauge to measure the pressure drop across the exhaust filters of the spray booth. Within 90 days after issuance of this Order of Approval, the acceptable range for the gauge shall be clearly marked on or nearby the gauge or on a pressure drop log. | II.A.2(d)(ii)<br>Spray Booths                                                                                                                                               |                                          |

| Reqmt. No. | Enforceable Requirement                                 | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                     | Reference Test Method (See Section VIII) |
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| EU 2. 133  | Order of Approval No. 8747, Condition No. 7 (12/19/02)  | Boeing shall read and record the pressure drop once each shift of operation on a log. If the pressure drop is not within the acceptable range, Boeing shall, as soon as practicable but within 24 hours of initial observation either: correct the pressure drop, or alternatively shut down the unit or activity until it can be repaired.                                                                                                                                                                                                                                                                                                                                                                                                                                             | II.A.2(h)<br>Aerospace NESHAP Pressure Drop/ Water Flow Rate                                           |                                          |
| EU 2. 134  | Order of Approval No. 8747, Condition No. 8 (12/19/02)  | Boeing shall check the primary filter systems, where visible, for proper seating and complete coverage over the exhaust plenum, and shall record the results of this inspection. This inspection shall be conducted monthly or at time of use if booth is used less frequently than once per month. If filter coverage is acceptable for all inspection in a one-year period, this inspection may be reduced to once per calendar quarter. If coverage is unacceptable during quarterly inspections, monthly inspections shall be reinstated. If coverage is found to be unacceptable, Boeing shall, as soon as practicable but within 24 hours of the initial observation either; correct filter coverage or, alternatively, shut down the booth or activity until it can be repaired. | II.A.2(d)(ii)<br>Spray Booths                                                                          |                                          |
| EU 2. 135  | Order of Approval No. 8747, Condition No. 9 (12/19/02)  | Boeing shall annually check that the exhaust filters installed at this booth meet the requirements of 40 CFR 63.745(g)(2)(ii).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | II.A.2(h)<br>Aerospace NESHAP Pressure Drop/ Water Flow Rate                                           |                                          |
| EU 2. 136  | Order of Approval No. 8747, Condition No. 10 (12/19/02) | Boeing shall check to see that the pressure drop gauge functions properly and the pressure drop range is labeled on the log sheets at least quarterly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | II.A.2(d)(ii)<br>Spray Booths                                                                          |                                          |
| EU 2. 137  | Order of Approval No. 8747, Condition No. 11 (12/19/02) | Boeing shall comply with the requirements of Puget Sound Clean Air Agency Regulation II Section 3.09.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | II.A.2(b) VOC Content Monitoring and Recordkeeping Procedure<br><br>II.A.1(d) Work Practice Inspection |                                          |

| Reqmt. No.                                                                                                                                       | Enforceable Requirement                               | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                   | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                            | Reference Test Method (See Section VIII) |
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| <b>(y) Order of Approval No. 8835</b>                                                                                                            |                                                       |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                               |                                          |
| Requirement Nos. EU 2. 138 through EU 2. 145 are the Order of Approval 8835 conditions that apply to the MSS 6783 spray booth in the Bldg. 17-62 |                                                       |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                               |                                          |
| EU 2. 138                                                                                                                                        | Order of Approval No. 8835 Condition No. 3 (7/1/2003) | Boeing shall install exhaust filters that meet the requirements of 40 CFR 63.745(g)(2)(ii).                                                                                                                                                                                                                                        | II.A.2(h)<br>Aerospace NESHAP<br>Pressure Drop/<br>Water Flow Rate                                                                                                            |                                          |
| EU 2. 139                                                                                                                                        | Order of Approval No. 8835 Condition No. 4 (7/1/2003) | Boeing shall comply with all applicable requirements of 40 CFR 63 Subpart GG.                                                                                                                                                                                                                                                      | II.A.2(f)<br>Aerospace NESHAP<br>Solvent Cleaner,<br><br>II.A.2(g)<br>Aerospace NESHAP<br>Coating ,<br><br>II.A.2(h)<br>Aerospace NESHAP<br>Pressure Drop/<br>Water Flow Rate |                                          |
| EU 2. 140                                                                                                                                        | Order of Approval No. 8835 Condition No. 5 (7/1/2003) | Boeing shall install and maintain a gauge to measure the pressure drop across the exhaust filters of the spray booth. The acceptable range for the gauge shall be clearly marked on or nearby the gauge or on a pressure drop log.                                                                                                 | II.A.2(d)(ii)<br>Spray Booths                                                                                                                                                 |                                          |
| EU 2. 141                                                                                                                                        | Order of Approval No. 8835 Condition No. 6 (7/1/2003) | Boeing shall read and record the pressure drop once each shift of operation on a log. If the pressure drop is not within the acceptable range, Boeing shall, as soon as practicable but within 24 hours of initial observation either; correct the pressure drop or, alternatively, shut unit or activity until it can be repaired | II.A.2(h)<br>Aerospace NESHAP<br>Pressure Drop/<br>Water Flow Rate                                                                                                            |                                          |

| Reqmt. No. | Enforceable Requirement                                | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                          | Reference Test Method (See Section VIII) |
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| EU 2. 142  | Order of Approval No. 8835 Condition No. 7 (7/1/2003)  | Boeing shall check the primary filter systems, where visible, for proper seating and complete coverage over the exhaust plenum, and shall record the results of this inspection. This inspection shall be conducted monthly or at a time of use if booth is used less frequently than once per month. If filter coverage is acceptable for all inspections in a one year period, this inspection may be reduced to once per calendar quarter. If coverage is unacceptable during quarterly inspections, monthly inspections shall be reinstated. If coverage is found to be unacceptable, Boeing shall, as soon as practicable but within 24 hours of the initial observation either; correct filter coverage or, alternatively, shut down the booth or activity until it can be repaired. | II.A.2(d)(ii)<br>Spray Booths                                                                                               |                                          |
| EU 2. 143  | Order of Approval No. 8835 Condition No. 8 (7/1/2003)  | Boeing shall annual check that the exhaust filters installed at this booth meet the requirements of 40 CFR 63.745(g)(2)(ii).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | II.A.2(h)<br>Aerospace NESHAP<br>Pressure Drop/<br>Water Flow<br>Rate                                                       |                                          |
| EU 2. 144  | Order of Approval No. 8835 Condition No. 9 (7/1/2003)  | Boeing shall check to see that the pressure drop gauge functions properly and the pressure drop range is labeled on the log sheets at least quarterly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | II.A.2(d)(ii)<br>Spray Booths                                                                                               |                                          |
| EU 2. 145  | Order of Approval No. 8835 Condition No. 10 (7/1/2003) | Boeing shall comply with the requirements of Puget Sound Clean Air Agency Regulation II Section 3.09.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | II.A.2(b) VOC<br>Content<br>Monitoring<br>and<br>Recordkeeping<br>Procedure<br><br>II.A.1(d)<br>Work Practice<br>Inspection |                                          |

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

**3. Non-aerospace Parts Surface Coating Operations**

**DESCRIPTION:** *This section includes all activities and equipment associated with surface coating operations on non- aerospace parts and assemblies, such as tooling, equipment, and motor vehicles and mobile equipment. Surface coating operations include coating mixing and application, gun cleaning, solvent wipe cleaning, coating drying or curing in ovens or other areas, depainting (except depainting of aircraft), and material and waste handling. The following equipment in this section has received an NOC Order of Approval, or has otherwise been registered with the PSCAA. 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>17-04</i> | <i>A7</i>       | <i>6790</i>    | <i>Reg.</i>                | <i>1987</i>         | <i>Spray Coating Booth -dry filter</i> |
| <i>17-08</i> | <i>C5.5</i>     | <i>61615</i>   | <i>5404</i>                | <i>1994</i>         | <i>Spray Coating Booth -dry filter</i> |
| <i>17-66</i> | <i>J5</i>       | <i>6778</i>    | <i>5987</i>                | <i>1993</i>         | <i>Spray Coating Booth -dry filter</i> |
| <i>17-66</i> | <i>D10</i>      | <i>60710</i>   | <i>4732</i>                | <i>1992</i>         | <i>Spray Coating Booth -dry filter</i> |

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

**COMPLIANCE REQUIREMENTS:**

| Reqmt. No.                                                                                                                                                       | Enforceable Requirement                                                                                                                                                                                                                                                     | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method<br>(See Section VIII) |
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| <i>Requirements No. EU 3.1 through EU 3.5 are the Puget Sound Clean Air Agency Regulation I Section 9.16 requirements that apply to spray coating operations</i> |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                    |                                             |
| EU 3.1                                                                                                                                                           | Puget Sound Clean Air Agency Reg I: 9.16(a) (7/12/01)<br><br>Puget Sound Clean Air Agency Reg I: 9.16(a) (2/22/07)<br><i>(State Only) This requirement will become federally enforceable upon adoption into the SIP and will replace the 7/12/01 version of Reg I: 9.16</i> | The regulation applies to spray coating operations at NBF/Plant 2 where coating that protects or beautifies a surface is applied with spray coating equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NMR                                                                |                                             |
| EU 3.2                                                                                                                                                           | Puget Sound Clean Air Agency Reg I: 9.16(b) (7/12/01)<br><br>Puget Sound Clean Air Agency Reg I: 9.16(b) (2/22/07)<br><i>(State Only) This requirement will become federally enforceable upon adoption into the SIP and will replace the 7/12/01 version of Reg I: 9.16</i> | The following activities are exempt from the provisions of Reg I: 9.16(c) and (d). Persons claiming any of the exemptions shall have the burden of demonstrating compliance: <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 ounces 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                                                                |                                             |

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                         | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)              | Reference Test Method<br>(See Section VIII) |
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| EU 3.3     | <p>Puget Sound Clean Air Agency Reg I: 9.16(c) (7/12/01)</p> <p>Puget Sound Clean Air Agency Reg I: 9.16(c) (2/22/07) (State Only) <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 7/12/01 version of Reg I: 9.16</i></p> | <p>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> |                                             |
| EU 3.4     | <p>Puget Sound Clean Air Agency Reg I: 9.16(d) (7/12/01)</p> <p>Puget Sound Clean Air Agency Reg I: 9.16(d) (2/22/07) (State Only) <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 7/12/01 version of Reg I: 9.16</i></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> |                                             |

| Reqmt. No.                                                                                                                                             | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                    | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                     | Reference Test Method<br>(See Section VIII) |
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| EU 3.5                                                                                                                                                 | <p>Puget Sound Clean Air Agency Reg I, 9.16(e) (7/12/01)</p> <p>Puget Sound Clean Air Agency Reg I: 9.16(f) (2/22/07) (State Only) This requirement will become federally enforceable upon adoption into the SIP and will replace the 7/12/01 version of Reg I: 9.16.</p>                                                                                                              | Compliance with Puget Sound Clean Air Agency Regulation I Section 9.16 does not exempt any person from compliance with Puget Sound Clean Air Agency Regulation I Section 9.11 and all other applicable regulations. | NMR                                                                                                                                                                    |                                             |
| <p><b>(a) O&amp;M</b></p> <p>Requirement EU 3.6 and EU 3.7 are the Puget Sound Clean Air Agency O&amp;M requirements for operating permit sources.</p> |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                     |                                                                                                                                                                        |                                             |
| EU 3.6                                                                                                                                                 | <p>Puget Sound Clean Air Agency Reg I, 7.09(b) 9/10/98 This requirement will be superseded upon adoption of the 9/25/2008 version of Reg I, 7.09(b) into the SIP</p> <p>Puget Sound Clean Air Agency Reg I, 7.09(b) (9/25/2008) (State Only) This requirement shall become federally enforceable upon adoption into the SIP and will replace the 9/10/98 version of Reg I, 7.09(b)</p> | Develop and implement an O&M plan to assure continuous compliance with PSCAA 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> |                                             |

| Reqmt. No.                                                                                                                                                                                                                                                                 | Enforceable Requirement                                                                                                                                                         | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                         | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                      | Reference Test Method<br>(See Section VIII)            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| EU 3.7                                                                                                                                                                                                                                                                     | Puget Sound Clean Air Agency Regulation I: 9.20 (6/9/88)                                                                                                                        | Maintain equipment in good working order.                                                                                                                                                                                                | II.A.2(d)(ii) Spray Booths<br><br>II.A.1(c) Facility Inspections,<br><br>These monitoring methods supersede the monitoring method for this requirement listed in I.A.10 |                                                        |
| <b>(b) Motor vehicles</b>                                                                                                                                                                                                                                                  |                                                                                                                                                                                 |                                                                                                                                                                                                                                          |                                                                                                                                                                         |                                                        |
| Requirement No. EU 3.8 through EU 3.17 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. |                                                                                                                                                                                 |                                                                                                                                                                                                                                          |                                                                                                                                                                         |                                                        |
| Reg. II Section 3.04 requirements for Original Equipment Manufacturers (OEM) do not apply to Boeing. <sup>6</sup>                                                                                                                                                          |                                                                                                                                                                                 |                                                                                                                                                                                                                                          |                                                                                                                                                                         |                                                        |
| EU 3.8                                                                                                                                                                                                                                                                     | Puget Sound Clean Air Agency Reg. II:3.04(a) & (b), (12/9/93) <i>This requirement will be superseded upon adoption of the 7/24/03 version of Reg. II, 3.04(a) into the SIP.</i> | Motor vehicle and mobile equipment coating VOC content must not exceed the limits in Reg II 3.04(a) and (b).<br><br>Mobile equipment is equipment that is licensed or likely to be licensed to operate on a public roadway. <sup>7</sup> | II.A.1(d) Work Practice Inspection<br><br>II.A.2(b) VOC Content Monitoring and Recordkeeping Procedure                                                                  | EPA Method 24 (see 40 CFR 60 Appendix A, July 1, 2001) |

<sup>6</sup> July 23, 2003 letter from James Nolan, Puget Sound Clean Air Agency, to Michael Verhaar, Boeing.

<sup>7</sup> January 30, 2001 letter from Jay Willenberg, Puget Sound Clean Air Agency, to Edward Cierebiej, Boeing.

## EMISSION UNIT SPECIFIC APPLICABLE REQUIREMENTS

Expiration Date: 02/02/2009

## I.B.3 Non-aerospace Parts Surface Coating Operations

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| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                            | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                     | Reference Test Method<br>(See Section VIII) |
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| EU 3.9     | Puget Sound Clean Air Agency Reg. II: 3.04(a) (7/24/03) (State Only) This requirement will become federally enforceable upon adoption into the SIP and will replace the 12/9/93 version of Reg. II, 3.04(a) & (b). | Unlawful for original equipment manufactures to apply any coating with a VOC content in excess of the following limits to motorized vehicles, their parts and components, or equipment designed to be pulled by motorized vehicles:<br><br>Pretreatment Wash Primer      780 g/l<br>Precoat                                      780 g/l<br>Primer/Primer Surfacer              720 g/l<br>Primer Sealer                              720 g/l<br>Topcoat                                      720 g/l<br>Metallic/Iridescent Topcoat      720 g/l | II.A.1(d) Work Practice Inspection<br><br>II.A.2(b) VOC Content Monitoring and Recordkeeping Procedure |                                             |
| EU 3.10    | Puget Sound Clean Air Agency Reg. II: 3.04(b) (7/24/03) (State Only) This requirement will become federally enforceable upon adoption into the SIP and will replace the 12/9/93 version of Reg. II, 3.04(c).       | It shall be unlawful for any person to apply any specialty coating with a VOC content in excess of 840 grams/liter, excluding water. Use of all specialty coatings except antiglare/safety coatings shall not exceed 5.0% of all coatings applied on a monthly basis. Specialty coatings are coatings that are necessary due to unusual job performance requirements and whose VOC content exceeds 630 grams/liter.                                                                                                                               | II.A.1(d) Work Practice Inspection<br><br>II.A.2(b) VOC Content Monitoring and Recordkeeping Procedure |                                             |
| EU 3.11    | Puget Sound Clean Air Agency Reg. II:3.04(c) (12/9/93) This requirement will be superseded upon adoption of the 7/24/03 version of Reg. II, 3.04(b) into the SIP.                                                  | Motor vehicle and mobile equipment specialty coating VOC content must not exceed 840 g/L.<br><br>Mobile equipment is equipment that is licensed or likely to be licensed to operate on a public roadway. <sup>7</sup>                                                                                                                                                                                                                                                                                                                             | II.A.1(d) Work Practice Inspection<br><br>II.A.2(b) VOC Content Monitoring and Recordkeeping Procedure | EPA Method 24 (See Section VIII)            |
| EU 3.12    | Puget Sound Clean Air Agency Reg. II:3.04(d) (12/9/93) This requirement will be superseded upon adoption of the 7/24/03 version of Reg. II, 3.04(c) into the SIP.                                                  | VOC content of coating must be displayed on container or available on file for inspection.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | II.A.2(c) Documentation on File                                                                        |                                             |

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                             | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method<br>(See Section VIII) |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|
| EU 3.13    | Puget Sound Clean Air Agency Reg. II: 3.04(c) (7/24/03) <i>(State Only)</i> This requirement will become federally enforceable upon adoption into the SIP and will replace the 12/9/93 version of Reg. II, 3.04(d). | The VOC content of each coating regulated by this section shall be available to the Agency upon request. Monthly records shall be maintained to demonstrate compliance with the standards specified in Section 3.04(a) and 3.04(b) of this regulation. The records shall include type of paint, quantity applied, and how the coating qualifies as specialty. The records shall be made available to Agency personnel upon request.                                                                                                     | II.A.2(b) VOC Content Monitoring and Recordkeeping Procedure       |                                             |
| EU 3.14    | Puget Sound Clean Air Agency Reg. II:3.04(e) (12/9/93) This requirement will be superseded upon adoption of the 7/24/03 version of Reg. II, 3.04(d) into the SIP.                                                   | 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 3.15    | Puget Sound Clean Air Agency Reg. II: 3.04(d) (7/24/03) <i>(State Only)</i> This requirement will become federally enforceable upon adoption into the SIP and will replace the 12/9/93 version of Reg. II, 3.04(e)  | It shall be unlawful for any person to apply any VOC-containing material to any motorized vehicles, their parts and components, or equipment designed to be pulled by motorized vehicles unless the coating is applied by the use of one of the following methods:<br><br>(1) High volume, low pressure (0.1 to 10 psig air pressure for atomization) spray equipment,<br>(2) Electrostatic spray equipment,<br>(3) Flow coat,<br>(4) Dip coat,<br>(5) Brush coat,<br>(6) Hand-held aerosol cans,<br>(7) Roll coat, or<br>(8) Air brush | II.A.1(d) Work Practice Inspection                                 |                                             |

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                                       | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                             | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method<br>(See Section VIII) |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|
| EU 3.16    | <p>Puget Sound Clean Air Agency Reg. II:3.04(f) (12/9/93)<br/><i>This requirement will be superseded upon adoption of the 7/24/03 version of Reg. II, 3.04(e) into the SIP.</i></p> <p>Puget Sound Clean Air Agency Reg. II: 3.04(e) (7/24/03) (State Only) <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 12/9/93 version of Reg. II, 3.04(f)</i></p> | 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 3.17    | <p>Puget Sound Clean Air Agency Reg. II:3.04(g) (12/9/93)<br/><i>This requirement will be superseded upon adoption of the 7/24/03 version of Reg. II, 3.04(f) into the SIP.</i></p> <p>Puget Sound Clean Air Agency Reg. II: 3.04(f) (7/24/03) (State Only) <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 12/9/93 version of Reg. II, 3.04(g)</i></p> | VOC containing material must be stored in closed containers and disposed of properly.                                                                                                                                        | II.A.1(d) Work Practice Inspection                                 |                                             |

| Reqmt. No.                                                                                                                                                       | Enforceable Requirement            | Requirement Paraphrase<br>(For Information Only)                                | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method<br>(See Section VIII) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|
| <p><b><i>(c) Maintain equipment</i></b></p> <p>Requirement No. EU 3.18 is the RCW requirement to maintain order of approval equipment in good working order.</p> |                                    |                                                                                 |                                                                    |                                             |
| EU 3.18                                                                                                                                                          | 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<br><br>II.A.1(c) Facility Inspections   |                                             |

#### 4. 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>                                     |
|--------------|--------------------|----------------|----------------------------|---------------------|---------------------------------------------------------------|
| <i>17-09</i> | <i>Boiler Room</i> | <i>6827</i>    | <i>7271</i>                | <i>1998</i>         | <i>Boiler #4, 95 MMBtu/hr, gas fired with low NOx burners</i> |
| <i>17-62</i> | <i>G2</i>          | <i>58127</i>   | <i>3842</i>                | <i>1992</i>         | <i>Boiler, 12.6 MMBtu/hr, gas fired</i>                       |
| <i>17-62</i> | <i>G2</i>          | <i>58128</i>   | <i>3842</i>                | <i>1992</i>         | <i>Boiler, 12.6 MMBtu/hr, gas fired</i>                       |
| <i>17-66</i> | <i>K5</i>          | <i>60202</i>   | <i>5986</i>                | <i>1993</i>         | <i>Boiler, 10.4 MMBtu/hr, gas fired</i>                       |
| <i>17-66</i> | <i>J5</i>          | <i>60203</i>   | <i>5986</i>                | <i>1993</i>         | <i>Boiler, 10.4 MMBtu/hr, gas fired</i>                       |

*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<br/>(For Information Only)</b>                                                                                                                                                                                                                                                    | <b>Monitoring, Maintenance &amp; Recordkeeping Method<br/>(See Section II)</b> | <b>Reference Test Method<br/>(See Section VIII)</b> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>(a) 40 CFR 60 subpart A</b>                                                                                                                        |                                |                                                                                                                                                                                                                                                                                                             |                                                                                |                                                     |
| Requirement Nos. EU 4.1 through EU 4.19 are the General Provisions for the Standards of Performance for New Stationary Sources (40 CFR 63 Subpart A). |                                |                                                                                                                                                                                                                                                                                                             |                                                                                |                                                     |
| EU 4.1                                                                                                                                                | 40 CFR 60.1(a)<br>(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 4.2                                                                                                                                                | 40 CFR 60.4<br>(8/14/01)       | 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                                                                            |                                                     |

| Reqmt. No. | Enforceable Requirement                                    | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method<br>(See Section VIII) |
|------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|
| EU 4.3     | 40 CFR 60.7(a)(4) (2/12/99)<br>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 4.12.                                                                                                                                                                                                                                                                                                                                         | NMR                                                                |                                             |
| EU 4.4     | 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)<br>Documentation on File                                 |                                             |
| EU 4.5     | 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)<br>Documentation on File                                 |                                             |
| EU 4.6     | 40 CFR 60.7(g) (2/12/99)                                   | If notification substantially similar to that in 40 CFR 60.7(a) (EU 4.3) 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 4.7     | 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 4.3 - EU 4.6).                                                                                                                                                                                                                                                                                                                                                                                                                  | NMR                                                                |                                             |

| Reqmt. No. | Enforceable Requirement       | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method<br>(See Section VIII) |
|------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|
| EU 4.8     | 40 CFR 60.11(d)<br>(2/24/97)  | At all times, including periods of startup, shutdown, and malfunction, Boeing shall, to the extent practicable, operate and maintain Boiler No. 4 in Building 17-09 and the boilers in Building 17-62 and 17-66, 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)<br>Fuel Burning Equipment                           |                                             |
| EU 4.9     | 40 CFR 60.12<br>(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 4.10    | 40 CFR 60.14(a)<br>(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 4.11    | 40 CFR 60.14(c)<br>(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 4.12    | 40 CFR 60.14(e)<br>(10/17/00) | Examples listed in 40 CFR 60.14(e) shall not be considered modifications under 40 CFR Part 60.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NMR                                                                |                                             |
| EU 4.13    | 40 CFR 60.14(f)<br>(10/17/00) | Special provisions in an applicable subpart shall supersede this section.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NMR                                                                |                                             |
| EU 4.14    | 40 CFR 60.14(g)<br>(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                                                                |                                             |
| EU 4.15    | 40 CFR 60.15(a)<br>(12/16/75) | An existing facility upon reconstruction becomes an affected facility.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NMR                                                                |                                             |

| Reqmt. No.                                                                                                                                                             | Enforceable Requirement                                                                | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                             | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)  | Reference Test Method<br>(See Section VIII) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|
| EU 4.16                                                                                                                                                                | 40 CFR 60.15(b)<br>(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 4.17                                                                                                                                                                | 40 CFR 60.15(c)<br>(12/16/75)                                                          | Fixed capital cost means the capital needed to provide all the depreciable components.                                                                                                                                                                                                       | NMR                                                                 |                                             |
| EU 4.18                                                                                                                                                                | 40 CFR 60.15(d)<br>(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 4.19                                                                                                                                                                | 40 CFR 60.19<br>(2/12/98)                                                              | Reports and notifications required by 40 CFR Part 60 must be submitted according to 40 CFR 60.19.                                                                                                                                                                                            | NMR                                                                 |                                             |
| <b>(b) 40 CFR 60 subpart Dc</b>                                                                                                                                        |                                                                                        |                                                                                                                                                                                                                                                                                              |                                                                     |                                             |
| Requirement Nos. EU 4.20 through EU 4.22 are the Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 63 Subpart Dc). |                                                                                        |                                                                                                                                                                                                                                                                                              |                                                                     |                                             |
| EU 4.20                                                                                                                                                                | 40 CFR 60.40c(a)<br>(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 4.21                                                                                                                                                                | 40 CFR 60.48c(g)<br>(10/17/00)<br>See Requirement No. EU 4. 33, EU 4. 34, and EU 4. 35 | Boeing shall record and maintain records of the amounts of each fuel combusted during each day. [See Requirement No. EU 4. 33, EU 4. 34, and EU 4. 35 for alternative monitoring approval]                                                                                                   | II.A.2(d)(iv)<br>Fuel Monitoring for NSPS Natural Gas Fired Boilers |                                             |
| EU 4.22                                                                                                                                                                | 40 CFR 60.48c(i)<br>(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)<br>Documentation on File                                  |                                             |
| <b>(c) Puget Sound Clean Air Agency Washington Department of Ecology requirements.</b>                                                                                 |                                                                                        |                                                                                                                                                                                                                                                                                              |                                                                     |                                             |
| EU 4.23                                                                                                                                                                | Puget Sound Clean Air                                                                  | Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour                                                                                                                                                                                                    | II.A.2(d)(iii)<br>Fuel Burning                                      | Ecology Method 9A                           |

EMISSION UNIT SPECIFIC APPLICABLE REQUIREMENTS  
 I.B.4 NSPS - Fuel Burning Equipment

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Requirement Paraphrase<br>(For Information Only) | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                                          | Reference Test Method<br>(See Section VIII) |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
|            | <p>Agency Reg I: 9.03 (9/08/1994)<br/> <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)<br/> <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>Equipment I.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>(See Section VIII)</p>                   |

| <b>Reqmt. No.</b> | <b>Enforceable Requirement</b>                                                                                                                                                               | <b>Requirement Paraphrase<br/>(For Information Only)</b> | <b>Monitoring, Maintenance &amp; Recordkeeping Method<br/>(See Section II)</b> | <b>Reference Test Method<br/>(See Section VIII)</b> |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------|
|                   | <p>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)</p> |                                                          |                                                                                |                                                     |

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                                       | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                   | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                                                                            | Reference Test Method<br>(See Section VIII)                     |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| EU 4.24    | <p>Puget Sound Clean Air Agency Reg I: 9.09(a) (2/10/1994)<br/><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)<br/><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> |

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                     | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                             | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                  | Reference Test Method<br>(See Section VIII)                 |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| EU 4.25    | <p>WAC 173-400-050 (3/22/91)<br/><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>).<br/><i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 3/22/91 version of WAC 173-400-050</i></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>II.A.2(d)(iii)<br/>Fuel Burning Equipment</p> <p>II.A.1(b)<br/>Complaint Response;</p> <p>II.A.1(c)<br/>Facility Inspections</p> | EPA Method 5 (See 40 CFR Part 60, Appendix A, July 1, 2001) |
| EU 4.26    | Puget Sound Clean Air Agency Reg I: 6.11 (9/13/01) State Only                                                                                                                                                                                                                                                                                               | Adopts 40 CFR Part 60 and Appendices in effect on July 1, 2001.                                                                                                                                                                                                                                              | NMR                                                                                                                                 |                                                             |
| EU 4.27    | 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                                                                                                                                 |                                                             |

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                                      | Requirement Paraphrase<br>(For Information Only)                                                                                | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                     | Reference Test Method<br>(See Section VIII) |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| EU 4.28    | <p>Puget Sound Clean Air Agency Reg I: 7.09(b) (9/12/96)<br/><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)<br/><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 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> |                                             |

| Reqmt. No.                                                                                                                              | Enforceable Requirement                                                                        | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                | Reference Test Method<br>(See Section VIII)                 |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------|
| EU 4.29                                                                                                                                 | Puget Sound Clean Air Agency Reg I: 9.20(a) (6/9/88)<br><br>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)(iii) Fuel Burning Equipment<br><br>II.A.1(c) Facility Inspections       |                                                             |
| (d) Requirements Nos. EU 4.30 through EU 4.33 are the Order of Approval conditions that apply to the MSS 6827 boiler in Building 17-09. |                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                   |                                                             |
| EU 4.30                                                                                                                                 | Order of Approval #7271 Condition #3 (5/29/98)                                                 | Boeing Auburn shall not allow the Riley Boiler to emit any air contaminant that causes greater than 5% opacity as determined by EPA Method 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | II.A.2(d)(iii) Fuel Burning Equipment                                             | EPA Method 9 (See 40 CFR Part 60, Appendix A, July 1, 2001) |
| EU 4.31                                                                                                                                 | Order of Approval #7271 Condition #4 (5/29/98)                                                 | Boeing Auburn shall limit the fuel for the Riley/Union Iron Works MH-120E gas-fired boiler (#4) to natural gas only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | II.A.2(a) Approval by the Puget Sound Clean Air Agency, via NOC/Order of Approval |                                                             |
| EU 4.32                                                                                                                                 | Order of Approval #7271 Condition #5 (5/29/98)                                                 | Boeing Auburn shall comply with applicable requirements of the New Source Performance Standard (NSPS) requirements of 40 CFR Part 60, Subpart A "General Provisions" and Subpart Dc "Standards of Performance for Small Industrial-Commercial Units" and shall submit, in duplicate, a notification to the U.S. Environmental Protection Agency (EPA) Region 10, Director, Office of Air Quality, 1200 Sixth Ave, Seattle, WA 98101, and to PSAPCA. Notification shall include the date construction commenced, the date of initial startup, the design heat input capacity and identification of the fuels being combusted per Section 60.48c and 60.7. | II.A.2(c) Documentation on File                                                   |                                                             |

| Reqmt. No.                                                                                                                                | Enforceable Requirement                              | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                           | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)  | Reference Test Method<br>(See Section VIII) |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|
| EU 4. 33                                                                                                                                  | Order of Approval #7271<br>Condition #6 (5/29/98)    | Boeing Auburn shall record and maintain records of the amount of fuel combusted during each month, in lieu of the "daily" recordkeeping requirement of 40 CFR 60.48c(g) (EU 4.21). Documentation may be in the form of fuel bills or meter readings, or other records that adequately document fuel usage. | II.A.2(d)(iv)<br>Fuel Monitoring for NSPS Natural Gas Fired Boilers |                                             |
| (e) Requirements No. EU 4. 34 is the Order of Approval condition that apply to the boilers, MSS# 58127 and MSS# 58128 in Building 17-62.  |                                                      |                                                                                                                                                                                                                                                                                                            |                                                                     |                                             |
| EU 4. 34                                                                                                                                  | Order of Approval No. 3842<br>Condition #4 (6/12/01) | Boeing (Auburn) shall keep monthly records of the natural gas fuel use for the two Cleaver Brooks CB 300-150 gas fired boilers. Boeing (Auburn) shall comply with all other applicable requirements as stated in 40 CFR 60 Subpart Dc.                                                                     | II.A.2(d)(iv)<br>Fuel Monitoring for NSPS Natural Gas Fired Boilers |                                             |
| (f) Requirements No. EU 4. 35 is the Order of Approval conditions that apply to the boilers, MSS# 60202 and MSS# 60203 in Building 17-66. |                                                      |                                                                                                                                                                                                                                                                                                            |                                                                     |                                             |
| EU 4. 35                                                                                                                                  | Order of Approval No. 5986<br>Condition #3 (6/12/01) | Boeing (Auburn) shall keep monthly records of the natural gas fuel use for the two Cleaver Brooks CB 700-250-125 gas fired boilers. Boeing (Auburn) shall comply with all other applicable requirements as stated in 40 CFR 60 Subpart Dc.                                                                 | II.A.2(d)(iv)<br>Fuel Monitoring for NSPS Natural Gas Fired Boilers |                                             |

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

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

**DESCRIPTION:** *This section includes activities and equipment associated with combustion of natural gas and fuel oil. 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>17-05</i> | <i>A6</i>          | <i>57379</i>   | <i>3552</i>                | <i>1990</i>         | <i>Autoclave #7, 16 MMBTU/hr, gas fired</i>         |
| <i>17-05</i> | <i>F16-G16</i>     | <i>7376</i>    | <i>Reg.</i>                | <i>1967</i>         | <i>Autoclave #6, 40 MMBTU/hr, gas fired</i>         |
| <i>17-09</i> | <i>Boiler Room</i> | <i>6830</i>    | <i>Reg.</i>                | <i>1966</i>         | <i>Boiler #1, 150 MMBtu/hr, gas &amp; diesel #2</i> |
| <i>17-09</i> | <i>Boiler Room</i> | <i>6829</i>    | <i>Reg.</i>                | <i>1966</i>         | <i>Boiler #2, 150 MMBtu/hr, gas &amp; diesel #2</i> |
| <i>17-09</i> | <i>Boiler Room</i> | <i>6828</i>    | <i>Reg.</i>                | <i>1966</i>         | <i>Boiler #3, 150 MMBtu/hr, gas &amp; diesel #2</i> |
| <i>17-10</i> | <i>AA1.5</i>       | <i>8190</i>    | <i>Reg.</i>                | <i>1966</i>         | <i>Process Furnace, 34 MMBtu/hr, gas fired</i>      |

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



EMISSION UNIT SPECIFIC APPLICABLE REQUIREMENTS  
 I.B.5 Non NSPS - Fuel Burning Equipment

Permit No. 13117  
 Expiration Date: 02/02/2009  
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| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                            | Requirement Paraphrase<br>(For Information Only) | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method<br>(See Section VIII) |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|
|            | <p><i>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). 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)</p> |                                                  |                                                                    |                                             |

EMISSION UNIT SPECIFIC APPLICABLE REQUIREMENTS  
I.B.5 Non NSPS - Fuel Burning Equipment

Expiration Date: 02/02/2009

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| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                                       | Requirement Paraphrase<br>(For Information Only)                                           | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                                                                          | Reference Test Method<br>(See Section VIII)              |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| EU 5.2     | <p>Puget Sound Clean Air Agency Reg I: 9.09(a) (2/10/1994)<br/><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)<br/><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> | Shall not emit particulate matter in excess of 0.05 gr/dscf corrected to 7% O <sub>2</sub> | <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.4</p> | Puget Sound Clean Air Agency Method 5 (See Section VIII) |

EMISSION UNIT SPECIFIC APPLICABLE REQUIREMENTS  
 I.B.5 Non NSPS - Fuel Burning Equipment

Expiration Date: 02/02/2009

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                         | Requirement Paraphrase<br>(For Information Only)                                                 | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                                                | Reference Test Method<br>(See Section VIII)                                                 |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| EU 5.3     | <p>WAC 173-400-050 (3/22/91)<br/> <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><br/> <i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 3/22/91 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)<br/>                     Fuel Burning Equipment</p> <p>II.A.1(b)<br/>                     Complaint Response</p> <p>II.A.1(c)<br/>                     Facility Inspections</p> | <p>EPA Method 5<br/>                     (See 40 CFR Part 60, Appendix A, July 1, 2001)</p> |







**6. Waste Water Pre-treatment Operations**

**DESCRIPTION:** *This section includes activities and equipment associated with the industrial waste water pre-treatment operations at Building 17-15, including chemical and physical treatment methods, waste water storage tanks, and containers, sludge drying, material and waste handling, and air emission control equipment. This emission unit receives off-site waste and is therefore subject to the Off-Site Waste and Recovery Operations NESHAP (40 CFR Part 63 Subpart DD). At the time of permit issuance, the total annual quantity of HAP contained in the off-site material received at the plant site is less than 1 megagram per year.*

*There is no equipment in this section that has been permitted under a Notice of Construction, or has otherwise been registered with the Puget Sound Clean Air Agency.*

| <i>Bldg.</i> | <i>Col./Dr.</i> | <i>MSS/ID#</i> | <i>Order of Approval #</i> | <i>Install Date</i> | <i>Source Description</i>            |
|--------------|-----------------|----------------|----------------------------|---------------------|--------------------------------------|
| 17-15        | NA              | NA             | NA                         |                     | Waste Water Pre-treatment Operations |

*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<br/>(For Information Only)</b>                                 | <b>Monitoring, Maintenance &amp; Recordkeeping Method<br/>(See Section II)</b> | <b>Reference Test Method<br/>(See Section VIII)</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------|
| <b><i>(a) NESHAP General Provisions</i></b>                                                                                                                                                                                                                                                                                                          |                                |                                                                                          |                                                                                |                                                     |
| Requirement Nos. EU 6.1 through EU 6.12 are the NESHAP General Provisions (40 CFR 63 Subpart A). Applicability of 40 CFR 63 Subpart A is defined in Table 2 to Subpart DD of Part 63. Table 2 supersedes this permit if an apparent conflict exists. These rules below apply only if the facility received regulated wastes greater than 1 megagram. |                                |                                                                                          |                                                                                |                                                     |
| EU 6.1                                                                                                                                                                                                                                                                                                                                               | 40 CFR 63.4 (3/16/94)          | Must comply with 40 CFR 63 Subpart A and DD.                                             | NMR                                                                            |                                                     |
| EU 6.2                                                                                                                                                                                                                                                                                                                                               | 40 CFR 63.5 (4/5/02)           | Boeing shall comply with preconstruction review requirements if reconstructing a source. | NMR                                                                            |                                                     |

| Reqmt. No. | Enforceable Requirement            | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method<br>(See Section VIII) |
|------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|
| EU 6.3     | 40 CFR 63.6(e)(1)<br>(4/5/02)      | At all times, including startup, shutdown, and malfunction, must operate and maintain affected sources consistent with good air pollution control practice. Correct malfunctions as soon as practicable after their occurrence. | NMR                                                                |                                             |
| EU 6.4     | 40 CFR 63.6(f)<br>(4/5/02)         | The nonopacity emission standards set forth in 40 CFR Part 63 shall apply at all times except during periods of startup, shutdown, and malfunctions as set forth in 40 CFR Part 63 Subpart A & DD.                              | NMR                                                                |                                             |
| EU 6.5     | 40 CFR 63.8(b)(1)<br>(4/5/02)      | Monitoring shall be conducted as set forth in Subpart A and DD.                                                                                                                                                                 | NMR                                                                |                                             |
| EU 6.6     | 40 CFR 63.8(f)<br>(4/5/02)         | Boeing must receive permission from the Administrator before using an alternative monitoring procedure.                                                                                                                         | NMR                                                                |                                             |
| EU 6.7     | 40 CFR 63.9(b)(4)(v)<br>(2/12/99)  | Notification requirements. A notification of the actual date of startup of the source, delivered or postmarked within 15 calendar days after that date.                                                                         | NMR                                                                |                                             |
| EU 6.8     | 40 CFR 63.9(b)(5)<br>4/5/02        | Boeing shall notify the Puget Sound Clean Air Agency according to 40 CFR 63.9(b) (5) if it constructs or reconstructs a new affected source.                                                                                    | NMR                                                                |                                             |
| EU 6.9     | 40 CFR 63.9(i)<br>4/5/02           | 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 6.10    | 40 CFR 63.10(a)(3)-(7)<br>(4/5/02) | Boeing must send reports to Puget Sound Clean Air Agency as required by 40 CFR 63.10(a)(3)-(7) and can change report due dates.                                                                                                 | NMR                                                                |                                             |
| EU 6.11    | 40 CFR 63.10(b)(1)<br>(4/5/02)     | 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 retained off site.                                              | II.A.2(c)<br>Documentation on File                                 |                                             |
| EU 6.12    | 40 CFR 63.10(f)<br>(4/5/02)        | Boeing must comply with the recordkeeping and reporting requirements in 40 CFR 63.10 unless a waiver is granted by the Administrator.                                                                                           | NMR                                                                |                                             |

| Reqmt. No.                                                                                                                                                                                                   | Enforceable Requirement            | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)             | Reference Test Method<br>(See Section VIII) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------|
| <b>(b) NESHAP Subpart DD (waste &gt; 1 megagram)</b>                                                                                                                                                         |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                             |
| Requirements No. EU 6.13 through EU 6.16 are the Off-Site Waste and Recovery Operations NESHAP requirements. These rules below apply only if the facility received regulated wastes greater than 1 megagram. |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                |                                             |
| EU 6.13                                                                                                                                                                                                      | 40 CFR 63.680(d)                   | Materials are not off-site materials regulated by 40 CFR Part 63 Subpart DD if they meet one of the requirements of 40 CFR 63.680(b)(2).                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NMR                                                                            |                                             |
| EU 6.14                                                                                                                                                                                                      | 40 CFR 63.683(b)(1)(iii) (7/20/99) | Before placing off-site material in the off-site material management unit, Boeing shall determine that the average VOHAP concentration of each off-site material stream, managed in each affected off-site material management unit, remains at less than 500 ppmw based on the HAP content of the off-site material stream at the point of entry. The initial determination must be made using the procedures specified in 40 CFR 63.694(b), EU 6.16. Thereafter, Boeing shall review and update, as necessary, the determination once every calendar year following the date of the initial determination.     | II.A.2(i) Off-Site Waste and Recovery NESHAP VOHAP Concentration Determination | 40 CFR 63.694(b)                            |
| EU 6.15                                                                                                                                                                                                      | 40 CFR 63.683(c)(1)(ii) (7/20/99)  | Before placing off-site material in the off-site material management unit, Boeing shall determine that the average VOHAP concentration of each off-site material stream managed in each unit on which an affected process vent is used remains at a less than 500 ppmw based on the HAP content of the off-site material stream at the point of entry. The initial determination must be made using the procedures specified in 40 CFR 63.694(b), EU 6.16. Thereafter, Boeing shall review and update, as necessary, the determination once every calendar year following the date of the initial determination. | II.A.2(i) Off-Site Waste and Recovery NESHAP VOHAP Concentration Determination | 40 CFR 63.694(b), EU 6.16                   |
| EU 6.16                                                                                                                                                                                                      | 40 CFR 63.694(b) (7/20/99)         | Boeing shall use the testing methods and procedures in 40 CFR 63.694(b) to determine average VOHAP concentration of an off-site material stream at the point-of-delivery.                                                                                                                                                                                                                                                                                                                                                                                                                                        | NMR                                                                            |                                             |

| Reqmt. No.                                                                                                                                                                                                                                                                                                                                                                                                   | Enforceable Requirement    | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)             | Reference Test Method<br>(See Section VIII) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------|
| <p><b>(c) NESHAP Subpart DD (waste &lt; 1 megagram)</b></p> <p>Requirement No. EU 6.17 is the Off-Site Waste and Recovery Operations NESHAP requirements. When the total annual quantity of the HAP contained in the off-site material received at the plant site is less than 1 megagram (2200 pounds) per year, the plant site is exempt from the requirements of 40 CFR 63.682 through 40 CFR 63.699.</p> |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                |                                             |
| EU 6.17                                                                                                                                                                                                                                                                                                                                                                                                      | 40 CFR 63.680(d) (7/20/99) | Boeing is exempt from the requirements of 40 CFR 63.682 through 63.699, EU 6.14 to EU 6.16, when the total annual quantity of the HAP contained in the off-site material received at the plant site is less than 1 megagram (2200 pounds) per year. Documentation must be prepared and maintained at the plant site to support an initial determination of the total annual HAP quantity for the off-site material. A new determination shall be made when the extent of changes to the quantity or composition of the off-site material received at the plant site could cause the total annual HAP quantity in the off-site material to exceed 1 megagram per year. | II.A.2(i) Off-Site Waste and Recovery NESHAP VOHAP Concentration Determination |                                             |

| Reqmt. No.                                                                                                                                                        | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                                        | Requirement Paraphrase<br>(For Information Only)                                                                                                             | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                     | Reference Test Method<br>(See Section VIII) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <p><b>(d) O&amp;M</b></p> <p>Requirement Nos. EU 6.18 through EU 6.21 are the Puget Sound Clean Air Agency O&amp;M requirements for operating permit sources.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                              |                                                                                                                                                                        |                                             |
| EU 6.18                                                                                                                                                           | <p>Puget Sound Clean Air Agency Reg I: 7.09(b) (9/12/96)<br/> <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)<br/> <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> | <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> | <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> |                                             |

| Reqmt. No. | Enforceable Requirement                                                                                         | Requirement Paraphrase<br>(For Information Only)                                                                                                                                             | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                                                 | Reference Test Method<br>(See Section VIII) |
|------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| EU 6.19    | Puget Sound Clean Air Agency Reg I: 9.20(b) (6/9/88)                                                            | Maintain equipment in good working order.                                                                                                                                                    | II.B Operation and Maintenance (O&M) Plan Requirements<br><br>II.A.1(c) Facility Inspection,<br><br>These monitoring methods supersede the monitoring method for this requirement listed in I.A.10 |                                             |
| EU 6.20    | WAC 173-401-650(a) (11/4/93) (State Only)                                                                       | Boeing shall, contemporaneously with making a change from one operating scenario to another, record in a log at the permitted facility a record of the scenario under which it is operating. | II.A.2(c) Documentation on File                                                                                                                                                                    |                                             |
| EU 6.21    | Puget Sound Clean Air Agency Reg III: 2:02 (9/13/01) (State Only)<br><br>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                                                                                                                                                                                                |                                             |

**7. 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. This section also includes a few baghouses, which locate outside of a building but exhaust back to the building. 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>Col./Dr.</i> | <i>MSS/<br/>ID#</i> | <i>Order<br/>Approval #</i> | <i>Install<br/>Date</i> | <i>Source Description</i> | <i>Rated at 2000 cfm<br/>or less</i> |
|--------------|-----------------|---------------------|-----------------------------|-------------------------|---------------------------|--------------------------------------|
| 17-04        | D12; Door 10    | 57326               | Reg.                        | 1967                    | Dust Collector            | N                                    |
| 17-05        | K10             | 5896                | Reg.                        | 1966                    | Dust Collector            | N                                    |
| 17-05        | E16; Door 19    | 5936                | 1925                        | 1979                    | Dust Collector            | N                                    |
| 17-05        | K10             | 5895                | 2530                        | 1984                    | Dust Collector            | N                                    |
| 17-05        | K8              | 5894                | 2530                        | 1984                    | Dust Collector            | N                                    |
| 17-06        | O/S; Door E14   | 9898                | Reg.                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | O/S; Door E14   | 9899                | Reg.                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | O/S; DOOR 31    | 61215               | REG.                        | 1980                    | Dust Collector            | N                                    |
| 17-06        | Door 25-26      | 6092                | 2003                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | Door 25-26      | 6093                | 2003                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | Door E13        | 6120                | 2004                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | Door E13        | 6121                | 2004                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | Door E13        | 6122                | 2004                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | Door E13        | 6123                | 2004                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | Door E13        | 6125                | 2004                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | Door E13        | 6127                | 2004                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | O/S; Door E9    | 6132                | 2004                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | O/S; Door E9    | 6133                | 2004                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | O/S; Door E9    | 6134                | 2004                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | O/S; Door E9    | 6135                | 2004                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | Door E13        | 6126                | 2004                        | 1979                    | Dust Collector            | N                                    |
| 17-06        | O/S E5; Door 7  | 60219               | 4686                        | 1992                    | Dust Collector            | N                                    |
| 17-06        | O/S; Door 30    | 58618               | 4192                        | 1991                    | Dust Collector            | N                                    |
| 17-06        | O/S; Door W31   | 58617               | 4192                        | 1991                    | Dust Collector            | N                                    |
| 17-06        | O/S; Door W31   | 58389               | 4192                        | 1991                    | Dust Collector            | N                                    |
| 17-06        | O/S; Door W31   | 58388               | 4192                        | 1991                    | Dust Collector            | N                                    |

| <i>Bldg.</i> | <i>Col./Dr.</i>       | <i>MSS/<br/>ID#</i> | <i>Order<br/>Approval #</i> | <i>Install<br/>Date</i> | <i>Source Description</i>            | <i>Rated at 2000 cfm<br/>or less</i> |
|--------------|-----------------------|---------------------|-----------------------------|-------------------------|--------------------------------------|--------------------------------------|
| 17-06        | D4                    | 4071                | 5092                        | 1993                    | Dust Collector                       | N                                    |
| 17-06        | C23                   | 4073                | 5092                        | 1993                    | Dust Collector                       | N                                    |
| 17-06        | C23                   | 4074                | 5092                        | 1993                    | Dust Collector                       | N                                    |
| 17-06        | O/S; Door 37          | 12203               | 6742                        | 1997                    | Mist Eliminator                      | N                                    |
| 17-06        | O/S A6                | 12183               | 6777                        | 1998                    | Dust Collector                       | N                                    |
| 17-06        | C15                   | 4075                | 6975                        | 1997                    | Dust Collector                       | N                                    |
| 17-06        | O/S; Door<br>25/26    | 12603               | 7177                        | 1997                    | Dust Collector                       | N                                    |
| 17-06        | O/S; Door<br>25/26    | 12604               | 7177                        | 1997                    | Dust Collector                       | N                                    |
| 17-06        | Door W28A             | 14828               | 7948                        | 2000                    | Dust Collector                       | N                                    |
| 17-06        | Door W25A             | 14829               | 7949                        | 2000                    | Dust Collector                       | N                                    |
| 17-06        | Door W25A             | 14830               | 7950                        | 2000                    | Dust Collector                       | N                                    |
| 17-07        | EE9/O                 | 59077               | 4685                        | 1992                    | Dust Collector                       | N                                    |
| 17-07        | EE10/O                | 60205               | 4685                        | 1992                    | Dust Collector                       | N                                    |
| 17-07        | EE11/O                | 60206               | 4685                        | 1992                    | Dust Collector                       | N                                    |
| 17-07        | EE9                   | 64253               | 4687                        | 1993                    | Dust Collector                       | N                                    |
| 17-07        | O/S EE9               | 63616               | 6719                        | 1997                    | Dust Collector                       | N                                    |
| 17-07        | C1                    | 3818                | 7183                        | 1997                    | Dust Collector                       | N                                    |
| 17-07        | O/S; B-11             | 13713               | 7613                        | 1999                    | Dust Collector                       | Y                                    |
| 17-07        | D-15                  | 13675               | 7635                        | 1998                    | Dust Collector                       | N                                    |
| 17-10        | North side            | 64989               | 6115                        | 1996                    | Dust Collector                       | N                                    |
| 17-13        | North side            | 11485               | 6995                        | 1998                    | Dust Collector                       | N                                    |
| 17-45        | G2; 2nd Floor         | 55679               | 8029                        | 1991                    | Dust Collector                       | N                                    |
| 17-07        | Door w19              | 16186               | 8082                        | 2000                    | Dust Collector                       | N                                    |
| 17-68        | O/S F1/4.5;<br>Door 7 | 8763                | 2876                        | 1991                    | Dust Collector                       | N                                    |
| 17-06        | O/S E24               | 6124                | 2005                        | 1979                    | Baghouse (vents back<br>to the bldg) |                                      |
| 17-07        | O/S EE9               | 58117               | 3805                        | 1992                    | Baghouse (vents back<br>to the bldg) |                                      |
| 17-07        | O/S EE9               | 64707               | 3805                        | 1992                    | Baghouse (vents back<br>to the bldg) |                                      |
| 17-05        | Door S21              | 58144               | 8302                        | 2001<br>(NOC<br>date)   | Baghouse                             |                                      |

| <i>Bldg.</i> | <i>Col./Dr.</i> | <i>MSS/<br/>ID#</i> | <i>Order<br/>Approval #</i> | <i>Install<br/>Date</i> | <i>Source Description</i>                 | <i>Rated at 2000 cfm<br/>or less</i> |
|--------------|-----------------|---------------------|-----------------------------|-------------------------|-------------------------------------------|--------------------------------------|
| 17-45        | A2: Mezz        | 55214               | 8029                        | 1991                    | Particulate Scrubber                      | N                                    |
| 17-45        | A2: Mezz        | 55215               | 8029                        | 1991                    | Particulate Scrubber<br>(salt bath)       | N                                    |
| 17-62        | B1              | 58323               | 5985                        | 1992                    | Particulate Scrubber<br>(salt bath rinse) | N                                    |
| 17-66        | O/S; Door 9     | 61877               | 7591                        | 1998                    | Dust Collector; QA<br>laboratory          | Y                                    |

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

### COMPLIANCE REQUIREMENTS:

| <b>Reqmt.<br/>No.</b>                                                                                                      | <b>Enforceable<br/>Requirement</b>                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Requirement Paraphrase<br/>(For Information Only)</b>                                  | <b>Monitoring,<br/>Maintenance &amp;<br/>Recordkeeping<br/>Method<br/>(See Section II)</b>                                                                                                                                                                                          | <b>Reference<br/>Test<br/>Method<br/>(See Section<br/>VIII)</b> |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| (a) Requirement Nos. EU 7.1 through EU 7.5 are the Puget Sound Clean Air Agency requirements for operating permit sources. |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                           |                                                                                                                                                                                                                                                                                     |                                                                 |
| EU 7.1                                                                                                                     | <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</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)<br/>Cyclones,<br/>Baghouses, and<br/>Abrasive Blast<br/>Booths</p> <p>II.A.1(b)<br/>Complaint<br/>Response;</p> <p>II.A.1(c)<br/>Facility<br/>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)                            |

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                         | Requirement Paraphrase<br>(For Information Only)                                                                                                                 | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                                                                                                              | Reference Test Method<br>(See Section VIII)              |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
|            | <p><i>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). 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)</p>                                                                                                                                               |                                                                                                                                                                  |                                                                                                                                                                                                                                                                 |                                                          |
| EU 7.2     | <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 (8/20/93) <i>This</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.2(d)(v)<br/>Cyclones, Baghouses, and Abrasive Blast Booths</p> <p>II.A.1(b)<br/>Complaint Response;</p> <p>II.A.1(c)<br/>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) |

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                              | Requirement Paraphrase<br>(For Information Only)                                                                                                      | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                     | Reference Test Method<br>(See Section VIII) |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
|            | <p><i>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). This requirement will become federally enforceable upon adoption into the SIP and will replace the 8/20/93 version of WAC 173-400-060</p>                                                                                          |                                                                                                                                                       |                                                                                                                                                                        |                                             |
| EU 7.3     | <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> |                                             |

| Reqmt. No.                                                                                                         | Enforceable Requirement                                                                                    | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                               | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                                                                                                                            | Reference Test Method<br>(See Section VIII) |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| EU 7.4                                                                                                             | Puget Sound Clean Air Agency<br>Reg I: 9.20<br>(6/9/88)<br><br>RCW<br>70.94.152(7) 1996<br>(State Only)    | Maintain equipment in good working order.                                                                                                                                                                                                                      | II.A.1(b)<br>Complaint Response;<br><br>II.A.1(c)<br>Facility Inspections<br><br>(Except for MSS #55214, 55215 &, 58323 only)<br><br>II.A.1(c)<br>Facility Inspections,<br><br>These monitoring methods supersede the monitoring method for this requirement listed in I.A.10 |                                             |
| EU 7.5                                                                                                             | Puget Sound Clean Air Agency<br>Reg I: 9.20(a)<br>(6/9/88)<br><br>RCW<br>70.94.152(7) 1996<br>(State Only) | Maintain equipment in good working order that has received an NOC Order of Approval.                                                                                                                                                                           | II.A.2(d)(viii)<br>Wet Particulate Scrubber<br><br>(For MSS #55214, 55215 &, 58323 only)<br><br>II.A.1(c)<br>Facility Inspections                                                                                                                                             |                                             |
| (b) Requirement No. EU 7.6 is the Order of Approval 6115 condition that applies to the Bldg. 17-10, MSS/ID# 64989. |                                                                                                            |                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                               |                                             |
| EU 7.6                                                                                                             | Order of Approval #6115, Condition #3 (6/29/99)                                                            | A gauge to indicate the static pressure differential across the bags shall be installed and maintained for the baghouse. Within 90 days after beginning equipment operations, the acceptable range for the gauge shall be clearly marked on or near the gauge. | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths                                                                                                                                                                                                                |                                             |

| Reqmt. No.                                                                                                                       | Enforceable Requirement                         | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)      | Reference Test Method<br>(See Section VIII)                    |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------|
| (c) Requirement Nos. EU 7.7 and EU 7.8 are the Order of Approval 6719 conditions that apply to the Bldg. 17-07, MSS/ID# 63616.   |                                                 |                                                                                                                                                                                                                                                 |                                                                         |                                                                |
| EU 7.7                                                                                                                           | Order of Approval #6719, Condition #4 (3/7/97)  | Boeing shall install and maintain a gauge to measure the pressure drop across the dust collector exhaust filters. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge. | II.A.2(d)(v)<br>Cyclones,<br>Baghouses, and<br>Abrasive Blast<br>Booths |                                                                |
| EU 7.8                                                                                                                           | Order of Approval #6719, Condition #5 (3/7/97)  | Opacity from the dust collector shall not exceed 5 percent. The reference test method for measuring opacity is EPA Method 9.                                                                                                                    | II.A.2(d)(v)<br>Cyclones,<br>Baghouses, and<br>Abrasive Blast<br>Booths | EPA Method 9<br>(See 40 CFR Part 60, Appendix A, July 1, 1996) |
| (d) Requirement Nos. EU 7.9 and EU 7.10 are the Order of Approval 6777 conditions that apply to the Bldg. 17-06, MSS/ID# 12183.  |                                                 |                                                                                                                                                                                                                                                 |                                                                         |                                                                |
| EU 7.9                                                                                                                           | Order of Approval #6777, Condition #4 (1/28/98) | Boeing shall install and maintain a gauge to measure the pressure drop across the dust collector exhaust filters. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge. | II.A.2(d)(v)<br>Cyclones,<br>Baghouses, and<br>Abrasive Blast<br>Booths |                                                                |
| EU 7.10                                                                                                                          | Order of Approval #6777, Condition #5 (1/28/98) | Opacity from the dust collector shall not exceed 5 percent. The reference test method for measuring opacity is EPA Method 9.                                                                                                                    | II.A.2(d)(v)<br>Cyclones,<br>Baghouses, and<br>Abrasive Blast<br>Booths | EPA Method 9<br>(See 40 CFR Part 60, Appendix A, July 1, 1997) |
| (e) Requirement Nos. EU 7.11 and EU 7.12 are the Order of Approval 6995 conditions that apply to the Bldg. 17-13, MSS/ID# 11485. |                                                 |                                                                                                                                                                                                                                                 |                                                                         |                                                                |
| EU 7.11                                                                                                                          | Order of Approval #6995, Condition #3 (8/14/97) | A gauge to measure the pressure drop across the filters will be installed and maintained on the dust collector. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.   | II.A.2(d)(v)<br>Cyclones,<br>Baghouses, and<br>Abrasive Blast<br>Booths |                                                                |

| Reqmt. No.                                                                                                                                     | Enforceable Requirement                          | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                 | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method<br>(See Section VIII) |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|
| EU 7.12                                                                                                                                        | Order of Approval #6995, Condition #4 (8/14/97)  | Once each week, Boeing shall determine if the pressure drop across the exhaust filters was in the acceptable range. If the pressure drop was not within the acceptable range, Boeing shall take corrective action as specified in the facility's operation and maintenance plan. | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths     |                                             |
| (f) Requirement Nos. EU 7.13 through EU 7.15 are the Order of Approval 7177 conditions that apply to the Bldg. 17-06, MSS/ID# 12603 and 12604. |                                                  |                                                                                                                                                                                                                                                                                  |                                                                    |                                             |
| EU 7.13                                                                                                                                        | Order of Approval #7177, Condition #3 (10/28/97) | Boeing shall install and maintain gauges to measure the pressure drop across the baghouse filters. Within 90 days after beginning operations, the acceptable ranges for the gauges shall be clearly marked on or nearby the gauges.                                              | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths     |                                             |
| EU 7.14                                                                                                                                        | Order of Approval #7177, Condition #4 (10/28/97) | Once each month that the dust collectors are used, Boeing shall determine and record if the pressure drop across the unit is in the acceptable range.                                                                                                                            | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths     |                                             |
| EU 7.15                                                                                                                                        | Order of Approval #7177, Condition #5 (10/28/97) | If the pressure drop is not within the acceptable range, Boeing shall take corrective action as specified in the facility's Operation and Maintenance plan.                                                                                                                      | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths     |                                             |
| (g) Requirement Nos. EU 7.16 through EU 7.18 are the Order of Approval 7183 conditions that apply to the Bldg. 17-07, MSS/ID# 3818.            |                                                  |                                                                                                                                                                                                                                                                                  |                                                                    |                                             |
| EU 7.16                                                                                                                                        | Order of Approval #7183, Condition #3 (9/25/97)  | Boeing shall install and maintain a gauge to measure the pressure drop across the dust collector filters. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.                                          | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths     |                                             |
| EU 7.17                                                                                                                                        | Order of Approval #7183, Condition #4 (9/25/97)  | Once each month that the dust collector is used, Boeing shall determine and record if the pressure drop across the unit is in the acceptable range.                                                                                                                              | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths     |                                             |
| EU 7.18                                                                                                                                        | Order of Approval #7183, Condition #5 (9/25/97)  | If the pressure drop is not within the acceptable range, Boeing shall take corrective action as specified in the facility's Operation and Maintenance plan.                                                                                                                      | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths     |                                             |

| Reqmt. No.                                                                                                                                                             | Enforceable Requirement                                     | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                     | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)      | Reference Test Method<br>(See Section VIII) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------|
| (h) Requirement Nos. EU 7.19 and EU 7.20 are the Order of Approval 7613 conditions that apply to the Bldg. 17-07, MSS/ID# 13713.                                       |                                                             |                                                                                                                                                                                                                                                                      |                                                                         |                                             |
| EU 7.19                                                                                                                                                                | Order of Approval #7613, Condition #3 (11/30/98)            | Boeing shall install and maintain a gauge to measure the pressure drop across the dust collector filters. Within 90 days after submitting the Notice of Completion, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.               | II.A.2(d)(v)<br>Cyclones,<br>Baghouses, and<br>Abrasive Blast<br>Booths |                                             |
| EU 7.20                                                                                                                                                                | Order of Approval #7613, Condition #4 (11/30/98)            | Once each month, Boeing shall determine if the pressure drop across the exhaust filters is in the acceptable range. If the pressure drop is not within the acceptable range, Boeing shall take corrective action as specified in the operation and maintenance plan. | II.A.2(d)(v)<br>Cyclones,<br>Baghouses, and<br>Abrasive Blast<br>Booths |                                             |
| (i) Requirement Nos. EU 7.21 and EU 7.22 are the Order of Approval 7635 conditions that apply to the Bldg. 17-07, MSS/ID# 13675.                                       |                                                             |                                                                                                                                                                                                                                                                      |                                                                         |                                             |
| EU 7.21                                                                                                                                                                | Order of Approval #7635, Condition #3 (11/30/98)            | Boeing shall install and maintain a gauge to measure the pressure drop across the dust collector filters. Within 90 days after submitting the Notice of Completion, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.               | II.A.2(d)(v)<br>Cyclones,<br>Baghouses, and<br>Abrasive Blast<br>Booths |                                             |
| EU 7.22                                                                                                                                                                | Order of Approval #7635, Condition #4 (11/30/98)            | Once each month, Boeing shall determine if the pressure drop across the exhaust filters is in the acceptable range. If the pressure drop is not within the acceptable range, Boeing shall take corrective action as specified in the operation and maintenance plan. | II.A.2(d)(v)<br>Cyclones,<br>Baghouses, and<br>Abrasive Blast<br>Booths |                                             |
| (j) Requirement Nos. EU 7.23 through EU 7.26 are the Order of Approval 7948, 7949, and 7950 conditions that apply to the Bldg. 17-06, MSS/ID# 14828, 14829, and 14830. |                                                             |                                                                                                                                                                                                                                                                      |                                                                         |                                             |
| EU 7.23                                                                                                                                                                | Order of Approval #7948, 7949, 7950 Condition #3 (10/27/99) | Boeing shall install and maintain a gauge to measure the pressure drop across the dust collector filters. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.                              | II.A.2(d)(v)<br>Cyclones,<br>Baghouses, and<br>Abrasive Blast<br>Booths |                                             |
| EU 7.24                                                                                                                                                                | Order of Approval #7948, 7949, 7950 Condition #4 (10/27/99) | Once each month, Boeing shall determine if the pressure drop across the exhaust filters is in the acceptable range. If the pressure drop is not within the acceptable range, Boeing shall take corrective action as specified in the Operation and Maintenance Plan. | II.A.2(d)(v)<br>Cyclones,<br>Baghouses, and<br>Abrasive Blast<br>Booths |                                             |

| Reqmt. No.                                                                                                                           | Enforceable Requirement                                     | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                  | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method<br>(See Section VIII) |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|
| EU 7.25                                                                                                                              | Order of Approval #7948, 7949, 7950 Condition #5 (10/27/99) | Boeing shall follow the manufacturer's recommended Operation and Maintenance Plan to ensure that the guaranteed maximum emission rate of 0.005 grains/dscf is achieved.                                                                                           | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths     |                                             |
| EU 7.26                                                                                                                              | Order of Approval #7948, 7949, 7950 Condition #6 (10/27/99) | Once each month, Boeing shall check to ensure that no visible emissions are present from the dust collector discharge stack.                                                                                                                                      | II.A.1(h)<br>Opacity Monitoring for No Visible Emissions           |                                             |
| (k) Requirement Nos. EU 7.27 through EU 7.29 are the Order of Approval 8082 conditions that apply to the Bldg. 17-07, MSS/ID# 16186. |                                                             |                                                                                                                                                                                                                                                                   |                                                                    |                                             |
| EU 7.27                                                                                                                              | Order of Approval #8082, Condition #3 (6/7/00)              | Boeing shall install and maintain a gauge to measure the pressure drop across the dust collector filters. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.                           | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths     |                                             |
| EU 7.28                                                                                                                              | Order of Approval #8082, Condition #4 (6/7/00)              | Once each month, Boeing shall record the pressure drop across the dust collector filters. If the pressure drop is not within the acceptable range, Boeing shall take corrective action as specified in the Operation and Maintenance Plan.                        | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths     |                                             |
| EU 7.29                                                                                                                              | Order of Approval #8082, Condition #5 (6/7/00)              | Once each month, Boeing shall check for visible emissions and fallout while the emission generating equipment is operating. If visible emissions or fallout are observed, Boeing shall take corrective action as specified in the Operation and Maintenance Plan. | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths     |                                             |
| (l) Requirement No. EU 7.30 is the Order of Approval 8302 permit condition that applies to the Bldg. 17-05, MSS/ID# 58144.           |                                                             |                                                                                                                                                                                                                                                                   |                                                                    |                                             |
| EU 7.30                                                                                                                              | Order of Approval #8302, Condition #3 (4/20/01)             | Boeing shall inspect the baghouse and ductwork at least quarterly for the following:<br>(a) Visible emissions to the ambient air while the emission generating equipment is operating, and<br>(b) Evidence of fugitive dust or fallout.                           | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths     |                                             |
| (m) Requirement Nos. EU 7.31 and 7.32 are the Order of Approval 7591 conditions that apply to the Bldg. 17-66, MSS/ID# 61877.        |                                                             |                                                                                                                                                                                                                                                                   |                                                                    |                                             |

| Reqmt. No. | Enforceable Requirement                          | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                     | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) | Reference Test Method<br>(See Section VIII) |
|------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|
| EU 7.31    | Order of Approval #7591, Condition #3 (11/24/98) | Boeing shall install and maintain a gauge to measure the pressure drop across the dust collector filters. Within 90 days after submitting the Notice of Completion, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.               | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths     |                                             |
| EU 7.32    | Order of Approval #7591, Condition #4 (11/24/98) | Once each month, Boeing shall determine if the pressure drop across the exhaust filters is in the acceptable range. If the pressure drop is not within the acceptable range, Boeing shall take corrective action as specified in the Operation and Maintenance plan. | II.A.2(d)(v)<br>Cyclones, Baghouses, and Abrasive Blast Booths     |                                             |

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

| <u>Source</u>                   | <u>Description</u>                                                                                                                                                        |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Puget Sound Clean Air Agency | Notice of Construction Requirements for Scrubbers and Baghouses. Letter dated October 10, 2001, Steve M. Van Slyke to Jade Hudson, the Boeing Company. See Attachment 12. |

**8. 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>Col./Dr.</i>           | <i>MSS/<br/>ID#</i> | <i>Order<br/>Approval #</i> | <i>Install<br/>Date</i> | <i>Source Description</i> | <i>Rated at 2000 cfm<br/>or less</i> |
|--------------|---------------------------|---------------------|-----------------------------|-------------------------|---------------------------|--------------------------------------|
| <i>17-07</i> | <i>EE9/O; Door<br/>19</i> | <i>63461</i>        | <i>4684</i>                 | <i>1992</i>             | <i>Dust Collector</i>     | <i>Y</i>                             |
| <i>17-68</i> | <i>B13</i>                | <i>16511</i>        | <i>3740</i>                 | <i>1991</i>             | <i>Dust Collector</i>     | <i>N</i>                             |

*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<br/>(For Information Only)</b>                                                                                              | <b>Monitoring, Maintenance &amp; Recordkeeping Method<br/>(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> |

| Reqmt. No. | Enforceable Requirement                              | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                              | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                            |
|------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 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.2(d)(v) Cyclones, Baghouses, and Abrasive Blast Booths<br>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.                                                                                                                              | II.A.2(d)(v) Cyclones, Baghouses, and Abrasive Blast Booths<br>II.A.1(c) Facility Inspections |
| EU 8.4     | 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 8.5     | 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 8.6     | 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 8.7     | 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<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)            |
|------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| EU 9.3     | Puget Sound Clean Air Agency Regulation II: 3.08(b) (12/9/93) | 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 9.5 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 9.4     | Puget Sound Clean Air Agency Regulation II: 3.08(f) (12/9/93) | 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                                            |
| EU 9.5     | Order of Approval No. 7727, Condition (5/28/1999)             | <p>As an Alternate Means of Compliance with Reg II: 3.08(b) (EU 9.3) 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. Order of Approval No. 7727, issued to amend Condition No. 3, hereby supersedes and cancels Order of Approval No. 7727 dated Mar 12, 1999.</li> </ol> | <p>II.A.1(b) Complaint Response</p> <p>II.A.1(d) Work Practice Inspection</p> |

## 10. Motor Vehicle Fueling Operations

**DESCRIPTION:** *This section consists of all activities and equipment associated with motor vehicle fueling operations, including fuel receiving, fuel storage, fuel dispensing, and material and waste handling. The gasoline station at the facility consists of a gasoline pump, a diesel pump, and two 10,000 gallon underground storage tanks for gasoline and diesel. Gasoline throughput at the station is less than 600,000 gallons annually.*

| <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>17-64</i> | <i>SE</i>       | <i>9754</i>    | <i>10338</i>               | <i>1989</i>         | <i>Gasoline station</i>   |

*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<br/>(For Information Only)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Monitoring, Maintenance &amp; Recordkeeping Method<br/>(See Section II)</b>                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| EU 10.1           | Puget Sound Clean Air Agency Reg II: 2.07(b) (2/10/94)<br><i>This requirement will be superseded upon adoption of the 12/09/99 version of Reg II: 2.07(b) into the SIP</i>                                       | Boeing shall not cause or allow the transfer of gasoline from a transport tank into a stationary storage tank unless <ul style="list-style-type: none"> <li>The tank is equipped with a submerged fill pipe and a Stage 1 system that is CARB certified.</li> <li>The transport tank is equipped to balance vapors.</li> <li>All vapor return lines are connected between the transport tank and the stationary storage tank and the Stage 1 system is operating.</li> </ul>               | II.A.2(d)(xi) Gasoline Delivery Certification and Inspection<br><br>II.A.2(c) Documentation on File |
| EU 10.2           | Puget Sound Clean Air Agency Reg II: 2.07(b) (12/09/99) (State Only)<br><i>This requirement will become federally enforceable upon adoption into the SIP and will replace the 2/10/94 version of II: 2.07(b)</i> | Boeing shall not cause or allow the transfer of gasoline from a transport tank into a stationary storage tank unless <ul style="list-style-type: none"> <li>The tank is equipped with a submerged fill pipe and a Stage 1 system that is CARB certified.</li> <li>The Stage 1 system is visually inspected after each product delivery and any equipment found to be defective shall be repaired or replaced as soon as possible but no later than 7 days after the inspection.</li> </ul> | II.A.2(d)(xi) Gasoline Delivery Certification and Inspection<br><br>II.A.2(c) Documentation on File |

| Reqmt. No. | Enforceable Requirement                                                                                                                                                        | Requirement Paraphrase<br>(For Information Only)                                                                                                                           | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II) |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| EU 10.3    | Puget Sound Clean Air Agency Reg. II: 2.08(b) (6/13/1991)<br><i>This requirement will be superseded upon adoption of the 12/9/99 version of Reg. II: 2.07(b) into the SIP</i>  | Current inspection sticker must be displayed on transport tank vehicle or current leak test certification for transport tank must be on file prior to filling storage tank | II.A.2(d)(xi) Gasoline Delivery Certification and Inspection       |
| EU 10.4    | Puget Sound Clean Air Agency Reg. II: 2.08(d)(1) (6/13/91)<br><i>This requirement will be superseded upon adoption of the 12/9/99 version of Reg. II: 2.07(b) into the SIP</i> | Vapor recovery system operated during transfer so gasoline vapor < LEL                                                                                                     | II.A.2(d)(xi) Gasoline Delivery Certification and Inspection       |
| EU 10.5    | Puget Sound Clean Air Agency Reg. II: 2.08(d)(2) (6/13/91)<br><i>This requirement will be superseded upon adoption of the 12/9/99 version of Reg. II: 2.07(b) into the SIP</i> | No liquid leaks > 3 drops/minute during transfer and no more than 10 ml of liquid drainage per disconnect                                                                  | II.A.2(d)(xi) Gasoline Delivery Certification and Inspection       |

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                                  | Requirement Paraphrase<br>(For Information Only)                                                                                                      | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                     |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU 10.6    | <p>Puget Sound Clean Air Agency Reg I: 7.09(b) (9/12/96)<br/><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 10.7    | 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)(xi) Gasoline Delivery Certification and Inspection</p> <p>II.A.1(c) Facility Inspections</p>                                                              |
| EU 10.8    | RCW 70.94.152(7) 1996 (State Only)                                                                                                                                                                                                                                                                                                                                                                       | Maintain equipment in good working order that has received an Order of Approval.                                                                      | <p>II.A.2(d)(xi) Gasoline Delivery Certification and Inspection</p> <p>II.A.1(c) Facility Inspections</p>                                                              |

**11. Storage Tanks**

**DESCRIPTION:** *This section consists of all activities and equipment associated with storage tank operations (except gasoline storage). The following tank in this section has been permitted under a Notice of Construction. This tank was originally installed in 1966. It was relocated within the facility in 1987, with no modification to the structure. The tank held petroleum products both before and after the move. The Order of Approval for the relocation of the tank was approved by Puget Sound Clean Air Agency on March 23, 1987.*

| <i>Bldg.</i> | <i>Col./Dr.</i> | <i>MSS/ID#</i> | <i>Order of Approval #</i> | <i>Install Date</i> | <i>Source Description</i>             |
|--------------|-----------------|----------------|----------------------------|---------------------|---------------------------------------|
| 17-09        | South of Bldg.  | 57664          | 2886                       | 1966                | 430,000 gallons fuel oil storage tank |

*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<br/>(For Information Only)</b>                                                                                              | <b>Monitoring, Maintenance &amp; Recordkeeping Method<br/>(See Section II)</b>                                                                                         |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU 11.1           | <p>Puget Sound Clean Air Agency Reg I: 7.09(b) (9/12/96)<br/><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> |

| Reqmt. No. | Enforceable Requirement                              | Requirement Paraphrase<br>(For Information Only)                                     | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                  |
|------------|------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU 11.2    | 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.2(d)(x) Above Ground Storage Tanks for Fuels<br><br><i>Note: This method applies only to above ground storage tanks.</i><br><br>II.A.1(c) Facility Inspections |
| EU 11.3    | 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)(x) Above Ground Storage Tanks for Fuels<br><br><i>Note: This method applies only to above ground storage tanks.</i><br><br>II.A.1(c) Facility Inspections |



| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                                   | Requirement Paraphrase (For Information Only)                                                                                                         | Monitoring, Maintenance & Recordkeeping Method (See Section II)                                                                                                        |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU 12.1    | <p>Puget Sound Clean Air Agency Reg I: 7.09(b) (9/12/96)<br/> <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 12.2    | <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.                                                                  | II.A.1(c) Facility Inspections                                                                                                                                         |

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

| Source                          | Description                                                                                                                                                                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |

**13. 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> |
|--------------|---------------|----------------|----------------------------|-----------------------|---------------------------|
|--------------|---------------|----------------|----------------------------|-----------------------|---------------------------|

*Facilities Carpentry Shop*

*Carpentry shop*

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 13.1           | 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(l) Wood furniture manufacture                                       |
| EU 13.2           | Puget Sound Clean Air Agency Reg III: 2:02 (9/13/01) (State Only)<br><br>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                                                                        |

**14. NO<sub>2</sub> and H<sub>2</sub>S scrubbers**

**DESCRIPTION:** *This section includes all activities and equipment associated with NO<sub>2</sub> and H<sub>2</sub>S scrubbers. The following equipment in this section has been permitted under a Notice of Construction or has otherwise been registered with the Puget Sound Clean Air Agency. 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>Col./Dr.</i>          | <i>MSS/ID#</i> | <i>Order of Approval #</i> | <i>Install Date</i> | <i>Source Description</i> |
|--------------|--------------------------|----------------|----------------------------|---------------------|---------------------------|
| <i>17-62</i> | <i>O/S East, Door 20</i> | <i>17145</i>   | <i>8542</i>                | <i>2002</i>         | <i>NO2 Scrubber</i>       |
| <i>17-62</i> | <i>O/S East, Door 20</i> | <i>17146</i>   | <i>8542</i>                | <i>2002</i>         | <i>H2S Scrubber</i>       |
| <i>17-68</i> | <i>O/S; Door W29</i>     | <i>17376</i>   | <i>8543</i>                | <i>2002</i>         | <i>NO2 Scrubber</i>       |
| <i>17-68</i> | <i>O/S; Door W29</i>     | <i>17377</i>   | <i>8543</i>                | <i>2002</i>         | <i>H2S Scrubber</i>       |

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

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**APPLICABLE REQUIREMENTS:**

| Reqmt. No. | Enforceable Requirement                                                                                                                                                                                                                                                                                                                                                                                  | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                            | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                                                                                     |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU 14.1    | <p>Puget Sound Clean Air Agency Reg I: 7.09(b) (9/12/96)<br/><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 14.2    | Puget Sound Clean Air Agency Reg I: 9.20(a) (6/9/88)                                                                                                                                                                                                                                                                                                                                                     | Maintain equipment that has received an NOC Order of Approval in good working order.                                                                                                                                                                                                                                                                        | <p>II.A.2(d)(ix)NO<sub>2</sub> and H<sub>2</sub>S Scrubbers</p> <p>II.A.1(c) Facility Inspections</p>                                                                  |
| EU 14.3    | Order of Approval #8542, 8543 Condition #3 (7/18/01)                                                                                                                                                                                                                                                                                                                                                     | Boeing shall limit emissions of H <sub>2</sub> S from the H <sub>2</sub> S scrubbers to less than 0.30 lb/hr.                                                                                                                                                                                                                                               | II.A.2(d)(ix)NO <sub>2</sub> and H <sub>2</sub> S Scrubbers                                                                                                            |
| EU 14.4    | Order of Approval #8542, 8543, Condition #4 (7/18/01)                                                                                                                                                                                                                                                                                                                                                    | Within 180 days of scrubbers start-up, Boeing shall conduct source testing to verify compliance with Condition #3 (EU 14.3).                                                                                                                                                                                                                                | II.A.2(d)(ix)NO <sub>2</sub> and H <sub>2</sub> S Scrubbers                                                                                                            |
| EU 14.5    | Order of Approval #8542, 8543, Condition #5 (7/18/01)                                                                                                                                                                                                                                                                                                                                                    | Boeing shall install and maintain gauges at the NO <sub>2</sub> and H <sub>2</sub> S scrubbers to measure the pH, pressure differential across the packed beds, and liquid flow rate. Within 180 days after the start-up of the scrubbers, the acceptable ranges for each of the above parameters shall be clearly marked on or near the respective gauges. | II.A.2(d)(ix)NO <sub>2</sub> and H <sub>2</sub> S Scrubbers                                                                                                            |

| Reqmt. No. | Enforceable Requirement                               | Requirement Paraphrase<br>(For Information Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Monitoring, Maintenance & Recordkeeping Method<br>(See Section II)                                |
|------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| EU 14.6    | Order of Approval #8542, 8543, Condition #6 (7/18/01) | Once each week, if at any time the scrubber system is operational, Boeing shall record the pH, pressure differential across the packed beds, and liquid flow rate for the NO <sub>2</sub> and H <sub>2</sub> S scrubbers. If the above parameters are not within the acceptable ranges, Boeing shall take corrective action as specified in the facility's Operation and Maintenance Plan and make record of the corrective action taken.                                                                                  | II.A.2(d)(ix)NO <sub>2</sub> and H <sub>2</sub> S Scrubbers                                       |
| EU 14.7    | Order of Approval #8542, 8543, Condition #7 (7/18/01) | If the NO <sub>2</sub> scrubber is operated without operation of the H <sub>2</sub> S scrubber, Boeing shall daily record the pH, pressure differential across the packed beds, and liquid flow rate for the NO <sub>2</sub> scrubber. If the above parameters are not within the acceptable ranges, Boeing shall take corrective action to bring the parameters within the acceptable ranges within 24-hours or shall shut down the NO <sub>2</sub> scrubber. Record shall be made of the corrective action or shut-down. | II.A.2(d)(ix)NO <sub>2</sub> and H <sub>2</sub> S Scrubbers                                       |
| EU 14.8    | Order of Approval #8542, 8543, Condition #8 (7/18/01) | All records maintained in compliance with this Order of Approval shall be maintained on-site for at least two years and made available to Agency personnel upon request.                                                                                                                                                                                                                                                                                                                                                   | II.A.2(d)(ix)NO <sub>2</sub> and H <sub>2</sub> S Scrubbers                                       |
| EU 14.9    | 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)(ix)NO <sub>2</sub> and H <sub>2</sub> S Scrubbers<br><br>II.A.1(c) Facility Inspections |

### **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
- Heat treatment equipment
- 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
- Engraving, including laser engraving of aluminum
- 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 stripers 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.

- 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                            |    |
| (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  |

| Regulatory Citation | Description                                                                                                                                                                                                                                                    | IEU Present at the Facility? |    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----|
|                     |                                                                                                                                                                                                                                                                | Yes                          | No |
| WAC 173-401-533     |                                                                                                                                                                                                                                                                |                              |    |
| (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                            |    |
| (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                            |    |

| Regulatory Citation | Description                                                                                                                                                                                           | IEU Present at the Facility? |    |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----|
|                     |                                                                                                                                                                                                       | Yes                          | No |
| WAC 173-401-533     |                                                                                                                                                                                                       |                              |    |
| (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<br>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) |

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**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. 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, 10/17/02]

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

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

##### *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, 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.

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), 10/17/02]

***(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 Section 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), 10/17/02]

***(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 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), 10/17/02]

***(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 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, 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) 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) 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) 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), 10/17/02]

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

Boeing shall use good industrial practices to maintain insignificant emission units. For such equipment<sup>8</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), 10/17/02]

***(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

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<sup>8</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.”

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 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), 10/17/02]

***(g) Purchase Specification***

Boeing Auburn's fuel oil contract for the delivery of oil burned in fuel burning equipment shall specify that the fuel must meet the specifications listed in Puget Sound Clean Air Agency Regulation I, Section 9.08(a). [WAC 173-401-615(1)(b), 10/17/02]

***(h) Opacity Monitoring for No Visible Emissions***

Boeing shall conduct visible emission inspections of the affected 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 the affected facility, Boeing shall, as soon as practicable but within 24 hours of the initial observation; take action, which may include shutting down the unit or activity until it can be repaired, until there are no visible emissions, or report according to Section V.Q.5 Report of Problems not Corrected Within 24 Hours. 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), 10/17/02]

**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>9</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

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<sup>9</sup> See Attachment 17 for clarification of weekly and monthly frequencies.

or activity. Boeing shall remain in compliance with the Order of Approval. [WAC 173-401-615(1)(b), 10/17/02]

***(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), 10/17/02]

***(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 documents available to the Puget Sound Clean Air Agency upon request. [WAC 173-401-615(1)(b), 10/17/02]

***(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***

For dry booths, Boeing shall check the primary dry filter systems, where visible, for proper seating and complete coverage over the exhaust plenum.<sup>10</sup> For wet booths,

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<sup>10</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

Boeing shall check for a continuous curtain coverage, visible water flow, or adequate water flow meter reading. 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, 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 or curtain 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 filter or curtain 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.

- 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. The acceptable pressure drop range shall be marked on or nearby the gauge or on a pressure drop log. A record that the pressure drop was in the acceptable range shall be made according to the frequency specified in the order of approval condition or at least once monthly if not specified in the order of approval. If the pressure drop is not within the acceptable range, Boeing shall, as soon as practicable but within 24 hours of the initial observation either; correct the pressure drop, 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), 10/17/02]
- Where an order of approval or underlying requirement requires installation of specific type of filters, check to see if the correct filters are installed at least annually or according to the frequency specified in the Order of Approval which ever is more frequent. [WAC 173-401-615(1)(b), 10/17/02]

**(iii) Fuel Burning Equipment**

- Boeing shall check for visible emissions (exclusive of uncombined water vapor) quarterly when burning gas.

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*the required efficiencies, the primary filter is the visible filter that is part of the multi-stage system used to meet the required efficiency.*

- When natural gas is not available or is not being used due to economic reasons, for Boilers #1, #2, and #3, Boeing shall check for visible emissions (exclusive of uncombined water vapor) within 24 hours each time that it burns fuel oil and at least once per week if it burns fuel oil for more than seven consecutive days.
- 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:
  - 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, determine the opacity using the reference test method
- 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.
- All observations using the opacity reference test method shall be reported according to V.Q.4 Method 9A Reports.

- Boeing shall maintain a record of when fuel oil is burned in Boilers #1, #2, and #3 and whether the oil burning is due to curtailment or testing.

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

**(iv) Fuel Monitoring for NSPS Natural Gas Fired Boilers**

Boeing shall record and maintain records of the amounts of each fuel combusted during each month and maintain those records for at least two years following the date of record. [40 CFR 60.48c(g) and (i), 10/17/00, Order of Approval #7271 Condition #6 (5/29/98), Order of Approval No. 3842 Condition #4, 6/12/01, Order of Approval No. 5986 Condition #3 (6/12/01)]

**(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 a single unit or activity, 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,
  - 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, 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.
  - 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. The acceptable pressure drop range shall be marked on or nearby the gauge, or on a pressure drop log. A record that the pressure drop was in the acceptable range shall be made according to the frequency specified in the Order of Approval condition or at least once per month if not specified in the Order of Approval. If the pressure drop is not within the acceptable range, Boeing shall, as soon as practicable but within 24 hours of the initial observation; correct the pressure drop, 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.

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), 10/17/02]

**(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 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,
  - 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, determine the opacity using the reference test method.
- All observations using the opacity reference test method shall be reported according to V.Q.4 Method 9A Reports.
  - 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. If Boeing corrects the problem within 24 hours of the 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 Certification or V.Q. Reporting of this permit. Failure to take corrective 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.
  - At least once each calendar quarter, check that the pH of the scrubber recirculation water is within the range specified in the O&M plan for the scrubber. 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 within the range specified in the O&M plan for the scrubber, 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.
  - The 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 scrubber. The acceptable pressure drop range shall be marked on, nearby the gauge, or on a

pressure drop log. A record that the pressure drop was in the acceptable range shall be made according to the frequency specified in the Order of Approval condition or at least once per month if not specified in the Order of Approval. If the pressure drop is not within the acceptable range, Boeing shall, as soon as practicable but within 24 hours of the initial observation; correct the pressure drop, shut down the unit or activity until it can be 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.

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

**(vii) AA-tankline and Chemical Milling Tankline Operations**

Boeing shall inspect the AA-tankline and Chemical Milling Tankline operations as follows:

- Once each week Boeing shall record the pressure drop across each scrubber controlling the “AA-tankline” and the “Chemical Milling Tankline”. If the pressure drop is not within the acceptable range, Boeing shall take corrective action as specified in the facility’s Operation and Maintenance Plan.
- Once each week Boeing shall record the pH of the scrubbing liquor in each of the scrubbers controlling the chemical milling tankline. If the pH is not within the acceptable range, Boeing shall take corrective action as specified in the facility’s Operation and Maintenance Plan.
- Boeing shall install and maintain gauges to measure either the water flow rate or the water pressure at the water headers on each of the scrubbers controlling the chemical milling tankline. The acceptable range for this gauge shall be clearly marked on or near the gauge or in the records of the water flow rate or water pressure.
- Boeing shall record the water flow rate or water pressure in each of the scrubbers controlling the chemical milling tankline on a weekly basis. If the water flow rate or water pressure is not within the acceptable range, Boeing shall take corrective action as specified in the facility’s Operation and Maintenance Plan.
- Boeing shall conduct and make a record of monthly inspections of the scrubbers controlling the chemical milling tankline including the following:
  1. Check nozzles for pluggage and even flow patterns,

2. Check for leaks, and
3. Check for visible emissions.

If the nozzles are malfunctioning, or if any leaks or visible emissions are noted during such inspections, Boeing shall take corrective action as specified in the facility's Operation and Maintenance Plan.

[Order of Approval #8029, 5/30/01]

**(viii) Wet Particulate Scrubbers**

Boeing shall inspect the wet particulate scrubbers 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, 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, determine the opacity using the reference test method.
- 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 must be reported under Section V.M Compliance Certifications or V.Q Reporting of this permit.

For MSS #55215, 58323:

- At least 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 or shut down the unit or activity until it can be repaired or corrected, or report according to Section V.Q.5 Report of Problems not Corrected Within 24 Hours.
- Boeing shall correct other nozzle pluggages and uneven flow patterns shall be corrected promptly consistent with good industrial practice.
- Failure to take action as described above must be reported under Section V.M Compliance Certifications or V.Q Reporting of this permit.

For MSS # 55214

- The acceptable pressure drop range shall be marked on, nearby the gauge, or on a pressure drop log. A record that the pressure drop was in the acceptable range shall be made once per month. If the pressure drop is not within the acceptable range, Boeing shall, as soon as practicable but within 24 hours of the initial observation either; correct the pressure drop, 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), 10/17/02]

**(ix) NO<sub>2</sub> and H<sub>2</sub>S Scrubbers**

- Within 180 days of scrubber's start-up, Boeing shall conduct source testing to verify the emission of H<sub>2</sub>S from each of the H<sub>2</sub>S scrubber is less than 0.30 lb/hour. Source testing shall take place while the scrubbers are operating within the operations ranges as specified in the Order of Approval No. 8542 or 8543 condition No.5. Boeing shall record these operational parameters during

the testing. A portable H<sub>2</sub>S measuring device, capable of analyzing H<sub>2</sub>S concentrations in the field and having sufficient sensitivity to measure H<sub>2</sub>S levels in parts per billions, shall be used to collect 10 samples from the H<sub>2</sub>S scrubber inlet and 10 samples from the H<sub>2</sub>S scrubber outlet. Each sample shall consist of the average of three readings. Boeing shall follow the requirements of Regulation I, Section 3.07(b) and (c). The test results from the H<sub>2</sub>S scrubber outlet shall be averaged and converted to a lb/hour basis. The report to the Puget Sound Clean Air Agency shall include a table listing the test results from both the scrubber inlet and outlet testing.

- Boeing shall install and maintain gauges at the NO<sub>2</sub> and H<sub>2</sub>S scrubbers to measure the pH, pressure differential across the packed beds, and liquid flow rate. Within 180 days after the start-up of the scrubbers, the acceptable ranges for each of the above parameters shall be clearly marked on or near the respective gauges.
- Once each week, if at any time the scrubber system is operational, Boeing shall record the pH, pressure differential across the packed beds, and liquid flow rate for the NO<sub>2</sub> and H<sub>2</sub>S scrubbers. If the above parameters are not within the acceptable ranges, Boeing shall take corrective action as specified in the facility's Operation and Maintenance Plan and make record of the corrective action taken.
- If the NO<sub>2</sub> scrubber is operated without operation of the H<sub>2</sub>S scrubber, Boeing shall daily record the pH, pressure differential across the packed beds, and liquid flow rate for the NO<sub>2</sub> scrubber. If the above parameters are not within the acceptable ranges, Boeing shall take corrective action to bring the parameters within the acceptable ranges within 24-hours or shall shut down the NO<sub>2</sub> scrubber. Record shall be made of the corrective action or shut-down.
- All records maintained in compliance with this Order of Approval shall be maintained on-site for at least two years and made available to Agency personnel upon request.

[Order of Approval #8542 and 8543, 7/18/01]

**(x) Above Ground Storage Tanks for Fuels**

Visually check for leakage of material at least semiannually. [WAC 173-401-615(1)(b), 10/17/02]

**(xi) Gasoline Delivery Certification and Inspection**

Boeing shall visually inspect the Stage 1 system after each product delivery. Any equipment found to be defective (e.g., loose caps or adapters, stuck poppet valves, damaged gaskets) shall be repaired or replaced as soon as possible, but no later than seven days after the inspection. [Puget Sound Clean Air Agency Regulation II, Section 2.07(b)(2), 12/9/99]

**(e) Emission Limitation by PSD or Order of Approval Conditions****(i) For 17-45 building, PSD No.88-5 Amendment 2:**

Where required, Boeing shall document the VOC emissions from the source using available information obtained (e.g. the quantities and VOC content of the materials). The calculations shall be made available to PSCAA upon request.

Boeing Commercial Airplanes shall, upon request, report the quantities and VOC content of each maskant, paint and cleaning solution for the 17-45 building to the Puget Sound Clean Air Agency. [PSD No. 88-5 Amendment 2, Approval Condition 2]

**(ii) For 17-07 building, Order of Approval # 7279**

The sum of the actual volatile organic compound (VOC) emissions from paint usage in the two booths combined shall not exceed 30 tons during any 12 consecutive months after the date of this Order. Boeing shall notify Puget Sound Clean Air Agency, in writing, within 30 days after the end of each 12-month period if, during that period, emissions of VOC exceed 27 tons. Boeing shall calculate VOC emissions monthly and retain a record of the calculations for a period of five years. The calculations shall be made available to Puget Sound Clean Air Agency upon request. [Order of Approval #7279 Condition #7, 2/24/98]

**(f) Aerospace NESHAP Solvent Cleaner**

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 Auburn 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***

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/ Water Flow Rate***

(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 or water flow meter to continuously monitor:

- The pressure drop across dry particulate filter systems while aerospace primer or topcoat application operations are occurring, or
- The water flow rate of water wash systems while aerospace primer or topcoat application operations are occurring.

[40 CFR 63.751(c), 12/8/00]

(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. [40 CFR 63.751(c), 12/08/00; 40 CFR 63.752(d), 9/1/98]

The acceptable range for water flow rate shall be established using manufacturer's recommendations or the range will be based on the volume of water that has been shown through operational experience to obtain a continuous water curtain. If the recorded pressure drop exceeds or falls below the acceptable limits established by Boeing or the filter manufacturer, as applicable, or the recorded water flow rate is less than or falls below the acceptable limits established by Boeing or the booth 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 specification or instructions are not utilized, the pressure drop shall be established as follows:

- 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.
- 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.

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:

- Install NESHAP-compliant filters in booths where inorganic HAPs are applied to aerospace parts. If the order of approval specifies installation of 3-stage filters, a 3-stage filter is a filter that meets the requirements listed in Tables 3 and 4 in 40 CFR 63.745(g).
- 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]

(v) For water wash 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:

- If a water flowmeter is required, check to see that the meter functions properly and the flow range is labeled on the log sheet. This inspection shall be done monthly and,

- Malfunctions as defined by 40 CFR 63.2 causing the flow to be outside of the range on the log sheet, or causing noncontiguous water curtain coverage shall be reported immediately to supervisory personnel, or the malfunctioning water wash booth shall be shut down.

[40 CFR 63.745(g), 12/8/00]

***(i) Off-Site Waste and Recovery NESHAP VOHAP Concentration Determination***

Boeing shall prepare and maintain documentation to show that the average VOHAP concentration of each off-site material stream managed in the off-site material management unit remains at a level less than 500 ppmw. This concentration shall be based on the HAP content of the off-site material stream at the point-of-delivery. Boeing shall perform an initial determination of the average VOHAP concentration of each off-site material stream using the procedures specified in 40 CFR 63.694(b), EU 6.16, before the first time any portion of the off-site material stream is placed in the unit. Thereafter, Boeing shall review and update, as necessary, this determination at least once every 12 months following the date of the initial determination of the average VOHAP concentration for the off-site material stream. [40 CFR 63.683(b)(1)(iii) & (c)(1)(ii), 7/20/99]

***(j) Off-Site Waste and Recovery NESHAP Annual HAP Quantity Determination***

Boeing shall prepare and maintain documentation at the plant site to support the initial determination that the total annual quantity of HAP contained in off-site material received at the plant site is less than 1 megagram (2200 pounds) per year. This total annual HAP quantity for the off-site material shall be based on the total quantity of the HAP listed in Table 1 of 40 CFR Part 63 Subpart DD as determined at the point-of-delivery for each off-site material stream. A new determination shall be made when the extent of changes to the quantity or composition of the off-site material received at the plant site could cause the total annual HAP quantity in the off-site material to exceed the limit of 1 megagram per year. [40 CFR 63.680(d), 7/20/99]

***(k) Chemical Milling Maskant Application***

For exempt waterborne coatings, maintain manufacturer's Material Safety Data Sheets (MSDS) or other manufacturer-supplied data on HAP/VOC content and annual purchase records for 5 years.

***(l) 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 Auburn.

[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 & Circumvention**

##### **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]

**3. NESHAP**

Boeing shall not build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard adopted under 40 CFR part 63. Such concealment includes, but is not limited to--

- (a) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere;
- (b) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions; and
- (c) Fragmentation. Fragmentation after November 15, 1990 which divides ownership of an operation, within the same facility among various owners where there is no real change in control, will not affect applicability. The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements.

[40 CFR 63.4(b), 4/5/02]

**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), 9/15/01state 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 where applicable 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, 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 Reg. 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: Section 4.01, 2/27/03; Regulation III Section 4.02, 6/8/95; Regulation III Section 4.03, 5/22/03; Regulation III Section 4.04, 7/13/00; Regulation III Section 4.05, 2/27/03; Regulation III Section 4.07, 6/8/95; Regulation III Section 4.09, 7/13/00 State/Puget Sound Clean Air Agency only]

### **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), 11/4/93 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 § 38 - 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, 2004. 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.
- 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.

[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] [WAC 173-400-105(4), 9/15/01 State/Puget Sound Clean Air Agency Only]

**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. [40 CFR 60.11(g), 10/17/00] [Puget Sound Clean Air Agency Regulation I, Section 3.06, 10/8/98 State/Puget Sound Clean Air Agency Only]

## **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), 10/17/02]
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), 10/17/02]
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), 10/17/02]
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), 10/17/02]

## 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), 4/5/02]

### (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)(viii) Wet Particulate Scrubbers

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 that the monitored process does not operate, nor during periods 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. Upon request, Boeing will disclose data or information used to reconstruct records to the Puget Sound Clean Air Agency.

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

**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), 10/17/02]

**(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 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), 10/17/02]

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), 10/17/02]

**(c) Reporting Certification**

Any application form, report, or compliance certification that is required to be certified by 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, 9/15/01]

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 Modifications) (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), 10/17/02]

***(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), 9/12/96, 9/10/1998 State and Puget Sound Clean Air Agency only]

## 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), 4/5/02]

### *(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  $H_a$  and  $G_a$  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 or water flowrate for each dry filter or water wash system 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), 4/5/02]

***(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), 4/5/02]

Boeing shall submit immediate startup, shutdown and malfunction reports 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), 4/5/02]

**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), 10/17/02]

**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.1(h), II.A.2(d)(ii), II.A.2(d)(v), II.A.2(d)(vi), or II.A.2(d)(viii), 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 Emergencies, or reports of unavoidable excess emissions under Section V.S.

[WAC 173-401-615(3), 10/17/02]

**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)<br>40 CFR 63.753(c)(1)<br>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)<br>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.                                                                                  |

| Name of Application, Report, or Compliance Certification                                                                                                          | Required by            | Paraphrased Frequency                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.<br><i>(Note: This report must be submitted to both EPA and PSCAA)</i>                                                                                            |
| 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)  | Within 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.<br>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.                                                                         |
| 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 a permit revision, 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.                                                                                                                                                                                        |

V. STANDARD TERMS AND CONDITIONS

| Name of Application, Report, or Compliance Certification                                                                                               | Required by                                                  | Paraphrased Frequency                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Minor permit modification application (V.I.E Permit Modification)                                                                                      | WAC 173-401-725                                              | Can make change immediately after filing application.                                                                                   |
| Significant permit modification application (V.I.E Permit Modification)                                                                                | WAC 173-401-725                                              | As needed.                                                                                                                              |
| Notice of Construction and Application for Approval (IV.A New Source Review IV.B Replacement or Substantial Alteration of Emission Control Technology) | 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 IV.B Replacement or Substantial Alteration of Emission Control Technology)                             | 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.*

| Reqmt. No. | Citation                                                           | Adoption or Effective Date | Notification Requirement                                                                                                                                                                                                                                                           | Date Notification Due                                                               |
|------------|--------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| N. 1       | Puget Sound Clean Air Agency Regulation I, Section 3.07(b) (V.N.1) | 2/9/95                     | 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) (IV.A)                                           | 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) (IV.A)                                           | 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) (IV.A)                                           | 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) (EU 4.3 & IV.A)                                  | 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 | Notification Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date Notification Due                                                 |
|------------|---------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| N. 6       | 40 CFR 63.5(b)(4) (EU 2. 2 EU 6.2 & 40 CFR 63.743(a)(10) (EU 2.61)                                | 4/5/02<br><br>3/27/1998    | 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.<br><br>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. | For major sources, see timeline in 63.5(d).                           |
| N. 7       | 40 CFR 63.9(b)(3) (EU 2.9)                                                                        | 4/5/02                     | 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. 8       | 40 CFR 63.9(e), 40 CFR 63.9(i) (EU 2.10, EU 6.9),<br><br>Puget Sound Clean Air Agency Reg I: 3.07 | 4/5/02<br><br>2/9/95       | 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. 9       | 40 CFR 63.9(j) (EU 2. 11, V.Q.3(d))<br><br>Puget Sound Clean Air Agency Regulation III, 2.02      | 4/5/02<br><br>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 | Notification Requirement                                                                                              | Date Notification Due                       |
|------------|-----------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| N. 10      | WAC 173-401-724                                     | 11/4/93                    | Notice of off permit changes (VI.D Off Permit Changes)                                                                | Contemporaneous with the change             |
| N. 11      | 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. 12      | 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(l), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the conditions of WAC 173-401-645(3) are met.

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

1. An emergency occurred and that 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] [Puget Sound Clean Air Agency Regulation I, Section 3.04(g), 3/11/99, State/Puget Sound Clean Air Agency only]

**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, 10/17/02]

### **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), 10/17/02]

### **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 does not require testing, monitoring, reporting or recordkeeping for insignificant emission units or activities, except as required by Sections II.A.1(a) through II.A.1(c), II.A.1(e), and II.A.1(f) of this permit. For insignificant emission units, the testing, monitoring, reporting, or recordkeeping requirements identified are applicable once a potential air operating permit deviation issue is initially observed and continue to be applicable until the potential deviation issue is resolved. Compliance with Sections II.A.1(a) through II.A.1(c), II.A.1(e), and II.A.1(f) of this permit shall be deemed to satisfy the requirements of WAC 173-401-615 and 173-401-630(1). [WAC 173-401-530(2)(c), 10/17/02]
2. Where this permit does not require testing, monitoring, recordkeeping and reporting for insignificant emissions units or activities, Boeing may certify continuous compliance if there were no observed, documented, or known instances of noncompliance during the reporting period. Where this permit requires testing, monitoring, recordkeeping and reporting for insignificant emission units or activities, Boeing may certify continuous compliance when the testing, monitoring, and recordkeeping required by the permit revealed no violations during the period, and there were no observed, documented, or known instances of noncompliance during the reporting period. [WAC 173-401-530(2)(d), 10/17/02]
3. An emission unit or activity that qualifies as insignificant solely on the basis of WAC 173-401-530(1)(a) shall not exceed the emission thresholds specified in WAC 173-401-530(4) until this permit is modified pursuant to Section VI.E of this permit and WAC 173-401-725. [WAC 173-401-530(6), 10/17/02]

## VI. PERMIT ACTIONS

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

- (1) **Renewal application.** 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), 10/17/02; WAC 173-401-500(2), 10/17/02]
- (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), 10/17/02]
- (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), 10/17/02]

### B. *Administrative Permit Amendments*

- (1) **Definition.** An "administrative permit amendment" is a permit revision that:
  - a) Corrects typographical errors;
  - b) Identifies a change in the name, address, or phone number of any person identified in the permit, or provides a similar minor administrative change at 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 174-401-200;

- ii) The proposed changes do not result in emissions that exceed those allowable under the permit, whether expressed as a rate of emissions, or in total emissions;
  - iii) The proposed changes do not alter permit terms that are necessary to enforce limitations on emissions from units covered by the permit; and
  - iv) 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) 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, 10/17/02]

**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;
  - 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 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]

## 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.                                                           |
| EPA Method 6C 40 CFR Part 60, Appendix A                                                | July 1, 2001    | Determination of Sulfur Dioxide Emissions from Stationary Sources                                                                  | 1-hour tests.                                                                                      |
| 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, 2000    | 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 Reference Test Method                        | Date         | Title                                                                                                                  | Averaging Period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EPA Method 24<br>40 CFR Part 60,<br>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 Method 26 A<br>40 CFR Part 60,<br>Appendix A | July 1, 2001 | Determinations of HCl                                                                                                  | 1-hour tests.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| EPA Method 319<br>40 CFR Part 60,<br>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 Apr 2, 1999 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 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.