

Puget Sound Clean Air Agency

110 Union Street, Suite 500, Seattle, WA 98101-2038

PUGET SOUND
Clean Air Agency

Notice of
Construction No. 8073

Registration No. 13125
Date MAR 9 2000

GENERAL REGULATORY ORDER

Under the authority of Puget Sound Clean Air Agency Regulation I, Section 3.03, General Regulatory Orders, this Order is issued to:

Boeing Commercial Airplane (Renton)

for the facility located at:

800 Logan Ave N
Renton, WA 98055

Proposed Averaging Scheme for Primers:

1. Boeing Commercial Airplane Renton may use any combination of uncontrolled primers, including waterborne primers, at one or more emission units, within that same facility, where aerospace exterior commercial priming operations occur that are subject to 40 CFR 63.745(c), provided that:

- (a) The monthly volume-weighted average organic HAP content of the combination of exterior commercial primers does not exceed 650 g/liter (less water); and
- (b) The monthly volume-weighted average VOC content of the combination of exterior commercial primers does not exceed 650 g/liter (less water and exempt solvents). [Nov. 30, 1999 EPA Letter]

2. (a) Boeing shall maintain records of the monthly volume-weighted average mass of organic HAP emitted per unit volume of primer as applied (less water) (Ha) for all exterior commercial primers for which averaging is used to meet the HAP content limit (as determined by the procedures specified in 40 CFR 63.750(d)); and all data and calculations used to determine Ha for each emission unit for which Boeing wishes to use this averaging scheme to demonstrate compliance with the HAP content limit. [40CFR 63.752(c)(4)]

(b) Boeing shall maintain records of the monthly volume-weighted average mass of VOC emitted per unit volume of primer as applied (less water and exempt solvents) (Ga) for all exterior commercial primers for which averaging is used to meet the VOC content limit (as determined by the procedures specified in 40 CFR 63.750(f)); and all data and calculations used to determine Ga for each emission unit for which Boeing wishes to use this averaging scheme to demonstrate compliance with the VOC content limit. [40CFR 63.752 (c)(4)]

(c) If before the beginning of any calendar month Boeing enters into a log that a specific emission unit or units will only use exterior commercial primers with organic HAP content that does not exceed 650 g/liter (less water) and makes that log available to Puget Sound Clean Air Agency personnel upon request, then Boeing does not need to follow Condition No. 2(a) for that month or months. [WAC 173-401-650(1)]

(d) If before the beginning of any calendar month Boeing enters into a log that a specific emission unit or units will only use exterior commercial primers with VOC content that does not

General Regulatory Order for NC No. 8073

exceed 650 g/liter (less water and exempt solvents) and makes that log available to Puget Sound Clean Air Agency personnel upon request, Boeing does not need to follow Condition No. 2(b) for that month or months. [WAC 173-401-650(1)]

3. Boeing shall report to Puget Sound Clean Air Agency Operating Permit Certification each value of Ha and Ga, if any, that exceeds the 650 g/liter HAP and VOC content limit, as determined under this averaging scheme. These reports shall be submitted with the facility's semiannual compliance status report. [40CFR 63.753(c)(1)(ii)]

APPEAL RIGHTS

Pursuant to Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, an appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of receiving this Order.

Abigail Lee

Abigail Lee
Reviewing Engineer

Jay M. Willenberg, PE

Jay M. Willenberg, PE
Reviewing Engineer

David O. Kneel

Dennis J. McLellan
Air Pollution Control Officer



Puget Sound Clean Air Agency

Notice of
Construction No. 8703

Registration No. 13125

Date:

[AUG 02 2002]

60,000 cfm Spray booth in 4-45 Building.

APPLICANT

Irina Polyakovska
Boeing Commercial Airplane (Renton)
PO Box 3707, MC 63-41
Seattle, WA 98124-2207

OWNER

Boeing Commercial Airplane (Renton)
PO Box 3707, MC 63-41
Seattle, WA 98124-2207

INSTALLATION ADDRESS

Boeing Commercial Airplane (Renton), 800 Logan Ave N, Renton, WA, 98055

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. Boeing Renton 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 marked on or nearby the gauge.
4. Boeing Renton shall record if the pressure drop across the exhaust filters is in the acceptable pressure drop range once each week that the spray booth is used.
5. 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.
6. Boeing Renton shall comply with the requirements of the draft Boeing Renton Title V Air Operating Permit as proposed on the date this Order of Approval is signed, to be superseded by the final Boeing Renton Title V Air Operating Permit when the permit is issued.

APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.

Order of Approval for NC No. 8703

LAUG 02 2002

Agata McIntyre

Agata McIntyre
Reviewing Engineer
ns

S. M. Van Slyke

Steven Van Slyke
Supervising Engineer



Puget Sound Clean Air Agency

Notice of
Construction No. 9068

Registration No. 13125

Date **DEC 10 2004**

HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

64 MMBtu/hr natural gas fired boiler with low-NOx burners and flue gas recirculation.

APPLICANT

Michael L. Verhaar
Boeing Commercial Airplane Renton
PO Box 3707 MC 92 10
Seattle, WA 98124-2207

OWNER

Boeing Commercial Airplane Renton
PO Box 3707 MC 92 10
Seattle, WA 98124-2207

INSTALLATION ADDRESS

Boeing Commercial Airplane Renton, 800 Logan Ave N, Renton, WA, 98055

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. The boiler shall be fired only on natural gas.
4. The boiler shall meet all applicable requirements of 40 CFR 60 Subpart Dc. Records of fuel usage pursuant to this requirement and 40 CFR 60.48c(g) shall be maintained on a monthly basis and may be in the form of fuel bills or meter readings or any other records that adequately document fuel use.
5. The boiler shall meet all applicable requirements of 40 CFR 63 Subpart DDDDD.
6. The boiler exhaust stack shall not emit nitrogen oxides (NOx) in excess of 9 parts per million on a dry, volumetric basis corrected to 3% O₂ as determined by EPA Method 7E (40 CFR Part 60, Appendix A) or equivalent method approved by the Puget Sound Clean Air Agency.
7. The boiler exhaust stack shall not emit carbon monoxide (CO) in excess of 50 parts per million on a dry, volumetric basis corrected to 3% O₂ as determined by EPA Method 10 (40 CFR Part 60, Appendix A) or equivalent method approved by the Puget Sound Clean Air Agency.
8. The opacity of emissions from the boiler shall not exceed 5% for a period or periods aggregating more than 3 minutes in any 1 hour, as determined by Washington Department of Ecology (Ecology) Method 9A. Boeing shall conduct quarterly inspections of the boiler stack for visible emissions. Inspections are to be performed during daylight hours while the boiler is in operation. If, during the scheduled inspection or at any other time, visible emissions other than uncombined water are observed, Boeing shall, as soon as possible, but no later than within 24 hours of the initial observation, take corrective action until there are no visible emissions or, alternatively, record the opacity using Ecology Method 9A or shut down the boiler until it can be repaired.

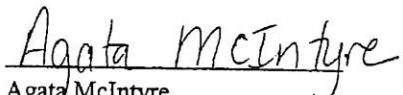
Order of Approval for NC No. 9068

DEC 10 2004

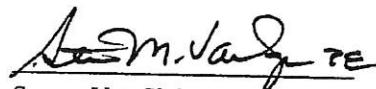
9. Initial compliance with Conditions 6, 7, and 8 shall be determined no later than 180 days after initial startup by a performance test using 40 CFR Part 60, Appendix A Reference Methods 7E, 10, and Ecology Method 9A, in accordance with Puget Sound Clean Air Agency Regulation I, Section 3.07 and in accordance with 40 CFR 63 Subpart DDDDD when testing for CO.
10. Boeing shall conduct annual stack tests each calendar year to determine compliance with Condition 7 using 40 CFR Part 60, Appendix A Reference Method 10 and in accordance with Puget Sound Clean Air Agency Regulation I, Section 3.07.
11. Boeing shall conduct annual stack tests each calendar year to determine compliance with Condition 6 using 40 CFR Part 60, Appendix A Reference Method 7E and in accordance with Puget Sound Clean Air Agency Regulation I, Section 3.07.

APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.



Agata McIntyre
Reviewing Engineer
ns



Steven Van Slyke
Supervising Engineer



Puget Sound Clean Air Agency

Notice of
Construction No. 9084

Registration No. 13125

Date

HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

NOV 18 2004

Caterpillar Model 3456 diesel fired emergency stationary generator rated at 764 hp.

APPLICANT

Michael L. Verhaar
Boeing Commercial Airplane, Renton
PO Box 3707 MC 63-41
Seattle, WA 98124-2207

OWNER

Boeing Commercial Airplane, Renton
PO Box 3707 MC 63-41
Seattle, WA 98124-2207

INSTALLATION ADDRESS

Boeing Commercial Airplane, Renton, 800 Logan Ave N, Renton, WA, 98055

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. The generator shall meet the definition of an emergency stationary reciprocating internal combustion engine in 40 CFR 63.6675, including being operated no more than 50 hours per year in non-emergency non-maintenance service.
4. Boeing shall track the total number of hours the generator operated each calendar year and note any hours during which the engine was operated in non-emergency situations. Boeing shall make this information available to Puget Sound Clean Air Agency staff upon request.
5. The generator shall burn diesel fuel with a maximum of 500 ppm sulfur.
6. Boeing shall keep a record of the sulfur content of the fuel burned by the generator and make this information available to Puget Sound Clean Air Agency staff upon request.

APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.

Order of Approval for NC No. 9084

NOV 18 2004

Agata McIntyre

Agata McIntyre
Reviewing Engineer

ns

Steven Van Slyke PE

Steven Van Slyke
Supervising Engineer



Puget Sound Clean Air Agency

Notice of
Construction No. 9487

Registration No. 13125

Date 8/11/2006

HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

Emergency package diesel-electric generator set at the 10-80 Building.

APPLICANT

Michael L. Verhaar
Boeing Commercial Airplane Renton
PO Box 3707 MC 63-13
Seattle, WA 98124-2207

OWNER

Boeing Commercial Airplane Renton
PO Box 3707 MC 63-13
Seattle, WA 98124-2207

INSTALLATION ADDRESS

Boeing Commercial Airplane Renton, 800 Logan Ave N, Renton, WA, 98055

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. Until such time as the package diesel-electric generator set is no longer covered under the Boeing Renton air operating permit No. 13125, the generator shall be operated only to provide emergency electric power to the 10-80 building during an electrical supply outage, and up to 50 hours per year for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine.
4. Boeing shall track the total number of hours the diesel-electric generator set operates each calendar year and note any hours during which the engine is operated in non-emergency situations. Boeing shall make this information available to Puget Sound Clean Air Agency staff upon request.
5. The diesel-electric generator set shall burn diesel fuel with a maximum of 15 ppm sulfur.
6. Boeing shall keep a record of the sulfur content of the fuel burned by the diesel-electric generator set and make this information available to Puget Sound Clean Air Agency staff upon request.

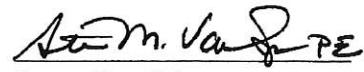
APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.

Order of Approval for NC No. 9487



Alan Butler
Reviewing Engineer
ns



Steven Van Slyke
Supervising Engineer



Puget Sound Clean Air Agency

Notice of
Construction No. 9897

Registration No. 13125

Date
MAY 07 2009

HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

Physical modifications to the 5-50 Building paint hanger, with a 173,000 cfm air flow rate and air exhaust controlled a MACT 319 "3-stage" compliant filter system consisting of Purolator Prebond Prefilters followed by Supersorb III filters, or equivalent.

APPLICANT

Sean Caldwell
Boeing Commercial Airplane Renton
PO Box 3707 MC 67-74
Seattle, WA 98124-2207

OWNER

Boeing Commercial Airplane Renton
PO Box 3707 MC 67-74
Seattle, WA 98124-2207

INSTALLATION ADDRESS

Boeing Commercial Airplane Renton, 800 Logan Ave N, Renton, WA, 98055

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. The air from the 5-50 paint hanger shall exhaust through Purolator prebond prefilters followed by Supersorb III filters, or other equivalent filters. Documentation of equivalency shall be maintained on site.
4. Boeing shall install and maintain gauges to measure the pressure drop across all exhaust filter banks of the 5-50 paint hanger and mark the acceptable pressure drop range on or near the gauge, or on a pressure drop log.
5. Boeing shall record the pressure drop across all the exhaust filters of the 5-50 paint hanger at least once each shift that the hanger is used for spray coating with coatings that contain inorganic HAPs, and at least once each week for all other coatings. For any shifts when the paint hanger was used and pressure drop readings were not recorded, Boeing shall document the reason.
6. If the pressure drop across the exhaust filters is not within the acceptable range, corrective actions shall be taken prior to resuming spray coating activities.
7. Boeing shall check the primary dry filter systems, where visible, for proper seating and complete coverage over the exhaust plenum, and shall record the results of this inspection. The inspection shall be conducted at least monthly or at time of use if the paint hanger is used less frequently than once per month. If filter coverage is acceptable for all inspections for a one-year period, the inspection frequency may be reduced to once per calendar quarter.
8. Boeing shall annually check to see if the correct filters are installed.

Order of Approval for NC No. 9897

MAY 07 2009

9. Spray coating operations shall be conducted using high volume low pressure (HVLP) spray equipment, or other equipment with a transfer efficiency that is at least equivalent to HVLP. Documentation of equivalency for non-HVLP spray equipment shall be maintained on site.
10. Use of coatings containing chromium at the 5-50 paint hanger shall not exceed 630 pounds of chromium, using a conversion ratio of 0.2867 pounds of chromium per pound of zinc chromate and 0.2554 pounds of chromium per pound of strontium chromate, during any rolling 12 month period.
11. Within 30 days of the end of each month, Boeing shall calculate the monthly use of chromium at the 5-50 paint hanger, as well as the rolling 12 month chromium use for the latest 12 month period.
12. This Order of Approval No. 9897 cancels and supersedes Order of Approval No. 3162, dated December 5, 1988.

APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.

Agata McIntyre, PE

Agata McIntyre
Reviewing Engineer

ns

Steven Van Slyke

Steven Van Slyke
Supervising Engineer



Puget Sound Clean Air Agency

Notice of
Construction No. 10250

Registration No. 13125

Date
DEC 30 2010

HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

Paint booths PB0001, PB0002, PB0003, PB0004, PB0005, PB0006 in the 4-42 Bldg., all equipped with dry exhaust filters.

APPLICANT

Michael L. Verhaar
Boeing Commercial Airplane Renton
PO Box 3707 MC 67-74
Seattle, WA 98124-2207

OWNER

Boeing Commercial Airplane Renton
PO Box 3707 MC 67-74
Seattle, WA 98124-2207

INSTALLATION ADDRESS

Boeing Commercial Airplane Renton, 800 Logan Ave N Bldg 10 - 20, Renton, WA, 98055

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. At all times when coatings containing chromium or chromium compounds are applied, air exhaust from the spray booth shall be routed through Purolator Prebond pre-filters followed by Supersorb III filters, or equivalent.
4. When applying coatings that do not contain chromium or chromium compounds, air exhaust from the spray booth shall be routed through filters with an overall efficiency of 99.5% or greater, as per ASHRAE Method 52.2 or EPA Method 319, such as Purolator Supersorb II filters.
5. Within 48 hours after the end of each shift during which a spray booth is used, Boeing shall log the type of coatings that were applied and whether the coatings contained chromium or chromium compounds.
6. At all times when a spray booth is in use, Boeing shall maintain documentation on site of the type and efficiency of the exhaust filters installed in the booth.
7. This Order of Approval No. 10250 hereby supersedes and cancels Order of Approval No. 3121, dated June 10, 2009, and Order of Approval No. 3714, dated June, 10, 2009.

APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.

Order of Approval for NC No. 10250

DEC 30 2010

Agata McIntyre, P.E.

Agata McIntyre
Reviewing Engineer

ns

Steven Van Slyke

Steven Van Slyke
Compliance Manager



Puget Sound Clean Air Agency

Notice of
Construction No. 10258

Registration No. 13125

Date

DEC 30 2010

HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

Paint booths PB0007, PB0008, and PB0009 in the 4-42 Bldg., all equipped with dry exhaust filters.

APPLICANT

Michael L. Verhaar
Boeing Commercial Airplane Renton
PO Box 3707 MC 67-74
Seattle, WA 98124-2207

OWNER

Boeing Commercial Airplane Renton
PO Box 3707 MC 67-74
Seattle, WA 98124-2207

INSTALLATION ADDRESS

Boeing Commercial Airplane Renton, 800 Logan Ave N Bldg 10 - 20, Renton, WA, 98055

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. Air exhaust from each of the spray booths shall be routed through filters with an efficiency of 99.5% or greater, as per ASHRAE Method 52.2 or EPA Method 319, such as Purolator Supersorb II filters.
4. Boeing shall not apply any coatings in these spray booths that contain chromium or chromium compounds.
5. At all times when a spray booth is in use, Boeing shall maintain documentation on site of the type and efficiency of the exhaust filters installed in the booth.
6. This Order of Approval No. 10258 hereby supersedes and cancels Order of Approval No. 3121, dated June 10, 2009, and Order of Approval No. 3714, dated June, 10, 2009.

APPEAL RIGHTS

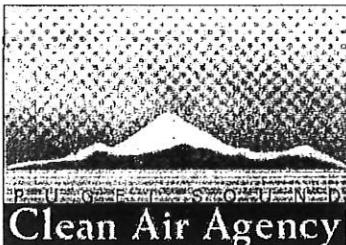
Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.

Agata McIntyre, P.E.

Agata McIntyre
Reviewing Engineer
ns

Steven Van Slyke

Steven Van Slyke
Compliance Manager



Puget Sound Clean Air Agency

Notice of
Construction No. 10397

Registration No. 13125

Date

NOV 02 2011

HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

Replacement of four wing panel spray booths in Bldg. 4-20 with four new wing panel spray booths. Air exhaust from all spray booths through dry filters with a removal efficiency as per 40 CFR 63.745(g)(2)(ii).

APPLICANT

Charles Keller
Boeing Commercial Airplane Renton
PO Box 3707 MC 67-74
Seattle, WA 98124-2207

OWNER

Boeing Commercial Airplane Renton
PO Box 3707 MC 67-74
Seattle, WA 98124-2207

INSTALLATION ADDRESS

Boeing Commercial Airplane Renton, 737 Logan Ave N Bldg 10 - 20, Renton, WA, 98055

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. The air from each spray booth shall exhaust through a dry particulate filter system using Purolator Supersorb III filters, or other equivalent filters. Documentation of equivalency shall be maintained on site.
4. Boeing shall install and maintain gauges that measure the pressure drop across all exhaust filter banks of the spray booths and mark the acceptable pressure drop range on or near the gauge, or on a pressure drop log.
5. Boeing shall record the pressure drop across the exhaust filters of each spray booth at least once each shift.
6. If the pressure drop across the exhaust filters is not within the acceptable range, corrective action shall be taken prior to resuming spray coating activities.
7. Boeing shall check the primary dry filter systems, where visible, for proper seating and complete coverage over the exhaust plenum, and shall record the results of this inspection. The inspection shall be conducted at least monthly or at time of use if a spray booth is used less frequently than once per month.
8. If improperly seated filters or incomplete coverage over the exhaust plenum is observed, Boeing shall, as soon as practicable but within 24 hours of initial observation either; correct the problem or, alternatively, shut down the unit until it can be repaired.
9. Boeing shall annually check to see if the correct filters are installed.
10. Spray coating operations shall be conducted using high volume low pressure (HVLP) spray equipment, or other

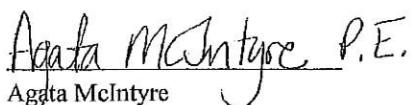
Order of Approval for NC No. 10397

NOV 02 2011

equipment with a transfer efficiency that is at least equivalent to HVLP. Documentation of equivalency for non-HVLP spray equipment shall be maintained on site.

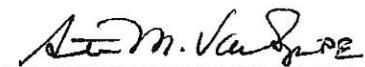
APPEAL RIGHTS

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Agata McIntyre
Reviewing Engineer

ns



Steven Van Slyke
Compliance Manager



Puget Sound Clean Air Agency

Notice of
Construction No.

10410

HEREBY ISSUES AN ORDER OF APPROVAL
TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. 13125

Date DEC 1 1 2017

Modification to permit conditions for 64 MMBtu/hr natural gas fired boiler with low-NOx burners and flue gas recirculation.

APPLICANT

Michael L. Verhaar/Environmental Affairs
Boeing Commercial Airplane Renton
PO Box 3707 MC 67-74
Seattle, WA 98124-2207

OWNER

Boeing Commercial Airplanes Renton
PO Box 3707 MC 67-74
Seattle, WA 98124-2207

INSTALLATION ADDRESS

Boeing Commercial Airplanes Renton, 800 Logan Ave N, Renton, WA 98055

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. The boiler shall be fired only on natural gas.
4. The boiler shall meet all applicable requirements of 40 CFR 60 Subpart Dc. Records of fuel usage pursuant to this requirement and 40 CFR 60.48c(g) shall be maintained on a monthly basis and may be in the form of fuel bills or meter readings or any other records that adequately document fuel use.
5. The boiler shall meet all applicable requirements of 40 CFR 63 Subpart DDDDD.
6. The boiler exhaust stack shall not emit nitrogen oxides (NOx) in excess of 9 parts per million on a dry, volumetric basis (ppmdv) corrected to 3% O₂ as determined by EPA Method 7E (40 CFR Part 60, Appendix A) or equivalent method approved by the Puget Sound Clean Air Agency.
7. The boiler exhaust stack shall not emit carbon monoxide (CO) in excess of 50 parts per million on a dry, volumetric basis (ppmdv) corrected to 3% O₂ as determined by EPA Method 10 (40 CFR Part 60, Appendix A) or equivalent method approved by the Puget Sound Clean Air Agency.
8. The opacity of emissions from the boiler shall not exceed 5% for a period or periods aggregating more than 3 minutes in any 1 hour, as determined by Washington Department of Ecology (Ecology) Method 9A. Boeing shall conduct quarterly inspections of the boiler stack for visible emissions. Inspections are to be performed during daylight hours while the boiler is in operation. If, during the scheduled inspection or at any other time, visible emissions other than uncombined water are observed, Boeing shall, as soon as possible, but no later than within 24 hours of the initial observation, take corrective action until there are no visible emissions or, alternatively, record the opacity using Ecology Method 9A or shut down the

Order of Approval for NC No. 10410

DEC 1 1 2017

boiler until it can be repaired.

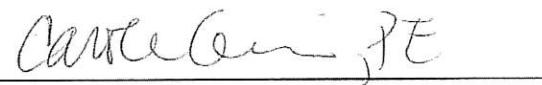
9. Boeing shall service the boiler no less than once per calendar year. After servicing, a portable gas analyzer shall be used to measure NOx, CO, and oxygen to verify whether NOx is 9 ppm dv (or less) and CO is 50 ppm dv (or less), corrected to 3% oxygen. If emissions are found to be greater than these NOx or CO levels, Boeing shall service the boiler within 7 days and re-run the evaluations until emissions are below 9 ppm NOx and 50 ppm CO. If servicing cannot be done within 7 days, Boeing shall stop operating the boiler until it can be serviced.
10. This Order of Approval 10410 will cancel and supersede Order of Approval No. 9068, dated December 10, 2004, upon the date that the Puget Sound Clean Air Agency issues a renewal to the Boeing Renton Air Operating Permit No. 13125, dated February 2, 2004.

APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.



Margaret L. Corbin
Reviewing Engineer



Carole Cenci
Compliance Manager



Puget Sound Clean Air Agency

Notice of
Construction No. 10517

Registration No. 13125

Date
SEP 25 2012

HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

120,000 cubic foot Inspark wing paint booth in Building 4-86. Equipped with HEPA exhaust filters. 148,000 cfm exhaust rate.

APPLICANT

Michael L. Verhaar
Boeing Commercial Airplane Renton
PO Box 3707 MC 67-74
Seattle, WA 98124-2207

OWNER

Boeing Commercial Airplane Renton
PO Box 3707 MC 67-74
Seattle, WA 98124-2207

INSTALLATION ADDRESS

Boeing Commercial Airplane Renton, 737 Logan Ave N Bldg 10 - 20, Renton, WA, 98055

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

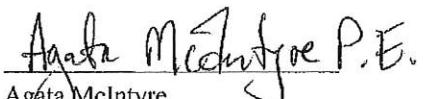
1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. The air from the spray booth shall exhaust through a dry particulate filter system using Purolator Ultra-Cell HEPA filters, or other equivalent filters. Documentation of equivalency shall be maintained on site and available for inspection.
4. Boeing shall install and maintain gauges that measure the pressure drop across all exhaust filter banks of the spray booths and mark the acceptable pressure drop range on or near the gauge, or on a pressure drop log.
5. Boeing shall record the pressure drop across the exhaust filters of each spray booth at least once each shift.
6. If the pressure drop across the exhaust filters is not within the acceptable range, corrective action shall be taken prior to resuming spray coating activities.
7. Boeing shall check the HEPA filter systems, where visible, for proper seating and complete coverage over the exhaust plenum, and shall record the results of this inspection. The inspection shall be conducted at least monthly or at time of use if a spray booth is used less frequently than once per month.
8. If improperly seated filters or incomplete coverage over the exhaust plenum is observed, Boeing shall, as soon as practicable but within 24 hours of initial observation either; correct the problem or, alternatively, shut down the unit until it can be repaired.
9. Spray coating operations shall be conducted using high volume low pressure (HVLP) spray equipment, or other equipment with a transfer efficiency that is at least equivalent to HVLP. Documentation of equivalency for non-HVLP spray equipment shall be maintained on site and available for inspection.

Order of Approval for NC No. 10517

SEP 25 2012

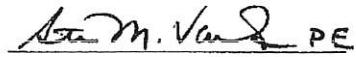
APPEAL RIGHTS

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Agata McIntyre
Reviewing Engineer

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Steven Van Slyke
Compliance Manager