

# Puget Sound Clean Air Agency

110 Union Street, Suite 500, Seattle, WA 98101-2038: Agata McIntyre (206) 689-4061

Emission Report  
March 29, 2002

**BOEING COMMERCIAL AIRPLANE (FREDERICKSON)**

Facility ID #: 17771  
EPA#: 053-177

Location (PIERCE County):

18001 Canyon Rd E  
Puyallup, WA 98373  
Jade J Hudson  
Env. Eng. / Pager (206) 906-1502  
(253) 931-4182

Mailing Address:

PO Box 3707, MC 5R-14  
Seattle, WA 98124-2207  
Edward J Cierebiej  
Environmental Mgr  
(253) 931-3734

Standard Industrial Classification (SIC): 3728 Aircraft Equipment

North American Industry Classification System (NAICS):

336413 Other Aircraft Part and Auxiliary Equipment Manufacturing

# Puget Sound Clean Air Agency

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## 2000 Air Contaminant Emission Summary

(From last year's Emission Report; fees based on tons/year)

<u>CAS#</u>	<u>Flags</u>	<u>Air Contaminants:</u>	<u>pounds/2000</u>	<u>tons /2000</u>
95-63-6	V	1,2,4-Trimethyl benzene	3	<1
78-93-3	VTH	2-Butanone (MEK; Methyl ethyl ketone)	858	<1
75-28-5	V	2-Methyl propane (isobutane)	194	<1
107-87-9	VT	2-Pentanone (Methyl propyl ketone)	15,802	8
763-69-9	V	3-Ethyl ethoxypropionate	3	<1
80-05-7	V	4,4'-Isopropylidendiphenol	2	<1
67-64-1	T	Acetone	3,166	2
123-54-6	V	Acetyl acetone	25	<1
64742-48-9	V	Aliphatic hydrocarbon solvent	32	<1
6364-17-6	V	Aliphatic secondary naphalene amine (1)	674	<1
43057-68-7	V	Aliphatic secondary naphalene amine(2)	674	<1
7429-90-5	T	Aluminum (alkyls and soluble salts)	9	<1
1760-24-3	V	Amino propyl trimethoxysilane	3	<1
26125-61-1	V	Aramid	4	<1
7440-39-3	T	Barium, soluble compounds Ba	1	<1
71-43-2	VTH	Benzene	6	<1
100-51-6	V	Benzyl alcohol	4	<1
117-81-7	VTH	Bis(2-ethylhexyl)phthalate (DEHP)	4	<1
106-97-8	VT	Butane	5	<1
142-96-1	V	Butyl ether	112	<1
CO		Carbon Monoxide (CO)	26,100	13
7440-47-3	TH	Chromium and compounds	4	<1
110-82-7	VT	Cyclohexane	11	<1
108-94-1	VT	Cyclohexanone	9,944	5
75-09-2	TH	Dichloromethane (Methylene chloride)	155	<1
111-42-2	VTH	Diethanolamine	1	<1
112-34-5	VH	Diethylene glycol monbutyl ether [glycol ether]	1	<1
108-83-8	VT	Diisobutyl ketone	239	<1
115-10-6	V	Dimethyl ether propellant	28	<1
34590-94-8	VT	Dipropylene glycol methyl ether	12	<1
64742-54-7	V	Distillates (petroleum) hydrofvlid	6	<1
37312-33-7	V	Epoxy resin(1)	3	<1
64-17-5	VT	Ethyl alcohol (Ethanol)	889	<1
100-41-4	VTH	Ethyl benzene	16	<1
50-00-0	VTH	Formaldehyde	24	<1
96-48-0	V	Gamma-Butyrolactone	3	<1
110-54-3	VTH	Hexane (n-Hexane)	645	<1

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EPA#: 053-177

28182-81-2	V	Homopolymer of HDI	1	<1
7664-39-3	T H	Hydrogen fluoride (Hydrofluoric acid)	4	<1
7722-84-1	T	Hydrogen peroxide	4	<1
78-83-1	VT	Isobutyl alcohol	5,075	3
67-63-0	VT	Isopropyl alcohol (Isopropanol)	9,435	5
68476-85-7	VT	Liquified petroleum gas	5	<1
67-56-1	VT H	Methyl alcohol (Methanol)	49	<1
108-10-1	VT H	Methyl isobutyl ketone (MIBK; Hexone)	4,578	2
110-43-0	VT	Methyl n-amyl ketone	382	<1
8030-30-6	VT	Naphtha (Rubber solvents)	141	<1
64741-65-7	V	Naphtha (petroleum) heavy alkylated (isopar)	3,434	2
7697-37-2	T	Nitric acid	105	<1
79-24-3	VT	Nitroethane	74	<1
NO2		Nitrogen Oxides (NO2)	34,597	17
43207	V	Other Volatile Organic Compounds (VOC)	2,083	1
64742-65-0	V	Paraffinic petroleum distillates	5	<1
PM10		Particulate Matter (PM10)	40,961	20
PM2.5		Particulate Matter (PM2.5)	8,444	4
127-18-4	T H	Perchloroethylene (tetrachloroethylene)	230	<1
64742-47-8	V	Petroleum distillate, hydrotreated light	3	<1
64742-46-7	V	Petroleum distillates	4	<1
64742-89-8	V	Petroleum naphtha, paraffins & naphthenes	728	<1
68611-50-7	V	Polysulfide liquid polmer	1	<1
74-98-6	V	Propane	127	<1
68476-86-8	V	Propane/isobutane(1)	15	<1
1310-73-2	T	Sodium hydroxide	69	<1
64742-62-7	V	Solvent-Dewaxed Residual Oil	1	<1
8052-41-3	V	Stoddard solvent	21	<1
7789-06-2	T H	Strontium Chromate	1	<1
SO2		Sulfur Oxides (SO2)	541	<1
7664-93-9	T	Sulfuric acid	12	<1
61788-32-7	V	Terphenyls, hydrogenated	3	<1
109-99-9	VT	Tetrahydrofuran	2	<1
108-88-3	VT H	Toluene	17,015	9
79-01-6	VT H	Trichloroethylene	132	<1
102-71-6	V	Triethanolamine	8	<1
1314-62-1	T	Vanadium, as V2O5	1	<1
8042-47-5	V	White Mineral Oil	42	<1
1330-20-7	VT H	Xylenes	3,209	2
71-36-3	VT	n-Butyl alcohol	265	<1
71-23-8	VT	n-Propyl alcohol	1,738	<1

# Puget Sound Clean Air Agency

110 Union Street, Suite 500, Seattle, WA 98101-2038: Agata McIntyre (206) 689-4061

Emission Report

March 29, 2002

## BOEING COMMERCIAL AIRPLANE (FREDERICKSON)

Facility ID #: 17771

EPA#: 053-177

78-92-2	VT	sec-Butyl alcohol	95	< 1
			<hr/> <hr/>	<hr/> <hr/>
		Volatile Organic Compounds Total (V)	78,898	39
		Toxic Air Contaminants Total (T)	74,412	37
		Hazardous Air Pollutants Total (H)	26,932	13

April 17, 2001

**RECEIVED** *Boeing Corporate*

Mr. Rick Hess  
Puget Sound Clean Air Agency  
110 Union Street, Suite 500  
Seattle, WA 98101-2038

APR 23 2001

PUGET SOUND CLEAN  
AIR AGENCY

Subject: Clarification of Contents of Operations and Maintenance Manual

Reference a) Letter from R. Hess, PSCAA to L. Babich, Boeing, December 22, 2001  
Re: Applicability of Agency Regulation 1 Section 7.09(b)

b) Meeting of PSCAA and Boeing March 16, 2001 at PSCAA offices

Dear Mr. Hess:

We were happy to meet with you and the PSCAA team last month. With complex rules such as Aerospace NESHAP's, we appreciate your willingness to sit and discuss issues of interpretation and application of regulations. As Jim Nolan aptly stated, it is often a matter of nomenclature and terminology. Additionally, the application of rules needs careful consideration of the Company's operations. We strive for compliance at all times and know that this forum will help us to better understand how to apply and demonstrate compliance with the rules. We look forward to continued open dialogue.

We feel it is important to document the agreement we reached during the meeting regarding O&M plans. We agree that the overall goal is prevention of violations of the standards, such that equipment is operated and maintained to minimize emissions and operations are conducted in a compliant manner. There may be several different ways to achieve the intended goal; but in any case, it should be simple. At the meeting, we agreed that Boeing's Operating and Maintenance Plans will address only equipment operation and maintenance and that plans addressing the work practices of production workers can be maintained elsewhere. Should PSCAA inspectors encounter a systemic problem, they will want to see procedures and documentation addressing work practices to determine if a system was in place and where it appeared to have failed. This is reasonable and we will be glad to provide that documentation to them. However, this documentation will not be incorporated into the Operation and Maintenance Plan as described in PSCAA regulation I, Section 7.09 (b).

It is our intention to maintain site operations, as required, in full compliance with both the ANESHAP and PSCAA regulations concerning documentation. And, if you have any questions or would like to discuss this matter further please let me know. I can be reached at 206-766-1673.

Sincerely,



Barbara Thompson  
Director of Environmental Affairs  
Boeing Commercial Airplanes

**PUGET SOUND  
Clean Air Agency**

110 Union Street, Suite 500  
Seattle, Washington 98101

Working Together For Clean Air

May 1, 2001

Barbara Thompson  
Director of Environmental Affairs  
Boeing Commercial Airplanes  
P.O. Box 3707, M/C 21-77  
Seattle, WA 98124-2207

Re: March 16, 2001 Office Conference

Dear Ms. Thompson:

Thank you for your April 17, 2001 letter that accurately reflected our meeting held on March 16, 2001.

We agree systemic problems identified or brought to the attention of our inspectors, will result in our request to review procedures and documentation addressing work practices to determine if a system is in place, as well as where it appeared to have failed. This process may also involve interviewing employees; we appreciate your cooperation.

Because an element of our civil penalty policy considers whether procedures were in place to prevent problems, understanding these systems and having documentation available during an inspection for review is beneficial to both parties.

Thank you for your action to ensure compliance with Agency regulations and for joining with this Agency in efforts to achieve cleaner air.

Should you have any questions, I can be reached at 206.689.4029.

Sincerely,



Rick D. Hess  
Supervising Inspector

RDH/ml

cc: Jim Nolan, Director - Compliance  
Neal Shulman, Manager - Inspection  
Rosemary Busterna, Compliance System Planner  
Aerospace Team

**EXECUTIVE DIRECTOR**

Dennis J. McLerran

**BOARD OF DIRECTORS**

**SNOHOMISH COUNTY COUNCIL CHAIR**

Dave Somers

**SEATTLE**

Paul Schell, Mayor

**KING COUNTY EXECUTIVE**

Ron Sims

**KITSAP COUNTY COMMISSIONER**

Jan Angel

**PIERCE COUNTY EXECUTIVE**

John Ladenburg

**EVERETT**

Edward D. Hansen, Mayor

**BREMERTON**

Lynn S. Horton, Mayor

**TACOMA**

Bill Evans, Councilman

**MEMBER AT LARGE**

Janet Chalupnik

Ph 206.343.8800

1.800.552.3565

Fax 206.343.7522

www.pscleanair.org

# Puget Sound Air Pollution Control Agency

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

Registration No. 17771

Notice of  
Construction No. 4382

Date MAY 17 1995

Two gas fired Cleaver Brooks CB200-800-150 Boilers at 26 MMBtu/hr output in the 24-40 Building.

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BOEING COMMERCIAL AIRPLANE-FREDERKSN  
PO BOX 3707, M/S 30-AX  
SEATTLE WA 98124-2207

O BOEING COMMERCIAL AIRPLANE-FREDERKSN  
W PO BOX 3707, M/S 30-AX  
N  
E  
R SEATTLE WA 98124-2207

### INSTALLATION ADDRESS

BOEING COMMERCIAL AIRPLANE-FREDERKSN, 18001 CANYON RD E (FREDERICKSON), PUYALLUP, WA, 98373

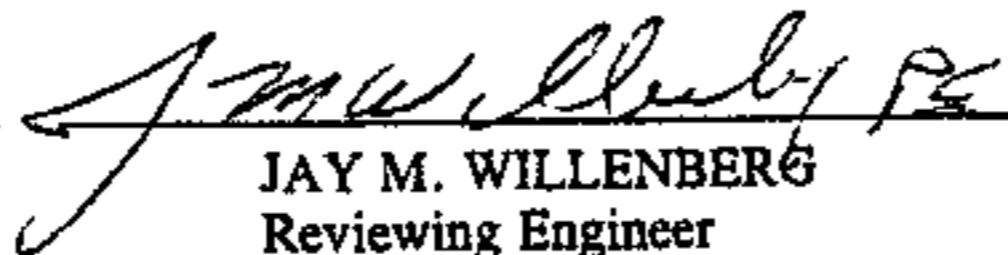
THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Air Pollution Control 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 PSAPCA.
2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I, II or III, RCW 70.94 or any other emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply. Section 5.05(e) of Regulation I requires that the owner or operator must develop and implement an operation and maintenance (O&M) plan to assure continuous compliance with Regulations I, II, and III.
3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. The emissions of NOx from these boilers shall not exceed 0.1 lb/MMBtu when firing natural gas.
5. This Order of Approval No. 4382 issued to remove previous Condition Nos. 4 and 6 hereby supersedes and cancels Order of Approval No. 4382 dated Apr 2, 1992.

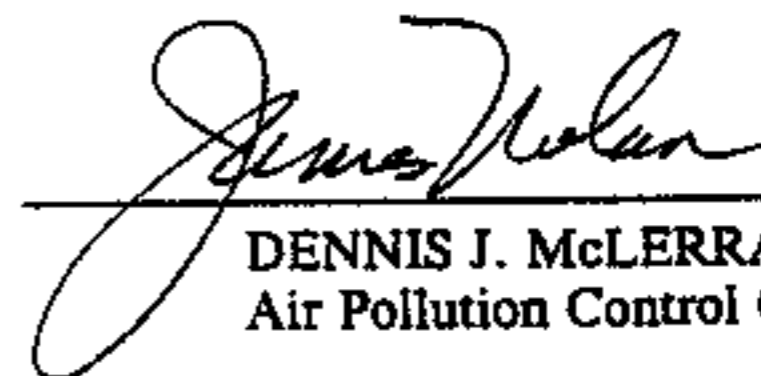


ABIGAIL C. LEE  
Reviewing Engineer

MEJ



JAY M. WILLENBERG  
Reviewing Engineer



DENNIS J. McLERRAN  
Air Pollution Control Officer



# Puget Sound Clean Air Agency

Notice of Construction No. 4382

Registration No. 17771

Date JUN 12 2001

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

Two gas fired Cleaver Brooks CB200-800-150 Boilers at 26 MMBtu/hr output in the 24-40 Building.

**APPLICANT**

Peter Weickmann, A-1320  
Boeing Commercial Airplane-Frederickson  
PO Box 3707, MC 5R-14  
Seattle, WA 98124-2207

**OWNER**

Boeing Commercial Airplane-Frederickson  
PO Box 3707, MC 5R-14  
Seattle, WA 98124-2207

**INSTALLATION ADDRESS**

Boeing Commercial Airplane-Frederickson, 18001 Canyon Rd E (Frederickson), Puyallup, WA, 98373

**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 emissions of NOx from these boilers shall not exceed 0.1 lb/MMBtu when firing natural gas.
4. Boeing (Frederickson) shall keep monthly records of the natural gas fuel use for the two Cleaver Brooks CB200-800-150 gas fired boilers. Boeing (Frederickson) shall comply with all other applicable requirements as stated in 40 CFR 60 Subpart Dc.
5. This Order of Approval No. 4382, modified to reduce fuel usage recordkeeping frequency from daily to monthly for gas fired boilers subject to 40 CFR 60 Subpart Dc, hereby supersedes and cancels Orders of Approval No. 4382 dated Apr 2, 1992 and May 17, 1995.

**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*  
Agata McIntyre  
Reviewing Engineer  
mej

*Steven Van Slyke*  
Steven Van Slyke  
Reviewing Engineer

*Dennis J. McLerran*  
Dennis J. McLerran  
Air Pollution Control Officer

BOEING-FREDERICKSON SITE  
SKIN & SPAR BUILDING

NC# 3909  
Page 1 of 4

Description	SOURCE			Emission Control Devices	# of Emission Points	Emissions/Surface Conversion Coat Tank Makeup	Comments
	Number of Units	Size	Location				
Natural Gas Fired Boilers	2	27 MMBTU/hr	West of skin and Spar Bldg.	-	2	Natural Gas Combustion Products	Firm gas contract Diesel backup fuel
Paint Booth	1	241,500 cfm	Col M-N 5.7	Dry Filters, Electrostatic or equivalent paint spray guns	4	Paint solvents, paint over spray particulate	4 exhaust ducts @ 60,375 cfm each.
Paint Dryer Oven	1	5,000 cfm	Col M-N 5.9	-	1	Paint solvents	2.4 MMBTU/hr
Sludge dryer	1	TBD *	East of Skin & Spar in Waste Treatment Plant	Scrubber	1	Dried sludge	"G1" on Source Summary Map
<b>Aluminum Tankline</b>							
T3 TEA Alkaline Etch	1	45,000 cfm	Col M-N 4.2	Exhaust fan	1	NaOH (50%) 8,330 gal Na <sub>2</sub> S 10,290 lbs TEA 2,107 gal Turco Etch #3 10,780 lbs Alketch 36,750 lbs	
T5 Utility Hold	1	45,000 cfm	Col M-N 4.5	Exhaust fan	1	Any solution in the tankline	
T6 Deoxidizer (chrome)	1	45,000 cfm	Col M-N 4.8	Scrubber	2	AmChem #6 3,430 gal Nitric Acid 4,900 gal	"S2" on Source Summary

\* TBD = To Be Determined

**BOEING-FREDERICKSON SITE  
SKIN & SPAR BUILDING**

NC# 3909  
Page 2 of 4

Description	SOURCE			Emission Control Devices	# of Emission Points	Emissions/Surface Conversion Coat Tank Makeup		Comments
	Number of Units	Size	Location					
T8 Chromic Acid Anodize	1	46,000 cfm	Col M-N 5.0	Chrome Scrubber	2	CrO <sub>3</sub>	16,320 lbs	Scrubbers will meet 0.006 mg/amp-hr chrome (+6) emission requirement "S3" on Source Summary Map
T11 Dilute Chrome Seal	1	66,500 cfm	Col M-N 5.3	Exhaust fan	2	CrO <sub>3</sub> Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> Water	28 lbs 28 lbs 49,000 gal	
T12 Oakite Alkaline Etch	1	29,000 cfm	Col M-N 1.3	Exhaust fan	1	Oakite 160	6,375 - 10,675 lbs	
T14 Oxidizer (Aldox V)	1	29,000 cfm	Col M-N 1.7	Scrubber	2	Nitric Acid Aldox V FC-95/99	11,900 - 12,500 gal 5,100 gal 110 lbs	"S1" on Source Summary Map
T17 Penetrant Application	1	29,000 cfm	Col M-N 2.1	Exhaust fan	1	Sherwin HM 406 (not classified as a health hazard)		-
T20 Penetrant Developer	1	29,000 cfm	Col M-N 2.3	Baghouse	1	Ardrox 9D76 (not classified as a health hazard)		-

\* TBD = To Be Determined

BOEING-FREDERICKSON SITE  
SKIN & SPAR BUILDING

NC# 3909  
Page 3 of 4

Description	SOURCE			Emission Control Devices	# of Emission Points	Emissions/Surface Conversion Coats Tank Makeup	Comments
	Number of Units	Size	Location				
Skin Peeners	2	25,650 cfm	East of Col L7.5 outside bldg	Baghouse	2	Steel dust, aluminum dust	"P1" on Source Summary Map
Skin Peeners	1	16,029 cfm	East of Col L7.3 outside bldg	Baghouse	1	Steel dust, aluminum dust	"P2" on Source Summary Map
Edge Peener	1	5,000 cfm	East of Col L7.2 outside bldg	Baghouse/ Cyclone	1	Steel dust, aluminum dust	"P3" on Source Summary Map
Stringer Blast	2	1 @ 7,450 cfm 1 @ 6,650 cfm	West of Col K20 outside	Baghouse	2	Blast Grit Aluminum Dust	"P4" on Source Summary Map
Spar Mill Chip Collectors	11	13,800 cfm	North of Col C-F1.0 outside bldg	Baghouse/ Cyclone	11	Aluminum Chips and Dust	"M1" on Source Summary Map
Skin Mill Chip Collectors	6	17,000 cfm	South of Col C-D 9.0 outside bldg	Baghouse/ Cyclone	6	Aluminum Chips and Dust	"M2" on Source Summary Map
Drill Router Dust Collectors	4	8,000 cfm	North of Col G-H 1.0 outside bldg	Baghouse/ Cyclone	4	Aluminum Chips and Dust	"M3" on Source Summary Map

\* TBD - To Be Determined

**BOEING-FREDERICKSON SITE  
SKIN & SPAR BUILDING**

Description	SOURCE			Emission Control Devices	# of Emission Points	Emissions/Surface Conversion Coat Tank Makeup	Comments
	Number of Units	Size	Location				
Full through Router Dust Collectors	1	5,000 cfm	North of Col C 1.0 outside bldg	Baghouse/ Cyclone	1	Aluminum Chips and Dust	"M4" on Source Summary Map
Pneumatic Dust Collectors	2	16,800 cfm	West of Col A-3	Baghouse/ Cyclone	2	Aluminum Chips and Dust	"D2" on Source Summary Map
Briquetter Storage Bin Filler	3	8,400 cfm	West of Col A-3	Baghouse	3	Aluminum Chips and Dust	"D1" on Source Summary Map
Floor Sweep Dust Collectors	7	8,400 cfm	Outside of bldg	Baghouse/ Cyclone	7	Aluminum Chips and Dust	"F1" on Source Summary Map

\* TBD = To Be Determined



# Puget Sound Air Pollution Control Agency

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

Notice of  
Construction No. 7746

Registration No. 17771

Date **MAY 5 1999**

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 Frederickson site.

## APPLICANT

Edward J Cierebiej  
Boeing Commercial Airplane (Frederickson)  
PO Box 3707 MC 5R-14  
Seattle, WA 98124-2207

## OWNER

Boeing Commercial Airplane (Frederickson)  
PO Box 3707 MC 5R-14  
Seattle, WA 98124-2207

## INSTALLATION ADDRESS

Boeing Commercial Airplane (Frederickson), 18001 Canyon Rd E, Puyallup, WA, 98373

## 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 Air Pollution Control 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 PSAPCA.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. Boeing shall limit the use of Aerosol Temporary Protective Coating (TPC) to touch-up operations at Boeing Frederickson.

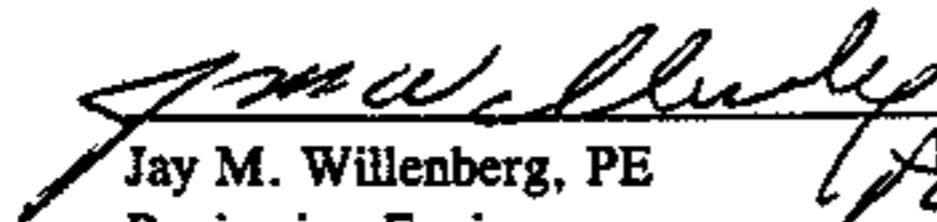
## APPEAL RIGHTS

Pursuant to PSAPCA'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 PSAPCA within 30 days of the date the applicant receives this Order.



Abigail Lee  
Reviewing Engineer

mej



Jay M. Willenberg, PE  
Reviewing Engineer



Dennis J. McLerran  
Air Pollution Control Officer



# Puget Sound Air Pollution Control Agency

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

Notice of  
Construction No. 7726

Registration No. 17771

Date MAY 28 1999

An Alternate Means of Compliance, as allowed by Regulation I, Section 3.23, to comply with Regulation II, Section 3.08(b) to conduct non-spray application of products containing styrene, outside of a spray enclosure, in areas other than enclosed, vertically exhausted booths throughout the Boeing Frederickson plant.

## APPLICANT

Edward J Cierebiej  
Boeing Commercial Airplane  
PO Box 3707, MC 5R-14  
Seattle, WA 98124-2207

## OWNER

Boeing Commercial Airplane  
PO Box 3707, MC 5R-14  
Seattle, WA 98124-2207

## INSTALLATION ADDRESS

Boeing Commercial Airplane (Frederickson), 18001 Canyon Rd E (Fredrickson), Puyallup, WA, 98373

## 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 Air Pollution Control 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 PSAPCA.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. Boeing shall 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.
4. Boeing Frederickson shall limit application of products containing styrene outside of a ventilated booth enclosure to brush or other hand-application methods.
5. This Order of Approval No. 7726, issued to amend Condition No. 3, hereby supersedes and cancels Order of Approval No. 7726 dated Mar 12, 1999.

## APPEAL RIGHTS

Pursuant to PSAPCA'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 PSAPCA within 30 days of the date the applicant receives this Order.

Abigail Lee  
Reviewing Engineer

mej

Jay M. Willenberg, PE  
Reviewing Engineer

Dennis J. McLerran  
Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

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

Registration No. 17771

Notice of Construction No. 7467

Date JUL 17 1998

One Donaldson 176RFW-8 Pulse Jet Baghouse rated at 13,800 cfm to serve the Spar Mill in Bldg 24-60 used for collecting aluminum chips and dust.

CHARLES R AUSTIN, FAB DIVISION

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BOEING COMMERCIAL AIRPLANE-FREDRKSN

PO BOX 3707, M/S 5R-14

SEATTLE WA 98124-2207

O BOEING COMMERCIAL AIRPLANE-FREDRKSN

W PO BOX 3707, M/S 5R-14

R SEATTLE WA 98124-2207

## INSTALLATION ADDRESS

BOEING COMMERCIAL AIRPLANE-FREDRKSN, 18001 CANYON RD E (FREDERICKSON), PUYALLUP, WA, 98373

## 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 Air Pollution Control 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 PSAPCA.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. Boeing shall install and maintain a gauge to measure the pressure drop across the baghouse filters. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.
4. 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.
5. Boeing's Operation and Maintenance Plan shall include procedures for monthly inspections of the baghouse, or other frequency based on equipment history, production rates or equipment usage.

## APPEAL RIGHTS

Pursuant to PSAPCA'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 PSAPCA within 30 days of the date the applicant receives the Order.

*Abigail C. Lee*

ABIGAIL C. LEE  
Reviewing Engineer

MEJ

*Jay M. Willenberg*

JAY M. WILLENBERG  
Reviewing Engineer

*David O. Kin*

DENNIS J. McLERRAN  
for Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

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

Registration No. 17771

Notice of  
Construction No. 3909

Date MAY 20 1997

In Skin & Spar Bldg: one spray booth, four scrubbers on two tanks, 40 dust collectors on aluminum milling, shot peening and blasting operations, and one baghouse for the Penetrant Developer Tank.

JENETTE RAMOS

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BOEING COMMERCIAL AIRPLANE-FREDERKSN  
PO BOX 3707, M/S 5H-09  
SEATTLE WA 98124-2207

O BOEING COMMERCIAL AIRPLANE-FREDERKSN  
W PO BOX 3707, M/S 5H-09  
N SEATTLE WA 98124-2207  
E  
R

### INSTALLATION ADDRESS

BOEING COMMERCIAL AIRPLANE-FREDERKSN, 18001 CANYON RD E (FREDERICKSON), PUYALLUP, WA, 98373

### 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 Air Pollution Control 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 PSAPCA.
2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I, II or III, RCW 70.94 or any other emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply. Section 5.05(e) of Regulation I requires that the owner or operator must develop and implement an operation and maintenance (O&M) plan to assure continuous compliance with Regulations I, II, and III.
3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. This Order of Approval No. 3909, issued to amend equipment description, hereby supersedes and cancels Order of Approval No. 3909 dated May 17, 1995.

*Abigail C. Lee*

ABIGAIL C. LEE  
Reviewing Engineer

MEJ

*Jay M. Wilenberg*

JAY M. WILLENBERG  
Reviewing Engineer

*David D. Kieran*

for DENNIS J. McLERRAN  
Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

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

Registration No. 17771

Notice of  
Construction No. 7466

Date JUL 17 1998

One Donaldson 176RFW-8 Pulse Jet Baghouse rated at 13,800 cfm to serve the Spar Mill in Bldg 24-60, to replace a Drill Router Baghouse (MSS# #59194) permitted under Order of Approval No. 3909, used for collecting aluminum chips and dust.

CHARLES R AUSTIN, FAB DIVISION

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BOEING COMMERCIAL AIRPLANE-FREDRKSN

PO BOX 3707, M/S 5R-14

SEATTLE

WA 98124-2207

O BOEING COMMERCIAL AIRPLANE-FREDRKSN

PO BOX 3707, M/S 5R-14

SEATTLE

WA 98124-2207

## INSTALLATION ADDRESS

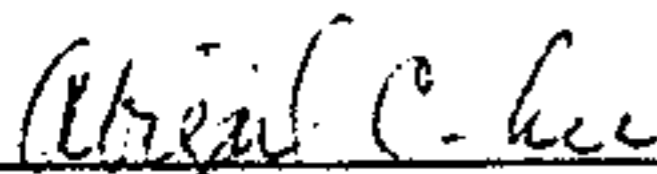
BOEING COMMERCIAL AIRPLANE-FREDRKSN, 18001 CANYON RD E (FREDERICKSON), PUYALLUP, WA, 98373

## 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 Air Pollution Control 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 PSAPCA.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. Boeing shall install and maintain a gauge to measure the pressure drop across the baghouse filters. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.
4. 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.
5. Boeing's Operation and Maintenance Plan shall include procedures for monthly inspections of the baghouse, or other frequency based on equipment history, production rates or equipment usage.

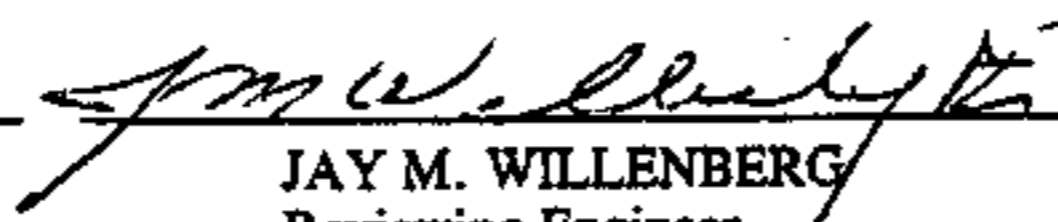
## APPEAL RIGHTS

Pursuant to PSAPCA'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 PSAPCA within 30 days of the date the applicant receives the Order.

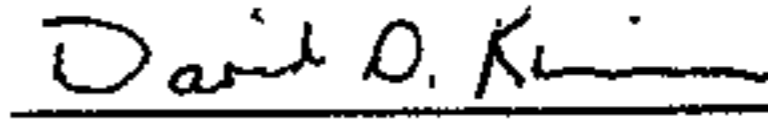


ABIGAIL C. LEE  
Reviewing Engineer

MEJ



JAY M. WILLENBERG  
Reviewing Engineer



DENNIS J. McLERRAN  
Air Pollution Control Officer



# Puget Sound Air Pollution Control Agency

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

Notice of  
Construction No. 7466

Registration No. 17771

Date JUN 23 1999

One Donaldson 176RFW-8 Pulse Jet Baghouse rated at 13,800 cfm to serve the Spar Mill in Bldg 24-60, to replace a Drill Router Baghouse (MSS# #59194) permitted under Order of Approval No. 3909, used for collecting aluminum chips and dust.

## APPLICANT

Edward J Cierebiej  
Boeing Commercial Airplane (Frederickson)  
PO Box 3707, MC 5R-14  
Seattle, WA 98124-2207

## OWNER

Boeing Commercial Airplane (Frederickson)  
PO Box 3707, MC 5R-14  
Seattle, WA 98124-2207

## INSTALLATION ADDRESS

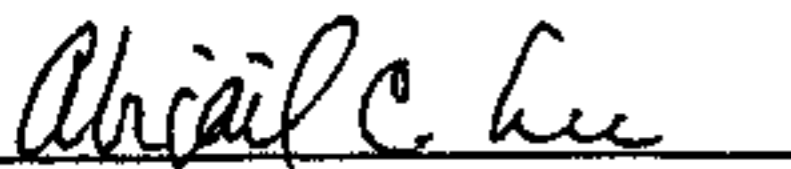
Boeing Commercial Airplane (Frederickson), 18001 Canyon Rd E, Puyallup, WA, 98373

## 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 Air Pollution Control 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 PSAPCA.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. Boeing shall install and maintain a gauge to measure the pressure drop across the baghouse filters. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.
4. 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.
5. This Order of Approval No. 7466, issued to amend conditions to be more consistent with those used in recent NOCs, hereby supersedes and cancels Order of Approval No. 7466 dated Jul 17, 1998.

## APPEAL RIGHTS

Pursuant to PSAPCA'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 PSAPCA within 30 days of the date the applicant receives this Order.

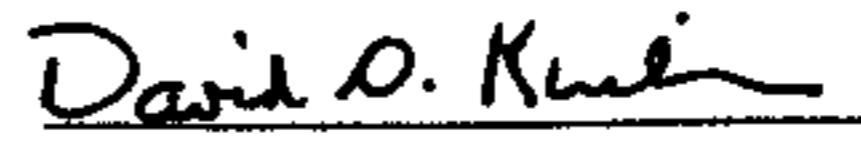


Abigail Lee  
Reviewing Engineer

mej



for Jay M. Willenberg, PE  
Reviewing Engineer



for Dennis J. McLerran  
Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

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

Registration No. 17771

Notice of  
Construction No. 4853

Date MAR 4 1993

Twelve Cyclone/Baghouse Collection Systems for collecting the composite dust with the vacuum systems from the factory floor of Bldg 24-50 (Empennage Facility).

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BOEING COMMERCIAL AIRPLANE-FREDERKSN  
PO BOX 3707, M/S 30-AX  
SEATTLE WA 98124-2207

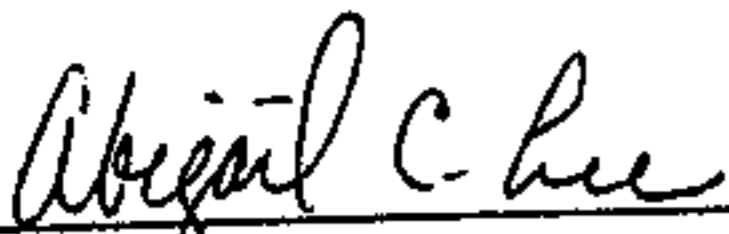
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BOEING COMMERCIAL AIRPLANE-FREDERKSN  
PO BOX 3707, M/S 30-AX  
SEATTLE WA 98124-2207

### INSTALLATION ADDRESS

BOEING COMMERCIAL AIRPLANE-FREDERKSN, 6222 184TH ST E (FREDERICKSON), PUYALLUP, WA, 98373

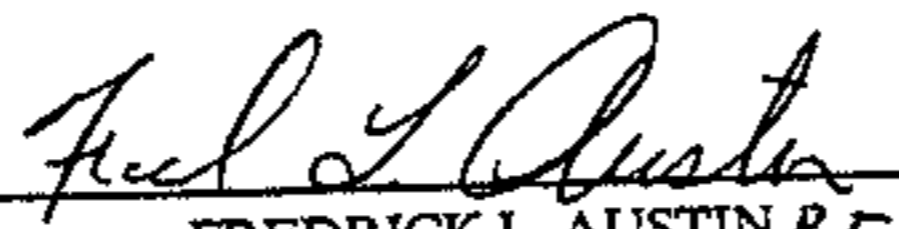
### THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Air Pollution Control 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 PSAPCA.
2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I, II or III, RCW 70.94 or any other emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply. Section 5.05(e) of Regulation I requires that the owner or operator must develop and implement an operation and maintenance (O&M) plan to assure continuous compliance with Regulations I, II, and III.
3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.




ABIGAIL C. LEE  
Reviewing Engineer

MEJ



FREDRICK L. AUSTIN P.E.  
Reviewing Engineer



for ANITA J. FRANKEL  
Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

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

Registration No. 17771

Notice of  
Construction No. 4736

Date DEC 11 1992

One Dustex CJUD - 12500 Abrasive Dust Collector at 60,000 cfm to collect dust from the Sand/Fill Booth for Composite Parts, and one Detail Paint Booth at 102,000 cfm (75F), one electric Detail Paint Cure Oven at 4,000 cfm (400F), and one Despatch 143776 Repair Oven at 4,000 cfm (400F), all located in the Composites Building 24-50.

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BOEING COMMERCIAL AIRPLANE-FREDERKSN

PO BOX 3707, M/S 57-04

SEATTLE

WA 98124-2207

BOEING COMMERCIAL AIRPLANE-FREDERKSN

PO BOX 3707, M/S 57-04

SEATTLE

WA 98124-2207

## INSTALLATION ADDRESS

BOEING COMMERCIAL AIRPLANE-FREDERKSN, 6222 184TH ST E (FREDERICKSON), PUYALLUP, WA, 98373

## 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 Air Pollution Control Agency to the applicant to install, alter 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 PSAPCA.
2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I, II or III, RCW 70.94 or any other emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply. Section 5.05(e) of Regulation I requires that the owner or operator must develop and implement an operation and maintenance (O&M) plan to assure continuous compliance with Regulations I, II, and III.
3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.

*Abigail C. Lee*

ABIGAIL C. LEE  
Reviewing Engineer

MEJ

*Fredrick L. Austin*

FREDRICK L. AUSTIN P.E.  
Reviewing Engineer

*David D. Kish*

for ANITA J. FRANKEL  
Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

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

Registration No. 17771

Notice of  
Construction No. 4682

Date OCT - 2 1992

One Deburring Machine with a TA Model 144 Wheelabrator Baghouse at 25,000 acfm in the Skin and Spar/Kitting Building.

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BOEING COMMERCIAL AIRPLANE-FREDERKSN  
PO BOX 3707, M/S 57-04  
SEATTLE WA 98124-2207

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BOEING COMMERCIAL AIRPLANE-FREDERKSN  
PO BOX 3707, M/S 57-04  
SEATTLE WA 98124-2207

### INSTALLATION ADDRESS


BOEING COMMERCIAL AIRPLANE-FREDERKSN, 6222 184TH ST E (FREDERICKSON), PUYALLUP, WA, 98373

### 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 Air Pollution Control Agency to the applicant to install, alter 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 PSAPCA.
2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I, II or III, RCW 70.94 or any other emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply. Section 5.05(e) of Regulation I requires that the owner or operator must develop and implement an operation and maintenance (O&M) plan to assure continuous compliance with Regulations I, II, and III.
3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.

  
HARRY A. WATTERS  
Reviewing Engineer

MEJ

  
ABIGAIL C. LEE  
Reviewing Engineer

  
for ANITA J. FRANKEL  
Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

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

Registration No. 17771

Notice of  
Construction No. 4681  
Date OCT - 2 1992

One Molten Salt Bath with an Enviroclear Systems AV 7.5H Scrubber at 7,500 cfm in the Skin and Spar/Kitting Building.

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BOEING COMMERCIAL AIRPLANE-FREDERKSN  
PO BOX 3707, M/S 57-04  
SEATTLE WA 98124-2207

O BOEING COMMERCIAL AIRPLANE-FREDERKSN  
W PO BOX 3707, M/S 57-04  
N SEATTLE WA 98124-2207  
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### INSTALLATION ADDRESS

BOEING COMMERCIAL AIRPLANE-FREDERKSN, 6222 184TH ST E (FREDERICKSON), PUYALLUP, WA, 98373

### 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 Air Pollution Control Agency to the applicant to install, alter 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 PSAPCA.
2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I, II or III, RCW 70.94 or any other emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply. Section 5.05(e) of Regulation I requires that the owner or operator must develop and implement an operation and maintenance (O&M) plan to assure continuous compliance with Regulations I, II, and III.
3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.

  
HARRY A. WATTERS  
Reviewing Engineer

MEJ

  
ABIGAIL C. LEE  
Reviewing Engineer

  
for ANITA J. FRANKEL  
Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

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

Registration No. 17771

Notice of  
Construction No. 4680

Date OCT - 2 1992

**One Load Bar Blast Cleaner with a DFT 2-8 Torit Downflo Dust Collector at 5,200 scfm in the Skin and Spar/Kitting Building.**

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BOEING COMMERCIAL AIRPLANE-FREDERKSN  
PO BOX 3707, M/S 57-04  
SEATTLE WA 98124-2207

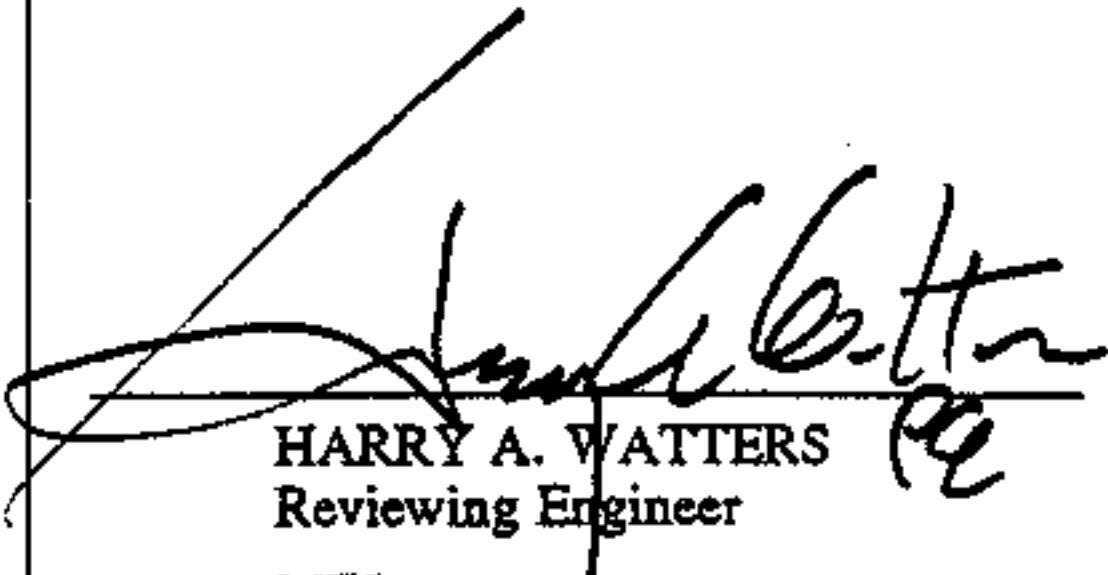
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BOEING COMMERCIAL AIRPLANE-FREDERKSN  
PO BOX 3707, M/S 57-04  
SEATTLE WA 98124-2207

### INSTALLATION ADDRESS


BOEING COMMERCIAL AIRPLANE-FREDERKSN, 6222 184TH ST E (FREDERICKSON), PUYALLUP, WA, 98373


### 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 Air Pollution Control Agency to the applicant to install, alter 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 PSAPCA.
2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I, II or III, RCW 70.94 or any other emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply. Section 5.05(e) of Regulation I requires that the owner or operator must develop and implement an operation and maintenance (O&M) plan to assure continuous compliance with Regulations I, II, and III.
3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.

  
HARRY A. WATTERS  
Reviewing Engineer

MEJ

  
ABIGAIL C. LEE  
Reviewing Engineer

  
for ANITA J. FRANKEL  
Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

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

Registration No. 17771

Notice of  
Construction No. 4658

Date SEP 01 1992

One Cleaver Brooks CB 200-800-15- #DP Boiler at 26.8 MMBtu/hr located in the Composites Building.

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BOEING COMMERCIAL AIRPLANE-FREDERKSN

PO BOX 3707, M/S 30-AX

SEATTLE

WA 98124-2207

O BOEING COMMERCIAL AIRPLANE-FREDERKSN

W PO BOX 3707, M/S 30-AX

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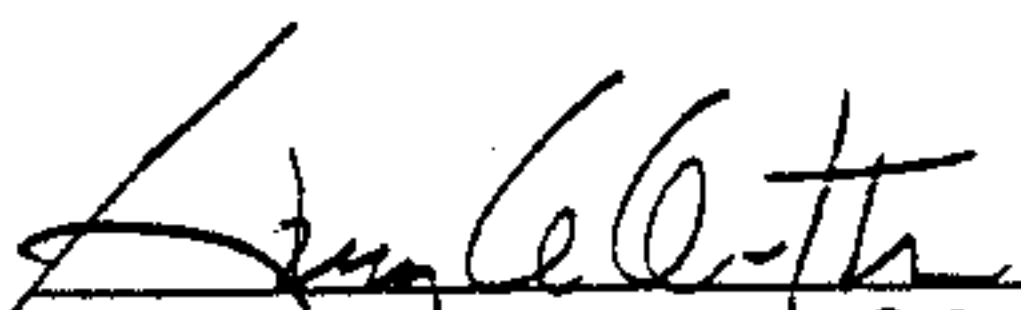
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## INSTALLATION ADDRESS

BOEING COMMERCIAL AIRPLANE-FREDERKSN, 6222 184TH ST E (FREDERICKSON), PUYALLUP, WA, 98373

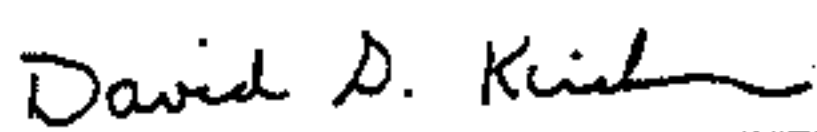
## THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Air Pollution Control Agency to the applicant to install, alter 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 PSAPCA.
2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I, II or III, RCW 70.94 or any other emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply. Section 5.05(e) of Regulation I requires that the owner or operator must develop and implement an operation and maintenance (O&M) plan to assure continuous compliance with Regulations I, II, and III.
3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.

  
HARRY A. WATTERS  
Reviewing Engineer

MEJ

  
ABIGAIL C. LEE  
Reviewing Engineer

  
ANITA J. FRANKEL  
Air Pollution Control Officer



# Puget Sound Clean Air Agency

Notice of Construction No. 4658  
Registration No. 17771  
Date JUN 12 2001

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

One Cleaver Brooks CB 200-800 Boiler rated at 26.8 MMBtu/hr located in the 24-40 Building.

### APPLICANT

Peter Weickmann  
Boeing Commercial Airplane-Frederickson  
PO Box 3707, A-1320, MC 5R-14  
Seattle, WA 98124-2207

### OWNER

Boeing Commercial Airplane-Frederickson  
PO Box 3707, MC 5R-14  
Seattle, WA 98124-2207

### INSTALLATION ADDRESS

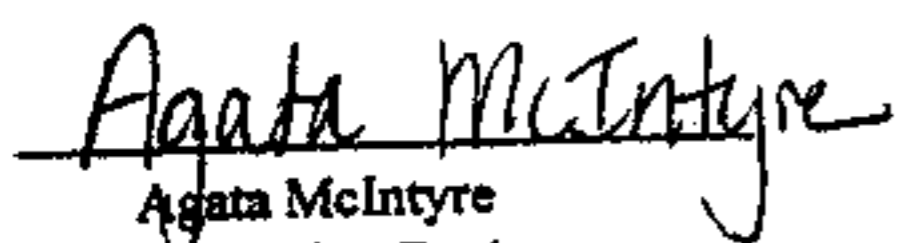
Boeing Commercial Airplane-Frederickson, 18001 Canyon Rd E, Puyallup, WA, 98373

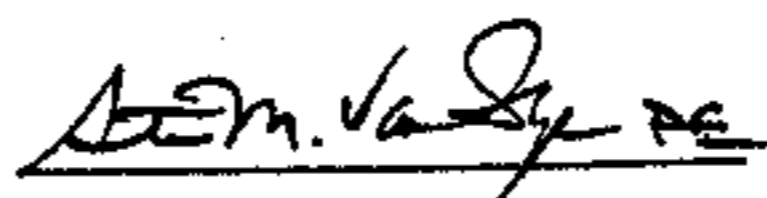
THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS


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 (Frederickson) shall keep monthly records of the natural gas fuel use for the Cleaver Brooks CB 200-800 gas fired boiler. Boeing (Frederickson) shall comply with all other applicable requirements as stated in 40 CFR 60 Subpart Dc.
4. This Order of Approval No. 4658, modified to reduce fuel usage recordkeeping frequency from daily to monthly for the gas fired boiler subject to 40 CFR 60 Subpart Dc, hereby supersedes and cancels Orders of Approval No. 4658 dated Sep 1, 1992.

### 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  
mej

  
Steven Van Slyke  
Reviewing Engineer

  
Dennis J. McLerran  
Air Pollution Control Officer

certify compliance with our current or future Air Operating Permits. In the interim, if you have any questions or concerns, please do not hesitate to contact me at the number below

Thank you,

Barbara J. Thompson  
Director Environmental Affairs  
Commercial Airplanes  
PO 3707 MS 20-13  
Seattle, WA 98124-2207

Phone: (206) 662-8938 Fax: (206) 662-7872

> E-mail: Barbara.J.Thompson@BOEING.com

>

# Puget Sound Air Pollution Control Agency

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

Registration No. 17771

Notice of  
Construction No. 4657

SEP 01 1992

Three Pitt-Des Moines Inc. natural gas fired Autoclaves; two at 35.2 MMBH, and one at 15.3 MMBH, located in the Composites Building.

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BOEING COMMERCIAL AIRPLANE-FREDERKSN

PO BOX 3707, M/S 30-AX

SEATTLE

WA 98124-2207

O BOEING COMMERCIAL AIRPLANE-FREDERKSN

PO BOX 3707, M/S 30-AX

SEATTLE

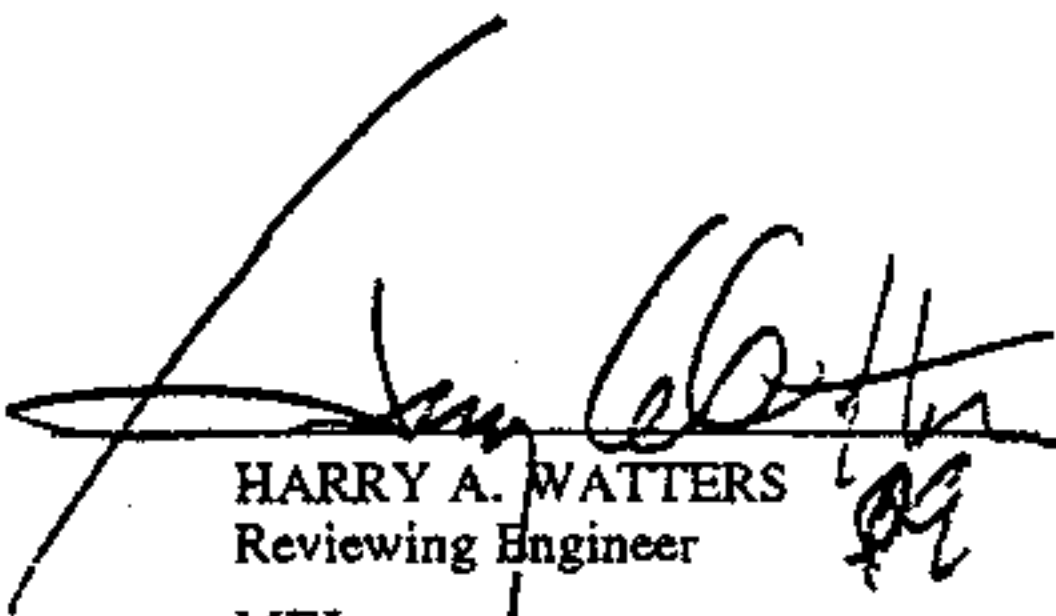
WA 98124-2207

## INSTALLATION ADDRESS


BOEING COMMERCIAL AIRPLANE-FREDERKSN, 6222 184TH ST E (FREDERICKSON), PUYALLUP, WA, 98373

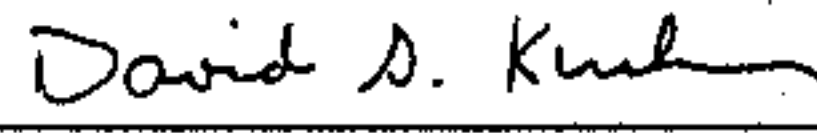
## THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Air Pollution Control Agency to the applicant to install, alter 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 PSAPCA.
2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I, II or III, RCW 70.94 or any other emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply. Section 5.05(e) of Regulation I requires that the owner or operator must develop and implement an operation and maintenance (O&M) plan to assure continuous compliance with Regulations I, II, and III.
3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.

  
HARRY A. WATTERS  
Reviewing Engineer

MEJ

  
ABIGAIL C. LEE  
Reviewing Engineer

  
ANITA J. FRANKEL  
Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

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

Registration No. 17771

Notice of  
Construction No. 3909

Date MAY 17 1995

In Skin & Spar Bldg: one spray booth, four scrubbers on two tanks, 32 cyclones and 40 baghouses on aluminum milling, shot peening and blasting operations, and one baghouse for the Penetrant Developer Tank.

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BOEING COMMERCIAL AIRPLANE-FREDERKSN  
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SEATTLE WA 98124-2207

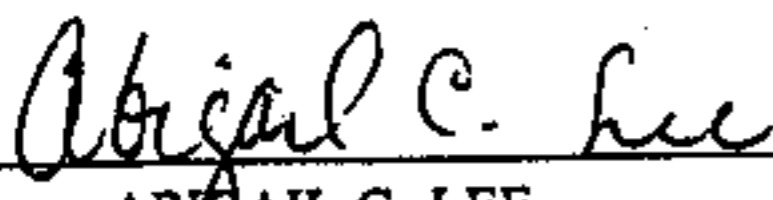
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BOEING COMMERCIAL AIRPLANE-FREDERKSN  
PO BOX 3707, M/S 30-AX  
SEATTLE WA 98124-2207

### INSTALLATION ADDRESS

BOEING COMMERCIAL AIRPLANE-FREDERKSN, 18001 CANYON RD E (FREDERICKSON), PUYALLUP, WA, 98373

### 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 Air Pollution Control 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 PSAPCA.
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3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. This Order of Approval No. 3909 issued to amend equipment description and to remove conditions hereby supersedes and cancels Order of Approval No. 3090 dated Oct 17, 1991.



ABIGAIL C. LEE  
Reviewing Engineer

MEJ



JAY M. WILLENBERG  
Reviewing Engineer



DENNIS J. McLERRAN  
Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

Registration No. 17771

Notice of Construction No. 3909

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

**OCT 17 1991**

In Skin & Spar Bldg (see attached for list of equipment location and size): two boilers (27 MMBH), one spray booth, one paint curing oven, seven scrubbers on three tanks and one sludge dryer, 32 cyclones and 40 baghouses on aluminum milling, shot peening and blasting operations, and one baghouse the Penetrant Developer Tank.

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### INSTALLATION ADDRESS

BOEING COMMERCIAL AIRPLANE-FREDERKSN, 6222 184TH ST E (FREDERICKSON), PUYALLUP, WA, 98373

### 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 Air Pollution Control Agency to the applicant to install, alter 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 PSAPCA.
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3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. This boiler is subject to 40 CFR 60, Subpart Dc.
5. The emissions of NOx from this boiler shall not exceed 0.1 lb/MMBTU when firing gas and 0.2 lb/MMBTU when firing #2 oil.
6. Boeing shall install a Continuous Emission Monitoring System (CEMS) for NOx. This CEMS shall meet the requirements of 40 CFR 60, Appendix B or of Article 12 of Regulation I, whichever is more stringent.
7. Boeing shall meet 0.006 mg(Cr+6)/amp-hr from its T8 Chromic Acid Anodize Tank and scrubbers and shall install and maintain an amp-hour meter pursuant to Regulation III.

  
HARRY A. WATTERS  
Reviewing Engineer

HAW

  
ANITA J. FRANKEL  
Air Pollution Control Officer

**Fosberg, John T**

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**From:** Thompson, Barbara J  
**Sent:** Monday, September 17, 2001 10:03 AM  
**To:** Verhaar, Michael L; Cierebiej, Edward J; Turvey, Jonathan D; Weickmann, Peter H; Keller, Charles R; Migaiolo, Frank J; Thomson, Kirk J; Bennett, Robin G; Warfield, Anthony G; Hudson, Jade J; Gere, David R; Welch, Neva M; May, Gary R; Williamson, Cynthia L; Cenci, Carole J; Moellendorf, Guy V; Fosberg, John T; Lords, Teresa E; Iwicki, Matt  
**Subject:** Confirmation from PSCAA: New NOC rule interpretation

In response to the E-mail of 8/31/2001, PSCAA is in agreement with our interpretation

Thank you,

Barbara J. Thompson  
BCAG SHEA M/C 20-13  
Phone: (206) 662-8938 Fax: (206) 662-7872  
> E-mail: Barbara.J.Thompson@BOEING.com

-----Original Message-----

**From:** Steve Van Slyke [<mailto:SteveV@psc Cleanair.org>]  
**Sent:** Friday, September 14, 2001 3:30 PM  
**To:** Barbara J Thompson (E-mail)  
**Cc:** Jim Nolan  
**Subject:** FW: New NOC rule interpretation

Barbara,

I needed to respond to your request for confirmation with respect to documentation requirements under Reg. I, Section 6.03(c). Your observations are correct. It is not necessary to maintain records for each exempted unit in order to certify compliance for Air Operating Permit requirements. Additionally, a timely response to a request for information which "documents" the basis for the exemption will meet our needs.

I would expect that this type of request would occur infrequently as the exemptions provide the benefit for new equipment installed from the adoption date moving forward. Also, I am assuming such a request for documentation would occur only in times when it is not clear to staff on an inspection team how some new equipment fits under the exemption list. I have suggested to the inspectors that they should not spend a great deal of time trying to research the regulatory interpretation during an inspection onsite. If new equipment is noted and it is not clear how an exemption would cover that installation, I've suggested the inspector ask the source to provide the documentation you've mentioned. It is my hope that the questions for all will be most frequent during the early months of this rule change implementation and that as more equipment is installed under the exemption allowances, the experience and resulting questions will decrease.

I also need note that equipment installed under the NOC exemption provisions will still be subject to general regulatory requirements found in the regulations (e.g. Reg. I, Section 9.03) and covered for those requirements in the operating permit terms and conditions. Also, we will not be using the exemptions under Section 6.03(c) to eliminate any existing NOC approval orders. This is a forward looking program intended to save time and money and revisiting history will not help on either need.

I hope this provides you the confirmation you needed. If you need more or have other questions, please feel free to contact me.

Steve Van Slyke  
Puget Sound Clean Air Agency  
110 Union St., Suite 500  
Seattle, WA 98101-2038

(206) 689-4052  
(206) 343-7522 (fax)

-----Original Message-----

From: Jim Nolan  
Sent: Friday, August 31, 2001 8:00 AM  
To: Steve Van Slyke  
Subject: FW: New NOC rule interpretation

Let's discuss Barb's request.

James Nolan, Director-Compliance  
Puget Sound Clean Air Agency  
110 Union St., Suite 500  
Seattle, WA 98115  
206-689-4053  
jimm@psc Clean Air.org

-----Original Message-----

From: Thompson, Barbara J [<mailto:barbara.j.thompson@Boeing.com>]  
Sent: Thursday, August 30, 2001 3:43 PM  
To: Jim Nolan (E-mail)  
Subject: New NOC rule interpretation

Jim,

Thank you for discussing the new NOC rule passed by the Board on July 12, 2001. Boeing's environmental team feels that the exemption lists in Reg. I:6.03(b) &(c) are an improvement to the current NOC rule. As you are aware, there are numerous emissions units and activities at our facilities that would qualify for exemption under Section 6.03(c), and we expect that many more will be added in the future.

Per our discussion, I would like to document our agreement regarding the new Section 6.03(c)'s provisions for documenting the applicability of these exemptions. Boeing understands that it will be considered to have met the requirement that "sufficient records are kept to document the exemption" if, upon request by the Agency, we provide in a timely manner any information reasonably necessary to demonstrate the applicability of the exemption. Physical evidence of the emissions unit or activity itself can oftentimes fully document the applicability of an exemption. For example, the nameplate on an emissions unit can document its "rated capacity." Similarly, simply observing an emissions unit or activity, such as "hand held sanding equipment," can sometimes fully demonstrate the applicability of an exemption.

We would appreciate your written confirmation of our understanding that if, upon request of your Agency, we produce in a timely manner any information reasonably necessary to demonstrate the applicability of an exemption for a particular emissions unit or activity then we will be considered to have met the requirements of Reg. I:6.03 (c), and the keeping of actual records for each exempted emissions unit or activity is not necessary in order to

cc: J. Nolan Puget Sound Clean Air Agency  
N. Schulman Puget Sound Clean Air Agency

K. Thomson Boeing Shared Services Group - Environmental Affairs  
M. Babich Boeing Commercial Airplanes - 737/757 Programs SHEA  
E. Cierebiej Boeing Commercial Airplanes - Fabrication Division SHEA  
D. Dornbush Boeing Aircraft and Missiles - Seattle Division SHEA  
F. Migaiolo Boeing Commercial Airplane - Everett Division SHEA

# Puget Sound Air Pollution Control Agency

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

Registration No. 17771

Notice of  
Construction No. 4382

Date APR 02 1992

Two gas fired Cleaver Brooks CB200-800-150 Boilers at 26 MMBtu/hr output in the 24-40 Building. This NC4382 supersedes NC3909 with respect to the requirement to install a NOx CEMSystem.

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## INSTALLATION ADDRESS

BOEING COMMERCIAL AIRPLANE-FREDERKSN, -6222 184TH ST E (FREDERICKSON), PUYALLUP, WA, 98373

## 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 Air Pollution Control Agency to the applicant to install, alter 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 PSAPCA.
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3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. These boilers are subject to 40 CFR 60, Subpart Dc.
5. The emissions of NOx from these boilers shall not exceed 0.1 lb/MMBTU when firing gas and 0.2 lb/MMBTU when firing #2 oil.
6. Boeing shall conduct a source test in accordance with a PSAPCA approved test plan to demonstrate compliance with Condition No. 5 within 90 days of the approval date of this NC4382.

  
HARRY A. WATTERS  
Reviewing Engineer

MEJ

  
ABIGAIL C. LEE  
Reviewing Engineer

  
ANITA J. FRANKEL  
Air Pollution Control Officer