



DEPARTMENT OF  
**ECOLOGY**  
State of Washington

**PREVENTION OF SIGNIFICANT DETERIORATION (PSD) PERMIT**

<b>Issued To:</b>	The Boeing Company Boeing Commercial Airplane Group-Renton 737 Logan Avenue North Renton, Washington 98055
<b>Permit Number:</b>	PSD-11-02
<b>Date of Original Permit Issuance:</b>	October 14, 2011

This PSD permit is issued under the authority of the Washington State Clean Air Act, Chapter 70.94 Revised Code of Washington; the Washington State Department of Ecology regulations for the Prevention of Significant Deterioration of Air Quality as set forth in Washington Administrative Code 173-400-700 through 750; and the agreement for the delegation of the federal Prevention of Significant Deterioration regulations by the United States Environmental Protection Agency to the Washington State Department of Ecology, dated February 23, 2005.

**REVIEWED BY:**

*David Ogulei*

David Ogulei, Ph.D., P.E.  
Science and Engineering Section  
Air Quality Program

10/13/11  
Date



*David Ogulei*

**APPROVED BY:**

*Stuart A. Clark*

Stuart A. Clark  
Air Quality Program Manager  
Washington State Department of Ecology

10/14/11  
Date

## TABLE OF CONTENTS

PROJECT SUMMARY .....	iii
APPROVAL CONDITIONS .....	1
I. EFFECTIVE DATE OF PERMIT .....	1
II. PERMIT EXPIRATION .....	1
III. PERMIT NOTIFICATION REQUIREMENTS .....	1
IV. BACT EMISSION LIMITS .....	2
V. SPECIFIC OPERATING REQUIREMENTS .....	2
VI. COMPLIANCE MONITORING REQUIREMENTS .....	5
VII. RECORDKEEPING AND REPORTING REQUIREMENTS .....	8
VIII. GENERAL RESTRICTIONS ON FACILITY OPERATIONS .....	10
IX. MALFUNCTION AND EXCESS EMISSIONS REPORTING.....	10
X. RIGHT OF ENTRY .....	11
XI. TRANSFER OF OWNERSHIP .....	12
XII. ADHERENCE TO APPLICATION AND COMPLIANCE WITH OTHER ENVIRONMENTAL LAWS.....	12
XIII. APPEAL PROCEDURES.....	13
ACRONYMS AND ABBREVIATIONS .....	14

## PROJECT SUMMARY

The Boeing Company, herein referred to as “Boeing Renton” or “Permittee,” proposes to make physical and operational changes to their airplane manufacturing facility in Renton, Washington, to enable an increase in the production rate of the 737 model airplane. The proposed project will enable an increase in 737 production at the Renton facility from a current average rate of about 374 airplanes per year to a projected maximum of about 504 airplanes per year (both based on a nominal 250 manufacturing days per year). The project involves the following:

- **Building 4-20:** Boeing Renton intends to replace four existing wing panel spray booths in Building 4-20 with four new booths at another location in the same building to allow replacement of the vertical wing build line with a new horizontal wing build line. No other new or modified spray booths are planned, and no other emission units would be added or modified in Building 4-20 as part of this project. Permit No. PSD-08-01 limits emissions of volatile organic compounds (VOC) from Buildings 4-20, 4-21, 4-81, and 4-82 to 118 tons per year (tpy). Boeing Renton is not seeking to change that limit with this application; however, the proposed physical and operational changes in Building 4-20 is expected to result in an increase in actual VOC emissions in Building 4-20. This permit does not contravene any terms or conditions in Permit No. PSD-08-01.
- **Building 4-86:** Boeing Renton intends to add one new booth (PB-4) in Building 4-86 that will paint the upper and lower sections of the wing with the wing in a vertical position. Also, to improve the quality of the paint finish, the exhaust rate on one existing inspar (vertical) wing booth (PP-8) would be increased. This change will allow additional wings to be painted in the booth. Condition 2 of Permit No. PSD-97-2 limits VOC emissions from Building 4-86 to 242 tpy. Boeing Renton is not seeking to change that limit with this application. This permit does not contravene any terms or conditions in Permit No. PSD-97-2.
- **Additional changes:** In addition to the changes described above, Boeing Renton intends to make other changes to 737 assembly operations that are not expected to involve changes to spray booths or other emission units. These changes include, but are not necessarily limited to, installing a new wing-riveter, a second horizontal wing build line, and other miscellaneous assembly tooling.

The proposed project is expected to result in a significant net emissions increase of approximately 97 tpy of VOC. Other regulated new source review pollutants will not experience a significant emissions increase.

A full technical review of the project, including a Best Available Control Technology (BACT) analysis, and the project’s effect on national ambient air quality standards, PSD increments, visibility, soils and vegetation, is included in a Technical Support Document prepared by the Washington State Department of Ecology (Ecology) on October 14, 2011.

## **APPROVAL CONDITIONS**

Based on the PSD permit application submitted by Boeing Renton on June 7, 2011, the additional information submitted on June 23, July 8, July 12, August 2, August 11, August 25, and September 8, 2011, and the technical review performed by Ecology, Ecology finds that all requirements for issuance of this PSD permit have been satisfied. Approval of the project described above is granted subject to the following conditions:

### **I. EFFECTIVE DATE OF PERMIT**

In accordance with 40 C.F.R. § 124.15 and § 124.19, and the Washington Administrative Code (WAC) 173-400-730, the effective date of this PSD permit is one of the following dates:

- A. If no comments on the preliminary determination were received: the date of issuance; or
- B. If comments were received: thirty (30) days after the applicant and the commenters receive the final determination; or
- C. If a review of the final determination is requested pursuant to 40 C.F.R. § 124.13 and 40 C.F.R. § 124.19, the effective date of the permit is suspended until such time as the review and any subsequent appeal against the permit are resolved.

### **II. PERMIT EXPIRATION**

Pursuant to 40 C.F.R. § 52.21(r)(2), and unless an extension is granted by Ecology prior to expiration, this PSD permit will become invalid if construction:

- A. Has not commenced (as defined in 40 C.F.R. § 52.21(b)(9)) within eighteen (18) months of the effective date of this permit; or
- B. Is discontinued for a period of eighteen (18) months or more; or
- C. Is not completed within a reasonable time.

### **III. PERMIT NOTIFICATION REQUIREMENTS**

- A. Permittee's requirements in this PSD permit to notify, report to, or acquire approval or agreement from "Ecology and/or the Puget Sound Clean Air Agency (PSCAA)" may be satisfied by providing such notification, reporting, or approval request to PSCAA if the conditions of this PSD permit have been incorporated into Boeing Renton's Title V Air Operating Permit issued pursuant to 40 C.F.R. Part 70.

- B. Permittee must notify Ecology and/or PSCAA, as specified in Condition III.A, in writing or electronic mail of the:
  - 1. Date construction is commenced, postmarked or received within thirty (30) days of such date.
  - 2. Anticipated date of initial start-up, as defined in 40 C.F.R. § 63.2, of each new or modified spray booth not more than sixty (60) days nor less than thirty (30) days prior to such date.
  - 3. Actual date of initial start-up, as defined in 40 C.F.R. § 63.2, of each new or modified spray booth, postmarked or received within fifteen (15) days of such date.

#### **IV. BACT EMISSION LIMITS**

Consistent with the requirements of 40 C.F.R. § 52.21(j)(3), the following BACT limitations apply to VOC emissions from the four new 737 wing panel spray booths in Building 4-20, the new inspar wing spray booth and the modified inspar wing spray booth in Building 4-86:

- A. Permittee must comply with all applicable VOC emission standards of the National Emission Standards for Aerospace Manufacturing and Rework Facilities, 40 C.F.R. Part 63, Subpart GG (Aerospace NESHAP), as in effect on July 1, 2011.
- B. VOC emissions must not exceed 11.0 pounds per wing coated in the new wing panel spray booths in Building 4-20 on a 12-month rolling average, AND a combined total of 8.3 tons of VOC in any twelve (12) consecutive month period.
- C. VOC emissions must not exceed 65.0 pounds per wing coated in the new inspar wing spray booth (PB-4) and the modified inspar wing spray booth (PP-8) in Building 4-86 on a 12-month rolling average, AND a combined total of 23.7 tons for any twelve (12) consecutive month period.
- D. As used in this PSD permit, VOC means any compound defined as VOC in 40 C.F.R. § 51.100(s).

#### **V. SPECIFIC OPERATING REQUIREMENTS**

- A. For cleaning and coating operations in the four new 737 wing panel spray booths in Building 4-20 and the new inspar wing spray booth (PB-4) and the modified inspar wing spray booth (PP-8) in Building 4-86, Boeing Renton must comply with all applicable VOC emission standards of the Aerospace NESHAP, 40

C.F.R. Part 63, Subpart GG (as in effect on July 1, 2011), including but not limited to the following requirements, as applicable:

1. Cleaning solvent-laden cloth, paper, or any other absorbent applicators used for cleaning will be deposited in bags or other closed containers upon completing their use, to the extent required by 40 C.F.R. § 63.744(a)(1).
2. Fresh and spent cleaning solvents, except semi-aqueous solvent cleaners as defined in 40 C.F.R. § 63.742 must be stored in closed containers to the extent required by 40 C.F.R. § 63.744(a)(2).
3. Conduct the handling and transfer of cleaning solvents to or from enclosed systems and other cleaning operation equipment that hold or store fresh or spent cleaning solvents in a manner that minimizes spills to the extent required by 40 C.F.R. § 63.744(a)(3).
4. Hand-wipe cleaning solvents must comply with either Condition V.A.4.a. or Condition V.A.4.b. to the extent required by 40 C.F.R. § 63.744(b):
  - a. A VOC composite vapor pressure not greater than 45 mm Hg at 20°C (determined in accordance with Condition VI.B.3); or
  - b. The composition requirements in Table 1 of 40 C.F.R. § 63.744.
5. To the extent required by 40 C.F.R. § 63.744(d), when conducting flush cleaning operations subject to 40 C.F.R. Part 63, Subpart GG (excluding those in which the cleaning solvents used either meet the composition requirements in Table 1 of 40 C.F.R. § 63.744 or are semi-aqueous as defined in 40 C.F.R. § 63.742), the Permittee shall empty the used cleaning solvent each time aerospace parts or 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.
6. The VOC content level in primers and topcoats must meet the following requirements:
  - a. Exterior primers: Not greater than 5.4 lb VOC/gal, as applied, less water and exempt solvents to the extent required by 40 C.F.R. § 63.745(c)(2).
  - b. All other primers: Not greater than 2.9 lb VOC/gal as applied, less water and exempt solvents to the extent required by 40 C.F.R. § 63.745(c)(2).
  - c. Topcoats: Not greater than 3.5 lb VOC/gal, as applied, less water and exempt solvents to the extent required by 40 C.F.R. § 63.745(c)(4).

7. To the extent required by 40 C.F.R. § 63.745(f)(1), spray-applied primers and topcoats for wings must be applied using High Volume Low Pressure (HVLP), electrostatic, or other spray coating application methods, as approved by Ecology and/or PSCAA, as specified in Condition III.A., with a transfer efficiency equivalent to or greater than HVLP or electrostatic spray application methods.
8. To the extent required by 40 C.F.R. § 63.744, spray guns and hoses will be cleaned by one or more of the methods specified in Conditions V.A.8.a. through V.A.8.d., or equivalent methods that are approved by Ecology and/or PSCAA, as specified in Condition III.A.:
  - a. Enclosed system—to the extent required by 40 C.F.R. § 63.744(c)(1):
    - i. Clean the spray gun in an enclosed system that is closed at all times except when inserting or removing the spray gun.
    - ii. Cleaning must consist of forcing solvent through the gun.
  - b. Nonatomized cleaning—to the extent required by 40 C.F.R. § 63.744(c)(2):
    - i. Clean the spray gun by placing cleaning solvent in the pressure pot and forcing it through the gun with the atomizing cap in place.
    - ii. No atomizing air is to be used.
    - iii. Direct the cleaning solvent from the spray gun into a vat, drum, or other waste container that is closed when not in use.
  - c. Disassembled spray gun cleaning—to the extent required by 40 C.F.R. § 63.744(c)(3):
    - i. Disassemble the spray gun and clean the components by hand in a vat, which must remain closed at all times except when in use; or
    - ii. Soak the components in a vat, which must remain closed during the soaking period and when not inserting or removing components.
  - d. Atomized cleaning—to the extent required by 40 C.F.R. § 63.744(c)(4):
    - i. Clean the spray gun by forcing the cleaning solvent through the gun.

- ii. Direct the resulting atomized spray into a waste container that is fitted with a device designed to capture the atomized cleaning solvent emissions.
- B. In addition to complying with the VOC emission standards of the Aerospace NESHAP, 40 C.F.R. Part 63, Subpart GG (as in effect on July 1, 2011) as required in Condition V.A., all wing cleaning solvents or solvent blends applied in the new and modified booths in Buildings 4-20 and 4-86 must be applied either manually or by low pressure applicators except in the following situations:
  1. Cleaning intricate surfaces;
  2. Where access is limited to the extent that using a low pressure applicator is infeasible; or
  3. Use of a cleaning solvent that either meets the composition requirements in Table 1 of 40 C.F.R. § 63.744 or meets the definition of a semi-aqueous cleaning solvent as defined in 40 C.F.R. § 63.742 (as in effect on July 1, 2011).
- C. The Permittee shall decommission the wing panel booths that are proposed for replacement in Building 4-20 within 180 days of commencing commercial operations in the new wing panel booths to be installed in Building 4-20.

## **VI. COMPLIANCE MONITORING REQUIREMENTS**

- A. Permittee must monitor compliance with Condition IV.B. (beginning the first calendar month that any of the four new 737 wing panel spray booths in Building 4-20 is first used for wing cleaning and coating) and Condition IV.C. (beginning the first calendar month that any of the new inspar wing spray booth (PB-4) in Building 4-86, or the modified inspar wing spray booth (PP-8) in Building 4-86 is first used for wing cleaning and coating) as follows:
  1. No later than 30 days after the end of each month, quantify the amount in gallons of each VOC-containing material used during that month in:
    - a. The four new 737 wing panel spray booths in Building 4-20, and
    - b. The new inspar wing spray booth (PB-4) and the modified inspar wing spray booth (PP-8) in Building 4-86.
  2. Determine VOC content in pounds per gallon of each such VOC-containing material from the corresponding Material Safety Data Sheets (MSDSs) or other data supplied by the material's manufacturer or by another method approved by Ecology and/or PSCAA, as specified in Condition III.A.

3. Calculate VOC emissions in pounds for that month as follows:
  - a. Multiply the gallons of each material obtained per Condition VI.A.1.a. by the VOC content in each corresponding material as obtained in Condition VI.A.2. Calculate total VOC emissions from all VOC-containing materials consumed in the four new 737 wing panel spray booths in Building 4-20. Permittee may subtract:
    - i. Any VOC that are included in the coating formulation as reactive components to the extent that they are incorporated into the final wing coating as verified by the coating's manufacturer documentation, or that are recovered for reuse, recycling, or disposal; or
    - ii. Any VOC discharged from Boeing Renton to wastewater or solid waste, from materials used in the four new 737 wing panel spray booths in Building 4-20.
  - b. Multiply the gallons of each material obtained per Condition VI.A.1.b. by the VOC content in each corresponding material as obtained in Condition VI.A.2. Calculate total VOC emissions from all VOC-containing materials consumed in the new inspar wing spray booth (PB-4) and the modified inspar wing spray booth (PP-8) in Building 4-86. Permittee may subtract:
    - i. Any VOC that are included in the coating formulation as reactive components to the extent that they are incorporated into the final wing coating as verified by the coating's manufacturer documentation, or that are recovered for reuse, recycling, or disposal; or
    - ii. Any VOC discharged from Boeing Renton to wastewater or solid waste, from materials used in the new inspar wing spray booth (PB-4) and the modified inspar wing spray booth (PP-8) in Building 4-86.
4. Calculate VOC emissions in pounds for the most recent 12-month period as follows:
  - a. Add total VOC emissions obtained per Condition VI.A.3.a. to the total VOC emissions from the four new 737 wing panel spray booths in Building 4-20 for the previous 11 months. Use the result of this calculation to verify compliance with Condition IV.B. For the purpose of this calculation, the amount of each VOC-containing material used in the

737 wing panel spray booths in Building 4-20 during the eleven (11) months preceding the first month in which any of those booths is first used for wing cleaning and coating, shall be considered zero.

- b. Add total VOC emissions obtained per Condition VI.A.3.b. to the total VOC emissions from the new inspar wing spray booth (PB-4) and the modified inspar wing spray booth (PP-8) in Building 4-86 for the previous 11 months. Use the result of this calculation to verify compliance with Condition IV.C. For the purpose of this calculation, the amount of each VOC-containing material used in the new inspar wing spray booth (PB-4) and the modified inspar wing spray booth (PP-8) in Building 4-86 during the eleven (11) months preceding the first month in which any of those booths is first used for wing cleaning and coating, shall be considered zero.
5. Quantify the total number of wings coated in the four new 737 wing panel spray booths in Building 4-20 in the most recent 12-month period. Verify compliance with Condition IV.B. by dividing the value obtained per Condition VI.A.4.a. by the total number of wings coated in the four new 737 wing panel spray booths in Building 4-20.
  6. Quantify the total number of wings coated in the new inspar wing spray booth (PB-4) and the modified inspar wing spray booth (PP-8) in Building 4-86 in the most recent 12-month period. Verify compliance with Condition IV.A.3. by dividing the value obtained per Condition VI.A.4.b. by the total number of wings coated in the new inspar wing spray booth and the modified inspar wing spray booth in Building 4-86.
- B. Beginning the first calendar month that any of the four new 737 wing panel spray booths in Building 4-20, the new inspar wing spray booth (PB-4) in Building 4-86, or the modified inspar wing spray booth (PP-8) in Building 4-86 is first used for wing cleaning and coating, Permittee must monitor compliance with Conditions V.A.1. through V.A.6.; V.A.8.; and V.B. by:
1. Conducting inspections of the work practice activities in the four new 737 wing panel spray booths in Building 4-20 and the new inspar wing spray booth (PB-4) and the modified inspar wing spray booth (PP-8) in Building 4-86 at least once per calendar year.
  2. Randomly sampling work practices during each inspection, and observing for consistency with permit requirements.
  3. To monitor compliance with Conditions V.A.4.a. and V.B.3., Permittee must determine, as applicable, each wing hand-wipe cleaning solvent's or solvent blend's VOC composite vapor pressure in accordance with:

- a. 40 C.F.R. § 63.750(b)(1) for single component hand-wipe cleaning solvents (as in effect on July 1, 2011); or
  - b. The equation in 40 C.F.R. § 63.750(b)(2) for blended hand-wipe cleaning solvents (as in effect on July 1, 2011).
4. To monitor compliance with Condition V.A.4.b., Permittee must determine, as applicable, each wing cleaning solvent's or solvent blend's composition in accordance with 40 C.F.R. § 63.750(a) (as in effect on July 1, 2011) or by another method approved by Ecology and/or PSCAA, as specified in Condition III.A.
- C. Permittee must monitor compliance with Condition V.A.6. by using the data maintained pursuant to Condition VI.A.2..
- D. Permittee shall comply with Condition V.C. by providing a written notice to Ecology and/or PSCAA, as specified in Condition III.A., within fifteen (15) days of decommissioning the wing panel booths that are proposed for replacement in Building 4-20.

## **VII. RECORDKEEPING AND REPORTING REQUIREMENTS**

- A. Beginning the first calendar month that any of the four new 737 wing panel spray booths in Building 4-20, the new inspar wing spray booth (PB-4) in Building 4-86, or the modified inspar wing spray booth (PP-8) in Building 4-86 is first used for wing cleaning and coating, Permittee must keep the following records at the site (or electronically accessible at the site):
1. Number of airplane wings processed through:
    - a. The four new 737 wing panel spray booths in Building 4-20; and
    - b. The new inspar wing spray booth (PB-4) and the modified inspar wing spray booth (PP-8) in Building 4-86.
  2. The calculations and results pursuant to Condition VI.A.
  3. An annually updated list of all VOC-containing materials used in the four new 737 wing panel spray booths in Building 4-20, the new inspar wing spray booth (PB-4), and the modified inspar wing spray booth (PP-8) in Building 4-86 within the immediate past twelve (12) months. For the purpose of this record, the immediate past twelve (12) months shall not include any month prior to the month that any of the four new 737 wing panel spray booths in Building 4-20, the new inspar wing spray booth (PB-4), or the modified inspar

wing spray booth (PP-8) in Building 4-86 is first used for wing cleaning and coating.

4. For materials containing VOC that were deducted pursuant to Conditions VI.A.3.a.i. or VI.A.3.b.i., manufacturer documentation verifying the quantity of reactive VOC incorporated into the final wing coating.
  5. For VOC that were deducted pursuant to Conditions VI.A.3.a.ii. or VI.A.3.b.ii., inventory records verifying the quantity of VOC recovered for reuse, recycling or disposal, or discharged from Boeing Renton to wastewater or solid waste from materials used in, as applicable:
    - a. The four new 737 wing panel spray booths in Building 4-20; or
    - b. The new inspar wing spray booth (PB-4) and the modified inspar wing spray booth (PP-8) in Building 4-86.
- B. Records must be retained for not less than five (5) years after their origination.
1. At a minimum, the most recent two (2) years of data must be retained on-site (or be electronically accessible at the site). The remaining three (3) years of data may be retained off-site.
  2. Records must be available for inspection by Ecology and PSCAA within ten (10) days of request.
- C. Beginning the first calendar year that any of the four new 737 wing panel spray booths in Building 4-20, the new inspar wing spray booth (PB-4) in Building 4-86, or the modified inspar wing spray booth (PP-8) in Building 4-86 is first used for wing cleaning and coating, Permittee must annually report in writing or electronic mail, postmarked or received by June 15 of each year, the following information to Ecology and/or PSCAA, as specified in Condition III.A.:
1. The types and corresponding monthly and rolling 12-month total quantities of VOC-containing materials used in:
    - a. The four new 737 wing panel spray booths in Building 4-20; and
    - b. The new inspar wing spray booth (PB-4) and the modified inspar wing spray booth (PP-8) in Building 4-86.
  2. The quantity of VOC in the VOC-containing materials reported pursuant to Condition VII.C.1.

3. For VOC that were deducted pursuant to Conditions VI.A.3.a.i. or VI.A.3.b.i., the monthly and rolling 12-month total quantity of reactive VOC incorporated into the final wing coating in, as applicable:
  - a. The four new 737 wing panel spray booths in Building 4-20; or
  - b. The new inspar wing spray booth (PB-4) and the modified inspar wing spray booth (PP-8) in Building 4-86.
4. For VOC that were deducted pursuant to Conditions VI.A.3.a.ii. or VI.A.3.b.ii., the monthly and rolling 12-month total quantity of VOC recovered for reuse, recycling or disposal, or discharged from Boeing Renton to wastewater or solid waste, from materials used in, as applicable:
  - a. The four new 737 wing panel spray booths in Building 4-20; or
  - b. The new inspar wing spray booth (PB-4) and the modified inspar wing spray booth (PP-8) in Building 4-86.

#### **VIII. GENERAL RESTRICTIONS ON FACILITY OPERATIONS**

- A. At all times, the Permittee must, to the extent practicable, maintain and operate the four new 737 wing panel spray booths in Building 4-20, the new inspar wing spray booth (PB-4) in Building 4-86, and the modified inspar wing spray booth (PP-8) in Building 4-86, including any associated VOC air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.
- B. Determination of whether acceptable operating and maintenance procedures are being used for the four new 737 wing panel spray booths in Building 4-20, the new inspar wing spray booth (PB-4), and the modified inspar wing spray booth (PP-8) in Building 4-86, will be based on information available to Ecology, the U.S. Environmental Protection Agency (EPA), PSCAA and/or their authorized representatives, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

#### **IX. MALFUNCTION AND EXCESS EMISSIONS REPORTING**

- A. Prior to incorporation of the conditions of this PSD permit into Boeing Renton's Title V Air Operating Permit issued pursuant to 40 C.F.R. Part 70, Permittee must report to Ecology and PSCAA, in writing or electronic mail, following the discovery of any malfunction of air pollution control equipment, process equipment, or of a process, which results in an increase in VOC emissions above

the allowable emission limits specified in Condition IV. of this permit, in accordance with WAC 173-400-107 and the following conditions:

1. As used in WAC 173-400-107(3), “as soon as possible” shall mean in no case later than twelve (12) hours following the discovery of any occurrence of excess VOC emissions above the allowable emission limits specified in Condition IV. of this permit that represent a potential threat to human health or safety.
  2. Permittee must notify Ecology and PSCAA, in writing or electronic mail, postmarked or received within thirty (30) days after the end of the month in which a malfunction is discovered, for any malfunction of air pollution control equipment, process equipment, or of a process, which results in an increase in VOC emissions above the allowable emission limits specified in Condition IV. of this permit. This notification must include a description of the malfunctioning equipment, process equipment or process, the date and time of the initial malfunction (if known), the period of time over which emissions were increased due to the malfunction, the cause of the malfunction (if known), the estimated resultant emissions in excess of those allowed in Condition IV., and the methods utilized to mitigate emissions and restore normal operations.
  3. For purposes of Condition IX.A., “malfunction” means any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner.
- B. After the conditions of this PSD permit have been incorporated into Boeing Renton’s Title V Air Operating Permit issued pursuant to 40 C.F.R. Part 70, Permittee shall report to PSCAA the discovery of any malfunction of air pollution control equipment, process equipment, or of a process, which results in an increase in VOC emissions above the allowable emission limits specified in Condition IV. of this permit pursuant to the deviation reporting requirements and, if applicable, pursuant to the unavoidable excess emissions reporting requirements, of that Title V Air Operating Permit.
- C. Compliance with the malfunction notification requirements of Conditions IX.A. or IX.B., as applicable, will not excuse or otherwise constitute a defense to any violation of this PSD permit or any law or regulation such malfunction may cause.

## **X. RIGHT OF ENTRY**

Section 114 of the federal Clean Air Act, 42 U.S.C. § 7414, the Revised Code of Washington (RCW) 70.94.200, and WAC 173-400-105(3) provide authorized representatives of EPA, Ecology, and PSCAA certain rights to enter and inspect the source. Refusal by the Permittee to allow such entry and inspection may be a violation of

the federal Clean Air Act and/or the Revised Code of Washington subject to penalty as provided in those statutes. Pursuant to these statutes, authorized representatives of EPA, Ecology, and PSCAA, upon the presentation of credentials:

- A. Have a right of entry to, upon, or through any premises of the Permittee or any premises in which any records this permit requires the Permittee to maintain are located.
- B. Have the right, at reasonable times, to access and copy any records this permit requires the Permittee to maintain.
- C. Have the right, at reasonable times, to inspect any monitoring equipment or method required by this permit.
- D. Have the right, at reasonable times, to sample any emissions that the Permittee is required to sample under this permit.

#### **XI. TRANSFER OF OWNERSHIP**

In the event of any changes in control or ownership of facilities to be constructed, this PSD permit will be binding on all subsequent owners and operators. The applicant must notify the succeeding owner and operator of the existence of this PSD permit and its conditions by letter, a copy of which must be forwarded to Ecology and/or PSCAA, as specified in Condition III.A.

#### **XII. ADHERENCE TO APPLICATION AND COMPLIANCE WITH OTHER ENVIRONMENTAL LAWS**

- A. Pursuant to 40 C.F.R. § 52.21(r)(1), the Permittee must construct and operate the four new 737 wing panel spray booths in Building 4-20, the new inspar wing spray booth (PB-4) in Building 4-86, and the modified inspar wing spray booth (PP-8) in Building 4-86 in accordance with this PSD permit and the application on which this permit is based.
- B. Pursuant to 40 C.F.R. § 52.21(r)(3), this PSD permit shall not relieve the Permittee of the responsibility to comply fully with applicable provisions of the State Implementation Plan and any other requirements under local, state, or federal law.
- C. Any applicant who fails to submit any relevant facts or who has submitted materially incorrect relevant information in a permit application must, upon becoming aware of such failure, or incorrect submittal, promptly submit such supplementary facts or corrected information.

- D. To the extent provided by 40 C.F.R. § 52.12(c), for the purpose of establishing whether or not the Permittee has violated or is in violation of any requirement of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with applicable requirements if the appropriate performance or reference test or procedure had been performed.

### **XIII. APPEAL PROCEDURES**

This PSD permit, or any conditions contained in it, may be appealed to:

- A. The Pollution Control Hearings Board (PCHB) as provided in Chapter 43.21B RCW and Chapter 371-08 WAC; and/or
- B. EPA's Environmental Appeals Board (EAB) as provided in 40 C.F.R. § 124.13 and 40 C.F.R. § 124.19.

## **ACRONYMS AND ABBREVIATIONS**

Aerospace NESHAP	National Emission Standards for Aerospace Manufacturing and Rework Facilities (40 C.F.R. Part 63, Subpart GG)
BACT	Best Available Control Technology
Boeing Renton	The Boeing Company, Boeing Commercial Airplanes Renton Facility
C.F.R.	Code of Federal Regulations
°C	Degrees Celsius
EAB	Environmental Appeals Board
Ecology	Washington State Department of Ecology
EPA	United States Environmental Protection Agency
gal	Gallon(s)
HVLP	High Volume Low Pressure
lb	Pound(s)
mm Hg	Millimeters of Mercury Column
MSDS	Material Safety Data Sheet
NESHAP	National Emission Standards for Hazardous Air Pollutants
PCHB	Pollution Control Hearings Board
PSCAA	Puget Sound Clean Air Agency
PSD	Prevention of Significant Deterioration of Air Quality
RCW	Revised Code of Washington
tpy	Tons per year
U.S.C.	United States Code
VOC	Volatile Organic Compounds
WAC	Washington Administrative Code