

1 WASHINGTON DEPARTMENT OF ECOLOGY  
2 MAIL STOP 47600  
3 OLYMPIA WASHINGTON 98504-7600

4 IN THE MATTER OF: ]  
5 ] NO. PSD-88-4 AMENDMENT 1  
6 BOEING COMMERCIAL AIRPLANES ] FINAL DETERMINATION OF  
7 800 LOGAN AVENUE NORTH ] APPROVAL OF PSD  
8 RENTON, WASHINGTON 98055 ] APPLICATION

9 Pursuant to Environmental Protection Agency (EPA) regulations for the  
10 Prevention of Significant Deterioration (PSD) set forth in Title 40,  
11 Code of the Federal Regulations Part 52 and based upon the complete  
12 application submitted by Boeing Commercial Airplanes from September 1988  
13 to December 1988, and the technical analysis performed by the Department  
14 of Ecology (Ecology), dated December 7, 1988, and the information  
15 submitted by Boeing in their March 13, 1995 letter requesting an  
16 amendment to PSD-88-4, Ecology now finds the following:

17 FINDINGS

- 18 1. Boeing Commercial Airplanes proposed to modify the existing 4-41  
19 Building located at the Renton Facility, 800 Logan Avenue North,  
20 Renton, Washington. Boeing Commercial Airplanes proposed to  
21 expand the building to accommodate painting and cleaning of 737s,  
22 757s and 707s. Ecology issued PSD No. 88-4 in January, 1989. On  
23 March 13, 1995 Boeing requested changes in Condition 3 of this  
24 Approval. The requested changes reduce specificity of coating  
25 application methodology, allowing increased operational flexibility  
26 while maintaining BACT.
- 27 2. The Renton facility qualifies as a major source because it emits  
28 more than 250 tons per year of volatile organic compounds (VOC).  
29 The proposed modification to the 4-41 Building qualifies as a

30 major modification and has the potential to increase VOC emissions  
31 more than 40 tons per year.

32 3. The project is located in an area which has been designated Class  
33 II for the purposes of PSD evaluation under 40 CFR 52.21. Best  
34 available control technology (BACT) for the cleaning and painting  
35 inside the 4-41 Building has been determined to be good  
36 manufacturing and work practices. These practices are:

- 37 a) The containment of spent solvent cleaning rags,
- 38 b) Low pressure application of bulk solvent,
- 39 c) The use of high transfer efficiency coating application  
40 methods such as: electrostatic/electrodeposition, high  
41 volume low pressure (HVLP), dip, flow, brush/roll, and  
42 d) A method of paint gun cleaning approved by the Puget Sound  
43 Air Pollution Control Agency.

44 4. All operations in the 4-41 Building will comply with Regulation II  
45 of the Puget Sound Air Pollution Control Agency.

46 5. The proposed site is within an area which is in attainment as  
47 regards to the state and national ambient air quality standards  
48 for ozone.

49 6. The facility as proposed in the original PSD Application had the  
50 potential to emit up to an additional 124 tons of VOC per year.  
51 The modifications proposed to Condition 3 of this Approval will  
52 reduce the estimated potential to emit VOC by 0.06 ton per year.

53 7. The emission of VOC is subject to PSD review.

54 8. The project will have no significant impact on ambient air  
55 quality.

- 56 9. The project is anticipated to have no noticeable effect on  
57 industrial, commercial or residential growth in the Renton area.  
58 10. Visibility will not be impaired in any Class I area due to the  
59 proposed emissions.  
60 11. Ambient pollutant concentrations in any Class I area are not  
61 predicted to change due to the project.  
62 12. Ecology finds that all requirements for PSD have been satisfied.  
63 Approval of the PSD application is granted subject to the  
64 following conditions.

65 APPROVAL CONDITIONS

- 66 1. Emissions of VOC from the 4-41 Building shall not exceed 124 tons  
67 per year.  
68 2. Boeing Commercial Airplanes shall report the total amount of  
69 solvents contained in the cleaning solutions and paints used in  
70 the 4-41 Building and the VOC emissions from the 4-41 Building  
71 annually to the Puget Sound Air Pollution Control Agency.  
72 3. The following work practices shall be employed in the 4-41  
73 Building.  
74 a) Spent solvent cleaning rags shall be deposited in closed  
75 containers operated in accordance with Chapter 173-303 WAC  
76 for the accumulation and disposal of solvent wipes.  
77 b) Bulk application of solvent shall be by low pressure hose.  
78 c) High transfer efficiency coating application methods such as  
79 electrostatic/electrodeposition, high volume low pressure  
80 (HVLP), dip, flow, brush/roll shall be used..  
81 d) Paint guns shall be cleaned by a method approved by the  
82 Puget Sound Air Pollution Control Agency.

- 83 4. All operations in the 4-41 Building shall comply with Regulation  
84 II of the Puget Sound Air Pollution Control Agency.
- 85 5. This approval shall become void if construction of the 4-41  
86 Building is not commenced within eighteen (18) months after  
87 receipt of final approval, or if construction of the 4-41 Building  
88 is discontinued for a period of eighteen (18) months.
- 89 6. Any activity which is undertaken by the company or others, in a  
90 manner which is inconsistent with the application and this  
91 determination, shall be subject to Ecology enforcement under  
92 applicable regulations.

93 Reviewed by:

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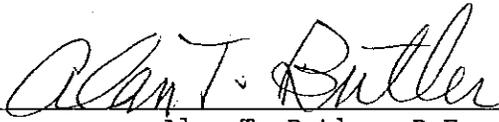
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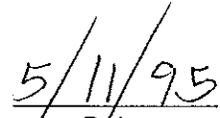
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Alan T. Butler, P.E.  
Air Quality Program  
Washington Department of Ecology

  
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Date

103 Approved by:

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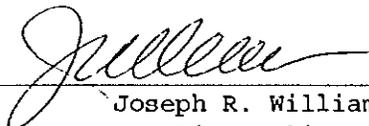
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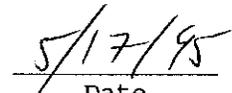
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Joseph R. Williams  
Manager, Air Quality Program  
Washington Department of Ecology

  
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Date