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Puget Sound Clean Air Agency

AIR OPERATING PERMIT

Puget Sound Clean Air Agency
1904 3rd Avenue, Suite 105
Seattle, Washington 98101

Issued in accordance with the provisions of Puget Sound Clean Air Agency Regulation I, Article 7 and Chapter 173-401 WAC.

Pursuant to Puget Sound Clean Air Agency Regulation I, Article 7 and Chapter 173-401 WAC, Boeing Commercial Airplane Group Frederickson (Boeing Frederickson) facility is authorized to operate subject to the terms and conditions in this permit.

PERMIT NO.: 17771	**PERMIT RENEWAL ISSUANCE DATE: April 22, 2020**
ISSUED TO: Boeing Commercial Airplane Group Frederickson *Administrative Amendment: November 2, 2022, April 10, 2023, September 27, 2023*	
PERMIT EXPIRATION DATE: April 22, 2025	

NAICS, Primary:	336413
Nature of Business:	Other Aircraft Part and Auxiliary Equipment Manufacturing
Mailing Address:	PO Box 3707, MC 5A-214 Seattle, WA 98124-2207
Facility Address:	18001 Canyon Rd. E Puyallup, WA 98375
Responsible Official:	Danielle Brokens Frederickson Site Leader, Fabrication Division 253-985-0433

For information only:

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List of Abbreviations

ANESHAP	National Emissions Standard for Aerospace Manufacturing and Rework Facilities
ASTM	American Society for Testing and Materials
CFR	Code of Federal Regulations
CIC	Corrosion inhibiting compound
Ecology	Washington State Department of Ecology
EPA	Environmental Protection Agency
FCAA	Federal Clean Air Act
HAP	Hazardous Air Pollutants
NESHAP	National Emissions Standard for Hazardous Air Pollutants
NSPS	New Source Performance Standard
NO_x	Oxides of Nitrogen
NOCOA	Notice of Construction Order of Approval
O&M Plan	Operation and Maintenance Plan
PSCAA	Puget Sound Clean Air Agency
PSD	Prevention of Significant Deterioration
RCW	Revised Code of Washington
RICE	Reciprocating Internal Combustion Engine
SDS	Safety Data Sheets
SIP	State Implementation Plan
VOC	Volatile Organic Compounds
WAC	Washington Administrative Code

Section I: Facility-wide Emission Limits

The following tables list the citation for the "applicable requirement" and the adoption or effective date. In some cases, the effective dates of the "Federally Enforceable" requirement and the "*STATE ONLY*" requirement are different because either the state (or local authority) has not submitted the regulation to the Environmental Protection Agency (EPA) for approval into the State Implementation Plan (SIP), or the state (or local authority) has submitted it and the EPA has not yet approved it. "*STATE ONLY*" adoption dates are in italicized font, and shall be understood to include the Ecology and the Puget Sound Clean Air Agency (PSCAA). When the EPA does approve the new requirement into the SIP, the old requirement will be replaced and superseded by the new requirement. This replacement will take place automatically, with no changes being made to this permit until the permit is renewed. The new requirement will be enforceable by the EPA as well as PSCAA from the date that it is adopted into the SIP, and the old requirement will no longer be an applicable requirement. Some requirements in WAC 173-400-040 may be deleted from the PSCAA SIP if it is determined there is a corresponding rule being implemented by PSCAA that applies only to sources in our jurisdiction. In these cases, only the local rule will apply if EPA removes the requirement from the SIP. This is consistent with the language in the 12/29/12 version of WAC 173-400-020(1) that states "The provisions of this chapter shall apply statewide, except for specific subsections where a local authority has adopted and implemented corresponding local rules that apply only to sources subject to local jurisdiction as provided under RCW 70.94.141 and 70.94.331."

The first column (Reqmt. No.) is used as an identifier for the requirement, the second column (Enforceable Requirement) lists the citation for the applicable requirement, and the third column (Requirement Paraphrase) paraphrases the requirement.

The fourth column (Monitoring, Maintenance and Recordkeeping Method) identifies the activities that Boeing Frederickson shall use to monitor compliance with the applicable requirements identified in the second column. These methods are described in Section II of this permit.

The first and third columns are for information only and are not enforceable conditions of this permit. The actual enforceable requirement is embodied in the requirement cited in the second and fourth columns.

The fifth column (Reference Test Method) identifies the reference method that is to be used when a source test is required. In some cases where the applicable requirement does not cite a test method, one has been added. When the last column contains "N/A" this means a test method is not applicable to the requirement.

In the event of conflict or omission between the information contained in this table and the actual statute, regulation, order or permit cited in the second column, the requirements and language of the actual statute or regulation cited shall govern. For more information regarding any of the requirements cited in the second and third columns, refer to the actual requirements cited.

A. Facility-wide Applicable Requirement and General Provisions

1. PSCAA and Ecology Facility-Wide Applicable Requirements

The requirements in in Section I.A.1 apply facility-wide to all the emission units regulated by this permit except that monitoring methods specified elsewhere in the permit for specific applicable requirements for specific emission units or activities in Section I.B supersede the general monitoring requirements listed in Section I.A.1.

Table 1. PSCAA and Ecology Facility-wide Applicable Requirements

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section 7)
I.A.1.1	PSCAA Reg I: 9.03 (3/11/99) *(3/25/04) (State Only)* WAC 173-400-040(1)(a)&(b) (9/20/93) *Once EPA deletes the 9/20/93 version of the WAC from the PSCAA SIP, only Reg. I, Section 9.03 will apply*	Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour.	II.A.1.a. Opacity Monitoring II.A.1.b. Complaint Response II.A.1.c. Facility Inspections	Ecology Method 9A
I.A.1.2	PSCAA Reg. I: 9.09 (4/9/98)	Shall not emit particulate matter in excess of 0.05 grain/dscf from equipment used in a manufacturing process.	II.A.1.a. Opacity Monitoring II.A.1.b. Complaint Response II.A.1.c. Facility Inspections	PSCAA Method 5
I.A.1.3	WAC 173-400-060 (3/22/91) *Once EPA deletes the 3/22/91 version of the WAC from the PSCAA SIP, only Reg. I, Section 9.09 will apply.*	Shall not emit particulate matter in excess of 0.23 gram per dry cubic meter at standard conditions (0.1 grain/dscf) from general process units, uncorrected for excess air.	II.A.1.a. Opacity Monitoring II.A.1.b. Complaint Response II.A.1.c. Facility Inspections	EPA Method 5
I.A.1.4	PSCAA Reg I: 9.09 (4/9/98)	Shall not emit particulate matter in excess of 0.05 grain/dscf corrected to 7% O_2 from fuel burning equipment burning fuel other than wood, coal, or other solid fossil fuel (applies to the equipment that produces hot air, hot water, steam, or other heated fluids by external combustion of fuel. Examples include indirect-fired drying ovens and space heaters and water heaters). See definition of "fuel burning equipment" in PSCAA Reg. I, 1.07(l).	II.A.1.a. Opacity Monitoring II.A.1.b. Complaint Response II.A.1.c. Facility Inspections	PSCAA Method 5

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section 7)
I.A.1.5	WAC 173-400-050(1) & (3) (3/22/91)	(1) For combustion and incineration emissions units no person shall cause or permit emissions of particulate matter in excess of 0.23 gram per dry cubic meter at standard conditions (0.1 grain/dscf), except, for an emissions unit combusting wood derived fuels for the production of steam. No person shall allow or permit the emission of particulate matter in excess of 0.46 gram per dry cubic meter at standard conditions (0.2 grain/dscf), as measured by EPA method 5 or approved procedures contained in "Source Test Manual - Procedures For Compliance Testing," state of Ecology, as of July 12, 1990, on file at ecology. (3) Measured concentrations for combustion and incineration sources shall be adjusted for volumes corrected to seven percent oxygen.	II.A.1.a. Opacity Monitoring II.A.1.b. Complaint Response II.A.1.c. Facility Inspections	EPA Method 5
I.A.1.6	PSCAA Reg I: 9.07 (4/14/94) WAC 173-400-040(6) (9/20/93) *Once EPA deletes the 9/20/93 version of the WAC from the PSCAA SIP, only Reg. I, Section 9.07 will apply.*	Shall not emit SO_2 in excess of 1,000 ppmv (dry) for fuel burning equipment, based on a one-hour average and corrected to 7% O_2.	II.A.3.c. Fuel Oil Purchase Specification	EPA Method 6C
I.A.1.7	PSCAA Reg I: 9.11(a) *(3/11/99) (State Only)* WAC 173-400-040(5) (9/20/93) *Once EPA deletes the 9/29/93 version of the WAC from the PSCAA SIP, only Reg. I, Section 9.11(a) will apply.*	Shall not emit air contaminants in sufficient quantities and of such characteristics and duration as is, or is likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interferes with enjoyment of life and property	II.A.1.b. Complaint Response II.A.1.c. Facility Inspections	Not applicable

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section 7)
I.A.1.8	PSCAA Reg I: 9.15 (3/11/99) WAC 173-400-040(8) (9/20/93) *Once EPA deletes the 9/20/93 version of the WAC from the PSCAA SIP, only Reg. I, Section 9.15 will apply.*	It shall be unlawful for any person to cause or allow visible emissions of fugitive dust unless reasonable precautions are employed to minimize the emissions. Reasonable precautions include, but are not limited to, the following: (1) The use of control equipment, enclosures, and wet (or chemical) suppression techniques, as practical, and curtailment during high winds; (2) Surfacing roadways and parking areas with asphalt, concrete, or gravel; (3) Treating temporary, low-traffic areas (e.g., construction sites) with water or chemical stabilizers, reducing vehicle speeds, constructing pavement or rip rap exit aprons, and cleaning vehicle undercarriages before they exit to prevent the track-out of mud or dirt onto paved public roadways; or (4) Covering or wetting truck loads or allowing adequate freeboard to prevent the escape of dust-bearing materials.	II.A.1.b. Complaint Response II.A.1.c. Facility Inspections II.A.1.f. Fugitive Dust, Track-Out, and Odor Bearing Contaminants	Not applicable
I.A.1.9	WAC 173-400-040(3) (9/20/93) WAC 173-400-040(4) *(9/16/18) (State Only)* *This requirement will become federally enforceable upon adoption into the SIP and will replace the 9/20/93 version of WAC 173-400-040(3).*	If engaging in materials handling, construction, demolition or any other operation which is a source of fugitive emissions, Boeing Frederickson shall take reasonable precautions to prevent the release of air contaminants from the operation.	II.A.1.b. Complaint Response II.A.1.c. Facility Inspections II.A.1.f. Fugitive Dust, Track-Out, and Odor Bearing Contaminants	Not applicable
I.A.1.10	PSCAA Reg I: 9.20(b) (6/9/88)	Must maintain equipment not subject to PSCAA Reg. I, Section 9.20(a) in good working order.	II.A.1. Facility-Wide Monitoring II.A.2. O&M Plan Requirements	Not applicable
I.A.1.11	PSCAA Reg I: 7.09(b) (9/10/98) *(12/15/16) (State Only)*	Must develop and implement an Operation and Maintenance (O&M) Plan to assure continuous compliance with PSCAA Reg. I, II and III.	II.A.2. O&M Plan Requirements	Not applicable

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Reference Test Method (See Section 7)
I.A.1.12	WAC 173-400-040(3) (9/16/18) *(State Only)*	Shall not deposit particulate matter beyond property boundary in sufficient quantity to interfere unreasonably with the use and enjoyment of the property.	II.A.1.b. Complaint Response II.A.1.c. Facility Inspections	Not applicable
I.A.1.13	PSCAA Reg I: 9.10(a) *(6/9/88) (State Only)*	Shall not emit HCl in excess of 100 ppm (dry) for combustion sources, based on a one-hour average and corrected to 7% O_2.	No monitoring required	EPA Method 26A (See 40 CFR Part 60, Appendix A; July 1, 2000)

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

2. EPA New Source Performance Standards (NSPS) General Provisions

The requirements in Section I.A.2 are the general provisions of the federal NSPS. Boeing Frederickson must comply with the requirements listed below for "affected facilities" as defined in 40 CFR Part 60.2 if the applicable NSPS standard has been included for the affected facilities in Section I.B of this permit. The conditions in this section do not apply generally to all emission units at the facility.

Table 2. EPA NSPS General Provisions

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Applicable to affected facilities under the following 40 CFR 60 Subparts
I.A.2.1	40 CFR 60.1(a) (10/8/97) PSCAA Reg I: 6.11 (9/26/02) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	40 CFR Part 60 applies to any stationary source which contains an affected facility, the construction or modification of which is commenced after the date of publication in Part 60 of any standard applicable to the facility.	Dc
I.A.2.2	40 CFR 60.4 (8/23/19) PSCAA Reg I: 6.11 (9/26/02) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	All requests, reports, applications, submittals, and other communications to PSCAA pursuant to this part shall be submitted in duplicate to Director, Air and Waste Management Division, Region 10, U.S. EPA, 1200 Sixth Avenue, Seattle, WA 98101.	Dc
I.A.2.3	40 CFR 60.7(b) (2/12/99) PSCAA Reg I: 6.11 (9/26/02) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Must maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.	Dc
I.A.2.4	40 CFR 60.7(f) (2/12/99) PSCAA Reg I: 6.11 (9/26/02) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Must maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records except as described in §60.7(f)(1) through (f)(3). Note that AOP Section V.O.3 requires that this record be retained for five years.	Dc

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Applicable to affected facilities under the following 40 CFR 60 Subparts
I.A.2.5	40 CFR 60.11(d) (10/17/00) PSCAA Reg I: 6.11 (9/26/02) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	At all times, including periods of startup, shutdown, and malfunction, Boeing Frederickson shall, to the extent practicable, operate and maintain any affected facility, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operations and maintenance procedures, and inspection of the source.	Dc
I.A.2.6	40 CFR 60.11(f) (10/17/00) PSCAA Reg I: 6.11 (9/26/02) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Special provisions set forth under an applicable 40 CFR Part 60 subpart shall supersede any conflicting provisions in paragraphs §60.11(a) & (d).	Dc
I.A.2.7	40 CFR 60.11(g) (10/17/00) PSCAA Reg I: 6.11 (9/26/02) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any standard in this part, nothing in this part shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements of 40 CFR Part 60 if the appropriate performance or compliance test or procedure had been performed.	Dc
I.A.2.8	40 CFR 60.19(a) (02/12/99) PSCAA Reg I: 6.11 (9/26/02) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For purposes of 40 CFR Part 60, time periods specified in days shall be measured in calendar days, even if the word "calendar" is absent, unless otherwise specified in an applicable requirement.	Dc

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Applicable to affected facilities under the following 40 CFR 60 Subparts
I.A.2.9	40 CFR 60.19(b) (02/12/99) PSCAA Reg I: 6.11 (9/26/02) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	If an explicit postmark deadline is not specified in an applicable requirement for the submittal of a notification, application, report, or other written communication to PSCAA, the owner or operator shall postmark the submittal on or before the number of days specified in the applicable requirement. The use of reliable non-Government mail carriers that provide indications of verifiable delivery of information required to be submitted to PSCAA, similar to the postmark provided by the U.S. Postal Service, or alternative means of delivery, including the use of electronic media, agreed to by PSCAA, is acceptable.	Dc
I.A.2.10	40 CFR 60.19(c) & (d) (02/12/99) PSCAA Reg I: 6.11 (9/26/02) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Dates for the submittal of information and periodic reports may be changed consistent with 40 CFR 60.19(f) upon mutual agreement between Boeing Frederickson and PSCAA. For periodic reports, this allowance applies beginning 1 year after the affected facility is required to be in compliance with the applicable subpart in this part.	Dc

3. EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) General Provisions

The requirements in section 1.A.3 are the general provisions of the federal National Emission Standards for Hazardous Air Pollutants (NESHAP). Boeing Frederickson must comply with the requirements listed below for "affected sources" as defined in 40 CFR Part 63.2 if the applicable NESHAP standard has been included for the affected facilities in Section I.B of this permit. The conditions in this section do not apply generally to all emission units at the facility.

Table 3. EPA NESHAP General Provisions

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Applicable to affected sources under the following 40 CFR 63 Subparts
I.A.3.1	40 CFR 63.1(a)(4) & (c)(1) (4/5/02) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson must comply with any relevant standards established under 40 CFR 63, Subpart GG, Subpart ZZZZ, and Subpart DDDDD. Boeing Frederickson must also comply with the provisions of 40 CFR 63, Subpart A to the extent that they are explicitly identified as being included in Subpart GG, Subpart ZZZZ, and Subpart DDDDD.	GG DDDDD ZZZZ
I.A.3.2	40 CFR 63.6(b)(2) (4/20/06) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	New and reconstructed affected sources that have an initial startup after the effective date of any specific applicable subparts must comply with the requirements of that specific applicable subpart upon startup.	GG DDDDD ZZZZ
I.A.3.3	40 CFR 63.6(c) (4/20/06) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Existing affected sources must comply with the specific applicable subpart by the compliance date established by the Administrator in that subpart.	GG, except for 40 CFR 63.6(c)(2)-(4) DDDDD ZZZZ
I.A.3.4	40 CFR 63.6(e)(1) (4/20/06) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	At all times, including startup, shutdown and malfunction, must operate and maintain affected sources consistent with safety and good air pollution control practice for minimizing emissions. Malfunctions must be corrected as soon as practicable after their occurrence. During periods of startup, shutdown, or malfunction, reduce emissions to the greatest extent which is consistent with safety and good air pollution control practices.	

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Applicable to affected sources under the following 40 CFR 63 Subparts
I.A.3.5	40 CFR 63.6(f) (4/20/06) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	The nonopacity emission standards set forth in 40 CFR Part 63 shall apply at all times except during periods of startup, shutdown and malfunction as set forth in specific applicable subparts. If a startup, shutdown, or malfunction of one portion of an affected source does not affect the ability of particular emission points within other portions of the affected source to comply with the non-opacity emission standards set forth in this part, then those emission points must still comply with any applicable non-opacity emission standards and other applicable requirements.	GG, except for 40 CFR 63.6(f)(1) DDDDD, except for 40 CFR 63.6(f)(1)
I.A.3.6	40 CFR 63.8(b)(1) (11/14/18) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Monitoring shall be conducted as set forth in specific applicable subparts unless (i) PSCAA specifies or approves the use of minor or intermediate changes in methodology for the specified monitoring requirements and procedures (see §63.90(a) for definition); or (ii) the EPA Administrator approves the use of a major change or alternative to any monitoring requirements or procedures (see §63.90(a) for definition).	GG DDDDD ZZZZ
I.A.3.7	40 CFR 63.8(f) (11/14/18) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Before using an alternative monitoring method, Boeing Frederickson must receive permission from: (i) PSCAA for minor or intermediate changes in methodology for the specified monitoring requirements and procedures (see §63.90(a) for definition); or (ii) the EPA Administrator for a major change or alternative to any monitoring requirements or procedures (see §63.90(a) for definition).	GG, except for 40 CFR 63.8(f)(2)(viii) DDDDD ZZZZ
I.A.3.8	40 CFR 63.9(a)(4)(ii) (5/30/03) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson shall submit notifications to PSCAA as specified in §63.9(a)(4).	GG DDDDD ZZZZ
I.A.3.9	40 CFR 63.9(c) (5/30/03) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	If Boeing Frederickson cannot comply with a relevant standard by the applicable compliance date, Boeing Frederickson may submit to the PSCAA a request for an extension of compliance as specified in 40 CFR 63.6(i)(4) through 40 CFR 63.6(i)(6).	GG DDDDD

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Applicable to affected sources under the following 40 CFR 63 Subparts
I.A.3.10	40 CFR 63.9(h) (5/30/03) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson shall provide notification to PSCAA regarding its compliance status with specific applicable Part 63 subparts as specified in this AOP.	GG, except for 40 CFR 63.9(h)(2) DDDDD
I.A.3.11	40 CFR 63.9(i) (5/30/03) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Adjustment to time periods or postmark deadlines for submittal and review of required communications may be requested from and approved by the PSCAA.	GG DDDDD
I.A.3.12	40 CFR 63.9(j) (5/30/03) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Any change in information already provided under 40 CFR 63.9 shall be sent to the PSCAA within 15 days.	GG DDDDD
I.A.3.13	40 CFR 63.10(a)(3) & (7) (4/20/06) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson must send reports to the PSCAA according to 40 CFR 63.10(a)(3)-(7) and may request changes to report due dates.	GG DDDDD ZZZZ
I.A.3.14	40 CFR 63.10(b)(1) (4/20/06) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson shall retain records for five years. At a minimum, the most recent two years of data shall be retained on site. The remaining three years of data may be off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.	GG DDDDD ZZZZ

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Applicable to affected sources under the following 40 CFR 63 Subparts
I.A.3.15	40 CFR 63.10(b)(2) (4/20/06) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson shall maintain relevant records of startups, shutdowns, malfunctions, maintenance, corrective actions, monitoring, measurements, and testing in accordance with 40 CFR 63.10(b)(2) based on applicability in the specific subparts listed in this requirement. Boeing Frederickson shall maintain all documentation supporting initial notifications and notifications of compliance status under 40 CFR 63.9.	GG, except for 40 CFR 63.10(b)(2)(i), (ii), (iv), (v), (vii)(A) – (C) DDDDD
I.A.3.16	40 CFR 63.10(b)(3) (4/20/06) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson shall keep records of an inapplicability determination for 5 years after the determination.	GG DDDDD ZZZZ
I.A.3.17	40 CFR 63.10(d)(1) (4/20/06) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson shall submit reports in accordance with requirements in specific applicable NESHAPs.	GG DDDDD ZZZZ
I.A.3.18	40 CFR 63.10(f) (4/20/06) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson must comply with the recordkeeping and reporting requirements in 40 CFR 63.10, unless a minor change to recordkeeping/reporting is granted by the PSCAA or a major change to recordkeeping/reporting is granted by the EPA Administrator.	GG DDDDD ZZZZ

B. Emission Unit Specific Applicable Requirements

The requirements in Section I.B. only apply to the specific emission units or activities cited; however, the requirements in Section I.A. also apply. If a requirement in Section I.A. is repeated in this section, then the monitoring, maintenance, and recordkeeping method specified in this section supersedes the monitoring, maintenance, and recordkeeping method specified in Section I.A.

The first part of each subsection in Section I.B. lists a description of the emission-producing operation and identifying information about each associated specific emission unit or activity, including the building number, the column and door number (grid system for locating points within the buildings if available), a Boeing Frederickson inventory control identification number (MSS/ID#), the Order of Approval (OA) number for equipment that has gone through the new source review process, the installation date and a short description of the emission unit or activity. This information, which is in italics, is not an enforceable part of the permit. Because of the size of the facility and its complexity, the information is provided as an aid in understanding the permit and locating the specific emission point or activity.

The tables that follow include a description of an emission-producing operation and identifying information about its associated emission units and activities describe the applicable requirements for those emission units and activities. The tables are arranged with the federal requirements first, state and local requirements second, and site specific Notice of Construction Order of Approval (NOCOA) and Prevention of Significant Deterioration (PSD), if any, permits last. The numbering of the requirements in column one of the tables follow this format.

1. Coating, Cleaning, and Depainting Operations

This section includes all activities and equipment associated with surface coating, cleaning, and depainting operations that have specific applicable requirements other than the general requirements in Section I.A. These operations may include coating mixing, application, drying, and curing; spray gun cleaning; solvent wipe and solvent flush cleaning; depainting; and material and waste handling. Examples of equipment involved in these activities may include spray booths, paint hangars, solvent cleaning benches, and gun cleaning units.

The table below includes activities and equipment that received an NOCOA or were registered with PSCAA. This table does not necessarily include all activities and equipment that may be subject to the requirements of this section; activities and equipment that have not received an NOCOA or were not previously registered with the PSCAA may not be included in the table. For spray booths, the last column in the table indicates whether the Aerospace NESHAP (ANESHAP)-regulated coatings containing inorganic HAPs may be sprayed at the equipment at the time of permit issuance. However, any of the activities and equipment listed below might have such coatings sprayed in them in the future, and in some cases a modification to the activities and equipment and/or an amendment or modification to the existing NOCOA might be required. Data in italics are for information only and are not enforceable conditions of this permit.

Bldg.	Col/Dr	MSS/ID#	NOCOA	Date Installed	Source Description	ANESHAP Coatings with Inorganic HAP Used in Unit?
24-60	*M/N 5.7*	*60107*	*3909*	*1992*	*241,500 cfm Spray Coating Booth - Dry Filter*	*Yes*
24-50	*C.5/3.5*	*59279*	*11792*	*2019*	*102,000 cfm Spray Coating Booth - Dry Filter*	*Yes*

Table 4. Applicable Requirements – Coating, Cleaning, and Depainting Operations

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
ANESHAP Applicability & Exemptions Requirements in this section are related to the applicability and exemptions of the Aerospace NESHAP, 40 CFR 63, Subpart GG.			
I.B.1.1	40 CFR 63.741(b) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson must comply with Subparts GG and A, except as specified in 40 CFR 63.743(a) and Table 1 of Subpart GG.	II.B.1. Coating, Cleaning, and Depainting Operations, Monitoring, Maintenance and Recordkeeping Methods
I.B.1.2	40 CFR 63.741(c) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Affected sources are specified in 40 CFR 63.741(c)(1) through (8). The activities subject to the ANESHAP requirements are limited to the manufacture or rework of aerospace vehicles or components as defined in the regulation. Where a dispute arises relating to the applicability of Subpart GG to a specific activity, Boeing Frederickson shall demonstrate that the activity is not regulated under Subpart GG.	No monitoring required

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.3	40 CFR 63.741(f) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	This subpart does not regulate research and development, quality control, and laboratory testing activities, chemical milling, metal finishing, electrodeposition (except for electrodeposition of paints), composites processing (except for cleaning and coating of composite parts or components that become part of an aerospace vehicle or component as well as composite tooling that comes in contact with such composite parts or components prior to cure), electronic parts and assemblies (except for cleaning and topcoating of completed assemblies), manufacture of aircraft transparencies, and wastewater operations at aerospace facilities. These requirements do not apply to the rework of aircraft or aircraft components if the holder of the Federal Aviation Administration (FAA) design approval, or the holder's licensee, is not actively manufacturing the aircraft or aircraft components. These requirements also do not apply to parts and assemblies not critical to the vehicle's structural integrity or flight performance. The requirements of this subpart do not apply to primers, topcoats, specialty coatings, chemical milling maskants, strippers, cleaning solvents that meet the definition of non-HAP material, as determined from manufacturer's representations, such as in a safety data sheet or product data sheet, or testing, except that if an owner or operator chooses to include one or more non-HAP primer, topcoat, specialty coating, or chemical milling maskant in averaging under §63.743(d), then the recordkeeping requirements of §63.752(c)(4) shall apply. The requirements of this subpart also do not apply to primers, topcoats, and specialty coatings that meet the definition of "classified national security information" in §63.742.	No monitoring required

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.4	40 CFR 63.741(g) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	The requirements for primers, topcoats, specialty coatings and chemical milling maskants in 40 CFR 63.745 and 40 CFR 63.747 do not apply to the use of low-volume coatings in these categories for which the annual total of each separate formulation used at a facility does not exceed 189 liter (l) (50 gallons [gal]), and the combined annual total of all such primers, topcoats, specialty coatings, and chemical milling maskants used at a facility does not exceed 757 l (200 gal). Primers, topcoats, and specialty coatings exempted under paragraph (f) of this section and under §63.745(f)(3) and (g)(4) are not included in the 50 and 200 gallon limits.	No monitoring required
I.B.1.5	40 CFR 63.741(h) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Regulated activities associated with space vehicles are exempt from the requirements of the ANESHAP, except for depainting operations in 40 CFR 63.746.	No monitoring required
I.B.1.6	40 CFR 63.741(i) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Waterborne coatings for which the manufactured supplied data demonstrate that the organic HAP and Volatile Organic Compound (VOC) contents are less than or equal to the organic HAP and VOC content limits for its coating type are exempt from 40 CFR 63.745(d)-(e), 63.747(d)-(e), 63.749(d) and (h), 63.750(c)-(h) and (k)-(n), 63.752(c) and (f), and 63.753(c) and (e). For exempt waterborne coatings, Boeing Frederickson shall maintain manufacturer's supplied data on HAP and VOC content and annual purchase records for each exempt waterborne coating and retain for 5 years.	II.A.3.b. Documentation on File
I.B.1.7	40 CFR 63.741(j) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	ANESHAP does not apply to rework on antique vehicles or components.	No monitoring required

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.8	40 CFR 63.743(c) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Requirements for the use of air pollution control device not listed in this subpart.	No monitoring required
I.B.1.9	40 CFR 63.743(d) (12/7/15) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Facilities may choose to comply with averaging provisions herein rather than individual coating limits in 40 CFR 63.745, and 40 CFR 63.747. If choosing to comply with averaging provisions, Boeing Frederickson shall use any combination of primers, topcoats (including self-priming topcoats), specialty coatings, Type I chemical milling maskants, or Type II chemical milling maskants such that the monthly volume-weighted average organic HAP and VOC contents of the combination of primers, topcoats, specialty coatings, Type I chemical milling maskants, or Type II chemical milling maskants, as determined in accordance with the applicable procedures set forth in 40 CFR 63.750, complies with the specified content limits in 40 CFR 63.745(c), and 40 CFR 63.747(c). Averaging is allowed only for uncontrolled primers, topcoats (including self-priming topcoats), specialty coatings, Type I chemical milling maskants, or Type II chemical milling maskants. Averaging is not allowed for the following: between specialty coating types in Appendix A to 40 CFR Part 63 Subpart GG; between primers and topcoats (including self-priming topcoats); between Type I and Type II chemical milling maskants; between primers and chemical milling maskants; between topcoats and chemical milling maskants; between primers and specialty coatings, between topcoats and specialty coatings; or between chemical milling maskants and specialty coatings.	II.B.1.e. ANESHAP Coating Operations Monitoring and Recordkeeping II.B.1.g. ANESHAP Averaging Scheme for Primer, Topcoat and Specialty Coatings

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.10	40 CFR 63.743(e) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	At all times, Boeing Frederickson must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require Boeing Frederickson to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source	II.A.1.c Facility Inspection II.A.2. O&M Plan Requirements
I.B.1.11	40 CFR 63.746(a) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	ANESHAP depainting requirements in 40 CFR 63.746 do not apply to a facility that depaints six or less completed aerospace vehicles in a calendar year.	No monitoring required
I.B.1.12	40 CFR 63.749(a) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	New and reconstructed affected sources that have an initial startup after the effective date of 40 CFR 63 Subpart GG must comply with the requirements of 40 CFR 63 Subpart GG upon startup and shall comply with the compliance dates specified in §63.6(b) and (c) as indicated in Table 1 to Subpart GG.	No monitoring required
I.B.1.13	40 CFR 63.751(e) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson must receive permission from the PSCAA or the EPA Administrator before using an alternative monitoring procedure. PSCAA specifies or approves the use of minor or intermediate changes in methodology for the specified monitoring requirements and procedures (see §63.90(a) for definition); the EPA Administrator approves the use of a major change or alternative to any monitoring requirements or procedures (see §63.90(a) for definition).	No monitoring required

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.14	40 CFR 63.751(f) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Reduction of monitoring data. All emission data shall be converted into units specified in this subpart for reporting purposes. After conversion into units specified in this subpart, the data may be rounded to the same number of significant digits as used in this subpart to specify the emission limit.	No monitoring required
ANESHAP Cleaning Requirements found in this section are the ANESHAP requirements related to the cleaning of aerospace parts and spray equipment. The manufacturer's supplied data is sufficient to demonstrate compliance with the solvent composition requirements in the ANESHAP, unless another method is specifically required by the NESHAP.			
I.B.1.15	40 CFR 63.744 Table 1 (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Aqueous cleaners are ≥80 percent water, have flash points > 200°F and are miscible with water. Hydrocarbon based cleaners are mixtures of photo-chemically reactive hydrocarbons and oxygenated hydrocarbons, have a maximum vapor pressure of 7 mm Hg at 20°C, and contain no HAP.	No monitoring required.
I.B.1.16	40 CFR 63.744(a) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson must comply with housekeeping measures for cleaning operations in 40 CFR 63.744(a)(1) through (4) unless using solvents that are identified in Table 1 of 40 CFR 63.744, as aqueous cleaners or hydrocarbon-based cleaners, or that meet the definition of "Non-HAP material" in 40 CFR 63.742. The requirements in 40 CFR 63.744 (a)(1) through (4) of 63.744 do not apply to spent cleaning solvents, and solvent-laden applicators that are subject to and handled and stored in compliance with 40 CFR parts 262 through 268 (including the air emission control requirements in 40 CFR part 265, subpart CC).	II.A.1.d. Work Practice Inspection

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.17	40 CFR 63.744(a)(1) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Unless Boeing Frederickson satisfies the requirements in 40 CFR 63.744(a)(4), place cleaning solvent-laden cloth, paper, or any other absorbent applicators used for cleaning in bags or other closed containers upon completing their use. Use bags and containers of such design so as to contain the vapors of the cleaning solvent. "Completing their use" means when cleaning operation is completed or before leaving for a break or end shift, whichever comes first.	II.A.1.d. Work Practice Inspection
I.B.1.18	40 CFR 63.744(a)(1) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Cotton-tipped swabs used for very small cleaning operations are exempt from the requirements of 40 CFR 63.744(a)(1).	No monitoring required
I.B.1.19	40 CFR 63.744(a)(2) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Unless Boeing Frederickson satisfies the requirements 40 CFR 63.744(a)(4), fresh and spent cleaning solvents, except semi-aqueous solvent cleaners, must be stored in closed containers.	II.A.1.d. Work Practice Inspection
I.B.1.20	40 CFR 63.744(a)(3) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Handling and transfer of cleaning solvents must be conducted in a manner as to minimize spills.	II.A.1.d. Work Practice Inspection
I.B.1.21	40 CFR 63.744(a)(4) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Prior to using an alternative measure in place of the closed container requirement for solvent-laden materials described in 40 CFR 63.744(a)(1) or the requirements pertaining to storage of solvent as described in 40 CFR 63.744(a)(2), Boeing Frederickson shall demonstrate to PSCAA that equivalent or better alternative measures are in place compared to the requirements described in 40 CFR 63.744(a)(1) or (a)(2).	II.A.1.d. Work Practice Inspection II.A.3.b. Documentation on File

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.22	40 CFR 63.744(b) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Cleaning solvent solutions that contain HAP or VOC below the de minimis levels specified in 40 CFR 63.741(f) are exempt from the requirements in 40 CFR 63.744 (b)(1), (b)(2), and (b)(3).	No monitoring required
I.B.1.23	40 CFR 63.744(b) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Hand-wipe cleaning solvent (excluding solvents used for cleaning of spray gun equipment performed in accordance with 40 CFR 63.744(c)) must meet the aqueous or hydrocarbon-based composition requirements in Table 1 of 40 CFR 63.744, or have composite vapor pressure of 45 mm Hg or less @ 20°C.	II.B.1.d. ANESHAP Cleaning Operations Monitoring and Recordkeeping

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.24	40 CFR 63.744(c) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Must use one or more of the following techniques, or their equivalent, to clean spray gun equipment: • Enclosed system cleaning: clean spray gun equipment in an enclosed system that is closed at all times except when inserting or removing the spray gun. Cleaning shall consist of forcing solvent through gun. • Nonatomized cleaning: clean spray gun equipment by placing cleaning solvent in the pressure pot and forcing it through the gun with the atomizing cap in place. No atomizing air is to be used. Direct the cleaning solvent from the gun into a vat, drum, or the waste container that is closed when not in use. • Disassembled cleaning: disassemble the spray gun equipment and clean the components by hand in a vat, which shall remain closed at all times except when in use; or soak components in a vat, which shall remain closed during the soaking period and when not inserting or removing components. • Atomizing cleaning: Clean spray gun equipment by forcing the cleaning solvent through the gun and directing the resulting atomized spray into a waste container that is fitted with a device designed to capture the atomized cleaning solvent emissions. • Cleaning of nozzle tips of automated spray equipment systems, except for robotic systems programmed to spray into a closed container, is exempt from the requirements of 40 CFR 63.744(c)(1)-(4). Spray gun cleaning solvent solutions that contain HAP or VOC below the de minimis levels specified in 40 CFR 63.741(f) are exempt from the requirements in 40 CFR 63.744(c)(1)-(4).	II.A.1.d. Work Practice Inspection II.B.1.c. ANESHAP Enclosed Spray Gun Cleaning Systems, Monitoring, Maintenance and Recordkeeping

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.25	40 CFR 63.744(d) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Flush cleaning operations, excluding those in which solvents listed in Table 1 of 40 CFR 63.744, or semi-aqueous cleaning solvents are used: Boeing Frederickson shall empty the used cleaning solvent each time aerospace parts, assemblies, or components of a coating unit (with the exception of spray guns) are flush cleaned into an enclosed container or collection system that is kept closed when not in use or into a system with equivalent emission control.	II.A.1.d. Work Practice Inspection
I.B.1.26	40 CFR 63.744(e) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	The following cleaning operations are exempt from the requirements of 40 CFR 63.744(b) for hand-wipe cleaning: (1) Cleaning during the manufacture, assembly, installation, maintenance, or testing of components of breathing oxygen systems that are exposed to the breathing oxygen; (2) Cleaning during manufacture, assembly, installation maintenance or testing of parts, subassemblies, or assemblies that are exposed to strong oxidizers or reducers (e.g., nitrogen tetraoxide, liquid oxygen, or hydrazine); (3) Cleaning and surface activation prior to adhesive bonding; (4) Cleaning of electronic parts and assemblies containing electronic parts; (5) Cleaning of aircraft and ground support equipment fluid systems that are exposed to the fluid, including air-to-air heat exchangers and hydraulic fluid system; (6) Cleaning of fuel cells, fuel tanks, and confined spaces; (7) Surface cleaning of solar cells, coated optics, and thermal control surfaces; (8) Cleaning during fabrication, assembly, installation and maintenance of upholstery, curtains, carpet, and other textile materials used in the interior of the aircraft; (9) Cleaning of metallic and nonmetallic materials used in honeycomb cores during the manufacture or maintenance of these cores, and cleaning of the completed cores used in the manufacture of aerospace vehicles or components; (10) Cleaning of aircraft transparencies, polycarbonate, or glass substrates;	No monitoring required

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
		(11) Cleaning and cleaning solvent usage associated with research and development, quality control, and laboratory testing; (12) Cleaning operations, using nonflammable liquids, conducted within five feet of energized electrical systems. Energized electrical systems means any AC or DC electrical circuit on an assembled aircraft once electrical power is connected, including interior passenger and cargo areas, wheel wells and tail sections; and; (13) Cleaning operations identified as essential uses under the Montreal Protocol for which the Administrator has allocated essential use allowances or exemption in 40 CFR 82.4.	
I.B.1.27	40 CFR 63.749(c) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Each cleaning operation subject to ANESHAP shall be considered in noncompliance if Boeing Frederickson fails to institute and carry out the housekeeping measures required under 40 CFR 63.744(a). Incidental emissions resulting from the activation of pressure release vents and valves on enclosed cleaning systems are exempt from this paragraph.	II.A.1.d. Work Practice Inspection
I.B.1.28	40 CFR 63.749(c)(1) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	An affected hand-wipe cleaning operation shall be considered in compliance when all hand-wipe cleaning solvents, excluding those used for hand cleaning of spray gun equipment under §63.744(c)(3), meet either the composition requirements specified in §63.744(b)(1) or the vapor pressure requirement specified in §63.744(b)(2).	II.A.1.d. Work Practice Inspection

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.29	40 CFR 63.749(c)(2) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	An affected spray gun cleaning operation shall be considered in compliance when each of the following conditions is met: (i) One of the four techniques specified in §63.744(c)(1) through (c)(4) is used; (ii) The technique selected is operated according to the procedures specified in §63.744(c)(1) through (c)(4) as appropriate; and (iii) If an enclosed system is used, monthly visual inspections are conducted and any leak detected is repaired within 15 days after detection. If the leak is not repaired by the 15th day after detection, the solvent shall be removed and the enclosed cleaner shall be shut down until the cleaner is repaired or its use is permanently discontinued.	II.A.1.d. Work Practice Inspection II.B.1.c. ANESHAP Enclosed Spray Gun Cleaning Systems, Monitoring, Maintenance and Recordkeeping
I.B.1.30	40 CFR 63.749(c)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	An affected flush cleaning operation shall be considered in compliance if the operating requirements specified in §63.744(d) are implemented and carried out.	II.A.1.d. Work Practice Inspection
I.B.1.31	40 CFR 63.750(a) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson shall demonstrate compliance with solvent composition using manufacturer's data. The data shall identify all components of the cleaning solvent and shall demonstrate that one of the approved composition definitions is met.	II.B.1.d. ANESHAP Cleaning Operations Monitoring and Recordkeeping
I.B.1.32	40 CFR 63.750(b) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson shall follow 40 CFR 63.750(b) to determine the vapor pressure of hand-wipe cleaning solvents.	II.B.1.d. ANESHAP Cleaning Operations Monitoring and Recordkeeping

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
ANESHAP Coating Requirements in this section are the ANESHAP requirements related to aerospace coating operations. The ANESHAP requirements only apply to aerospace primer, topcoat, and specialty coating application operations as defined in 40 CFR 63.741(c)(2), (3), & (4) and 40 CFR 63.742. The manufacturer's supplied data is sufficient to demonstrate compliance with the solvent and coating composition requirements in the ANESHAP, unless another method is specifically required by the NESHAP.			
I.B.1.33	40 CFR 63.745(a) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Aerospace equipment that is no longer operational, intended for public display, and not easily capable of being moved is exempt from the requirements of 40 CFR 63.745	No monitoring required
I.B.1.34	40 CFR 63.745(b) (12/7/15) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson shall conduct handling and transfer of HAP-containing primers, topcoats, and specialty coatings in such a manner to minimize spills.	II.A.1.d. Work Practice Inspection
I.B.1.35	40 CFR 63.745(a) (12/7/15) 40 CFR 63.745(c)(1) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Organic HAP emissions from primers shall be limited to an organic HAP content level of no more than: • 650 g/L (5.4 lb/gal) of exterior primer (less water), as applied, to large commercial aircraft components (parts or assemblies) or fully assembled, large commercial aircraft at existing affected sources that produce fully assembled, large commercial aircraft; or • 350 g/L (2.9 lb/gal) of primer (less water), as applied.	II.B.1.e. ANESHAP Coating Operations Monitoring and Recordkeeping II.B.1.g. ANESHAP Averaging Scheme for Primer, Topcoat and Specialty Coatings

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.36	40 CFR 63.745(a) (12/7/15) 40 CFR 63.745(c)(2) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	VOC emissions from primers shall be limited to a VOC content level of no more than: • 650 g/L (5.4 lb/gal) of exterior primer (less water and exempt solvents), as applied, to large commercial aircraft components (parts or assemblies) or fully assembled, large commercial aircraft at existing affected sources that produce fully assembled, large commercial aircraft; or • 350 g/L (2.9 lb/gal) of primer (less water and exempt solvents), as applied.	II.B.1.e. ANESHAP Coating Operations Monitoring and Recordkeeping II.B.1.g. ANESHAP Averaging Scheme for Primer, Topcoat and Specialty Coatings
I.B.1.37	40 CFR 63.745(a) (12/7/15) 40 CFR 63.745(c)(3) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Organic HAP content level of topcoats and self-priming topcoats is limited to 420 g/L (3.5 lb/gal) of coating (less water), as applied.	II.B.1.e. ANESHAP Coating Operations Monitoring and Recordkeeping II.B.1.g. ANESHAP Averaging Scheme for Primer, Topcoat and Specialty Coatings
I.B.1.38	40 CFR 63.745(a) (12/7/15) 40 CFR 63.745(c)(4) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	VOC content level of topcoats and self-priming topcoats is limited to 420 g/L (3.5 lb/gal) of coating (less water and exempt solvents), as applied.	II.B.1.e. ANESHAP Coating Operations Monitoring and Recordkeeping II.B.1.g. ANESHAP Averaging Scheme for Primer, Topcoat and Specialty Coatings
I.B.1.39	40 CFR 63.745(a) (12/7/15) 40 CFR 63.745(c)(5) (12/7/15) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Organic HAP emissions from specialty coatings shall be limited to an organic HAP content level of no more than the HAP content limit specified in Table 1 of 40 CFR 63.745 for each applicable specialty coating type.	II.B.1.e. ANESHAP Coating Operations Monitoring and Recordkeeping II.B.1.g. ANESHAP Averaging Scheme for Primer, Topcoat and Specialty Coatings

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.40	40 CFR 63.745(a) (12/7/15) 40 CFR 63.745(c)(6) (12/7/15) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	VOC emissions from specialty coatings shall be limited to a VOC content level of no more than the VOC content limit specified in Table 1 of 40 CFR 63.745 for each applicable specialty coating type.	II.B.1.e. ANESHAP Coating Operations Monitoring and Recordkeeping II.B.1.g. ANESHAP Averaging Scheme for Primer, Topcoat and Specialty Coatings
I.B.1.41	40 CFR 63.745(e) (12/7/15) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Compliance with the organic HAP and VOC content limits specified in 40 CFR 63.745(c)(1) through (c)(6), shall be accomplished by using the methods specified in 40 CFR 63.745(e)(1) and (e)(2) either by themselves or in conjunction with one another. (1) Use primers and topcoats (including self-priming topcoats), and specialty coatings with HAP and VOC content levels equal to or less than the limits specified in 40 CFR 63.745(c)(1) through (c)(6), or (2) Use the averaging provisions described in 40 CFR 63.743(d).	II.B.1.e. ANESHAP Coating Operations Monitoring and Recordkeeping II.B.1.g. ANESHAP Averaging Scheme for Primer, Topcoat and Specialty Coatings
I.B.1.42	40 CFR 63.745(f)(1) 40 CFR 63.745(f)(2) (12/7/15) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Specific primer, topcoat, and specialty coating application techniques identified in 40 CFR 63.745(f)(1) are required; must be operated according to company procedures, locally specified operating procedures, and/or manufacturer's specifications, whichever is most stringent as specified in 40 CFR 63.745(f)(2). Modified guns must maintain transfer efficiency equivalent to HVLP, electrostatic, airless, or air assisted airless spray application techniques.	II.A.1.d. Work Practice Inspection
I.B.1.43	40 CFR 63.745(f)(3) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Certain situations are exempt from the requirements of 40 CFR 63.745(f)(1), including the use of airbrush equipment, hand-held aerosol cans, and touch-up and repair operations. Preval hand-held aerosol cans with a non-refillable pressurized portion qualify for the exemption under 40 CFR 63.745(f)(3)(v).	No monitoring required

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.44	40 CFR 63.749(d)(1) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Organic HAP and VOC content levels. For uncontrolled coatings that are not averaged, each 24 hours is considered a performance test. For compliant and non-compliant coatings that are averaged together, each 30-day period is considered a performance test, unless the PSCAA specifies a shorter averaging period as part of an ambient ozone control program.	II.B.1.e. ANESHAP Coating Operations Monitoring and Recordkeeping
I.B.1.45	40 CFR 63.749(d)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	The primer application operation is considered in compliance when the conditions specified in 40 CFR 63.749(d)(3)(i), (d)(3)(iii) through (d)(3)(iv), as applicable, and in 40 CFR 63.749(e) are met. Failure to meet any one of the conditions identified in these paragraphs shall constitute noncompliance. The compliance demonstration for a primer may be based on the organic HAP content or the VOC content of the primer; demonstrating compliance with both the HAP content limit and the VOC content limit is not required. If a primer contains HAP solvents that are exempt from the definition of VOC in 40 CFR 63.741 and 40 CFR 51.100, then the HAP content must be used to demonstrate compliance.	II.A.1.d. Work Practice Inspection II.B.1.e. ANESHAP Coating Operations Monitoring and Recordkeeping II.B.1.g. ANESHAP Averaging Scheme for Primer, Topcoat and Specialty Coatings
I.B.1.46	40 CFR 63.749(d)(3)(i) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For all uncontrolled primers, all values of H_i and H_a (as determined using the procedures specified in 40 CFR 63.750(c) and (d)) are less than or equal to the applicable HAP content limit in 40 CFR 63.745(c)(1), and all values of G_i and G_a (as determined using the procedures specified in §63.750(e) and (f)) are less than or equal to the applicable VOC content limit in 40 CFR 63.745(c)(2).	II.B.1.e. ANESHAP Coating Operations Monitoring and Recordkeeping II.B.1.g. ANESHAP Averaging Scheme for Primer, Topcoat and Specialty Coatings
I.B.1.47	40 CFR 63.749(d)(3)(iii) (8/3/16) 40 CFR 63.749(d)(4)(iii) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	(A) Uses an application technique specified in §63.745(f)(1)(i) through (f)(1)(viii), or (B) Uses an alternative application technique, as allowed under §63.745(f)(1)(ix), such that the emissions of both organic HAP and VOC for the implementation period of the alternative application method are less than or equal to the emissions generated using HVLP or electrostatic spray application methods as determined using the procedures specified in §63.750(i).	II.A.1.d. Work Practice Inspection

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.48	40 CFR 63.749(d)(3)(iv) (8/3/16) 40 CFR 63.749(d)(4)(iv) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Operates all application techniques in accordance with the manufacturer's specifications or locally prepared operating procedures, whichever is more stringent.	II.A.1.d. Work Practice Inspection
I.B.1.49	40 CFR 63.749(d)(4) (8/3/16) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	The topcoat or specialty coating application operation is considered in compliance when the conditions specified in 40 CFR 63.749(d)(4)(i), (d)(4)(iii) through (d)(4)(iv), as applicable, and in 40 CFR 63.749(f) are met. Failure to meet any of the conditions identified in these paragraphs shall constitute noncompliance.	II.A.1.d. Work Practice Inspection II.B.1.e. ANESHAP Coating Operations Monitoring and Recordkeeping II.B.1.g. ANESHAP Averaging Scheme for Primer, Topcoat and Specialty Coatings
I.B.1.50	40 CFR 63.749(d)(4)(i) (8/3/16) 40 CFR 63.749(d)(4)(i)(A) (8/3/16) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For all uncontrolled topcoats, all values of H_i and H_a (as determined using the procedures specified in §63.750(c) and (d)) are less than or equal to 420 grams organic HAP per liter (3.5 lb/gal) of topcoat (less water) as applied, and all values of G_i and G_a (as determined using the procedures specified in §63.750(e) and (f)) are less than or equal to 420 grams organic VOC per liter (3.5 lb/gal) of topcoat (less water and exempt solvents) as applied. The compliance demonstration for a topcoat or a specialty coating may be based on the organic HAP content or the VOC content of the coating; demonstrating compliance with both the HAP content limit and the VOC content limit is not required. If a topcoat or specialty coating contains HAP solvents that are exempt from the definition of VOC in 40 CFR 63.741 and 40 CFR 51.100, then the HAP content must be used to demonstrate compliance.	II.B.1.e. ANESHAP Coating Operations Monitoring and Recordkeeping II.B.1.g. ANESHAP Averaging Scheme for Primer, Topcoat and Specialty Coatings

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.51	40 CFR 63.749(d)(4)(i) (8/3/16) 40 CFR 63.749(d)(4)(i)(B) (8/3/16) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For all uncontrolled specialty coatings, all values of H_i and H_a (as determined using the procedures specified in §63.750(c) and (d)) are less than or equal to the applicable HAP content limits specified in Table 1 to §63.745 for the applicable specialty coating types (less water) as applied, and all values of G_i and G_a (as determined using the procedures specified in §63.750(e) and (f)) are less than or equal to the applicable VOC content limits specified in Table 1 to §63.745 for the applicable specialty coating types (less water and exempt solvents) as applied.	II.B.1.e. ANESHAP Coating Operations Monitoring and Recordkeeping II.B.1.g. ANESHAP Averaging Scheme for Primer, Topcoat and Specialty Coatings
I.B.1.52	40 CFR 63.750(i) (12/7/15) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson may apply for alternative application methods for primers, topcoats, and specialty coatings by following procedures in 40 CFR 63.750(i).	No monitoring required
ANESHAP Primer, Topcoat and Specialty Coating Inorganic HAP Application Operations Requirements in this section are the ANESHAP requirements related to aerospace primer, topcoat and specialty coating application operations (as defined in 40 CFR 63.741 and 742) where the primer, topcoat or specialty coating contains an inorganic HAP. These requirements only apply when an aerospace primer, topcoat or specialty coating containing an inorganic HAP is sprayed onto an aerospace part. The spray booths in which this activity occurred at the time of permit issuance are identified above in the emission unit description. Coatings that do not contain inorganic HAPs or coatings that are not primers, topcoats, or specialty coatings as defined in the ANESHAP may also be sprayed in these booths. Boeing Frederickson may add other booths as being subject to the inorganic HAP requirements provided that Boeing Frederickson shall, contemporaneously with making the change, record in a log at Boeing Frederickson a record of the additional booths that are required to comply with the following requirements and the scenario under which they are operating. ANESHAP requirements for coatings with inorganic HAPs do not apply if the inorganic HAP concentration is less than 0.1% for carcinogens and 1.0% for non-carcinogens.			
I.B.1.53	40 CFR 63.743(a)(10) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson shall notify the PSCAA on or before March 1 of each year of the (re)construction of any booths or hangars, during the prior calendar year, with potential to emit less than 10 tons/yr of an individual inorganic HAP or less than 25 tons/yr of all inorganic HAP combined and shall include the information in 40 CFR 63.5(b)(4), with respect to inorganic HAPs. Submission of a Notice of Construction (NOC) and Application for Approval to the PSCAA fulfills the above-mentioned initial notification requirements.	II.A.3.a. Approval by the PSCAA, via NOCOA

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.54	40 CFR 63.745(g)(1) (12/7/15) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson shall apply aerospace primers, topcoats and specialty coatings containing inorganic HAPs in a booth or hangar with airflow directed downward onto or across the part or assembly and exhausted through one or more outlets.	II.A.1.d. Work Practice Inspection
I.B.1.55	40 CFR 63.745(g)(2)(i)(A) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For existing booths or hangars where primers, topcoats, or specialty coatings containing inorganic HAPs are spray applied, the air stream must be exhausted through a dry particulate filter system certified using Method 319 in Appendix A of Part 63 to meet or exceed the efficiency data points in 40 CFR 63.745(g)(2)(i)(A) Tables 2 and 3. Alternatively, may choose to comply with 40 CFR 63.745(g)(2)(i)(B), or (C).	II.A.3.b. Documentation on File
I.B.1.56	40 CFR 63.745(g)(2)(i)(C) (12/7/15) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For existing booths or hangars where primers, topcoats, or specialty coatings containing inorganic HAPs are spray applied, the air stream must be exhausted through an air pollution control system that meets or exceeds the efficiency data points in 40 CFR 63.745(g)(2)(i)(A) Tables 2 and 3 and is approved by the permitting authority. Alternatively, may choose to comply with 40 CFR 63.745(g)(2)(i)(A) or (B).	II.A.3.b. Documentation on File
I.B.1.57	40 CFR 63.745(g)(2)(ii)(A) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For new booths or hangars where primers, topcoats, or specialty coatings containing inorganic HAPs are spray applied, the air stream must be exhausted through a dry particulate filter system that is certified using Method 319 in Appendix A of Part 63 to meet or exceed the efficiency data points in 40 CFR 63.745(g)(2)(ii)(A) Tables 4 and 5. Alternatively, may choose to comply with 40 CFR 63.745(g)(2)(ii)(B).	II.A.3.b. Documentation on File

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.58	40 CFR 63.745(g)(2)(ii)(B) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For new booths or hangars where primers, topcoats, or specialty coatings containing inorganic HAPs are spray applied, the air stream must be exhausted through an air pollution control system that meets or exceeds the efficiency data points in 40 CFR 63.745(g)(2)(ii)(A) Tables 4 and 5 and is approved by the permitting authority. Alternatively, may choose to comply with 40 CFR 63.745(g)(2)(ii)(A).	II.A.3.a. Approval by the PSCAA, via NOCOA
I.B.1.59	40 CFR 63.745(g)(2)(iv) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	If a dry particulate filter system is used, Boeing Frederickson must meet the following requirements: (A) Maintain the system in good working order; (B) Install a differential pressure gauge across the filter banks: (C) Continuously monitor the pressure drop across the filter and record once per shift, or install an interlock system that will automatically shut down the coating spray application system if the pressure drop exceeds or falls below the filter manufacturer's recommended limit(s); and (D) Take corrective action when pressure drop exceeds or falls below the filter manufacturer's recommended limit(s).	II.A.1.c. Facility Inspections II.B.1.a. Spray Booth Filter Monitoring and Maintenance II.B.1.f. Dry Filter Spray Booth Pressure Drop Monitoring and Recordkeeping Procedure
I.B.1.60	40 CFR 63.745(g)(3) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson must shut down the spray operation if the pressure drop (as recorded pursuant to 40 CFR 63.752(d)(1) go outside of the range or if Boeing Frederickson does not do scheduled maintenance. The operation shall not be resumed until the pressure drop is returned within the specified limit(s).	II.A.1.d. Work Practice Inspection II.B.1.f. Dry Filter Spray Booth Pressure Drop Monitoring and Recordkeeping Procedure

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.61	40 CFR 63.745(g)(4) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	The requirements of 40 CFR 63.745(g)(1) through (g)(3) do not apply to: touchup of scratched surfaces or damaged paint; hole daubing for fasteners; touchup of trimmed edges; coating prior to joining dissimilar metal components; stencil operations performed by brush or air brush; section joining; touchup of bushing and other similar parts; sealant detackifying; painting parts in an area identified in a Title V permit, where the PSCAA has determined that it is not technically feasible to paint the parts in a booth; and, use of hand-held spray can application methods.	No monitoring required
I.B.1.62	40 CFR 63.749(e) (8/3/16) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For each primer, topcoat, or specialty coating application operation that emits inorganic HAP, the operation is in compliance when: - It is operated according to the requirements specified in §63.745(g)(1) through (g)(3); and - It is shut down immediately whenever the pressure drop is outside the limit(s) established for them and is not restarted until the pressure drop is returned within these limit(s), as required under §63.745(g)(3).	II.A.1.c. Facility Inspections II.A.1.d. Work Practice Inspection II.A.3.a. Approval by the PSCAA, via NOCOA II.A.3.b. Documentation on File II.B.1.a. Spray Booth Filter Monitoring and Maintenance II.B.1.f. Dry Filter Spray Booth Pressure Drop Monitoring and Recordkeeping Procedure
I.B.1.63	40 CFR 63.750(o) (12/7/15) PSCAA Reg III: 2.02 (4/23/15) (State Only) PSCAA Reg I: 3.25 (9/26/19) (State Only)	When dry filters are used to control inorganic HAP emissions from the booth, the filters must be certified using Method 319 in Appendix A of Subpart 63.	II.A.3.b. Documentation on File

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
ANESHAP Waste The requirements in this section are the ANESHAP requirements related to waste handling operations.			
I.B.1.64	40 CFR 63.748(a) (12/7/15) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson shall handle and store HAP-containing wastes from aerospace primer, topcoat, specialty coating, chemical milling maskant, or chemical depainting operations as follows: (1) Conduct the handling and transfer of the waste to or from containers, tanks, vats, vessels, and piping systems in such a manner that minimizes spills. (2) Store all waste that contains organic HAP in closed containers. These requirements do not apply to spent wastes that contain organic HAP that are subject to and handled and stored in compliance with 40 CFR parts 262 through 268 (including the air emission control requirements in 40 CFR part 265, subpart CC).	II.A.1.d. Work Practice Inspection
I.B.1.65	40 CFR 63.749(a)(3) and (i) (8/3/16) 40 CFR 63.749(a)(3) (8/3/16) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Handling and storage of waste. Failure to comply with the requirements specified in §63.748 shall be considered a violation.	II.A.1.d. Work Practice Inspection
PSCAA Regulation I Spray Coating Requirements in this section are the PSCAA Reg. I Section 9.16 requirements for spray coating operations.			
I.B.1.78	PSCAA Reg. I:9.16(a) (7/12/01) *(10/28/10, State Only)*	The regulation applies to spray coating operations at Boeing Frederickson where coating that protects or beautifies a surface is applied with spray coating equipment.	No monitoring required

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.79	PSCAA Reg. I:9.16(b) (7/12/01) *(10/28/10, State Only)*	The following activities are exempt from the provisions of Reg I: 9.16(c), and 9.16(d). Persons claiming any of the exemptions shall have the burden of demonstrating compliance: 1) Application of architectural or maintenance coatings to stationary structures. 2) Aerospace coating operations subject to 40 CFR Part 63 Subpart GG, including all activities and materials listed in 40 CFR 63.741(f). 3) Use of HVLP guns in certain situations described in Reg I: 9.16(b)(3)(A) through (E). 4) Use of air brush spray equipment with 0.5 to 2.0 CFM airflow and 2 fluid ounce or less cup capacity. 5) Use of hand-held aerosol spray cans with 1 quart or less capacity. 6) Indoor application of automotive undercoating materials using organic solvents with flash points in excess of 100F.	No monitoring required
I.B.1.80	PSCAA Reg. I:9.16(c) (7/12/01) *(10/28/10, State Only)*	Unlawful to allow spray-coating inside a structure, or spray-coating of any motor vehicles or components, unless the spray-coating is conducted inside an enclosed spray area employing paint arresters or water-wash curtains to control overspray. All emissions shall be vented through an unobstructed vertical exhaust vent.	II.A.1.d. Work Practice Inspection II.A.3.a. Approval by the PSCAA, via NOCOA
I.B.1.81	PSCAA Reg. I:9.16(d) (7/12/01) *(10/28/10, State Only)*	General Requirements for Outdoor Spray-Coating Operations. It shall be unlawful for any person subject to the provisions of this section to cause or allow spray-coating outside an enclosed structure unless reasonable precautions are employed to minimize the overspray. Reasonable precautions include, but are not limited to the use of: (1) Enclosures and curtailment during high winds; and (2) High-volume low-pressure (HVLP), low-volume low-pressure (LVLP), electrostatic, or air-assisted airless spray equipment. Airless spray equipment may be used where low viscosity or high solid coatings preclude the use of higher transfer efficiency spray equipment.	II.A.1.d. Work Practice Inspection II.A.3.a. Approval by the PSCAA, via NOCOA

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.82	PSCAA Reg. I:9.16(e) (7/12/01) PSCAA Reg I: 9.16(f) *(10/28/10, State Only)*	Compliance with PSCAA Reg. I Section 9.16 does not exempt any person from compliance with PSCAA Reg. I Section 9.11, Section I.A.7, and all other applicable regulations.	No monitoring required
PSCAA Regulation II Aerospace Component Coating Operations Requirements in this section are the PSCAA Reg. II requirements for aerospace component coating operations.			
I.B.1.83	PSCAA Reg II: 3.09(a) (12/9/93)	Reg. II: 3.09 applies to operations in which coatings are applied to aerospace components. Aerospace component means a fabricated part, assembly of parts, or completed unit of any aircraft, helicopter, missile, or space vehicle.	No monitoring required
I.B.1.84	PSCAA Reg II: 3.09(b) (12/9/93)	Application of the following coatings in excess of the following limits is unlawful: Commercial Aerospace Topcoat: 420 gm VOC/Liter Military Aerospace Topcoat: 420 gm VOC/Liter Commercial Aerospace Primer: 350 gm VOC/Liter Military Aerospace Primer: 350 gm VOC/Liter Temporary Protective Coating: 250 gm VOC/Liter Commercial Aerospace Topcoat and Primer are defined in Reg. II:1.05 as BMS 10-11 Type II and BMS 10-11 Type I, respectively. Military Aerospace Topcoat and Primer are defined in Reg. II:1.05 as the current version of MIL-C-85285 and MIL-P-85582, respectively.	II.B.1.i. PSCAA VOC Content Monitoring and Recordkeeping Procedure
I.B.1.85	PSCAA Reg II: 3.09(c) (12/9/93)	The coatings in Reg. II, 3.09(b) must be applied by HVLP spray equipment (0.1 to 10 psig air pressure for atomization), electrostatic spray equipment, or other acceptable coating application methods listed in Reg. II, 3.09(c).	II.A.1.d. Work Practice Inspection
I.B.1.86	PSCAA Reg II: 3.09(d) (12/9/93)	Boeing Frederickson must collect and minimize the evaporation of VOC containing materials used for cleanup of spray equipment, including paint lines. VOC-containing cleanup material for spray equipment must be stored in closed containers.	II.A.1.d. Work Practice Inspection

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.87	PSCAA Reg II: 3.09(e) (12/9/93)	Containers used for the storage or disposal of VOC containing materials shall be kept closed except when being cleaned or when materials are being added, mixed, or removed. Closed containers for solvent rag or paper disposal are required. Disposal is required when the cleaning operation is completed or before leaving for a break or end of shift, whichever comes first.	II.A.1.d. Work Practice Inspection
PSCAA Regulation II Motor Vehicle and Mobile Equipment Coating Operations Requirements in this section are the PSCAA Reg. II requirements that apply to motor vehicles and mobile equipment coating operations. Motor vehicle and mobile equipment coating operations are not normally conducted in the paint hangars and spray booths used in aerospace component coating operations. Mobile equipment means any equipment that may be drawn or is capable of being driven on a roadway, including, but not limited to, truck bodies, truck trailers, utility bodies, camper shells, mobile cranes, bulldozers, street cleaners, golf carts and implements of husbandry. Reg. II Section 3.04 requirements for Original Equipment Manufacturers (OEM) do not apply to Boeing Frederickson.			
I.B.1.88	PSCAA Reg. II: 3.04(b) (07/24/03)	It shall be unlawful for any person to apply any specialty coating with a VOC content in excess of 840 grams/liter, excluding water. Use of all specialty coatings except antiglare/safety coatings shall not exceed 5.0% of all coatings applied on a monthly basis. Specialty coatings are coatings that are necessary due to unusual job performance requirements and whose VOC content exceeds 630 grams/liter.	II.A.1.d. Work Practice Inspection II.B.1.i. PSCAA VOC Content Monitoring and Recordkeeping Procedure
I.B.1.89	PSCAA Reg. II: 3.04(d) (07/24/03)	It shall be unlawful for any person to apply any VOC-containing material to any motorized vehicles, their parts and components, or equipment designed to be pulled by motorized vehicles unless the coating is applied by the use of one of the following methods: (1) High volume, low pressure (0.1 to 10 psig air pressure for atomization) spray equipment, (2) Electrostatic spray equipment, (3) Flow coat, (4) Dip coat, (5) Brush coat, (6) Hand-held aerosol cans, (7) Roll coat, or (8) Air brush	II.A.1.d. Work Practice Inspection

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.1.90	PSCAA Reg. II: 3.04(e) (07/24/03)	Boeing Frederickson must collect and minimize the evaporation of VOC-containing materials used for cleanup of spray equipment, including paint lines. VOC containing cleanup material that is flushed through the spray equipment or lines shall be collected in closed containers.	II.A.1.d. Work Practice Inspection
I.B.1.91	PSCAA Reg. II: 3.04(f) (07/24/03)	VOC containing material must be stored in closed containers and disposed of properly. Closed containers for solvent rag or paper disposal are required.	II.A.1.d. Work Practice Inspection
PSCAA Reg. I and State Statute O&M Requirements Requirements in this section are the PSCAA and State O&M requirements for operating permit sources.			
I.B.1.92	PSCAA Reg I: 9.20(a) (6/9/88) RCW 70.94.152(7) *1996 (State Only)*	All equipment must be maintained in good working order.	II.A.1.c. Facility Inspections II.B.1.a. Spray Booth Filter Monitoring and Maintenance II.B.1.e. Dry Filter Spray Booth Pressure Drop Monitoring and Recordkeeping Procedure These monitoring methods supersede the monitoring method for this requirement listed in I.A.1.10.
Alternative Means of Compliance NOCOA 7746 establishes an alternative means of compliance with Regulation II, Section 3.09(b) for the use of Temporary Protective Coating for touch-up operations.			
I.C.1.1	NOCOA 7746 Condition #3 (05/05/99)	Limit the use of Aerosol Temporary Protective Coating to touch-up operations at the site.	II.A.1.d. Work Practice Inspection II.B.1.i. PSCAA VOC Content Monitoring and Recordkeeping Procedure
NOCOA 11792 requirements for 102,000 cfm spray coating booth (MSS #59279) in Bldg. 24-50.			
I.C.1.2	NOCOA 11792 Condition #3 (11/20/19)	Spray application using Desothane topcoat or Eclipse topcoat (as qualified under BMS 10-60) containing inorganic HAPs is prohibited.	II.A.1.d. Work Practice Inspection II.C.1.a. Topcoat Application Monitoring, Recordkeeping and Reporting Requirements
I.C.1.3	NOCOA 11792 Condition #4 (11/20/19)	The total amount of Desothane topcoat (as qualified under BMS 10-60) or an equivalent coating containing 1% or more by weight of hexamethylene diisocyanate (CAS 822-06-0), sprayed in this booth shall not contain 4 gallons during any consecutive 24-hour period.	II.A.3.b. Documentation on File

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.C.1.4	NOCOA 11792 Condition #5 (11/20/19)	Coating spray applied in the booth shall comply with the following limits. For Desothane or Eclipse topcoat (as qualified under BMS 10-60) or equivalent topcoat, organic HAP and VOC content limits (as applied, less water and for VOC, less water and exempt solvents):3.5 lb/gal.	II.A.1.d. Work Practice Inspection II.C.1.a. Topcoat Application Monitoring, Recordkeeping and Reporting Requirements
I.C.1.5	NOCOA 11792 Condition #6 (11/20/19)	Spray-coating of BMS10-60 material shall be confined to an agency approved booth equipped with a filter system that at all times covers the openings of the exhaust plenum including the edges of the filter bank.	II.A.1.d. Work Practice Inspection II.C.1.b. Topcoat Application Monitoring, Recordkeeping and Reporting Requirements
I.C.1.6	NOCOA 11792 Condition #7 and #12(b) (11/20/19)	The booth shall be operated so that all exhaust air passes through a filter system that meets one of the following standards: a. A system with a minimum initial overspray arrestance of 98 percent. Overspray arrestance must be determined using the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Method 52.1 procedure and substituting the synthetic test dust feed with a high solids bake enamel delivered at a rate of at least 135 grams per minute from a conventional (non-HVLP) air-atomized spray gun operating at 40 pounds per square inch (psi) air pressure with an air flow rate across the filter of 150 feet per minute. A system that complies with 40 CFR Part 63, Subpart HHHHHH meets this requirement. b. A system that meets a minimum initial efficiency reporting value (MERV) of 13 as determined by ASHRAE Method 52.2. c. A system that meets a minimum initial filtration efficiency of 98 percent over the particle diameter range from 0.3 to 10 microns. The particle size dependent filtration efficiencies must be determined using either EPA Method 319 or an Agency approved method.	II.A.1.d. Work Practice Inspection II.A.3.b. Documentation on File

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.C.1.7	NOCOA 11792 Condition #8 (11/20/19)	Boeing Frederickson shall maintain a pressure drop measurement device, such as a manometer or magnehelic, to measure the pressure drop across the exhaust filters. The upper and lower pressure drop that is acceptable for the effective operation of the filters shall be clearly marked on or nearby the gauge.	II.A.1.d. Work Practice Inspection II.B.1.f. Dry Filter Spray Booth Pressure Drop Monitoring and Recordkeeping Procedure
I.C.1.8	NOCOA 11792 Condition #9 (11/20/19)	The booth shall always be operated within the acceptable pressure drop range across the exhaust filter bank. Compliance demonstration must at a minimum include daily pressure drop monitoring on days when Desothane topcoat or equivalent coating containing 1% or more by weight of hexamethylene diisocyanate is spray applied in the booth or installation of an interlock system that will automatically shut down the coating spray application system if the pressure drop exceeds or falls below the acceptable pressure drop range. Operation of the booth must cease when the pressure drop across the filter bank deviates from the established range and corrective action must be taken prior to operation of the booth.	II.B.1.f. Dry Filter Spray Booth Pressure Drop Monitoring and Recordkeeping Procedure
I.C.1.9	NOCOA 11792 Condition #10 and 12(c) (11/20/19)	All spray application of material must be applied with an air-assisted airless spray gun, electrostatic applicator, or high-volume low-pressure (HVLP) spray gun. Alternative spray technology must meet a minimum transfer efficiency of 65 percent. The procedure used to demonstrate a spray technology's transfer efficiency must be equivalent to South Coast Air Quality Management District's "Spray Equipment Transfer Efficiency Test Procedure for Equipment User, May 24, 1989" and "Guidelines for Demonstrating Equivalency with District Approved Transfer Efficient Spray Guns, September 26, 2002." A plan describing the test procedure must be developed and submitted to the Agency 30 days prior to conducting any spray technology transfer efficiency test.	II.A.3.b. Documentation on File

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.C.1.10	NOCOA 11792 Condition #11 (11/20/19)	Spray-coating equipment must be cleaned in such a way that an atomized mist or spray is not discharged to the open air. Spray-coating equipment must be cleaned using a container or washer that captures and collects all residue and cleaning solvent. Containers and washers must be kept closed at all times except during manual cleaning or insertion/removal of spray-coating equipment.	II.A.1.d. Work Practice Inspection
I.C.1.11	NOCOA 11792 Condition #12(d) (11/20/19)	The facility O&M Plan shall include: • Filter maintenance. • Filter inspection procedures • Procedures to correct operation of the booth when the pressure drop across the filter bank deviates from the established range.	II.A.2. Operation & Maintenance Plan Requirements
I.C.1.12	NOCOA 11792 Condition #13(a) (11/20/19)	Within 30 days of the end of the month, document the total amount in gallons of Desothane topcoat (as qualified under BMS 10-60) or an equivalent topcoat containing 1% or more by weight of Hexamethylene Diisocyanate (CAS 822-06-0) that is spray applied in the MSS #59279 booth during the previous month and during any consecutive 12-month period. Purchase records may be used as a surrogate for usage.	II.A.3.b. Documentation on File
I.C.1.13	NOCOA 11792 Condition #14 (11/20/19)	Notify the Agency, in writing, within 30 days of the end of the month in which an exceedance of any limitation in Conditions I.C.1.2, I.C.1.3 and I.C.1.4 is discovered.	V.Q.1.b Deviation Reports

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

2. External Combustion

This section includes all boilers and process heaters that have specific applicable requirements other than the facility-wide applicable requirements in Section I.A.

The table below includes boilers and process heaters that received an NOCOA or were registered with the PSCAA. It may also include boilers or process heaters that were not registered or required to receive an NOCOA. Data in italics are for information only and are not enforceable conditions of this permit.

Bldg.	Col./Dr.	MSS/ID#	NOCOA	Date Installed	Source Description	40 CFR 60 Subpart Dc?	40 CFR 63 Subpart DDDDD?	DDDDD Tune-up Frequency
24-40	*Central Plant*	*58919*	*4382*	*1992*	*Boiler #2, Cleaver-Brooks CB 200-800-150, 27 MMBtu/hr, gas fired*	✓	✓	*5 yrs*
24-40	*Central Plant I*	*58920*	*4382*	*1992*	*Boiler #1, Cleaver-Brooks CB 200-800-150, 27 MMBtu/hr, gas fired*	✓	✓	*5 yrs*
24-40	*Central Plant*	*62026*	*4658*	*1993*	*Boiler #3, Cleaver-Brooks CB 200-800-150, 27 MMBtu/hr, gas fired*	✓	✓	*5 yrs*
24-50	*A4, B4*	*61401*	*4657*	*1993*	*Autoclave, 35.2 MMBtu/hr, gas fired*			
24-50	*A4, B4*	*61402*	*4657*	*1993*	*Autoclave, 35.2 MMBtu/hr, gas fired*			
24-50	*C4*	*61403*	*4657*	*1993*	*Autoclave, 15.3 MMBtu/hr, gas fired*			

Table 5. Applicable Requirements – External Combustion

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
NESHAP Subpart DDDDD for Boilers and Process Heaters Requirements I.B.2.1 through I.B.2.9 are the 40 CFR 63 NESHAP requirements that apply to external combustion equipment. These requirements apply only to Boilers #1, #2 and #3. All Subpart DDDDD affected sources at Boeing Frederickson are Gas 1 units with natural gas as the only fuel.			
I.B.2.1	40 CFR 63.7491 (11/20/15) 40 CFR 63.7575 (11/20/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Certain types of boilers and process heaters are not subject to Subpart DDDDD including per 63.7491 and 63.7575: • A boiler or process heater that is used specifically for research and development. • A hot water heater as defined in this Subpart DDDDD. • Temporary boilers or process heaters as defined in Subpart DDDDD. • Other types of boilers and process heaters listed in 63.7491 • Units used for comfort heat or space heat • Food preparation for on-site consumption • Autoclaves • Waste heat process heaters	No monitoring required
I.B.2.2	40 CFR 63.7500(a)(1) (11/20/15) 40 CFR 63.7500(e) (11/20/15) 40 CFR 63.7540(a) (10,11&12) (11/20/15) Subpart DDDDD Table 3 (11/20/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13 to this subpart, or the operating limits in Table 4. Tune ups for Gas 1 boilers and process heaters are required as specified in §63.7540: 1) every 5 years if the unit has continuous oxygen trim regardless of size, or 2) every 5 years if the heat input is less than or equal to 5 MMBtu/hr, or 3) every 2 years if greater than 5 and less than 10 MMBtu/hr and does not have continuous oxygen trim, or 4) every year if equal to or greater than 10 MMBtu/hr and does not have continuous oxygen trim.	II.B.2.b.i. Boiler NESHAP Tune-up Procedure and Recordkeeping

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.2.3	40 CFR 63.7500(a)(3) (11/20/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	At all times, Boeing Frederickson must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to PSCAA that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	II.A.2. O&M Plan Requirements II.B.2.a. External Combustion Visible Emission Monitoring II.B.2.b.i. Boiler NESHAP Tune-up Procedure and Recordkeeping II.B.2.b.ii. Boiler NESHAP Recordkeeping
I.B.2.4	40 CFR 63.7505(a) (11/20/15) 40 CFR 63.7500(f) (11/20/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson must comply with work practice standards at all times except periods noted in §63.7500(f).	II.A.2. O&M Plan Requirements
I.B.2.5	40 CFR 63.7540(a)(13) (11/20/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.	No monitoring required
I.B.2.6	40 CFR 63.7545(f) (11/20/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	If Boeing Frederickson intends to use a fuel other than natural gas to fire any boiler or process heater subject to Subpart DDDDD during a period of natural gas curtailment or supply interruption, Boeing Frederickson must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption.	II.B.2.b.ii. Boiler NESHAP Recordkeeping

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.2.7	40 CFR 63.7545(h) (11/20/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	If Boeing Frederickson switches fuels or makes a physical change to any boiler or process heater and the fuel switch or physical change resulted in the applicability of a subcategory other than "unit designed to burn gas 1 subcategory," Boeing Frederickson must provide notice of the date upon which it switched fuels or made the physical change within 30 days of the switch/change. The notification must identify the items in 40 CFR 63.7545(h)(1) - (3).	II.B.2.b.ii. Boiler NESHAP Recordkeeping V.Q.2.b.ii Notification of Fuel Switch or Physical Change
I.B.2.8	40 CFR 63.7550(a)-(c) (11/20/15) 40 CFR 63 Table 9 (11/20/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson must submit compliance reports for each boiler or process heater subject to Subpart DDDDD.	V.Q.2.b.iv. Boiler NESHAP Notification & Reporting Requirements, Compliance Report
I.B.2.9	40 CFR 63.7555(h) (11/20/15) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For each unit designed to burn natural gas, that is subject to 40 CFR Part 63 Subpart DDDDD, and that uses an alternative fuel other than natural gas, Boeing Frederickson must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies.	II.B.2.b.ii. Boiler NESHAP Notification & Reporting Requirements, Boiler NESHAP Recordkeeping
NSPS Subpart Dc for Steam Generating Units Requirements I.B.2.10 through I.B.2.13 are the requirements for the Standards of Performance for New Stationary Sources for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60 Subpart Dc). These requirements apply only to Boilers #1, #2 and #3.			
I.B.2.10	40 CFR 60.40c(a) (2/16/12) PSCAA Reg I: 6.11 (9/26/02) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	NSPS Subpart Dc applies to each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 100 MMBtu/hr or less, but greater than or equal to 10 MMBtu/hr.	No monitoring required

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.2.11	40 CFR 60.48c(g)(1) (1/28/09) PSCAA Reg I: 6.11 (9/26/02) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Except as provided 40 CFR 60.48c(g)(2)&(3), Boeing Frederickson shall record and maintain records of the amount of each fuel combusted during each operating day.	II.B.2.c. Boiler NSPS (40 CFR 60 Subpart Dc) Recordkeeping
I.B.2.12	40 CFR 60.48c(g)(2) (1/28/09) PSCAA Reg I: 6.11 (9/26/02) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Instead of following 40 CFR 60.48c(g)(1), Boeing Frederickson may elect to record and maintain records of the amount of each fuel combusted during each calendar month rather than each operating day.	II.B.2.c. Boiler NSPS (40 CFR 60 Subpart Dc) Recordkeeping
I.B.2.13	40 CFR 60.48c(i) (1/28/09) PSCAA Reg I: 6.11 (9/26/02) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson shall maintain all records required under NSPS Subpart Dc for a period of two years following the date of such record. Note that AOP Section V.O.3 requires that this record be retained for five years.	No monitoring required
PSCAA Regulation I and Ecology General Requirements Requirements in this section are the PSCAA requirements that apply to external combustion equipment.			
I.B.2.14	PSCAA Reg I: 9.03 (3/11/99) *(3/25/04) (State Only)* WAC 173-400-040(1)(a)&(b) (9/20/93) *Once EPA deletes the 9/20/93 version of the WAC from the PSCAA SIP, only Reg. I, Section 9.03 will apply.*	Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour.	II.B.2.a. External Combustion Visible Emission Monitoring

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.2.15	PSCAA Reg I: 9.08(a) (4/14/94) *(3/25/04) (State Only)* RCW 70.94.610 *(1991) State only*	It shall be unlawful for any person to cause or allow combustion of oil that exceeds any of the following limits unless allowed by a PSCAA NOCOA issued under Reg I: 6.07. All limits are the maximum allowed except flash point, which is the minimum allowed. *(Note: In the 3/25/04 version of Reg. I, 9.08(a), the reference to Reg I: 6.07 is changed to Article 6.)*: • Ash 0.1% • Sulfur, used oil 1.0% • Sulfur, fuel oil 2.00% • Lead 100 ppm • Arsenic 5 ppm • Cadmium 2 ppm • Chromium 10 ppm • Total halogens 1,000 ppm • PCBs 2 ppm • Flash point 100 °F	No monitoring required
PSCAA NOCOA Requirements			
NOCOA 4382 conditions that apply to Boilers # 1 and # 2, MSS# 58920 and 58919 respectively, in Building 24-40.			
I.C.2.1	NOCOA 4382 Condition #3 (6/12/01)	The emissions of NO_X from these boilers shall not exceed 0.1 lb/MMBtu when firing natural gas.	II.B.2.d. NO_x Monitoring
I.C.2.2	NOCOA 4382 Condition #4 (6/12/01)	Boeing Frederickson shall keep monthly records of the natural gas fuel use for the two Cleaver Brooks gas fired boilers. Boeing Frederickson shall comply with all other applicable requirements as stated in 40 CFR 60 Subpart Dc.	II.B.2.c. Boiler NSPS (40 CFR 60 Dc) Recordkeeping
NOCOA 4658 conditions that apply to Boiler #3, MSS# 62026 in Building 24-40			
I.C.2.3	NOCOA 4658 Condition #3 (6/12/01)	Boeing Frederickson (Frederickson) shall keep monthly records of the natural gas fuel use for the Cleaver Brooks CB 200-800 gas fired boiler. Boeing Frederickson (Frederickson) shall comply with all other applicable requirements as stated in 40 CFR 60 Subpart Dc.	II.B.2.c. Boiler NSPS (40 CFR 60 Dc) Recordkeeping

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

3. Abrasive Blasting, Cyclones, Baghouse, and Other Particulate Control Operations

This section includes all activities and equipment with particulate emissions controlled by cyclones, baghouses, and other control equipment. Activities and equipment with particulate control devices include abrasive blasting operations on production parts, tooling or equipment, carpentry, machining of metal or nonmetal parts, housecleaning, and wood shredding operations.

The table below does not necessarily include all activities and equipment that may be subject to the requirements of this section. Activities and equipment that have not received an NOCOA or were not previously registered with the PSCAA, or are not subject to the Monitoring Method in section II.B.3 are not included in the table. Data in italics are for information only and are not enforceable conditions of this permit.

Bldg.	Col/Dr	MSS/ID #	NOCOA	Date Installed	Source Description
24-60	*M7*	*64932*	*4680*	*1992*	*Abrasive Blasting with 5,200 CFM Dust Collector*
24-60	*O/S East Side*	*60219*	*Exempt*	*2004*	*Double Plus Chord Shot Peening with 5,000 CFM Baghouse*
24-50	*O/S East Side*	*62075*	*4853*	*1993*	*Composites Manufacturing Vacuum System with 1,360 CFM Baghouse*
24-50	*O/S East Side*	*62077*	*4853*	*1993*	*Composites Manufacturing Vacuum System with 1,360 CFM Baghouse*
24-50	*O/S East Side*	*62078*	*4853*	*1993*	*Composites Manufacturing Vacuum System with 1,360 CFM Baghouse*
24-50	*O/S East Side*	*62081*	*4853*	*1993*	*Composites Manufacturing Vacuum System with 560 CFM Baghouse*
24-50	*O/S East Side*	*62082*	*4853*	*1993*	*Composites Manufacturing Vacuum System with 560 CFM Baghouse*
24-50	*O/S West Side*	*62083*	*4853*	*1993*	*Composites Manufacturing Vacuum System with 560 CFM Baghouse*
24-50	*O/S West Side*	*62084*	*4853*	*1993*	*Composites Manufacturing Vacuum System with 400 CFM Baghouse*
24-50	*O/S West Side*	*62085*	*4853*	*1993*	*Composites Manufacturing Vacuum System with 240 CFM Baghouse*
24-50	*A4.3 O/S*	*4473*	*11792*	*1992*	*Dustex Sand/Fill Booth with 60,000 CFM Dust Collector*
24-60	*C-E/1 O/S*	*59176*	*3909*	*1992*	*Aluminum Milling 13,800 CFM Baghouse*
24-60	*D.9/1*	*59177*	*3909*	*1992*	*Aluminum Chips Sweep 8,400 CFM Baghouse*
24-60	*C-E/1 O/S*	*59179*	*3909*	*1992*	*Aluminum Milling 13,800 CFM Baghouse*
24-60	*C-E/1 O/S*	*59181*	*3909*	*1992*	*Aluminum Milling 13,800 CFM Baghouse*
24-60	*E.9/1*	*59183*	*3909*	*1992*	*Aluminum Chips Sweep 8,400 CFM Baghouse*
24-60	*C-E/1 O/S*	*59186*	*3909*	*1992*	*Aluminum Milling 13,800 CFM Baghouse*
24-60	*C-E/1 O/S*	*59188*	*3909*	*1992*	*Aluminum Milling 13,800 CFM Baghouse*
24-60	*G.9/1*	*59189*	*3909*	*1992*	*Aluminum Chips Sweep 8,400 CFM Baghouse*
24-60	*J2*	*59199*	*4682*	*1993*	*Spar Deburrer with 25,000 CFM Baghouse*
24-60	*Col K2*	*59201*	*3909*	*1992*	*Shot peening operation with 7,450 CFM Baghouse*
24-60	*W3*	*19356*	*Not required*	*2007*	*Wet Aluminum Milling 8,400 CFM Mist Eliminator/Cyclone*
24-60	*D.3/8*	*59206*	*3909*	*1992*	*Aluminum Chips Sweep 8,400 CFM Baghouse*
24-60	*C8*	*59217*	*3909*	*1992*	*Aluminum Chips Sweep 8,400 CFM Baghouse*
24-60	*M/N 2.3*	*4457*	*3909*	*1992*	*Penetrant Developer 29,000 CFM Baghouse*

Bldg.	Col/Dr	MSS/ID #	NOCOA	Date Installed	Source Description
24-60	O/S L7.5	59247	3909	1992	Shot Peening 25,650 CFM Baghouse
24-60	O/S L7.5	59248	3909	1992	Shot Peening 25,650 CFM Baghouse
24-60	O/S L7.5	59249	3909	1992	Shot Peening 16,029 CFM Baghouse
24-60	O/S L7.5	59250	3909	1992	Shot Peening 5,000 CFM Baghouse
24-60	E 5/7	60169	3909	1992	Aluminum Sanding 1,360 CFM Vacuum System/Baghouse
24-60	W of A3	20263	3909	1992	Aluminum Chip Collection 8,400 CFM Baghouse
24-60	W of A3	20262	3909	1992	Aluminum Chip Collection 8,400 CFM Baghouse
24-60	W of A3	20264	3909	1992	Aluminum Chip Collection 8,400 CFM Baghouse
24-60	W of A3	20253	10380	2012	Aluminum Chip Collection 8,400 CFM Baghouse
24-60	N19, G-H1	13435	7466	1998	Aluminum Milling 13,800 CFM Baghouse
24-60	N5A, C.5/.8	13437	7467	1998	Aluminum Milling 13,800 CFM Baghouse
24-60	O/S K2	59192	3909	1992	Aluminum Drill Router 8,000 CFM Baghouse
24-60	O/S K2	59196	3909	1992	Aluminum Drill Router 8,000 CFM Baghouse
24-60	O/S K2	59198	3909	1992	Aluminum Drill Router 8,000 CFM Baghouse
24-60	O/S B.9-D.1/8	59207	3909	1992	Aluminum Milling 17,000 CFM Baghouse
24-60	O/S B.9-D.1/8	59209	3909	1992	Aluminum Milling 17,000 CFM Baghouse
24-60	O/S B.9-D.1/8	59211	3909	1992	Aluminum Milling 17,000 CFM Baghouse
24-60	O/S B.9-D.1/8	59213	3909	1992	Aluminum Milling 17,000 CFM Baghouse
24-60	O/S B.9-D.1/8	59215	3909	1992	Aluminum Milling 17,000 CFM Baghouse
24-60	O/S B.9-D.1/8	59220	3909	1992	Aluminum Milling 17,000 CFM Baghouse
24-60	W of A3	60723	3909	1992	Aluminum Chips Shredder 16,800 CFM Baghouse
24-60	W of A3	60727	3909	1992	Aluminum Chips Shredder 16,800 CFM Baghouse
24-60	O/S Dr. E9	60219	Not required	2005	Aluminum Milling 5,000 CFM Baghouse
24-60	C5/1	59166	3909	1992	Aluminum Forming 4,700 CFM Baghouse
24-60	O/S, C-E/1	59157	3909	1992	Aluminum Milling 13,800 CFM Baghouse
24-60	O/S, C-E/1	59162	3909	1992	Aluminum Milling 13,800 CFM Baghouse
24-60	O/S, C-E/1	59170	3909	1992	Aluminum Milling 13,800 CFM Baghouse
24-60	O/S, C-E/1	59164	3909	1992	Aluminum Milling 13,800 CFM Baghouse
24-60	O/S, C-E/1	59173	3909	1992	Aluminum Milling 13,800 CFM Baghouse
24-60	O/S, C-E/1	59174	3909	1992	Aluminum Milling 13,800 CFM Baghouse
24-60	B.8/1	59159	3909	1992	Aluminum Chips Sweep 8,400 CFM Baghouse
24-60	D.1/1	59168	3909	1992	Aluminum Chips Sweep 8,400 CFM Baghouse
24-60	K2	19167	Not required	2005	Shot Peening 10,000 CFM Baghouse
24-60	N-23, Col A2	19138	Not required	2006	Metal Aluminum Milling with 15,000 CFM Baghouse
24-60	N-24, Col A2	19249	Not required	2006	High Speed Spar Mill #3 with 15,000 CFM Baghouse
24-60	O/S W, W4	19178	Not required	2006	Plate Milling Operations with 8,400 CFM Baghouse
24-60	O/S S9	17713	Not required	2006	Skin Mill Operations with 9,500 CFM baghouse
24-60	O/S NW	19067	Not	2005	High Speed Spar Mill #1 with 15,000 CFM Baghouse

Bldg.	Col/Dr	MSS/ID #	NOCOA	Date Installed	Source Description
			Required		
24-50	*Dr. E9*	*19396*	*Not required*	*2007*	*Composites Manufacturing Vacuum System with 1,600 CFM Baghouse*
24-60	*East*	*19027*	*Not required*	*2005*	*Aluminum milling 4,000 CFM Mist Eliminator/Baghouse*
24-60	*East*	*19028*	*Not required*	*2005*	*Aluminum Milling 4,000 CFM Mist Eliminator/Baghouse*
24-50	*O/S N*	*20288*	*Not required*	*2013*	*Composites Manufacturing Vacuum System with 1,369 CFM Baghouse*
24-60	*O/S W, W4*	*20287*	*Not required*	*2013*	*Aluminum Milling 8,150 CFM Baghouse*
24-50	*O/S E*	*20372*	*Not required*	*2015*	*Composites Manufacturing Vacuum System with 2,400 CFM Baghouse*
24-50	*O/S E*	*20373*	*Not required*	*2015*	*Composites Manufacturing Vacuum System with 2,400 CFM Baghouse*
24-60	*Dr. E7*	*20376*	*Not required*	*2015*	*Shot Peening 5,000 CFM Baghouse*
24-60	*Dr. W3*	*22163*	*Not required*	*2018*	*Aluminum Milling 12,200 CFM Baghouse*
24-60	*Dr. W3*	*20433*	*Not required*	*2019*	*Aluminum Milling 5,300 CFM Baghouse*

Table 6. Applicable Requirements – Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Operations

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.3.1	PSCAA Reg I: 9.03 (3/11/99) *(3/25/04) (State Only)* WAC 173-400-040(1)(a)&(b) (9/20/93) *Once EPA deletes the 9/20/93 version of the WAC from the PSCAA SIP, only Reg. I, Section 9.03 will apply.*	Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour.	II.B.3. Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Equipment
I.B.3.2	PSCAA Reg I: 9.09 (4/9/98) WAC 173-400-060 (3/22/91) *Once EPA deletes the 3/22/91version of the WAC from the PSCAA SIP, only Reg. I, Section 9.09 will apply.*	Shall not emit in excess of 0.05 gr/dscf from equipment used in a manufacturing process and general process units, uncorrected for excess air.	II.B.3. Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Equipment
I.B.3.3	PSCAA Reg I: 9.20(a) & (b) (6/9/88) RCW 70.94.152(7) *1996 (State Only)*	Maintain equipment in good working order that has received an NOCOA.	II.A.2. O&M Plan Requirements II.B.3. Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Equipment
PSCAA NOCOA Requirements			
Order of Approval No. 7466 conditions that apply to the Spar Mill Baghouse MSS/ID# 13435 in Bldg. 24-60			
I.C.3.1	NOCOA 7466, Condition #3. (6/23/99)	A gauge to measure the pressure drop across the bag separator will be installed and maintained. The acceptable range for the gauge shall be clearly marked on or near the gauge.	II.B.3. Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Equipment
I.C.3.2	NOCOA 7466, Condition #4. (6/23/99)	Once each month, determine if the pressure drop across the exhaust filters is in the acceptable range. If the pressure drop is not within the acceptable range, take corrective action as specified in the operations and maintenance plan.	II.B.3. Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Equipment
NOCOA 7467 conditions that apply to the Spar Mill Baghouse MSS/ID# 13437 in Bldg. 24-60.			
I.C.3.3	NOCOA 7467, Condition #3 (6/23/99)	Boeing Frederickson shall install and maintain a differential pressure transmitter or gauge to measure the pressure drop across the new dry filter particulate control system. The pressure drop shall be displayed on a readout or the gauge. The acceptable pressure drop range shall be clearly marked on or nearby the readout or gauge.	II.B.3. Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Equipment

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.C.3.4	NOCOA 7467, Condition #4 (6/23/99)	Once each month, determine if the pressure drop across the exhaust filters is in the acceptable range. If the pressure drop is not within the acceptable range, take corrective action as specified in the operations and maintenance plan.	II.B.3. Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Equipment
NOCOA. 10380 conditions that apply to the #4 Briquetter Baghouse in Bldg. 24-60.			
I.C.3.5	NOCOA 10380, Condition #3 (10/20/11)	There shall be no visible emissions or fallout from the dust collector.	II.B.3. Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Equipment
I.C.3.6	NOCOA 10380, Condition #4 (10/20/11)	Boeing Fredrickson shall determine the acceptable pressure drop range for the baghouse filters during normal operations, incorporate that range into the facility's O&M Plan, and mark the acceptable range on or near the baghouse.	II.B.3. Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Equipment
I.C.3.7	NOCOA 10380, Condition #6 (10/20/11)	The baghouse shall be inspected at least once per week when in operation for visible emissions, fallout, and pressure drop across the filters.	II.B.3. Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Equipment
I.C.3.8	NOCOA 10380, Condition #7 (10/20/11)	If visible emissions or fallout are seen, or if the pressure drop is outside the acceptable range, Boeing Fredrickson shall investigate the cause and either initiate repairs or shut down the equipment vented to the baghouse within 24 hours of the observation.	II.B.3. Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Equipment
I.C.3.9	NOCOA 10380, Condition #8 (10/20/11)	Boeing Fredrickson shall record the results of all inspections conducted in accordance with the Order of Approval, and make such records available for review by Agency personnel upon request.	II.B.3. Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Equipment

4. Stationary Internal Combustion Engines

This section includes all stationary reciprocating internal combustion engines that are affected sources subject to the NSPS requirements in 40 CFR Part 60, Subpart IIII for Stationary Compression Ignition Internal Combustion Engines, and to the NESHAP requirements in 40 CFR 63, Subpart ZZZZ for Stationary Reciprocating Internal Combustion Engines (RICE).

The table below is for information only and does not necessarily include all units that may be subject to the requirements of this section. Data in italics are for information only and are not enforceable conditions of this permit.

Bldg.	Col./Door	MSS/ID#	NOCOA	Install Date	Source Description	40 CFR 60 Subpart IIII?	40 CFR 63 Subpart ZZZZ?
24-39	*Dr. N1*	*A59006*	*Not applicable*	*1992*	*Model year 1991 Caterpillar Model 3208 diesel emergency fire pump rated at 235 hp (classification: Existing <500 hp)*		✓
24-40	*Dr. W5*	*A59001*	*Not applicable*	*1992*	*Model year 1991 Cummins model NTA-855-02 diesel emergency stationary generator rated at 465 hp (classification: Existing <500 hp)*		✓
24-50	*Dr. E16*	*A62023*	*Not applicable*	*1992*	*Model year 1992 Caterpillar Model 3512 DITA diesel emergency stationary generator rated at 1592hp (classification: Existing >500 hp)*		✓
24-60	*Dr. E17*	*A59424*	*Not applicable*	*1992*	*Model year 1991 Cummins Model KTTA 50/62 diesel emergency stationary generator rated at 2220hp (classification: Existing >500 hp)*		✓

Table 7. Applicable Requirements – Stationary Internal Combustion Engines

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
NESHAP Subpart ZZZZ for Stationary Internal Combustion Engines Requirements in this section are the applicable requirements from 40 CFR 63, Subpart ZZZZ *NOTE: 40 CFR 63.6640(f)(2)(ii)&(iii) (1/30/13) have been vacated per Delaware v. EPA 785 F.3d 1 (D.C. Cir 2015). An emergency stationary RICE may not be operated for the purposes specified in 40 CFR 63.6640(f)(2)(ii)&(iii) (1/30/13) unless it meets the applicable requirements for a non-emergency engine.*			
I.B.4.1	40 CFR 63.6590(b)(1) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	The requirements of Subpart ZZZZ (including the provisions of Subpart A to 40 CFR 63 that are incorporated by reference into Subpart ZZZZ), except for the initial notification requirements of 40 CFR 63.6645(f), do not apply to new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP.	No monitoring required
I.B.4.2	63.6590(b)(3) (iii) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	The requirements of Subpart ZZZZ (including the provisions of Subpart A to 40 CFR 63 that are incorporated by reference into Subpart ZZZZ), and including initial notification requirements, do not apply to existing emergency stationary RICE with a site rating of more than 500 brake HP.	No monitoring required
I.B.4.3	40 CFR 63.6590(c)(6) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	A new or reconstructed compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP must meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR part 60 subpart IIII, for CI engines. No further requirements apply for such engines under this part.	II.A.3.b. Documentation on File
I.B.4.4	40 CFR 63.6595(a)(3) &(a)(5) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson shall comply with the applicable emission limitations and operating limitations in 40 CFR 63, Subpart ZZZZ upon startup of the affected source if Boeing Frederickson: - Starts up a new or reconstructed non-emergency stationary RICE with a site rating of more than 500 brake HP after August 16, 2004, or - Starts up a new or reconstructed non-emergency stationary RICE with a site rating of less than or equal to 500 brake HP after January 18, 2008.	II.B.4.a. RICE NESHAP (40 CFR 63 Subpart ZZZZ) Monitoring, Maintenance and Recordkeeping

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.4.5	40 CFR 63.6595(c) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson must meet the applicable notification requirements in 40 CFR 63.6645 and in 40 CFR 63, Subpart A.	V.Q.2.c. RICE NESHAP (40 CFR 63 Subpart ZZZZ) Notification & Reporting Requirements
I.B.4.6	40 CFR 63.6602 (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For an existing stationary RICE with a site rating of equal to or less than 500 brake HP, Boeing Frederickson must comply with the requirements in Table 2c to 40 CFR 63, Subpart ZZZZ.	II.B.4.a. RICE NESHAP (40 CFR 63 Subpart ZZZZ) Monitoring, Maintenance and Recordkeeping
I.B.4.7	Table 2c to 40 CFR 63, Subpart ZZZZ (3/6/13) 40 CFR 63.6625(h) (1/30/13) 40 CFR 63.6640(a) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For existing stationary RICE with site rating ≤ 500 brake HP, during period of startup, Boeing Frederickson must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. Boeing Frederickson can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.	II.B.4.a. RICE NESHAP (40 CFR 63 Subpart ZZZZ) Monitoring, Maintenance and Recordkeeping

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.4.8	Table 2c to 40 CFR 63, Subpart ZZZZ (4/1/13) 40 CFR 63.6640(a) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For existing emergency stationary CI RICE with site rating ≤ 500 brake HP, except during periods of startup, Boeing Frederickson must: - Change oil and filter every 500 hours or annually, whichever comes first. Boeing Frederickson has the option to utilize an oil analysis program as described in 40 CFR 63.6625(i) in order to extend the specified oil change requirement. - Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; - Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. Boeing Frederickson can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.	II.B.4.a. RICE NESHAP (40 CFR 63 Subpart ZZZZ) Monitoring, Maintenance and Recordkeeping
I.B.4.9	40 CFR 63.6605(a) (4/1/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson must be in compliance with the emission limitations, operating limitations, and other requirements in 40 CFR 63, Subpart ZZZZ that apply at all times.	II.B.4.a. RICE NESHAP (40 CFR 63 Subpart ZZZZ) Monitoring, Maintenance and Recordkeeping
I.B.4.10	40 CFR 63.6605(b) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	At all times Boeing Frederickson must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require Boeing Frederickson to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	II.B.4.a. RICE NESHAP (40 CFR 63 Subpart ZZZZ) Monitoring, Maintenance and Recordkeeping

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.4.11	40 CFR 63.6625(e) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson must operate and maintain the existing emergency stationary RICE with a site rating of less than or equal to 500 HP and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	II.B.4.a. RICE NESHAP (40 CFR 63 Subpart ZZZZ) Monitoring, Maintenance and Recordkeeping
I.B.4.12	40 CFR 63.6625(f) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson must install a non-resettable hour meter if one is not already installed on the existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP.	No monitoring required
I.B.4.13	Table 6 to NESHAP Subpart ZZZZ (1/30/13) 40 CFR 63.6640(a) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	For existing emergency stationary RICE ≤500 HP, Boeing Frederickson shall demonstrate continuous compliance by: - Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or - Developing and following a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	II.B.4.a. RICE NESHAP (40 CFR 63 Subpart ZZZZ) Monitoring, Maintenance and Recordkeeping
I.B.4.14	40 CFR 63.6640(f) (introductory language) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson must operate the emergency stationary RICE according to the requirements in 40 CFR 63.6640(f)(1) through (f)(3). In order for the engine to be considered an emergency stationary RICE, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year is prohibited. If Boeing Frederickson does not operate the engine according to the requirements in 40 CFR 63.6640(f)(1) through (f)(3), the engine may not be considered an emergency engine and may need to meet all requirements for non-emergency engines, as determined by the Agency.	II.B.4.a. RICE NESHAP (40 CFR 63 Subpart ZZZZ) Monitoring, Maintenance and Recordkeeping

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.4.15	40 CFR 63.6640(f)(1) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	There is no time limit on the use of emergency stationary RICE in emergency situations.	No monitoring required
I.B.4.16	40 CFR 63.6640(f)(2) except (f)(2)(ii)&(iii) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Boeing Frederickson may operate the emergency stationary RICE for the purposes specified in paragraph (i) as shown below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 63.6640(f)(3) counts as part of the 100 hours per calendar year allowed. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. Boeing Frederickson may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if Boeing Frederickson maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.	II.A.3.b. Documentation on File
I.B.4.17	40 CFR 63.6640(f)(3) (1/30/13) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	Emergency stationary RICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in 40 CFR 63.6640 (f)(2)(i). The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.	II.A.3.b. Documentation on File

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.4.18	40 CFR 63.6665 (3/3/10) PSCAA Reg III: 2.02 (4/23/15) *(State Only)* PSCAA Reg I: 3.25 (9/26/19) *(State Only)*	New or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP do not need to comply with any of the requirements of the General Provisions specified in Table 8 or 40 CFR 63, Subpart A. Existing emergency stationary RICE with a site rating of more than 500 brake HP do not need to comply with any of the requirements of the General Provisions specified in Table 8 to 40 CFR 63 Subpart ZZZZ, or 40 CFR 63, Subpart A. New emergency stationary RICE with a site rating of more than 500 brake HP do not need to comply with the requirements in the General Provisions specified in Table 8 or 40 CFR 63, Subpart A except for the initial notification requirements.	No monitoring required
RESERVED: I.B.4.19 through I.B.4.32			
PSCAA Requirements			
I.B.4.33	PSCAA Reg I: 9.20(a) (6/9/88) RCW 70.94.152(7) *1996 (State Only)*	Maintain equipment in good working order that has received an NOCOA.	II.A.2. O&M Plan Requirements
I.B.4.34	PSCAA Reg I: 9.08(a) (4/14/94) PSCAA Reg I: 9.08(a) *(3/25/04) (State Only)* RCW 70.94.610 *(1991) State only*	It shall be unlawful for any person to cause or allow combustion of oil that exceeds any of the following limits unless allowed by a PSCAA NOCOA issued under Reg I: 6.07. All limits are the maximum allowed except flash point, which is the minimum allowed. *(Note: In the 3/25/04 version of Reg. I, 9.08(a), the reference to Reg I: 6.07 is changed to Article 6.)*: • Ash 0.1% • Sulfur, used oil 1.0% • Sulfur, fuel oil 2.00% • Lead 100 ppm • Arsenic 5 ppm • Cadmium 2 ppm • Chromium 10 ppm • Total halogens 1,000 ppm • PCBs 2 ppm • Flash point 100 °F	II.A.3.c. Fuel Oil Purchase Specification

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

5. **RESERVED**
6. **RESERVED**
7. **RESERVED**
8. **RESERVED**
9. **RESERVED**

10. Chemical Process Tankline Operations

This section includes activities and equipment associated with chemical process tankline operations for research and development (R&D) that have specific applicable requirements other than the general requirements in Section I.A. The table below includes activities and equipment that have received Orders of Approval or were registered with the PSCAA. This table does not necessarily include all activities or equipment that may be subject to the requirements of this section; activities or equipment that have not received an NOCOA or were not previously registered with the PSCAA are not included in the table.

Bldg.	Col/Dr	MSS/ID#	Order of Approval #	Date Installed	Source Description
24-60	*M/N 1.7*	*59998*	*3909*	*1993*	*14,500 CFM Packed Bed Scrubber on South side of Deox Tank T-14 (Aldox V). No other tanks vent to this scrubber. Penetrant Inspection Tankline.*
24-60	*M/N 1.7*	*59999*	*3909*	*1993*	*14,500 CFM Packed Bed Scrubber on North side of Deox. Tank 14 (Aldox V). No other tanks vent to this scrubber. Penetrant Inspection Tankline.*
24-60	*M-N4.8*	*60100*	*3909*	*1992*	*22,500 CFM Packed Bed on South side of Deox. Tank T-6 (Aldox V). No other tanks vent to this scrubber. Boric/Sulfuric Anodizing Tankline.*
24-60	*M-N4.8*	*60101*	*3909*	*1992*	*22,500 CFM Packed Bed on North side of Deox. Tank T-6 (Aldox V). No other tanks vent to this scrubber. Boric/Sulfuric Anodizing Tankline.*

Table 8. Applicable Requirements – Chemical Process Tankline Operations

Reqmt No.	Enforceable Requirement	Requirement Paraphrase (For Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)
I.B.10.1	PSCAA Reg I: 9.20(a) (6/9/88) RCW 70.94.152(7) *1996 (State Only)*	Maintain equipment in good working order that has received an NOCOA.	II.A.1.c. Facility Inspections II.B.10.a. Scrubber Inspections
I.B.10.2	PSCAA Reg I: 9.03 (3/11/99) *(3/25/04) (State Only)* WAC 173-400-040(1) (9/20/93) *(9/16/18) (State Only)*	Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour	II.A.1.c. Facility Inspections II.B.10.a. Scrubber Inspections
I.B.10.3	PSCAA Reg I: 9.09 (4/9/98)	Shall not emit particulate matter in excess of 0.05 gr/dscf from equipment used in a manufacturing process and general process units, uncorrected for excess air	II.A.1.c. Facility Inspections II.B.10.a. Scrubber Inspections

Section II: Monitoring, Maintenance and Recordkeeping Methods

Where an applicable requirement in this Section II requires a record or document to be generated and/or maintained, that record or document may be in hard copy form or computer readable (electronic) form unless otherwise specified.

Boeing Frederickson must follow the applicable monitoring, maintenance, and recordkeeping described below when referenced by an applicable requirement in Section I.A, I.B, III, IV, or V.U of this permit. Except for the testing required under Section V.N.1 (Emission Testing, General) of this permit, the tests performed to satisfy the requirements of any monitoring method under Section II of this permit are monitoring tests and are not considered "compliance tests" for purposes of Section V.N.1(c) (regarding compliance test notifications) and V.N.1(d) (regarding compliance test reports) of this permit.

[WAC 173-401-615, 10/17/02 *(state only)*]

A. General Monitoring, Maintenance and Recordkeeping Methods

1. Facility-Wide Monitoring

a. Opacity Monitoring

Boeing Frederickson shall conduct visible emission inspections of the facility at least once per calendar quarter. Inspections are to be performed while the facility is in operation during daylight hours. If during a quarterly visible emissions inspection, visible emissions other than uncombined water are observed from a single unit or activity, Boeing Frederickson shall as soon as practicable but within 24 hours of the initial observation:

i. Take corrective action, which may include shutting down the unit or activity until it can be repaired, until there are no visible emissions (or until the unit or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method); or,

ii. Determine the opacity using the reference test method; or

iii. Observe for a minimum of 15 minutes, or until visible emissions have been observed for a total of 45 seconds, whichever is a shorter period. If visible emissions other than uncombined water are observed from a single unit or activity lasting longer than 45 seconds during a 15 minute interval, Boeing Frederickson may continue to observe visible emissions for an additional 45 minutes or until visible emissions have been observed for a total of 3 minutes in the hour, whichever is a shorter period. If visible emissions are observed for a total of 3 minutes during the 60 minute observation, or if visible emissions have been observed for a total of 45 seconds during the 15 minute observation and Boeing Frederickson did not elect to continue the visible emission inspection as described above, Boeing Frederickson shall, as soon as practicable but within 24 hours of the initial observation either:

Take corrective action, which may include shutting down the unit or activity until it can be repaired, until there are no visible emissions (or until the unit or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method); or,

Determine the opacity using the reference test method.

If Boeing Frederickson observes visible emissions from an emergency generator or

generator for fire suppression pumps, Boeing Frederickson shall check to make sure that the generator is operated and maintained properly and either shut it down within 3 hours or observe visible emissions using Ecology Method 9A within 30 days.

All observations using the opacity reference test method shall be reported according to V.Q.1.f. Ecology Method 9A Reports.

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

b. Complaint Response

Boeing Frederickson shall record and commence an investigation of air pollution complaints as soon as practicable, but no later than three working days after receipt by Boeing Frederickson. Boeing Frederickson shall identify complaints regarding these emissions as follows:

i. Any emissions that are, or likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interfere with enjoyment of life and property; or

ii. Any fugitive dust emissions, or

iii. Any track-out onto paved roads open to the public, or

iv. Any emissions of odor-bearing air contaminants, or

v. Complaints regarding other applicable requirements.

Boeing Frederickson shall investigate the complaint and determine if there was noncompliance with an applicable requirement of this permit. If it is determined that there is such noncompliance, Boeing Frederickson shall as soon as practicable but no later than within 24 hours of determination of noncompliance, either correct the problem or shut down the noncompliant operation until it is repaired or corrected, or report according to Section V.Q.1.g Report of Problems Not Corrected Within 24 Hours. Failure to investigate the complaint as described above is a deviation of this permit. If noncompliance is determined, failure to either correct the noncompliance or shut down the unit or activity within 24 hours is a deviation of this permit and must be reported under Section V.M Compliance Certifications or V.Q.1.b Deviation Reports.

Boeing Frederickson shall keep records for all complaints received concerning odor, fugitive emissions or nuisance. These records must also contain the following information:

i. The date and time of the complaint,

ii. The name of the person complaining, if known,

iii. The nature of the complaint, and

iv. The date, time and nature of any corrective action taken.

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

c. Facility Inspections

Boeing Frederickson shall conduct a facility inspection at least once per calendar quarter. These inspections shall include but not be limited to (i) checking for prohibited activities under Section III of this permit, (ii) checking activities that require additional approval under Section IV of this permit (including whether required approvals have been received for the activities and they are otherwise being conducted in compliance with the applicable requirements in Section IV of this permit), and (iii) checking for compliance with the applicable requirements

in Section V.U Stratospheric Ozone and Climate Protection. The inspections shall also examine the general state of compliance with the facility-wide applicable requirements and the general effectiveness of the O&M Plan.

Operational areas may be randomly selected for inspection, but no operational area need be inspected more than once every two years under this Section II.A.1.c.

Boeing Frederickson shall, as soon as practicable but no later than 24 hours after identification, correct any potential compliance problems at any equipment or activity other than an insignificant emissions unit or activity with respect to applicable requirements for which this Section II.A.1.c. Facility Inspections, is an applicable monitoring method identified by these quarterly inspections, or any other time, shut down the equipment or activity until the problem can be corrected or report according to Section V.Q.1.g. Report of Problems not Corrected within 24 Hours. If Boeing Frederickson observes potential compliance problems for which there are no monitoring requirements under an applicable requirement and corrects that problem within 24 hours, Boeing Frederickson does not need to report this occurrence under Section V.M. Compliance Certifications or V.Q.1.b Deviation Reports.

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

d. Work Practice Inspection

Boeing Frederickson shall conduct facility wide inspections of work practice activities that are applicable requirements at least once per calendar quarter. Unless otherwise specified in Orders of Approval or PSD permits, operational areas shall be randomly sampled during the facility-wide inspection and observed for consistency with requirements in this permit, but no operational area need be inspected more than once every two years under this Section II.A.1.d.

Boeing Frederickson shall, as soon as practicable but within 24 hours of identification, take one of the following actions:

i. Correct any potential compliance problems with respect to applicable requirements for which this Section II.A.1.d. is an applicable monitoring method identified either during these quarterly inspections, or any other time; or

ii. Shut down the unit or activity to which the work practice applies until the problem can be corrected; or

iii. Report according to Section V.Q.1.g. Report of Problems not Corrected within 24 Hours.

If Boeing Frederickson observes potential compliance problems for which there are no monitoring requirements under an applicable requirement, and corrects that problem within 24 hours, Boeing Frederickson does not need to report this occurrence under Section V.M. Compliance Certifications or V.Q.1.b Deviation Reports unless the ANESHAP specifically lists the event as a noncompliance event in 40 CFR 63.749(c) or a violation in 40 CFR 63.749(i). For the purpose of determining compliance with the work practice requirements of 40 CFR 63.744(a)(1), Reqmt. No. I.B.1.17, for solvent rag management, "completing their use" means upon completion of the cleaning operation, before leaving for a break, or the end of a shift, whichever comes first.

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

e. Maintenance and Repair of Insignificant Emission Units

Boeing Frederickson shall use good industrial practices to maintain insignificant emission units. For such equipment, Boeing Frederickson shall also promptly repair defective

equipment or shut down until the equipment is repaired. Records under V.O.4. General Recordkeeping are not required for such equipment except when such equipment is inspected under II.A.1.c. Facility Inspections and a problem requiring prompt repair is discovered during the inspection.

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

f. Fugitive Dust, Track-Out, and Odor Bearing Contaminants

Boeing Frederickson shall conduct inspections of the facility for odor bearing contaminants and emissions of any air contaminant in sufficient quantities and of such characteristics and duration as is, or is likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interfere with enjoyment of life and property at least once per calendar quarter. Boeing Frederickson shall also conduct inspections to monitor for fugitive dust and track-out from the facility at least once per calendar quarter.

If a deviation from the applicable requirements identified in this permit for which this Section II.A.1.f. is an applicable monitoring method is observed during a quarterly inspection, or any other time, Boeing Frederickson shall within 24 hours of identification implement corrective actions to eliminate the deviation promptly or shut down the unit or activity at which the deviation occurs until the deviation can be corrected, or report according to Section V.Q.1.g. Report of Problems not Corrected within 24 Hours.

If Boeing Frederickson observes potential compliance problems for which there are no monitoring requirements under an applicable requirement and corrects that problem within 24 hours, Boeing Frederickson does not need to report this occurrence under Section V.M. Compliance Certifications or V.Q.1.b Deviation Reports.

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

2. Operation & Maintenance Plan Requirements

Boeing Frederickson's O&M Plan shall include equipment operation and maintenance procedures specifying how Boeing Frederickson will assure continuous compliance with PSCAA Reg. I, II and III. For insignificant emission units, refer to the requirements stated in Section II.A.1.e. Maintenance and Repair of Insignificant Emission Units of this permit. The plan shall reflect good industrial practice. In most instances, following the manufacturer's operations manual or equipment operational schedule, minimizing emissions until the repairs can be completed and taking measures to prevent recurrence of the problem may be considered good industrial practice.

Determination of whether good industrial practice is being used will be based on available information such as monitoring results, opacity observations, review of operations and maintenance procedures, and checks of the equipment and control equipment. The specific provisions of the O&M Plan, other than those required by subsection II.A.1, II.A.3 and II.B shall not be deemed part of this permit.

[WAC 173-401-615(1)(b), 10/17/02 *(State Only)*]
[PSCAA Reg. I, Section 7.09(b), 9/10/98]
[PSCAA Reg. I, 7.09(b) 12/15/16 *(State Only)]*

3. Other Monitoring, Maintenance and Recordkeeping Methods

a. Approval by the PSCAA, via NOCOA

Boeing Frederickson has presented the pertinent information to the PSCAA via a NOC and the PSCAA has issued an NOCOA indicating approval of this operation or activity. Boeing Frederickson shall remain in compliance with the NOCOA.

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

b. Documentation on File

Boeing Frederickson shall maintain documents for at least five years from the date of record, which demonstrate compliance with the requirement. Boeing Frederickson shall make the documents available to the PSCAA promptly upon request.

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

c. Fuel Oil Purchase Specification

Boeing Frederickson's fuel oil contract for the delivery of oil burned in fuel burning equipment (i.e. equipment that produces hot air, hot water, steam, or other heated fluids by external combustion of fuel) shall specify that the fuel must meet the specifications listed in PSCAA Reg. I, Section 9.08(a).

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

d. Fuel Oil Sulfur Content Monitoring Procedure

For all fuel oil deliveries, Boeing Frederickson's fuel oil contract shall specify that only fuel oil with a sulfur content not greater than 2% be delivered to the site.

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

B. Emission Unit Specific Monitoring, Maintenance and Recordkeeping Methods

In this section, if any equipment is not in use during the specified monitoring period, then no monitoring is required for that time period and the absence of monitoring is not a permit deviation.

In some cases, the frequency of the monitoring activities discussed in this section is specified by a PSCAA NOCOA, by a PSD permit, or by a regulation as being based on a "calendar" month or week. In these cases, Boeing Frederickson must perform the activity based on a "calendar" month or week. In other cases, when the term "calendar" has been omitted, "monthly" means that the maintenance or inspection activity shall be performed at least once each calendar month, on any day of that calendar month, or the inspection may be performed at least once each consecutive 28 day period, on any day of that 28 day period. "Weekly" may mean that the maintenance or inspection activity shall be performed at least once each conventional "calendar" week (i.e., Sunday through Saturday), on any day of that week, or the activity may be performed at least once each consecutive 7-day period, on any day of that consecutive 7-day period.

1. Coating, Cleaning, and Depainting Operations Monitoring, Maintenance and Recordkeeping Methods.

a. Spray Booth Filter Monitoring and Maintenance

For all spray booths using a dry exhaust filter system, Boeing Frederickson shall check the primary exhaust filters, where visible from either the front or back, for proper seating and complete coverage over the exhaust plenum. If the primary filter of a multi-stage filter system is not visible because it is covered by another stage on both the front and back or because it is covered by another stage on one side and there is no access to the other side, then it does not need to be inspected. For dry booths with a multi-stage filter system but that have no applicable requirements related to the filter's efficiency, the primary filter is the visible filter. For booths with a multi-stage filter system and which also have applicable requirements related to the filter's efficiency, the primary filter is the filter stage or stages that are necessary to meet the filter efficiency specified in the requirement.

Where an applicable requirement in this AOP (including applicable requirements originating in an NOCOA or an underlying regulatory requirement) requires an inspection, the inspection shall be conducted according to the frequency specified in the NOCOA or the underlying regulatory requirement. Otherwise, the inspection shall be conducted at least monthly or at time of use if booth is used less frequently than on a monthly basis.

If filter coverage is found to be unacceptable during inspections, or any other time, Boeing Frederickson shall, as soon as practicable but within 24 hours of the initial observation, correct filter coverage, shut down the spray booth until it can be repaired, or report according to Section V.Q.1.g. Report of Problems not Corrected within 24 Hours. Where an applicable requirement in this AOP (including applicable requirements originating in an NOCOA or an underlying regulatory requirement) requires installation of specific type of filters, at least annually Boeing Frederickson shall check to see if the correct filters are installed.

WAC 173-401-615(1)(b), *10/17/02 (State Only)*]

b. RESERVED

c. ANESHAP Enclosed Spray Gun Cleaning Systems Monitoring, Maintenance and Recordkeeping

Boeing Frederickson shall visually inspect the seals and all other potential sources of leaks associated with each enclosed spray gun cleaning system at least monthly. Each inspection

shall occur while the system is in operation. If leaks are found during the monthly inspection, or any other time, repairs shall be made as soon as practicable, but no later than 15 days after the leak was found. If the leak is not repaired by the 15th day after detection, the cleaning solvent shall be removed, and the enclosed cleaner shall be shut down until the leak is repaired or its use is permanently discontinued.

For each leak found, Boeing Frederickson shall record the identification of the leaking enclosed gun cleaning system, the date the leak was discovered and the date it was repaired.

[40 CFR 63.744(c)(1)(ii), 12/7/15]
[40 CFR 63.751(a), 12/7/15]
[40 CFR 63.752(b)(5), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

d. ANESHAP Cleaning Operations Monitoring and Recordkeeping

As appropriate if needed to demonstrate compliance, Boeing Frederickson shall record the name, vapor pressure, and documentation showing the organic HAP constituents of each cleaning solvent used for affected cleaning operations. Manufacturer's supplied data is sufficient to demonstrate compliance with this requirement.

[40 CFR 63.752(b)(1), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

Hand-wipe cleaning operations where wiping, scrubbing, mopping or other hand actions are used are not "flush cleaning."

[40 CFR 63.742, 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

For each cleaning solvent used in the hand-wipe cleaning operation at the facility that complies with the composition requirements specified in 63.744(b)(1), or for semi-aqueous cleaning solvents used for flush cleaning operations, Boeing Frederickson shall record the name, data and calculations demonstrating the solvent complies with one of the compositions requirements, and annual records of the volume of each solvent used as determined from facility purchase records or usage records. Boeing Frederickson shall demonstrate compliance with hand wipe cleaning solvent composition using manufacturer's data.

[40 CFR 63.752(b)(2), 12/7/15]
[40 CFR 63.750(a), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

For each cleaning solvent used in the hand-wipe cleaning operation at the facility that does not comply with the composition requirements in 63.744(b)(1), but does comply with the vapor pressure requirement of 63.744(b)(2), Boeing Frederickson shall record the name, composite vapor pressure, the vapor pressure test results, if appropriate, data, and calculations used to determine the composite vapor pressure, and the amount in gallons of each cleaning solvent used each month at the Boeing Frederickson facility. For single-component cleaning solvents, the vapor pressure shall be determined using Safety Data Sheets (SDS) or other manufacturer's data, standard engineering reference tests, or other equivalent methods. For blended cleaning solvents, the composite vapor pressure shall be determined by quantifying the amount of each organic compound in the blend using

manufacturer's supplied data or a gas chromatographic analysis in accordance with American Society for Testing and Materials (ASTM) E 260-91 or 96 and by calculating the composite vapor pressure of the solvent by summing the partial pressure of each component using the equation in 63.750(b)(2), Reqmt. No. I.B.1.32. The vapor pressure of each component shall be determined using manufacturer's data, standard engineering reference texts, or other equivalent methods. Alternatively, for blended solvents, Boeing Frederickson may use a composite vapor pressure supplied by the manufacturer if the manufacturer calculated the composite vapor pressure using the equation in 63.750(b)(2), Reqmt. No. I.B.1.32.

[40 CFR 63.752(b)(3), 12/7/15]
[40 CFR 63.750(a) and (b), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only)*
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only)*

For cleaning solvents that do not meet the composition or vapor pressure requirements specified in 63.744(b), Reqmt. No. I.B.1.22, and are used for an exempt hand-wipe cleaning operation listed in 63.744(e), Boeing Frederickson shall record the name and the amount of each cleaning solvent used each month for the collective exempt cleaning operation. Boeing Frederickson shall maintain a list of the exempt processes set forth in 63.744(e), Reqmt. No. I.B.1.26, to which the exempt hand-wipe cleaning operation applies.

[40 CFR 63.752(b)(4), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only)*
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only)*

e. ANESHAP Coating Operations Monitoring and Recordkeeping

i. Boeing Frederickson shall maintain the following records on the ANESHAP regulated primers and topcoats (such as primers like BMS 10-11 type I, some 10-72 primers, some uses of 10-103; topcoats like BMS 10-11 type II, 10-60 types I and II, 10-72, and 10-125) used at the site. If using manufacturer's supplied data to demonstrate compliance with the applicable organic HAP or VOC content limits, Boeing Frederickson may retain the manufacturer's documentation and annual purchase records in place of the records specified in (b) and (c) below:

[40 CFR 63.750(c), 12/7/2015]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only)*
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only)*

a) The name and VOC content as received and as applied for each primer and topcoat.

[40 CFR 63.752(c)(1), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only)*
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only)*

b) For uncontrolled primers and topcoats that meet the HAP and VOC content limits without averaging, the mass of organic HAP emitted per unit volume as applied (less water) as calculated using the procedures specified in 63.750(c)(1) through (c)(3); the mass of VOC emitted per unit volume as applied (less water and exempt solvents) as calculated using the procedures specified in 63.750(e)(1) through (e)(3), and all data, calculations, and test results used in determining the HAP and VOC contents; and the volume (gallon) of each coating formulation within each coating category used each month.

[40 CFR 63.752(c)(2), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only)*
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only)*

c) For "low HAP content" uncontrolled primers with organic HAP content less than or equal to 250 g/l less water and VOC content less than or equal to 250 g/l less water and exempt solvent, annual purchase records of the total volume of each primer purchased, and all data, calculations, and test results used in determining the organic HAP and VOC contents.

[40 CFR 63.752(c)(3), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

d) For primers and topcoats complying with the organic HAP or VOC content level by averaging, the monthly volume-weighted average masses of organic HAP and VOC emitted per unit volume of coating as applied (less water and exempt solvents) as determined by the procedures specified in 63.750(d) and (f), and all data, calculations, and test results used in determining the values.

[40 CFR 63.752(c)(4), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

ii. Boeing Frederickson shall maintain the following records on the ANESHAP regulated specialty coatings used at the site. If using manufacturer's supplied data to demonstrate compliance with the applicable organic HAP or VOC content limits, Boeing Frederickson may retain the manufacturer's documentation and annual purchase records in place of the records specified in (b) and (c) below. Regulated specialty coatings and the associated HAP and VOC limits are included in Table 1 below.

a) The name and VOC content as received and as applied for each specialty coating.

[40 CFR 63.752(c)(1), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

b) For uncontrolled specialty coatings that meet the HAP and VOC content limits without averaging, the mass of organic HAP emitted per unit volume as applied (less water) as calculated using the procedures specified in 63.750(c)(1) through (c)(3); the mass of VOC emitted per unit volume as applied (less water and exempt solvents) as calculated using the procedures specified in 63.750(e)(1) through (e)(3), and all data, calculations, and test results used in determining the HAP and VOC contents; and the volume (gallon) of each coating formulation within each coating category used each month.

[40 CFR 63.752(c)(2), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

c) For specialty coatings complying with the organic HAP or VOC content level by averaging, the monthly volume-weighted average masses of organic HAP and VOC emitted per unit volume of coating as applied as determined by the procedures specified in 63.750(d) and (f), and all data, calculations, and test results used in determining the values.

[40 CFR 63.752(c)(4), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

TABLE 9-SPECIALTY COATINGS-HAP AND VOC CONTENT LIMITS

COATING TYPE	HAP Limit g/L (lb/gallon)	VOC limit g/L (lb/gallon)
Ablative Coating	600 (5.0)	600 (5.0)
Adhesion Promoter	890 (7.4)	890 (7.4)
Adhesive Bonding Primers: Cured at 250◦F or below	850 (7.1)	850 (7.1)
Adhesive Bonding Primers: Cured above 250◦F	1030 (8.6)	1030 (8.6)
Commercial Interior Adhesive	760 (6.3)	760 (6.3)
Cyanoacrylate Adhesive	1020 (8.5)	1020 (8.5)
Fuel Tank Adhesive	620 (5.2)	620 (5.2)
Nonstructurall Adhesive	360 (3.0)	360 (3.0)
Rocket Motor Bonding Adhesive	890 (7.4)	890 (7.4)
Rubber-based Adhesive	850 (7.1)	850 (7.1)
Structural Autoclavable Adhesive	60 (.5)	60 (.5)
Structural Nonautoclavable Adhesive	850 (7.1)	850 (7.1)
Antichafe coating	660 (5.5)	660 (5.5)
Bearing coating	620 (5.2)	620 (5.2)
Caulking and Smoothing Compounds	850 (7.1)	850 (7.1)
Chemical Agent-Resistant Coating	550 (4.6)	550 (4.6)
Clear Coating	720 (6.0)	720 (6.0)
Commercial Exterior Aerodynamic Structure Primer	650 (5.4)	650 (5.4)
Compatible Substrate Primer	780 (6.5)	780 (6.5)
Corrosion Prevention System	710 (5.9)	710 (5.9)
Cryogenic Flexible Primer	645 (5.4)	645 (5.4)
Cryoprotective Coating	600 (5.0)	600 (5.0)
Dry Lubricative Material	880 (7.3)	880 (7.3)
Electric or Radiation-Effect Coating	800 (6.7)	800 (6.7)
Electromagnetic Interference (EMI) Coating	800 (6.7)	800 (6.7)
Elevated-Temperature Skydrol-Resistant Commercial Primer	740 (6.2)	740 (6.2)
Epoxy Polyamide Topcoat	660 (5.5)	660 (5.5)
Fire-Resistant (interior) Coating	800 (6.7)	800 (6.7)
Flexible Primer	640 (5.3)	640 (5.3)
Flight-Test Coatings:Missile or Single Use Aircraft	420 (3.5)	420 (3.5)
Flight-Test Coatings: All Other	840 (7.0)	840 (7.0)
Fuel Tank Coating	720 (6.0)	720 (6.0)
High-Temperature Coating	850 (7.1)	850 (7.1)
Insulation Covering	740 (6.2)	740 (6.2)
Intermediate Release Coating	750 (6.3)	750 (6.3)
Lacquer	830 (6.9)	830 (6.9)
Bonding Maskant	1,230 (10.3)	1,230 (10.3)
Critical Use and Line Sealer Maskant	1,020 (8.5)	1,020 (8.5)
Seal Coat Maskant	1,230 (10.3)	1,230 (10.3)

TABLE 9-SPECIALTY COATINGS-HAP AND VOC CONTENT LIMITS *(cont)*

COATING TYPE	HAP Limit g/L (lb/gallon)	VOC limit g/L
Metallized Epoxy Coating	740 (6.2)	740 (6.2)
Mold Release	780 (6.5)	780 (6.5)
Optical Anti-Reflective Coating	750 (6.3)	750 (6.3)
Part Marking Coating	850 (7.1)	850 (7.1)
Pretreatment Coating	780 (6.5)	780 (6.5)
Rain Erosion-Resistant Coating	850 (7.1)	850 (7.1)
Rocket Motor Nozzle Coating	660 (5.5)	660 (5.5)
Scale Inhibitor	880 (7.3)	880 (7.3)
Screen Print Ink	840 (7.0)	840 (7.0)
Extrudable/Rollable/Brushable Sealant	280 (2.3)	280 (2.3)
Sprayable sealant	600 (5.0)	600 (5.0)
Silicone Insulation Material	850 (7.1)	850 (7.1)
Solid Firm Lubricant	880 (7.3)	880 (7.3)
Specialized Function Coating	890 (7.4)	890 (7.4)
Temporary Protective Coating	320 (2.7)	320 (2.7)
Thermal Control Coating	800 (6.7)	800 (6.7)
Wet Fastener Installation Coating	675 (5.6)	675 (5.6)
Wing Coating	850 (7.1)	850 (7.1)

f. Dry Filter Spray Booth Pressure Drop Monitoring and Recordkeeping Procedure

Boeing Frederickson shall:

i. Install a differential pressure gauge across all dry particulate exhaust filter systems.

ii. Continuously monitor the pressure drop across the dry particulate filter systems.

iii. Read and record the pressure drop once per shift when regulated primers, topcoats, or specialty coatings containing inorganic HAP greater than or equal to 0.1% for carcinogens and 1.0% for non-carcinogens are being spray applied, or install an interlock system that will automatically shut down the coating spray application system if the pressure drop exceeds or falls below the filter manufacturer's recommended limit(s).

iv. Read and record the pressure drop monthly or as specified in an applicable requirement originating in an NOCOA when no regulated primers, topcoats, or specialty coatings containing inorganic HAP greater than or equal to 0.1% for carcinogens and 1.0% for non-carcinogens are being spray applied, or install an interlock system that will automatically shut down the coating spray application system if the pressure drop exceeds or falls below the filter manufacturer's recommended limit(s). If an interlock system is not used, then for any shift where pressure drop is not recorded, Boeing Frederickson must maintain records to demonstrate no regulated primers, topcoats, or specialty coating containing inorganic HAP greater than or equal to 0.1% for carcinogens and 1.0% for non-carcinogens was being spray applied.

v. If the recorded pressure drop exceeds or falls below the acceptable limits established using the procedures below, Boeing Frederickson shall shut down the operation immediately and take corrective action. The operation shall not be resumed until the pressure drop is returned to within the acceptable limits.

[40 CFR 63.745(g), 12/7/15]
[40 CFR 63.751(c), 12/7/15]
[40 CFR 63.752(d)(1) and (d)(3), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) *(State Only)*
PSCAA Reg. I, Section 3.25 (9/26/19) *(State Only)*
[WAC 173-401-615(1), 10/17/02 *(State Only)*]]

The acceptable pressure drop range shall be established using either the manufacturer's recommendations, specifications, or instruction; or shall be based on providing adequate air flow while maintaining filter integrity based on the specific design of the system. If the manufacturer's recommendations, specification, or instructions are not utilized, the low end of the range, with the exception of filter banks which have a clean filter pressure drop less than or equal to 0.03 inches of water, will be established at no less than 50 percent of the clean filter value. For filters with the clean pressure drop less than or equal to 0.03 inches of water, the low end of the range may be set at zero. The high end will be established based on operational experience to allow for adequate air flow in the specific paint booth or hangar, but no higher than the point at which the filter will fail.

[WAC 173-401-615(1), 10/17/02 *(State Only)*]]

Once each calendar quarter Boeing Frederickson shall check that the pressure gauge functions properly and that the pressure drop range is either labeled on the pressure drop log sheets, or posted on or nearby the pressure drop gauge, or shown on an electronic display screen.

[WAC 173-401-615(1), 10/17/02 *(State Only)*]]

g. ANESHAP Averaging Scheme for Primers, Topcoats and Specialty Coatings

Boeing Frederickson shall maintain records of the monthly volume-weighted average mass of organic HAP emitted per unit volume of primer, topcoat or specialty coating, as applied (less water) (Ha) for all primers, topcoats and specialty coatings 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 primer, topcoat, or specialty coating operation for which Boeing Frederickson wishes to use this averaging scheme to demonstrate compliance with the HAP content limit.

[40 CFR 63.752(c)(4), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only)*
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only)*

Boeing Frederickson shall maintain records of the monthly volume-weighted average mass of VOC emitted per unit volume of primer, topcoat or specialty coating, as applied (less water and exempt solvents) (Ga) for all primers and topcoats 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 primer, topcoat or specialty coating operation for which Boeing Frederickson wishes to use this averaging scheme to demonstrate compliance with the VOC content limit.

[40 CFR 63.752(c)(4), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only)*
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only)*

If before the beginning of any calendar month Boeing Frederickson enters into a log that a specific coating operation will only use primers with organic HAP content that does not exceed the limits in 63.745(c)(1), Reqmt. No. I.B.1.35, that a specific coating operation will only use topcoats with organic HAP content that does not exceed the limits in 63.745(c)(3), Reqmt. No. I.B.1.37, or that a specific coating operation will only use specialty coatings with organic HAP content that does not exceed the limits in 63.745(c)(5), Reqmt. No. I.B.1.39, and makes that log available to PSCAA personnel upon request, then Boeing Frederickson does not need to follow the recordkeeping requirements for averaging as described in this section for that month or months.

[WAC 173-401-650(1), 11/4/93 *(State Only)*]

If before the beginning of any calendar month Boeing Frederickson enters into a log that a specific coating operation will only use primers with VOC content that does not exceed the limits in 63.745(c)(2), Reqmt. No. I.B.1.36, that a specific coating operation will only use topcoats with VOC content that does not exceed the limits in 63.745(c)(4), Reqmt. No. I.B.1.38, or that a specific coating operation will only use specialty coatings with organic VOC content that does not exceed the limits in 63.745(c)(6), Reqmt. No. I.B.1.40 and makes that log available to PSCAA personnel upon request, Boeing Frederickson does not need to follow the recordkeeping requirements for averaging as described in this section for that month or months.

[WAC 173-401-650(1), 11/4/93 *(State Only)*]

h. RESERVED

i. PSCAA VOC Content Monitoring and Recordkeeping Procedure

Boeing Frederickson shall maintain manufacturer's SDS, or other manufacturer-supplied data on the VOC content of Commercial Aerospace Primers (BMS 10-11, Type I) and Topcoats (BMS 10-11, Type II), Aerospace Temporary Protective Coatings, and motor vehicles/mobile

equipment coatings. Boeing Frederickson shall maintain a list of the coatings described above that are used on site. For Aerospace Temporary Protective Coatings, Boeing Frederickson shall specify in the records that coatings can only be applied with aerosol cans. Boeing Frederickson shall update this list at least annually. Boeing Frederickson shall make this information available to the PSCAA upon request.

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

For coatings regulated under the 7/24/03 version of PSCAA Reg. II, 3.04(b), Reqmt. No. I.B.1.88, monthly records shall be maintained to demonstrate compliance with the standards specified in 3.04(b). The records shall include type of paint, quantity applied, and how the coating qualifies as specialty. The records shall be made available to the PSCAA upon request.

[WAC 173-401-615(1)(b), 10/17/02 *(State Only)*]
[PSCAA Reg. II, 3.04(c), 7/24/03]

2. External Combustion Monitoring, Maintenance and Recordkeeping Methods

a. External Combustion Visible Emission Monitoring

Boeing Frederickson shall check for visible emissions (exclusive of uncombined water vapor) quarterly when burning gas in boilers and heaters greater than 10 MMBtu/hr.

If during the inspection, or any other time, visible emissions other than uncombined water vapor are observed from a single source or activity, Boeing Frederickson shall as soon as practicable but within 24 hours of the initial observation:

i. Take corrective action, which may include shutting down the source or activity until it can be repaired, until there are no visible emissions (or until the source or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method); or,

ii. Determine the opacity using the reference test method; or

iii. Observe for a minimum of 15 minutes, or until visible emissions have been observed for a total of 45 seconds, whichever is a shorter period. If visible emissions other than uncombined water vapor are observed from a single source or activity lasting longer than 45 seconds during a 15 minute interval, Boeing Frederickson may continue to observe visible emissions for an additional 45 minutes or until visible emissions have been observed for a total of 3 minutes in the hour, whichever is a shorter period. If visible emissions are observed for a total of 3 minutes during the 60 minute observation, or if visible emissions have been observed for a total of 45 seconds during the 15 minute observation and Boeing Frederickson did not elect to continue the visible emission inspection as described above, Boeing Frederickson shall, as soon as practicable but within 24 hours of the initial observation either:

a) Take corrective action, which may include shutting down the source or activity until it can be repaired, until there are no visible emissions (or until the source or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method); or

b) Alternatively, determine the opacity using the reference test method.

All observations using the opacity reference test method shall be reported according to V.Q.1.f. Ecology Method 9A Reports.

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

b. Boiler NESHAP (40 CFR 63 Subpart DDDDD) Monitoring, Maintenance and Recordkeeping Methods

i. Boiler NESHAP Tune-up Procedure and Recordkeeping

Tune-ups for boilers and process heaters subject to Subpart DDDDD must be conducted according to the frequency in 40 CFR 63.7540(a)(10), (a)(11), or (a)(12), Reqmt. No. I.B.2.2 as applicable. Tune-ups shall include the following.

a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary. The burner inspection may be performed any time prior to the tune-up or delayed until the next scheduled unit shutdown, although for units where a tune-up is required under this section every 5 years, the burner inspection may be delayed until the next scheduled or unscheduled shutdown but must be inspected at least once every 72 months. At units where entry into a piece of process equipment or into

a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment.

b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.

c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. The inspection may be delayed until the next scheduled unit shutdown.

d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject.

e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, at high fire or typical operating load before and, if necessary, after the adjustments are made. Measurements may be taken using a portable CO analyzer. For purposes of this section, the term "adjustment" means any adjustment made to optimize total emission of CO under (1)(iv) of this section. If through initial CO and oxygen measurements, Boeing Frederickson determines that CO emissions are already optimized and no adjustments are necessary, then no additional CO and oxygen measurements need to be taken.

f) Maintain on-site a report containing the following information for each tune-up:

1) The initial concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load and, if adjustments were made to optimize CO during the tune-up, then the concentrations of CO and oxygen measured in the effluent steam following the adjustments;

2) A description of any corrective actions taken as part of the tune-up; and

3) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period.

This report shall be maintained on-site, and submitted to the Administrator if requested.

[40 CFR 63.7540(a)(10), (a)(11), and (a)(12), 11/20/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only)*
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only)*

ii. Boiler NESHAP Recordkeeping

Boeing Frederickson must keep records as described in this section.

a) A copy of each notification and report that Boeing Frederickson submitted to comply with Subpart DDDDD of 40 CFR 63, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that Boeing Frederickson submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv), Reqmt. No.I.A.3.15.

b) Tune-up reports required by 40 CFR 63.7540(a)(10)(vi).

c) An energy assessment report required by Table 3 of 40 CFR 63.Subpart DDDDD. A

facility that operates under an energy management program compatible with ISP 50001 that includes the affected units also satisfied the energy assessment requirement.

In accordance with 40 CFR 63.10(b)(1), Reqmt. No. I.A.3.14 all records must be in a form suitable and readily available for expeditious review, Boeing Frederickson must keep each record for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. Boeing Frederickson must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. Records can be kept off site for the remaining 3 years.

[40 CFR 63.7555(a)(1) and (h), 11/20/15; 40 CFR 63.7540(a)(10)(vi), 11/20/15; Table 3 of 40 CFR 63 Subpart DDDDD, 11/20/15; 40 CFR 63.7560, 3/21/2011; 40 CFR 63.10(b), 4/20/06]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only)*
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only)*

c. Boiler NSPS (40 CFR 60 Subpart Dc) Recordkeeping

Boeing Frederickson shall record and maintain records of the amounts of each fuel combusted during each calendar month and maintain those records for at least two years following the date of record.

[40 CFR 60.48c(g) and (i), 1/28/09]
[PSCAA Reg. I, Section 6.11 (9/26/02) (*State Only)]*
[PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only)]*

d. NO_x Monitoring

Boeing Frederickson shall inspect each boiler annually for proper fuel and air ratios and fuel-air mixing.

Boeing Frederickson shall determine compliance with NO_x emission limits from each boiler at least once during the term of this permit using one of the methods specified below:

i. Conduct compliance testing using a hand-held analyzer in accordance with EPA CTM-030, EPA CTM-034, or other method approved by PSCAA. If CTM-030 or CTM-034 is used, selection of the sampling site and sampling points must be in accordance with EPA CTM-034 Section 7.1.3, Process Boilers. Compliance will be determined by taking the average of three separate runs.

ii. Conduct compliance testing using EPA Reference Methods 3A and 7E. Measurements will be for a minimum of 60 minutes. Compliance will be determined by taking the average of three separate runs.

Emission testing shall be conducted in accordance with Section V.N of the permit.

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

3. Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Equipment

Boeing Frederickson shall inspect the cyclones, baghouses, vacuum pumps, and abrasive blast booths, which exhaust to the outside atmosphere, as described below. If the inspection is required by an applicable requirement in this AOP (including applicable requirements originating in an NOCOA or an underlying regulatory requirement), the inspection shall be conducted according to the frequency specified in the NOCOA or the underlying regulatory requirement. Otherwise, Boeing Frederickson shall inspect each unit rated above 2,000 cfm at least monthly, and each unit rate at 2,000 cfm or less at least quarterly.

Boeing Frederickson shall conduct visible emission inspections of the control equipment. Inspections are to be performed while the equipment is in operation during daylight hours. If during such inspections, or any other time, visible emissions other than uncombined water are observed from equipment, Boeing Frederickson shall, as soon as practicable but within 24 hours of the initial observation:

a. Take corrective action, which may include shutting down the unit or activity until it can be repaired, until there are no visible emissions (or until the unit or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method); or

b. Determine the opacity using the reference test method, or

c. Observe for a minimum of 15 minutes, or until visible emissions have been observed for a total of 45 seconds, whichever is a shorter period. Observations for visible emissions shall be at 15-second intervals. If visible emissions other than uncombined water are observed from a single unit or activity lasting longer than 45 seconds during a 15 minute interval, Boeing Frederickson may continue to observe visible emissions for an additional 45 minutes or until visible emissions have been observed for a total of 3 minutes in the hour, whichever is a shorter period. If visible emissions are observed for a total of 3 minutes during the 60 minute observation, or if visible emissions have been observed for a total of 45 seconds during the 15 minute observation, and Boeing Frederickson did not elect to continue the visible emission inspection as described above, Boeing Frederickson shall, as soon as practicable but within 24 hours of the initial observation either:

    i. Take corrective action, which may include shutting down the unit or activity until it can be repaired, until there are no visible emissions (or until the unit or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method); or,

    ii. Alternatively, determine the opacity using the reference test method.

d. All observations using the opacity reference test method shall be reported according to V.Q.1.f. Ecology Method 9A Reports.

e. Boeing Frederickson shall check for evidence of fugitive dust or fallout from the equipment or the exhaust stack. If the fugitive dust or fallout from the equipment or the exhaust stack is observed, Boeing Frederickson shall, as soon as practicable but no later than within 24 hours of observation, correct the problem, or shut down the operation until it is repaired or corrected.

f. Where a pressure drop gauge is required by an applicable requirement in this AOP (including applicable requirements originating in an NOCOA or an underlying regulatory requirement), a

pressure drop transmitter or gauge shall be installed to measure the pressure drop across the unit's exhaust filters. The acceptable pressure drop range shall be marked on or nearby the gauge, or on a pressure drop log. A record that the pressure drop was in the acceptable range shall be made according to the frequency specified in the NOCOA condition or at least on a monthly basis if not specified in the NOCOA.

g. If the pressure drop is not within the acceptable range, Boeing Frederickson shall, as soon as practicable but within 24 hours of the initial observation correct the pressure drop, shut down the unit or activity until it can be repaired, or report according to Section V.Q.1.g. Report of Problems not Corrected within 24 Hours.

h. Where a pressure drop gauge is required by an applicable requirement in this AOP (including applicable requirements originating in an NOCOA or an underlying regulatory requirement), the range shall be established using the manufacturer's recommendations or the low end of the range will be no less than 50 percent of the pressure differential when operating with a clean filter and the high end shall be a value based on the operational experience and will be a value below that at which the filters would reasonably be expected to fail.

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

4. Stationary Internal Combustion Engines Monitoring, Maintenance and Recordkeeping Methods

a. RICE NESHAP (40 CFR 63 Subpart ZZZZ) Monitoring, Maintenance and Recordkeeping

Boeing Frederickson has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2c to 40 CFR 63 Subpart ZZZZ, Reqmt. No. I.B.4.7 and Reqmt. No. I.B.4.8. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. Boeing Frederickson must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[40 CFR 63.6625 (i),1/30/13]

Boeing Frederickson must keep records of the maintenance conducted on existing stationary emergency RICE with a site rating of less than or equal to 500 brake HP in order to demonstrate that Boeing Frederickson operated and maintained the existing emergency stationary RICE and after-treatment control device (if any) according to Boeing Frederickson's maintenance plan.

[40 CFR 63.6655(e), 1/30/13]

For existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP that does not meet the standards applicable to non-emergency engines, Boeing

Frederickson must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Boeing Frederickson must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

[40 CFR 63.6655(f), 1/30/13]

The records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1), Reqmt. No. I.A.3.17. Boeing Frederickson must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

[40 CFR 63.6660(a) & (b), 3/3/10]

Boeing Frederickson must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1), Reqmt. No. I.A.3.17.

[40 CFR 63.6660(c), 3/3/10]

5. RESERVED

6. RESERVED

7. RESERVED

8. RESERVED

9. RESERVED

10. Chemical Process Tankline Operations

a. Scrubber Inspections

Boeing Frederickson shall inspect the packed bed wet scrubbers used to control emissions from metal finishing tankline operations as follows:

1. At least once each month, inspect each scrubber pump for proper operation. If during inspection, or any other time, it is discovered that the pump is not operating properly, Boeing Frederickson shall, within 24 hours of discovering the problem, correct the problem, shut down the operation being vented to that scrubber, or report according to Section V.Q.1.g. Report of Problems not Corrected within 24 Hours. If pump operations are fixed within 24 hours or the operation remains shut down until the pump is repaired and operating properly, Boeing Frederickson does not need to report this as a deviation under Section V.M Compliance Certification or V.Q.1.b Permit Deviation.
2. At least once each month, inspect for visible emissions exclusive of uncombined water vapor while each scrubber is in operation during daylight hours. If during such inspections, or any other time, visible emissions other than uncombined water are observed from the scrubber exhaust, Boeing Frederickson shall, within 24 hours of discovering the visible emissions:

a. Take corrective action, which may include shutting down the unit or activity until it can be repaired, until there are no visible emissions (or until the unit or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method); or

b. Determine the opacity using the reference test method, or

c. Observe for a minimum of 15 minutes, or until visible emissions have been observed for a total of 45 seconds, whichever is a shorter period. Observations for visible emissions shall be at 15-second intervals. If visible emissions other than uncombined water are observed from a single unit or activity lasting longer than 45 seconds during a 15 minute interval, Boeing Frederickson may continue to observe visible emissions for an additional 45 minutes or until visible emissions have been observed for a total of 3 minutes in the hour, whichever is a shorter period. If visible emissions are observed for a total of 3 minutes during the 60 minute observation, or if visible emissions have been observed for a total of 45 seconds during the 15 minute observation, and Boeing Frederickson did not elect to continue the visible emission inspection as described above, Boeing Frederickson shall, as soon as practicable but within 24 hours of the initial observation either:

   i. Take corrective action, which may include shutting down the unit or activity until it can be repaired, until there are no visible emissions (or until the unit or activity is demonstrated to be in compliance with all applicable opacity limitations in the permit using the reference test method); or,

   ii. Alternatively, determine the opacity using the reference test method.

d. All observations using the opacity reference test method shall be reported according to V.Q.1.f. Ecology Method 9A Reports.

If the scrubber is fixed within 24 hours or the operation remains shut down until the scrubber is repaired and operating properly, Boeing Frederickson does not need to report this as a deviation under Section V.M Compliance Certification or V.Q.1.b Permit Deviation of this permit.

3. At least once each month, check that the pH of each scrubber recirculation fluid is between 8 and 11. If the pH is not between 8 and 11, Boeing Frederickson shall, within 24 hours of discovering the problem, correct the problem, shut down the operation being vented to that scrubber, or report according to Section V.Q.1.g. Report of Problems not Corrected within 24 Hours. If the scrubber is fixed within 24 hours or the operation remains shut down until the scrubber is repaired and operating properly, Boeing Frederickson does not need to report this as a deviation under Section V.M Compliance Certification or V.Q.1.b Permit Deviation of this permit.

4. At least once each calendar quarter, inspect the nozzles of each scrubber for pluggage and even flow patterns. If plugged nozzle(s) or uneven flow patterns are observed during the inspection, or any other time, Boeing Frederickson shall, within 24 hours of discovering the problem, correct the problem, shut down the operation being vented to that scrubber, or report according to Section V.Q.1.g. Report of Problems not Corrected within 24 Hours. If the scrubber is fixed within 24 hours or the operation remains shut down until the scrubber is repaired and operating properly, Boeing Frederickson does not need to report this as a deviation under Section V.M Compliance Certification or V.Q.1.b Permit Deviation of this permit.

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

C. NOCOA and PSD Permit Specific Monitoring, Recordkeeping and Reporting

1. Topcoat Application Monitoring, Recordkeeping Requirements

The following requirements apply to spray application of the Desothane topcoat, Eclipse topcoat or equivalent topcoat in the MSS #59279 spray booth:

a. Boeing Frederickson shall maintain manufacturer's SDS, or other manufacturer-supplied data on the inorganic HAP content, organic HAP content and VOC content of the Desothane topcoat, Eclipse topcoat or equivalent topcoat.

[OA 11792, Condition 12(a), 11/20/19]

b. Boeing Frederickson shall check the dry filter systems, where visible, for proper seating and complete coverage over the exhaust plenum, and shall record the inspection. The inspection shall be conducted at least monthly or at time of use if spray coating occurs less frequently than once per month in the work position. On months when spray coating does not occur, Boeing Frederickson may keep a record indicating that no spray coating occurred during that time period in place of performing an inspection.

[OA 11792, Condition 6, 11/20/19]

Section III: Prohibited Activities

Where an applicable requirement in this Section II requires a record or document to be generated and/or maintained, that record or document may be in hard copy form or computer readable (electronic) form unless otherwise specified.

A. Adjustment for Atmospheric Conditions

Boeing Frederickson shall not vary the rate of emission of a pollutant according to atmospheric conditions or ambient concentrations of that pollutant except as directed according to air pollution episode regulations.

[WAC 173-400-205, 3/22/91]

B. Outdoor Burning

1. It shall be unlawful for any person to cause or allow any outdoor burning unless the burning is in compliance with WAC 173-425 and WAC 173-430.

   [PSCAA Reg. I, Section 8.04, 1/1/01, 9/25/08 (*State Only*); PSCAA Reg. I, Section 8.07, 9/9/99 (*State Only*); PSCAA Reg. I, Section 8.08, 5/28/09 (*State Only*)]
   [WAC 173-425-020, 10/18/90, 4/13/00 (*State Only*); WAC 173-425-030, 10/18/90, 4/13/00 (*State Only*); WAC 173-425-036, 10/18/90; WAC 173-425-050(3), 4/13/00 (*State Only*)]
   [RCW 70.94.6512, 2009 c118 § 102 (*State Only*); RCW 70.94.6514, 2009 c118 § 103 (*State Only*); RCW 70.94.6522 2009 c 118 § 203 (*State Only*); RCW 70.94.6546 2009 c 118 § 601 (*State Only*)]

2. Hand-held fire extinguishers training shall be conducted in accordance with PSCAA's Reg. I, Section 8.07.

   [PSCAA Reg. I, Section 8.04, 1/1/01, 9/25/08 (*State Only*); PSCAA Reg. I, Section 8.07, 9/9/99 (*State Only*); PSCAA Reg. I, Section 8.08, 5/28/09 (*State Only*)]
   [WAC 173-425-020, 10/18/90, 4/13/00 (*State Only*); WAC 173-425-030, 10/18/90, 4/13/00 (*State Only*); WAC 173-425-036, 10/18/90; WAC 173-425-050(3), 4/13/00 (*State Only*)]
   [RCW 70.94.6512, 2009 c118 § 102 (*State Only*); RCW 70.94.6514, 2009 c118 § 103 (*State Only*); RCW 70.94.6522 2009 c 118 § 203 (*State Only*); RCW 70.94.6546 2009 c 118 § 601 (*State Only*)]

C. Refuse Burning

It shall be unlawful for any person to cause or allow the burning of combustible refuse except in a multiple chamber incinerator provided with control equipment. It shall be unlawful for any person to cause or allow the operation of refuse burning equipment any time other than daylight hours.

[PSCAA Reg. I, Section 9.05, 12/9/93]

D. Concealment or Masking

1. Boeing Frederickson shall not cause or allow the installation or use of any means which conceals or masks an emission of an air contaminant which would otherwise violate any provisions of WAC 173-400.

   [WAC 173-400-040(7), 9/20/93, WAC 173-400-040(8), *9/16/18 (State Only)*]

2. Boeing Frederickson shall not cause or allow the installation or use of any device or use of any means which, without resulting in a reduction in the total amount of air contaminant emitted, conceals an emission of air contaminant which would otherwise violate PSCAA Reg. 1, Article 9.

   [PSCAA Reg. I, Section 9.13(a), 6/9/88 (*State Only*)]

3. Boeing Frederickson shall not cause or allow the installation or use of any device or use of any means designed to mask the emission of an air contaminant which causes detriment to health, safety or welfare of any person.

   [PSCAA Reg. I, Section 9.13(b), 6/9/88 *(State Only)*]

E. NESHAP 40 CFR 60 Circumvention

Boeing Frederickson shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable (40 CFR Part 60) standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

[40 CFR 60.12, 3/8/74]
PSCAA Reg. I, Section 6.11 (9/26/02) *(State Only)*
PSCAA Reg. I, Section 3.25 (9/26/19) *(State Only)*

F. NESHAP 40 CFR 61 Circumvention

Boeing Frederickson shall not build, erect, install, or use any article, machine, equipment, or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard under 40 CFR Part 61. Such concealment includes, but is not limited to, the piecemeal carrying out of an operation to avoid coverage by a standard that applies only to operations larger than a specified size.

[40 CFR 61.19, 11/7/85]

G. NESHAP 40 CFR 63 Circumvention

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

1. The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; and

2. The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions.

   [40 CFR 63.4(b), 4/5/02]
   PSCAA Reg. III, Section 2.02 (4/23/15) *(State Only)*
   PSCAA Reg. I, Section 3.25 (9/26/19) *(State Only)*

H. Tampering

No person shall render inaccurate any monitoring device or method required under chapter 70.94 or 70.120 RCW, or any ordinance, resolution, regulation, permit, or order in force pursuant thereto.

[WAC 173-400-105(8), 11/25/18 *(State Only)*]

I. False Statement

No person shall make any false material statement, representation or certification in any form, notice or report required under chapter 70.94 or 70.120 RCW, or any ordinance, resolution, regulation, permit or order in force pursuant thereto.

[WAC 173-400-105(6), 11/25/18 *(State Only)*]

Compliance with the applicable requirements of this Section III shall be monitored by Boeing Frederickson through Documentation on File per Section II.A.3.b of this permit, and Facility Inspections per Section II.A.1.c of this permit.

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

Section IV: Activities Requiring Additional Approval

Where applicable, Boeing Frederickson shall file notification and obtain any necessary approval from the PSCAA before conducting any of the following:

A. New Source Review

Except for the exemptions provided PSCAA Reg. I, 6.03(b) and (c), it shall be unlawful for any person to cause or allow the establishment of a new source, or the replacement or substantial alteration of control equipment installed on an existing source, unless a "NOC application" has been filed and an "OA" has been issued by the PSCAA. The exemptions in PSCAA Reg. I, 6.03(b) and (c) do not apply to projects or sources identified in PSCAA Reg. I, 6.03(a)(1) – (5).

[PSCAA Reg. I, Section 6.03(a), 9/12/96, 9/24/15 (State Only)]
[WAC 173-400-110, 12/29/12]
[WAC 173-400-114, 12/29/12]
[40 CFR 60.7(a), 02/ 12/99; 40 CFR 60.14, 10/ 17/00; 40 CFR 60.15(d); 40 CFR 63.5, 04/05/02]
[RCW70.94.152, 1996 c67§1 , 1996 c29§1 *(State Only)*]
PSCAA Reg. I, Section 6.11 (9/26/02) *(State Only)*
PSCAA Reg. I, Section 3.25 (9/26/19) *(State Only)*

B. New Source Notification

Except for projects or sources identified in PSCAA Reg. I, 6.03(a)(1) – (5), a NOC application and NOCOA are not required for the new sources identified in PSCAA's Reg. I, Section 6.03(b), provided that a complete notification is filed with the PSCAA. It shall be unlawful for any person to cause or allow establishment of a new source identified in PSCAA's Reg. I, Section 6.03(b) unless a complete notification has been filed with PSCAA.

Except for projects or sources identified in PSCAA Reg. I, 6.03(a)(1) – (5), a NOC application and NOCOA are not required for the new sources identified in PSCAA's Reg. I, Section 6.03(c), and no notification need be filed with the PSCAA. Sufficient records must be kept to document the exemption.

[PSCAA Reg. I, Section 6.03(b) & (c), 9/12/96, 9/24/15 *(State Only)*]

C. Notice of Completion

Within 30 days of completion of the installation or modification of a stationary source required to file a Notice of Construction application and obtain an Order of Approval in accordance with Regulation I, Section 6.03(a), the permittee shall file a Notice of Completion with the PSCAA. Each Notice of Completion shall be submitted on a form provided by the PSCAA, and shall specify the date upon which operation of the stationary source has commenced or will commence.

[PSCAA Reg. I, Section 6.09, 5/29/94, 3/25/04 *(State Only)]*

D. PSD

For a major modification to an existing major stationary source, as defined in WAC 173-400-720, no major modification is authorized to begin actual construction without having received a PSD permit from the Department of Ecology. The Department of Ecology is the permitting agency for the PSD program in WAC 173-400-700 through -750.

[PSCAA Reg. I, Section 6.01, 9/12/96, 6/7/18 *(State Only)*]
[WAC 173-400-113(5), 12/29/12; WAC 173-400-113(6), 12/29/12; 173-400-700 through -750, 12/29/12]

E. Asbestos

1. Boeing Frederickson shall comply with the applicable requirements of 40 CFR 61.145 (standard for demolition and renovation) and 61.150 (standard for waste disposal for manufacturing, fabricating, demolition, renovation, and spraying operations) when conducting renovation or demolition activities at the facility.

   [40 CFR 61.145, 4/7/93]
   [40 CFR 61.150, 9/18/03]

2. Boeing Frederickson shall comply with the applicable requirements of PSCAA Regulation III, Article 4 when conducting asbestos project, renovation or demolition activities at the facility.

   [PSCAA Regulation III, Section 4.03, 5/26/11 (*State Only*)]

F. Nonroad Engines

1. Boeing Frederickson shall file a Notice of Intent to Operate for non-road engine(s) that are subject to the notification requirements of WAC 173-400-035 and PSCAA Reg. I, Article 15.
   a. For nonroad engine with cumulative maximum rated brake horsepower > 2000 BHP, the notification of intent to operate and approval is required before operations begin.
   b. For nonroad engine with cumulative maximum rated brake horsepower > 500 and ≤ 2000 BHP, the notification of intent to operate is required before operations begin.

   [PSCAA Reg. I, Section 15.03 (b)(1) & (c)(1), 12/15/11 *(State Only)*]
   [WAC 173-400-035 (4)(a) & (5)(a), 9/16/18 *(State Only)*]

2. Boeing Frederickson must record the following information for each nonroad engine:
   a. Site address or location;
   b. Date of equipment arrival at the site;
   c. Date of equipment departure from the site;
   d. Engine function or purpose;
   e. Identification of each component as follows:
      i. Equipment manufacturer, model number and its unique serial number;
      ii. Engine model year;
      iii. Type of fuel used with fuel specifications (sulfur content, cetane number, etc.).

   Boeing Frederickson must keep the records of the current engine and equipment activity in hard copy or electronic form. These records can be maintained on-site or off-site for at least five years and must be readily available to the PSCAA on request.

   [WAC 173-400-035 (4)(b), (4)(c) & (5)(c), 9/16/18 *(State Only)*]
   [PSCAA Reg. I, Section 15.03 (b)(2), (b)(3) & (c)(3), 12/15/11 *(State Only)*]

3. All nonroad engines subject to the requirements of WAC 173-400-035 and PSCAA Reg. I, Article 15 must use ultra-low sulfur diesel or ultra-low sulfur bio-diesel (a sulfur content of 15 ppm or 0.0015% sulfur by weight or less), gasoline, natural gas, propane, liquefied petroleum gas (LPG), hydrogen, ethanol, methanol, or liquefied/compressed natural gas (LNG/CNG). A facility that receives deliveries of only ultra-low sulfur diesel or ultra-low sulfur bio-diesel is deemed to be compliant with this fuel standard.

   [WAC 173-400-035(3). 9/16/18 *(State Only)*]
   [PSCAA Reg. I, Section 15.05(a), 12/15/11 *(State Only)*]

4. Nonroad engines are not subject to new source review, control technology determinations, emission limits set by the SIP.

   [WAC 173-400-035(2). 9/16/18 *(State Only)*]
   [PSCAA Reg. I, Section 15.05(b), 12/15/11 *(State Only)*]

Compliance with the applicable requirements of this Section IV shall be monitored by Boeing Frederickson through Documentation on File per Section II.A.3.b of this permit, and Facility Inspections per Section II.A.1.c of this permit.

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

Section V: Standard Terms and Conditions

A. Duty to Comply

Boeing Frederickson shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of Chapter 70.94 RCW and, for federally enforceable provisions, a violation of the Federal Clean Air Act (FCAA). Such violations are grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

[PSCAA Reg. I, Section 7.05, 10/28/93]
[WAC 173-401-620(2)(a), 11/4/93 *(State Only)*]

B. Permit Actions

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by Boeing Frederickson for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

[WAC 173-401-620(2)(c), 11/4/93 *(State Only)*]

C. Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

[WAC 173-401-620(2)(d), 11/4/93 *(State Only)*]

D. Duty to Provide Information

Boeing Frederickson shall furnish to the PSCAA, within a reasonable time, any information that the PSCAA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, Boeing Frederickson shall also furnish to the PSCAA copies of records required to be kept by the permit or, for information claimed to be confidential, Boeing Frederickson may furnish such records directly to EPA Region 10 along with a claim of confidentiality. The PSCAA shall maintain the confidentiality of such information in accordance with RCW 70.94.205.

[WAC 173-401-620(2)(e), 11/4/93 *(State Only)*]

E. Permit Fees

Boeing Frederickson shall pay fees as a condition of this permit in accordance with PSCAA Reg. I, Article 7. Failure to pay fees in a timely fashion shall subject Boeing Frederickson to civil and criminal penalties as prescribed in Chapter 70.94 RCW.

[WAC 173-401-620(2)(f), 11/4/93 *(State Only)*; RCW 70.94.162, 1998 c 245p129]

F. Emissions Trading

No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

[WAC 173-401-620(2)(g), 11/4/93 *(State Only)*]

G. Severability

If any provision of this permit is held to be invalid, all unaffected provisions of the permit shall remain in effect and be enforceable.

[WAC 173-401-620(2)(h), 11/4/93 *(State Only)*]

H. Permit Appeals

This permit or any condition in it may be appealed by filing an appeal with the Pollution Control Hearings Board and serving it on the PSCAA within thirty days of receipt, pursuant to RCW 43.21B.310, RCW 70.94.161(9) and WAC 173-401-735. The provision for appeal in this section is separate from and additional to any federal rights to petition and review found under 40 CFR 505(b) of the FCAA.

[WAC 173-401-620(2)(i), 11/4/93 *(State Only)*, and WAC 173-401-735, 5/3/97 *(State Only)*]

I. Permit Continuation

This permit and all terms and conditions contained therein, including any permit shield provided under Section VII of this permit, shall not expire until the renewal permit has been issued or denied, if a timely and complete application has been submitted. An application shield granted under WAC 173-401-705(2) shall remain in effect until the renewal permit has been issued or denied if a timely and complete permit application has been submitted.

[WAC 173-401-620(2)(j), 11/4/93 *(State Only)*]

J. Federal Enforceability

The terms and conditions of this permit, including any provisions designed to limit a source's potential to emit, are enforceable by the EPA administrator and by citizens under the FCAA (i.e., are "federally enforceable"),as follows: The terms and conditions in Section I (emission limits and performance standards), Section III (prohibited activities) and Section IV (activities requiring additional approval) of the permit are federally enforceable except for those terms and conditions designated as not federally enforceable (e.g., "*State Only*"). The terms and conditions in Section II (monitoring, maintenance and recordkeeping methods), Section V (standard terms and conditions), Section VI (permit actions) and Section VII (permit shield) of this permit are federally enforceable (even though the *cited authority* for those terms and conditions might be designated as a "State Only" provision -- such as a requirement of WAC Chapter 173-401)), but only to the extent that they implement federally enforceable terms and conditions in Section I (emission limits and performance standards), Section III (prohibited activities) or Section IV (activities requiring additional approval).

[WAC 173-401-625, 11/4/93 *(State Only)*]

K. Inspection and Entry

Upon presentation of credentials and other documents as may be required by law, Boeing Frederickson shall allow the PSCAA or an authorized representative to:

1. Enter Boeing Frederickson's premises or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices or operations regulated or required under the permit; and

4. As authorized by WAC 173-400-105 and the FCAA, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

[WAC 173-401-630(2), 3/5/16 *(State Only)*]
[PSCAA Reg. I: 3.05, 2/10/1994 (*State Only*)]
[RCW 70.94.200 1987 c109 §38 (*State Only*)]

L. Compliance Requirements

Boeing Frederickson shall continue to comply with all applicable requirements with which the source is currently in compliance. Boeing Frederickson shall meet on a timely basis any applicable requirements that become effective during the permit term.

[WAC 173-401-630(3), 3/5/16 *(State Only)*]

M. Compliance Certifications

Boeing Frederickson shall submit a certification of compliance with the permit terms and conditions once per year. The compliance certification shall include the following:

1. The identification of each term or condition of the permit that is the basis of the certification;

2. The compliance status;

3. Whether compliance was continuous or intermittent; and

4. The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with WAC 173-401-615(3)(a).

All compliance certifications shall be submitted to EPA Region 10 and to the PSCAA, at the following addresses (or different address if requested by EPA or PSCAA), by February 28 for the previous calendar year:

Puget Sound Clean Air Agency	EPA Region 10, Mail Stop OAQ-107
Attn: Operating Permit Certification 1904 3rd Ave, Suite 105 Seattle, Washington 98101	Attn: Air Operating Permit 1200 Sixth Avenue Seattle, Washington 98101

[WAC 173-401-630(5), 3/5/16 *(State Only)*]

N. Compliance Determination

1. Emission Testing - General

   a. For the purpose of determining compliance with an emission standard, the PSCAA or Ecology may conduct testing of an emission unit or require Boeing Frederickson to have it tested. In the event the PSCAA or Ecology conduct the test, Boeing Frederickson shall be given an opportunity to observe the sampling and to obtain a sample at the same time.

   [PSCAA Reg. I, Section 3.05(b), 2/10/94 (*State Only*)]
   [WAC 173-400-105(4), 11/25/18 (*State Only*)]

b. Testing of sources for compliance with emissions standards shall be performed in accordance with the Reference Test Methods identified in Section I of this permit, except where this permit indicates that a specific Reference Test Method is not needed or appropriate, or PSCAA has approved in writing an alternative test method.

[PSCAA Reg. I, Section 3.07(a), 3/23/06 (*State Only*)]

c. Boeing Frederickson shall notify the PSCAA in writing at least 21 days prior to any compliance test in order to provide the PSCAA an opportunity to review the test plan and to observe the test. Notification of a compliance test shall be submitted on forms provided by the Agency. Test notifications using the Agency forms do not constitute test plans. Compliance with this notification provision does not satisfy any obligation found in an order or other regulatory requirement to submit a test plan for Agency review. Notification under Section 3.07(b) of Reg. I does not waive or modify test notification requirements found in other applicable regulations.

[PSCAA Reg. I, Section 3.07(b), 3/23/06 (*State Only)]*

d. Boeing Frederickson, if required by the PSCAA to perform a compliance test, shall submit a report to the PSCAA no later than 60 days after the test. The report shall include:

i. A description of the source and the sampling location;

ii. The time and date of the test;

iii. A summary of results, reported in units and for averaging periods consistent with the applicable emission standard;

iv. A description of the test methods and quality assurance procedures employed;

v. The amount of fuel burned or raw material processed by the source during the test;

vi. The operating parameters of the source and control equipment during the test;

vii. Field data and example calculations; and

viii. A statement signed by the senior management official of the testing firm certifying the validity of the source test report.

[PSCAA Reg. I, Section 3.07(c), 3/23/06 (*State Only*)]

2. Credible Evidence

For the purpose of establishing whether or not a person has violated or is in violation of this permit, nothing in PSCAA Reg. I shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.

[PSCAA Reg. I, Section 3.06, 10/8/98]

O. General Recordkeeping

Boeing Frederickson shall maintain in hard copy or computer readable form of the following, where applicable:

1. Records of required monitoring information that include the following:

a. The date, place as defined in the permit, and time of sampling or measurements;

b. The date(s) analyses were performed;

c. The company or entity that performed the analyses;

d. The analytical techniques or methods used;

e. The results of such analyses; and

f. The operating conditions existing at the time of sampling or measurement.

[WAC 173-401-615(2)(a), 10/17/02 *(State Only)*]

2. Records describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

[WAC 173-401-615(2)(b), 10/17/02 *(State Only)*]

3. Records of all monitoring data and support information required by this permit shall be retained in hard copy or computer readable form by Boeing Frederickson for a period of five years from the date of the monitoring, sample, measurement, record or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

[WAC 173-401-615(2)(c), 10/17/02 *(State Only)*]

4. Boeing Frederickson shall keep records of all inspections, tests and other actions required by Sections II.A.1, II.A.3, II.B, and II.C of this permit, including the date and the results of the inspection, tests or other actions including corrective actions. All records required under this item will be available for PSCAA review.

[PSCAA Reg. I, Section 7.09(b), 9/10/98, 12/15/16 (*State Only*)]

P. Data Recovery

1. If the specific monitoring and recordkeeping requirements in Section II of this permit do not address data recovery provisions then the required data recovery is assumed to be 100% except as described in this section. However, no data need be collected during any period that the monitored process does not operate.

2. The Deviation Reports required by Section V.Q.1.b. shall include an explanation for any instance in which Boeing Frederickson failed to meet the data recovery requirements of this condition for any monitored process or parameter and any instances of reconstructing lost data. The explanation shall include the reason that the data was not collected and any actions that Boeing Frederickson will take to insure collection of such data in the future.

3. Failure to recover the required amount of monitoring may be excused from penalty during any period during periods of monitoring system breakdown, malfunction, repairs, calibration checks, and acts of God deemed to be unavoidable. In determining whether a monitoring failure was unavoidable, the following factors shall be considered:

   a. Whether the event was caused by poor or inadequate design, operation, maintenance, or any other reasonably preventable condition;

   b. Whether the event was of a recurring pattern indicative of inadequate design, operation, or maintenance; and

c. Whether Boeing Frederickson took immediate and appropriate corrective action in a manner consistent with good air pollution control practice.

4. The occasional and unintentional loss or omission of required records shall not constitute a reportable permit deviation, provided Boeing Frederickson, upon discovery of the missing records, is able to reconstruct the required information from other verified data sources.

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

Q. Reporting & Notification Requirements

1. General Reporting Requirements

a. Semiannual Operating Permit Reports

Boeing Frederickson shall submit any monitoring reports required to be submitted by this permit to the PSCAA at least once every six months. All instances of deviations from permit requirements must be clearly identified in such reports, if they have not already been disclosed in a deviation report pursuant to Q.1.b., below. All such required reports must be certified by a responsible official consistent with WAC 173-401-520. The report periods and due dates are as shown below:

Reporting period covering January 1 – June 30. Report due date is August 30.

Reporting period covering July 1 – December 31. Report due date is February 28.

[WAC 173-401-615(3)(a), 10/17/02 *(State Only)*]

b. Deviation Reports

Boeing Frederickson shall report in writing to PSCAA Operating Permit Certification all instances of deviations from the permit requirements, including those attributable to upset conditions as defined in this permit, the probable cause of the deviations, and any corrective actions or preventive measures taken. "Deviation" means any situation in which an emission unit fails to meet a permit term or condition. Boeing Frederickson shall maintain in hard copy or computer readable form a contemporaneous record of all deviations. Boeing Frederickson shall report any deviations to the PSCAA that represent a potential threat to human health or safety by FAX (206-343-7522) as soon as possible but no later than 12 hours after such a deviation is discovered.

Boeing Frederickson shall report other deviations in writing to PSCAA Operating Permit Certification on a monthly basis, within 30 days after the end of the month in which the deviation is discovered. Boeing Frederickson is not required to submit a monthly report for months during which there were no deviations, except that if there are no deviations during a calendar half, Boeing Frederickson must report that there were no deviations by August 30 for the reporting period January 1 through June 30, and by February 28 for the reporting period between July 1 through December 31.

Boeing Frederickson shall report to the PSCAA any instances where it failed to promptly repair any defective equipment.

A deviation report may be certified by a responsible official as provided in V.Q.1.c. at the time of submittal; however it is not required to be certified at the time of submittal. Any Deviation Report not certified at the time of submittal must be certified in the semiannual Operating Permit Report as per V.Q.1.a.

[WAC 173-401-615(3)(b), 10/17/02 *(State Only)*]

c. Certification by Responsible Official

Any application form, report, or compliance certification submitted pursuant to WAC 173-401 shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under WAC 173-401 shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

[WAC 173-401-520, 11/4/1993 *(State Only)*]

The following application forms, reports, and compliance certifications must be certified upon submittal:

i. Annual Air Operating Permit Compliance Certification (WAC 173-401-630(5) (3/5/16) *(State Only)*)

ii. Semi-annual Air Operating Permit Report (WAC 173-401-615(3)(a) (10/17/02) *(State Only)*)

iii. Administrative Permit Amendment Requests (WAC 173-401-720 (11/4/93) *(State Only)*)

iv. Minor Permit Modification Application (WAC 173-401-725 (11/4/93) *(State Only)*)

v. Significant Permit Modification Application (WAC 173-401-725 (11/4/93) *(State Only)*)

vi. Permit Renewal (WAC 173-401-710 (10/17/02) *(State Only)*)

vii. ANESHAP semiannual report (40 CFR 63.753(b)(1) (12/7/15), 40 CFR 63.753(c)(1) (9/1/98))

viii. ANESHAP annual report (40 CFR 63.753(c)(2) (12/7/15))

ix. Boiler NESHAP compliance report (40 CFR 63.7550 (2/7/08))

For all other applications forms, reports, and compliance certifications, the responsible official's certification needs only to be submitted once every six months, covering all such documents that were not certified upon submittal submitted by Boeing Frederickson since the date of the last certification, provided that the certification specifically identifies all documents subject to the certification.

[WAC 173-401-615(3)(a), 10/17/02 *(State Only)*]

d. Reporting Submittal

All reports required to be submitted to the PSCAA under this section V.Q shall be submitted to PSCAA, at the following address:

Puget Sound Clean Air Agency

Attn.: Operating Permit Certification

1904 3rd Ave, Suite 105

Seattle, Washington 98101

Boeing Frederickson shall also submit complete copies of all required compliance reports to PSCAA in electronic format as an attachment to an e-mail message to the following address: facilitysubmittal@pscleanair.gov (or other address as specified by PSCAA). The submittals considered to be subject to this requirement are identified in column 5 of the summary table in V.Q.3. The date the document is received by the Agency e-mail system shall be

considered the submitted date of the report. Original written documents shall also be submitted for record purposes. Nothing in this section waives or modifies any requirements established under other applicable regulations.

[PSCAA Reg I, Section 7.09 (c), 11/1/98, *12/15/16 (State Only)*]

e. Annual Emission Inventory

Boeing Frederickson shall report annually to the PSCAA for those air contaminants that are emitted in amounts equal to or exceeding the following (tons per year) during the previous calendar year:

Carbon monoxide (CO)	25
Facility combined total of all toxic air contaminants (TAC)	6
Any single toxic air contaminant (TAC)	2
Nitrogen oxide (NO_X)	25
Particulate matter (PM_{10})	25
Particulate matter ($PM_{2.5}$)	25
Sulfur oxide (SO_X)	25
Volatile organic compounds (VOC)	25
Lead	0.5

Annual emissions rates shall be reported to the nearest whole ton per year for only those contaminants that equal or exceed the thresholds above. Boeing Frederickson shall submit to the PSCAA any additional information required by WAC 173-400-105(1) or PSCAA Reg. III, Section 1.11.

[PSCAA Reg. I, Section 7.09(a), 12/15/16 (*State Only*)]
[PSCAA Reg. I, Section 7.09(a), 11/1/98]

f. Ecology Method 9A Reports

Boeing Frederickson shall report to the PSCAA results of all opacity monitoring using Ecology Method 9A within 30 days after the end of the month that the measurement occurred. These reports will be certified in accordance with V.Q.1.c. at least semi-annually.

[WAC 173-401-615(3)(a), 10/17/02 *(State Only)*]

g. Report of Problems not Corrected within 24 hours

If Boeing Frederickson is reporting a problem (such as leak, out of range pressure drop, out of range pH, or other problem, as applicable) in lieu of correcting it or shutting down the associated equipment or activity in accordance with Section II.A.1.b Complaint Response; Section II.A.1.c Facility Inspections; Section II.A.1.d Work Practice Inspections; Section II.A.1.f Fugitive Dust, Track-out, and Odor Bearing Contaminants; Section II.B.1(a) Spray Booth Filter Monitoring and Maintenance; Section II.B.3(g) Abrasive Blasting, Cyclones, Baghouses and Other Particulate Control Equipment; and II.B.10(a)(1), (3) and (4) Chemical Process Tankline Operations, then Boeing Frederickson shall report to the Agency in writing via email to facilitysubmittal@pscleanair.gov, the nature of the problem and Boeing Frederickson's intent to continue operating while seeking to address the problem. In addition, Boeing Frederickson shall also submit a deviation report pursuant to V.Q.1.b. Permit Deviation.

Nothing in this Section V.Q.1.g. shall be construed to extend the deadlines for submitting deviation reports under Section V.Q.1.b., notifications of emergencies under Section V.R - Emergencies, or reports of unavoidable excess emissions under Section V.S.

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

h. Washington State Program for Reporting of Emissions of Greenhouse Gases

In accordance with WAC 173-441, if Boeing Frederickson emits 10,000 metric tons of CO2e (carbon dioxide equivalents) or more per calendar year from this facility, as described under WAC 173-441-030, Boeing Frederickson shall comply with the requirements the Washington State Program for Reporting of Emissions of Greenhouse Gases. Emission reports, if required, shall follow the reporting schedules and documentation requirements specified in WAC 173-441-050. This requirement does not apply to voluntary emission reporting as provided in WAC 173-441-030(4).

[Chapter 173-441 WAC, 3/1/15 (*State Only*)]

2. Specific Notification & Reporting Requirements

The applicable notification & reporting requirements of 40 CFR 60 Subpart A and 40 CFR 63 Subpart A are identified in Section I.A.2. and I.A.3. of this permit and not repeated in this section.

a. ANESHAP Notification & Reporting Requirements

i. Notification of Compliance Status. No later than 240 days after the startup date of a new or reconstructed affected source, or 60 days after the performance test (if one is performed), whichever is earlier, the facility shall submit a Notification of Compliance Status to PSCAA Operating Permit Certification in accordance with Reqmt. No. I.A.3.13 (40 CFR Section 63.753(a)(1), 12/7/15, and the applicable provision of 40 CFR Section 63.9(h)(5/30/01)).

[40 CFR Section 63.753(a)(1), 12/7/15 and 40 CFR Section 63.9(h), 5/30/03]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only)*
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only)*

ii. Semiannual Compliance Reports. Boeing Frederickson shall submit a semiannual compliance report to PSCAA Operating Permit Certification in accordance with Sections V.Q.1.a. and V.Q.1.c. (40 CFR 63.753(b)(1), (c)(1) and (d)(1))

This semiannual report shall include the following:

a) Any instance where a noncompliant cleaning solvent (i.e., a hand-wipe cleaning solvent not meeting the requirements of Reqmt. No. I.B.1.23 of this permit) is used for a nonexempt hand-wipe cleaning operation;

b) A list of any new cleaning solvents used for hand-wipe cleaning in the previous 6 months and, as appropriate, their composite vapor pressure or notification that they comply with the composition requirements specified in 40 CFR 63.744(b)(1), Reqmt. No. I.B.1.23 of this permit.

c) Any instances where a noncompliant spray gun cleaning method (a spray gun cleaning method not meeting the requirements of Reqmt. No. I.B.1.24 of this permit) is used;

d) Any instance where a leaking enclosed spray gun cleaner remains unrepaired and in use for more than 15 days contrary to Reqmt. No. I.B.1.29 of this permit;

e) If the cleaning operations have been in compliance for the semiannual period, a statement that the cleaning operations have been in compliance with the applicable standards. Boeing Frederickson shall also submit a statement of compliance signed by a responsible company official certifying that the facility is in compliance with all applicable requirements in Reqmt. Nos. I.B.1.15 through I.B.1.32.

f) For primers, topcoats and specialty coatings where compliance is not being achieved through the use of averaging or a control device, the HAP or VOC content in manufacturer's supplied data as recorded under Section II.B.1.e (40 CFR 63.752(c)), or each value of Hi and Gi, as recorded under Section II.B.1.e (40 CFR 63.752(c)(2)(i)), that exceeds the applicable organic HAP or VOC content limit in Reqmt. Nos. I.B.1.35 through I.B.1.40 of this permit as determined according to Reqmt. No. I.B.1.45 for primers, and Reqmt. No. I.B.1.50 for topcoats; and Reqmt. No. I.B.1.51 for specialty coatings;

g) For primers, topcoats, and specialty coatings where compliance is being achieved through the use of averaging, each value of Ha and Ga, as recorded under Reqmt. No II.B.1.e (40 CFR 63.752(c)(4)(i)), that exceeds the applicable organic HAP or VOC content limit in Conditions I.B.1.35 through, I.B.1.40 of this permit as determined according to Reqmt. No. I.B.1.45 of this permit for primers, Reqmt. No. I.B.1.50 of this permit topcoats, Reqmt. No. I.B.1.51 for specialty coatings.

h) All times when a primer or topcoat application operation was not immediately shut down when the pressure drop across a dry particulate filter or HEPA filter system was outside the limit(s) specified by the filter or booth manufacturer or in locally prepared operating procedures;

i) If the primer and topcoat operations have been in compliance for the semiannual period, a statement that the operations have been in compliance with the applicable standards in Reqmt. Nos. I.B.1.33 through I.B.1.43 as determined according with Reqmt. Nos. I.B.1.44 through I.B.1.52 of this permit, and the applicable standards in I.B.1.53 through I.B.1.61 as determined in accordance with I.B.1.62 through I.B.1.63.

j) RESERVED

[40 CFR 63.753(a)(5), (b)(1), (c)(1) and (d)(1), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

iii. Annual ANESHAP Compliance Certification Reports. Boeing Frederickson shall submit an annual compliance certification report to PSCAA Operating Permit Certification by February 28 of each year for the period covering the preceding calendar year in accordance with 40 CFR 63.753(c)(2), 12/7/15.

[40 CFR 63.753(c)(2) & (d)(2), 12/7/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

b. Boiler NESHAP Notification & Reporting Requirements

i. RESERVED

ii. Notification of Fuel Switch or Physical Change. If Boeing Frederickson has switched fuels or made a physical change to the boiler and the fuel switch or physical change resulted in the applicability of a different subcategory, Boeing Frederickson must provide notice of the date upon which Boeing Frederickson switched fuels or made the physical change within 30 days of the switch/change. The notification must identify:

- The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, the location of the source, the boiler(s) and process heater(s) that have switched fuels, were physically changed, and the date of the notice.
- The currently applicable subcategory under NESHAP, Subpart DDDDD.
- The date upon which the fuel switch or physical change occurred.

[40 CFR 63.7545 (h), 11/20/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

iii. Compliance Report Schedule. Unless the EPA Administrator or PSCAA has approved for a different schedule for submission of reports under Reqmt. No. I.A.3.13 (40 CFR 63.10(a)), Boeing Frederickson may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in paragraphs (a) through (d) of this section, instead of a semi-annual compliance report.

a) The first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495 and ending on July 31 or January 31, whichever date is the first date that occurs at least 180 days (or 1, 2, or 5 years, as applicable, if submitting an annual, biennial, or 5-year compliance report) after the compliance date that is specified 40 CFR 63.7495.

b) The first compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31.

c) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31.

d) Each subsequent compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than January 31.

[40 CFR 63.7550 (b), 11/20/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

iv. Compliance Report. The compliance report shall contain the following information.

- Company and Facility name and address.
- Process unit information, emissions limitations, and operating parameter limitations.
- Date of report and beginning and ending dates of the reporting period.
- The total operating time during the reporting period.
- Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up according to Reqmt. No. I.B.2.3, (40 CFR 63.7540(a)(10), (11), or (12), respectively). Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown.
- If there are no deviations the requirements for work practice standards in Reqmt. No. I.B.2.2 (Table 3 to NESHAP, Subpart DDDDD), a statement that there were no deviations from work practice standards during the reporting period.
- Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

[40 CFR 63.7550 (c)(1) and Table 9 to Subpart DDDDD, 11/20/15]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

v. Submittal using CDX. Boeing Frederickson must submit the compliance report electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX)(www.epa.gov/cdx). However, if the reporting form specific to NESHAP, Subpart DDDDD is not available in CEDRI at the time that the report is due Boeing Frederickson must submit the report to the Administrator at the appropriate address listed in 40 CFR 63.13. At the discretion of the Agency, Boeing Frederickson must also submit the report, to the Agency in the format specified by the Agency.

[40 CFR 63.7550 (h)(3), 1/31/13]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

c. RICE NESHAP (40 CFR 63 Subpart ZZZZ) Notification & Reporting Requirements

Boeing Frederickson must submit the initial notification in accordance with 40 CFR 63.9(b), that applies by the date specified for a new or reconstructed stationary RICE with a site rating of more than 500 brake HP. The initial notification shall be submitted not later than 120 days after the RICE becomes subject to NESHAP, Subpart ZZZZ.

If Boeing Frederickson is required to submit an initial notification but are otherwise not affected by the requirements of this subpart, in accordance with 40 CFR 63.6590(b), the notification should include the information in 40 CFR 63.9(b)(2)(i) through (v), and a statement that the stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions).

[40 CFR 63.6645(a), (c) & (f), 1/30/13]
PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*)
PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)

3. Summary of Required Submittals

The following table contains a summary of the application forms, reports, notifications and compliance certifications to be submitted pursuant this permit.

Submittal	Required By	Paraphrased Frequency or Due Date	Certification Required per AOP section V.Q.1.c	Required to be submitted to PSCAA via email
Applications				
NESHAP Application for Approval of Construction or Reconstruction	40 CFR 63.5(d)(1)	As soon as possible prior to construction if NESHAP in effect. No later than 60 days after effective date of standard if not in effect.	Yes, within 6 months	No
Administrative permit amendment request (VI.B. Administrative Permit Amendments)	WAC 173-401-720	Can make change immediately on submission	No	No
Minor permit modification application (VI.D. Permit Modification)	WAC 173-401-725	Can make change immediately after filing application.	Yes; Upon submittal	No
Significant permit modification application (VI.E. Permit Modification)	WAC 173-401-725	As needed.	Yes; Upon submittal	No
Chapter 401 Permit renewal application	WAC 173-401-710(1)	Submitted no less than six months prior to the expiration of the permit.	Yes; Upon submittal	No

Submittal	Required By	Paraphrased Frequency or Due Date	Certification Required per AOP section V.Q.1.c	Required to be submitted to PSCAA via email
PSD permit applications (IV.A. New Source Review)	WAC 173-400-141	Before construction begins.	Yes, within 6 months	No
NOC and Application for Approval (IV.A. New Source Review IV.B Replacement or Substantial Alteration of Emission Control Technology)	PSCAA Reg. I, Article 6	Before construction begins.	Yes, within 6 months	No
Compliance Certifications				
ANESHAP Semiannual report (V.Q.2.a.ii. – ANESHAP Semiannual Compliance Certification)	40 CFR 63.753(b)(1) 40 CFR 63.753(c)(1)	Semiannually, by August 30th for the reporting period of January through June and by February 28th for the reporting period of July through December.	Yes; Upon submittal	Yes
ANESHAP annual report (V.Q.2.a.iii. Annual Compliance Certification Reports)	40 CFR 63.753(c)(2)	Annually, by February 28 for the reporting period of January through December of the previous year.	Yes; Upon submittal	Yes
Operating Permit Compliance certification (V.M. Compliance Certifications)	WAC 173-401-630(5)	Annually – February 28 for the previous calendar year. *Note: (This Report must be submitted to both EPA and PSCAA)*	Yes; Upon submittal	Yes
Compliance Reports				
Periodic startup, shutdown, malfunction report	40 CFR 63.10(d)(5)(i)	Semiannually, by August 30th for the reporting period of January through June and by February 28th for the reporting period of July through December.	Yes; within 6 months	Yes

Submittal	Required By	Paraphrased Frequency or Due Date	Certification Required per AOP section V.Q.1.c	Required to be submitted to PSCAA via email
Immediate SSM report	40 CFR 63.10(d)(5)(ii)	Telephone call (or facsimile (FAX) transmission) to the Administrator within 2 working days after commencing actions inconsistent with the plan, and it shall be followed by a letter, delivered or postmarked within 7 working days after the end of the event.	Yes for 7 day report; within 6 months	Yes
Boiler NESHAP Compliance Report (V.Q.2.b.iii)	40 CFR 63.7550 (b)	January 31st on an annual, biennial, or 5-year compliance period, as applicable.	Yes; Upon submittal	Yes
Semiannual operating permit monitoring and deviation report (V.Q.1.a. Semiannual Operating Permit Reports)	WAC 173-401-615(3)(a)	August 30 for period January 1-June 30 and February 28 for period July 1-December 31.	Yes; Upon submittal	Yes
Permit deviations which represent a potential threat to human health or safety (V.Q.1.b.) Deviation Reports)	WAC 173-401-615(3)(b)	As soon as possible but no later than 12 hours of discovery of the deviation.	Yes; within 6 months	Yes
Other permit deviations including failure to repair any defective equipment (V.Q.1.b. Deviation Reports)	WAC 173-401-615(3)(b)	Within 30 days after the end of the month in which the deviation is discovered. Note: If Boeing Frederickson is claiming the emergency defense of WAC 173-401-645 the report must be submitted within two working days.	Yes; within 6 months	Yes
Notice of Emergency	WAC 173-401-645(d)	Within two working days of the time when emission limitations were exceeded due to the emergency.	Yes; within 6 months	Yes

Submittal	Required By	Paraphrased Frequency or Due Date	Certification Required per AOP section V.Q.1.c	Required to be submitted to PSCAA via email
Unavoidable Excess Emissions (V.S. Unavoidable excess emissions)	WAC 173-400-107	Excess emissions which represent a potential threat to human health or safety or which Boeing Frederickson believes to be unavoidable shall be reported as soon as possible. Other excess emissions shall be reported within thirty days after the end of the month during which the event occurred or as part of the routine emission monitoring reports.	Yes; within 6 months	Yes
Greenhouse Gas Emission Report (V. Q.1.h.)	WAC 173-441	If triggered, annually by March 31st for GHG emissions in the previous calendar year.	No, but must be certified by designated representative, as determined by WAC 173-441)	No
Emission inventory statement (V.Q.1.e. Annual Emission Inventory	PSCAA Reg. I, 7.09(a)	Annually, by June 30th for the previous reporting period, or by a different date if specified by the PSCAA.	Yes; within 6 months	No
Report of Problems not Corrected within 24 hours (V.Q.1.g.i)	WAC 173-401-615(3)	Report within 24 hours of discovery, unless Boeing is able to shut down or fix the problem within 24 hours.	Yes; within 6 months	Yes
Notifications				
Compliance Test Notification (V.N.1.c.)	PSCAA Reg. I, Section 3.07(b)	At least 21 days prior to compliance test.	No	Yes
Notice of Completion (IV.C)	PSCAA Reg. I, Section 6.09	Within 30 days of completion of the installation or modification	No	No
NSPS Notification of the date of construction or reconstruction	40 CFR 60.7(a)(1) PSCAA Reg. I, Section 6.11 (9/26/02) (*State Only*) PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)	Postmarked no later than 30 days after date of construction or reconstruction	No	Yes

Submittal	Required By	Paraphrased Frequency or Due Date	Certification Required per AOP section V.Q.1.c	Required to be submitted to PSCAA via email
NSPS Initial Startup Notification	40 CFR 60.7(a)(3) PSCAA Reg. I, Section 6.11 (9/26/02) (*State Only*) PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)	Postmarked within 15 days after the actual startup date.	No	Yes
NSPS Notification of physical or operational change which may increase emission rate to which an NSPS standard applies, unless the change exempted under 40 CFR 60.14(e)	40 CFR 60.7(a)(4) PSCAA Reg. I, Section 6.11 (9/26/02) (*State Only*) PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)	Postmarked 60 days or as soon as practicable before the change is commenced.	No	Yes
NSPS Performance Test Notification	40 CFR 60.8 (d) PSCAA Reg. I, Section 6.11 (9/26/02) (*State Only*) PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)	30 days prior to test.	No	Yes
NSPS Reconstruction Notification	40 CFR 60.15(d) PSCAA Reg. I, Section 6.11 (9/26/02) (*State Only*) PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)	If the fixed capital cost exceeds 50%, Boeing Frederickson must notify the PSCAA of the proposed replacement 60 days (or as soon as practicable) before construction is commenced. The notice must include the information requested in §60.15(d)(1) through (d)(7).	No	Yes

Submittal	Required By	Paraphrased Frequency or Due Date	Certification Required per AOP section V.Q.1.c	Required to be submitted to PSCAA via email
NESHAP Notification of non-major affected source	40 CFR 63.5(b)(4) 40 CFR 63.743(a)(10) PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*) PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)	For major sources, see timeline in 63.5(d).	No	Yes
NESHAP Initial Startup Notification	40 CFR 63.9(b) 40 CFR 63.5(b)(4) 40 CFR 63.743(a)(10) PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*) PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)	No later than 120 days after initial startup.	No	Yes
NESHAP Notice of Compliance Status	40 CFR 63.9 (h) PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*) PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)	Following completion of the relevant compliance demonstration activity specified in the relevant standard.	No	Yes
RICE Initial Notification	40 CFR 63.6645 PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*) PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)	120 days after the RICE becomes subject to NESHAP, Subpart ZZZZ	No	Yes

Submittal	Required By	Paraphrased Frequency or Due Date	Certification Required per AOP section V.Q.1.c	Required to be submitted to PSCAA via email
Boiler NESHAP Notification of Fuel Switch or Physical Change	40 CFR 63.7545 (h) PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*) PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)	Within 30 days of the switch/change	No	Yes
Boiler NESHAP Notification of Alternative Fuel Use During Curtailment or Interruption	40 CFR 63.7545 (f) PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*) PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)	Within 48 hours of the declaration of each period of natural gas curtailment or supply interruption.	No	Yes
NESHAP Performance Test Notification	40 CFR 63.9(e) PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*) PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)	At least 60 calendar days before the performance test is scheduled to begin	No	Yes
NESHAP- Notice of Change of Information Provided	40 CFR 63.9 (j) PSCAA Reg. III, Section 2.02 (4/23/15) (*State Only*) PSCAA Reg. I, Section 3.25 (9/26/19) (*State Only*)	Within 15 calendar days after the change	No	Yes
Notice of Off Permit Changes	WAC 173-401-724	Contemporaneous with the change.	No	Yes
Notice of Changes not Requiring Permit Revisions	WAC 173-401-722	At least seven days prior to making the proposed changes	No	Yes

Submittal	Required By	Paraphrased Frequency or Due Date	Certification Required per AOP section V.Q.1.c	Required to be submitted to PSCAA via email
Notice of Intent to Operate Nonroad Engines	PSCAA Reg. I, Section 15.03 WAC 173-400-035	Prior to beginning operation	No	Yes
Asbestos Project Notification (IV.E.2)	PSCAA Reg. III, Section 4.03	Up to 10 days prior	No	No, submit via the Agency website

R. Emergencies

An emergency, as defined in WAC 173-401-645(l), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the conditions of WAC 173-401-645(3) are met.

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

1. An emergency occurred and that Boeing Frederickson can identify the cause(s) of the emergency;

2. The permitted facility was at the time being properly operated;

3. During the period of the emergency Boeing Frederickson took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in the permit; and

4. Boeing Frederickson submitted notice of the emergency to the PSCAA within two (2) working days of the time when the emissions limitations were exceeded due to the emergency or shorter periods of time specified in an applicable requirement. This notice fulfills the requirement of WAC 173-401-615(3)(b) unless the excess emissions represent a potential threat to human health or safety. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

   In any enforcement proceeding, Boeing Frederickson has the burden of proof to establish the occurrence of an emergency. This provision is in addition to any emergency or upset provision contained in any applicable requirement.

   [WAC 173-401-645, 11/4/93 *(State Only)*]

S. Excess Emissions

Section V.S.1 is in effect until the effective date of EPA's removal of the September 20, 1993, version of this regulation from the SIP. This section is not effective starting on that date.

1. Boeing Frederickson shall have the burden of proving to the Agency in an enforcement action that excess emissions were unavoidable. Excess emissions which represent a potential threat to human health or safety or which Boeing Frederickson believes to be unavoidable shall be reported to the Agency as soon as possible. Other excess emissions shall be reported within thirty days after the end of the month during which the event occurred or as part of the routine emission monitoring reports. Upon request by the Agency, Boeing Frederickson shall submit a

full written report including the known causes, the corrective actions taken, and the preventive measures to be taken to minimize or eliminate the chance of recurrence.

[WAC 173-400-107(1) & (3), 9/20/93; *9/16/18 (State Only)*]

a. Excess emissions determined to be unavoidable in accordance with V.S.1.b, V.S.1.c or V.S.1.d shall be excused and not subject to penalty.

[WAC 173-400-107(2), 9/20/93, *9/16/18 (State Only)*]

b. Excess emissions due to startup or shutdown conditions shall be considered unavoidable provided Boeing Frederickson reports as required by WAC 173-400-107(3) in V.S.1 and adequately demonstrates that the excess emissions could not have been prevented through careful planning and design and if a bypass of control equipment occurs, that such bypass is necessary to prevent loss of life, personal injury, or severe property damage.

[WAC 173-400-107(4), 9/20/93, *9/16/18 (State Only)*]

c. Excess emissions due to scheduled maintenance shall be considered unavoidable if Boeing Frederickson reports as required by WAC 173-400-107(3) in V.S.1 and adequately demonstrates that the excess emissions could not have been avoided through reasonable design, better scheduling for maintenance or through better operation and maintenance practices.

[WAC 173-400-107(5), 9/20/93, *9/16/18 (State Only)*]

d. Excess emissions due to upsets shall be considered unavoidable provided Boeing Frederickson reports as required by WAC 173-400-107(3) in V.S.1 and adequately demonstrates that:

   i. The event was not caused by poor or inadequate design, operation, maintenance, or any other reasonably preventable condition;

   ii. The event was not of a recurring pattern indicative of inadequate design, operation, or maintenance; and

   iii. The operator took immediate and appropriate corrective action in a manner consistent with good air pollution control practice for minimizing emissions during the event, taking into account the total emissions impact of the corrective action, including slowing or shutting down the emission unit as necessary to minimize emissions, when the operator knew or should have known that an emission standard or permit condition was being exceeded.

[WAC 173-400-107(6), 9/20/93, *9/16/18 (State Only)*]

Section V.S.2 takes effect on the effective date of EPA's removal of the September 20, 1993, version of WAC 173-400-107 from the SIP.

2. Boeing Frederickson shall notify the Agency by phone or electronic means as soon as possible, but not later than twelve hours after the excess emissions were discovered when excess emissions represent a potential threat to human health or safety. For all other excess emissions, Boeing Frederickson shall notify the Agency in a report as provided in Section V.S.2.a.

[WAC 173-400-108(1), 9/26/18, *State Only*]

a. Boeing Frederickson must report all excess emissions to the Agency in accordance with the reporting requirements in WAC 173-401-615(3) in V.Q.1.a Semiannual Operating Reports

and V.Q.1.b Deviation Reports. To claim emissions as unavoidable under WAC 173-400-109, the report must contain the information in WAC 173-400-108(4):

i. Properly signed contemporaneous records or other relevant evidence documenting Boeing Frederickson's actions in response to the excess emissions event;

ii. Information on whether the installed emission monitoring and pollution control systems were operating at the time of the exceedance. If either or both systems were not operating, information on the cause and duration of the outage; and

iii. All additional information required under WAC 173-400-109(5) supporting the claim that the excess emissions were unavoidable.

[WAC 173-400-108(2), and (4)), 9/26/18, *(State Only)*]

b. Excess emissions determined to be unavoidable under the procedures and criteria in this section are violations of the applicable statute, rule, permit, or regulatory order.

i. The permitting authority determines whether excess emissions are unavoidable based on the information supplied by the source and the criteria in Section V.S.2.f.

ii. Excess emissions determined by the Agency to be unavoidable are:

- A violation subject to WAC 173-400-230(3), (4), and (6); but
- Not subject to civil penalty under WAC 173-400-230(2).

[WAC 173-400-109(1), 9/26/18 *(State Only)*]

c. Boeing Frederickson shall have the burden of proving to the permitting authority in an enforcement action that excess emissions were unavoidable. This demonstration shall be a condition to obtaining relief under Section V.S.2.f.

[WAC 173-400-109(2), 9/26/18 *(State Only)*]

d. WAC 173-400-109 Unavoidable Excess Emissions in V.S.2.b does not apply to an exceedance of an emission standard in 40 CFR Parts 60, 61, 62, 63, and 72, or an Agency's adoption by reference of these federal standards.

[WAC 173-400-109(3) 9/26/18 *(State Only)*]

e. Excess emissions that occur due to an upset or malfunction during a startup or shutdown event are treated as an upset or malfunction under in accordance with V.S.2.f.

[WAC 173-400-109(4), 9/26/18 *(State Only)*]

f. Excess emissions due to an upset or malfunction will be considered unavoidable provided Boeing Frederickson reports as required by Section V.S.2.a and adequately demonstrates to the permitting authority that:

a. The event was not caused by poor or inadequate design, operation, maintenance, or any other reasonably preventable condition;

b. The event was not of a recurring pattern indicative of inadequate design, operation, or maintenance;

c. When the operator knew or should have known that an emission standard or other permit condition was being exceeded, the operator took immediate and appropriate corrective action in a manner consistent with safety and good air pollution control practice for minimizing emissions during the event, taking into account the total emissions impact of

the corrective action. Actions taken could include slowing or shutting down the emission unit as necessary to minimize emissions;

d. If the emitting equipment could not be shut down during the malfunction or upset to prevent the loss of life, prevent personal injury or severe property damage, or to minimize overall emissions, repairs were made in an expeditious fashion;

e. All emission monitoring systems and pollution control systems were kept operating to the extent possible unless their shut down was necessary to prevent loss of life, personal injury, or severe property damage;

f. The amount and duration of the excess emissions (including any bypass) were minimized to the maximum extent possible; and

g. All practicable steps were taken to minimize the impact of the excess emissions on ambient air quality.

[WAC 173-400-109(5), 9/26/18 *(State Only)*]

T. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for Boeing Frederickson in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

[WAC 173-401-620(2)(b), 11/4/93 *(State Only)*]

U. Stratospheric Ozone and Climate Protection

1. Boeing Frederickson shall comply with the following standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:

   a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;

   b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158; and

   c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

   [40 CFR 82.156, 11/18/16; 40 CFR 82.158, 11/18/16; 40 CFR 82.161, 11/18/16]

2. Boeing Frederickson may switch from any ozone-depleting substance to any alternative approved pursuant to the Significant New Alternatives Program (SNAP), 40 CFR Part 82, Subpart G, without a permit revision but shall not switch to a substitute listed as unacceptable pursuant to such program.

   [40 CFR 82.174, 1/13/95]

3. Any certified technician employed by Boeing Frederickson shall keep a copy of their certification at their place of employment.

   [40 CFR 82.166(1), 11/18/16]

4. Boeing Frederickson shall not willfully release any regulated refrigerant and shall use refrigerant extraction equipment to recover regulated refrigerant when servicing, repairing or disposing of commercial air conditioning, heating, or refrigeration systems.

   [40 CFR 81.154, 12/27/96]
   [RCW 70.94.970(2) and (4), 1991 (*State Only*)]

5. Compliance with the applicable requirements of this Section V.U shall be monitored by Boeing through Facility Inspections conducted per Section II.A.1.c (Facility Inspections) of this permit.

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

V. RACT Satisfied

Emission standards and other requirements contained in rules or regulatory orders in effect at the time of this permit issuance shall be considered RACT for the purposes of issuing this permit.

[WAC 173-401-605(3), 11/4/93 *(State Only)*]
[PSCAA Reg. I, Section 3.04(g), 3/11/99 (*State Only*)]

W. Risk Management Programs

In accordance with 40 CFR Part 68.10, if Boeing Frederickson has more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, Boeing Frederickson shall comply with the requirements of the Chemical Accident Prevention Provisions of 40 CFR Part 68 no later than the following dates:

1. Three years after the date on which a regulated substance is first listed under 40 CFR 68.130;

2. The date on which a regulated substance is first present above a threshold quantity in a process; or

3. For any revisions to 40 CFR Part 68, the effective date of the final rule revision.

[40 CFR 68.10, 12/3/18]

X. Definitions

Unless otherwise defined in this permit, the terms used in this permit shall have the same meaning ascribed to them in the referenced regulation.

[WAC 173-401-200, 3/5/16]

Y. Insignificant Emission Units and Activities

1. Insignificant emission units and activities at Boeing Frederickson are subject to all applicable requirements set forth in Sections I.A, II.A.1(a)-(c), II.A.1(e), and II.A.1(f), III, and IV. This permit does not require testing, monitoring, reporting or recordkeeping for insignificant emission units or activities, except as required by sections II.A.1(a) through II.A.1(c), II.A.1(e), and II.A.1(f) of this permit. For insignificant emission units, the testing, monitoring, reporting, or recordkeeping requirements identified are applicable once a potential air operating permit deviation issue is initially observed and continue to be applicable until the potential deviation issue is resolved. Compliance with sections II.A.1(a) through II.A.1(c), II.A.1(e), and II.A.1(f) of this permit shall be deemed to satisfy the requirements of WAC 173-401-615 and 173-401-630(1).

   [WAC 173-401-530(2)(c), 10/17/02 *(State Only)*]

2. Where this permit does not require testing, monitoring, recordkeeping and reporting for insignificant emissions units or activities, Boeing Frederickson may certify continuous compliance if there were no observed, documented, or known instances of noncompliance during the reporting period. Where this permit requires testing, monitoring, recordkeeping and reporting for insignificant emission units or activities, Boeing Frederickson may certify continuous compliance when the testing, monitoring, and recordkeeping required by the permit revealed no violations during the period, and there were no observed, documented, or known instances of noncompliance during the reporting period.

   [WAC 173-401-530(2)(d), 10/17/02 *(State Only)*]

3. An emission unit or activity that qualifies as insignificant solely on the basis of WAC 173-401-530(1)(a) shall not exceed the emission thresholds specified in WAC 173-401-530(4) until this permit is modified pursuant to Section VI.E of this permit and WAC 173-401-725.

   [WAC 173-401-530(6), 10/17/02 *(State Only)*]

Section VI: Permit Actions

A. Permit Renewal, Revocation and Expiration

1. Renewal Application. Boeing Frederickson shall submit a complete permit renewal application to PSCAA no later than 12 months prior to the expiration of this permit.

   [WAC 173-401-710(1), 10/17/02 *(State Only)*; WAC 173-401-500(3)(d), 10/17/02 *(State Only)*]

2. Expired Permits. Permit expiration terminates Boeing Frederickson's right to operate unless a timely and complete renewal application has been submitted consistent with WAC 173-401-710(1) and WAC 173-401-500. All terms and conditions of the permit shall remain in effect after this permit expires if a timely and complete permit application has been submitted.

   [WAC 173-401-710(3), 10/17/02 *(State Only)*]

3. Revocation of Permits. PSCAA may revoke a permit only upon the request of Boeing Frederickson or for cause. PSCAA shall provide at least thirty days written notice to Boeing Frederickson prior to revocation of the permit or denial of a permit renewal application. Such notice shall include an explanation of the basis for the proposed action and afford Boeing Frederickson an opportunity to meet with PSCAA prior to PSCAA's final decision. A revocation issued under this condition may be issued conditionally with a future effective date and may specify that the revocation will not take effect if Boeing Frederickson satisfies the specified conditions before the effective date. Nothing in this subsection shall limit PSCAA's authority to issue emergency orders.

   [WAC 173-401-710(4), 10/17/02 *(State Only)*]

B. Administrative Permit Amendments

Boeing Frederickson may file for an administrative permit amendment in accordance with WAC 173-401-720(3). An "administrative permit amendment" is defined in WAC 173-401-720(1).

[WAC 173-401-720, 11/4/93 *(State Only)*]

C. Changes not Requiring Permit Revisions/Off Permit Changes

Boeing Frederickson is authorized to make the changes described in WAC 173-401-722 and WAC 173-401-724 without a permit revision, provided that the changes satisfy the criteria set forth in those sections.

[WAC 173-401-722, 10/17/02 *(State Only)*]
[WAC 173-401-724, 3/5/16 *(State Only)*]

D. Minor Permit Modification

1. Definition. A permit modification is any revision to this permit that cannot be accomplished under provisions for administrative permit amendments under WAC 173-401-720.

2. Minor permit modification procedures. For minor permit modifications to meet the criteria in WAC 173-401-725(a), Boeing Frederickson shall follow the procedures describes in WAC 173-401-725(2)(b).

   [WAC 173-401-725(2), 11/4/93 *(State Only)*]

3. Group Processing of Minor Permit Modifications. Consistent with WAC 173-401-725(3), PSCAA may process groups of a source's applications for certain modifications eligible for minor permit modification processing. Boeing Frederickson shall follow the procedures describes in WAC 173-401-725(3)(b).

   [WAC 173-401-725(3), 11/4/93 *(State Only)*]

4. Ability to Make Change. Boeing Frederickson may make the change proposed in its minor permit modification application (or modifications eligible for group processing) immediately after it files such application provided that those changes requiring the submission of a NOC application have been reviewed and approved by the PSCAA. After Boeing Frederickson makes the change, and until the PSCAA takes any of the actions specified in WAC 173-401-725(2)(d) or (3)(d), Boeing Frederickson must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time period, Boeing Frederickson need not comply with the existing permit terms and conditions it seeks to modify. However, if Boeing Frederickson fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against it. The permit shield in Section VII of this permit shall not extend to minor permit modifications.

   [WAC 173-401-725(2) and (3), 11/4/93 *(State Only)*]

E. Significant Modification Procedures

1. Criteria. Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative permit amendments. Every significant change in existing monitoring permit terms or conditions and every relaxation of reporting or recordkeeping permit terms or conditions shall be considered significant. Nothing herein shall be construed to preclude Boeing Frederickson from making changes consistent with Chapter 173-401 WAC that would render existing permit compliance terms and conditions irrelevant.

2. Procedures. Significant permit modifications shall meet all requirements of Chapter 173-401 WAC, including those for applications, public participation, review by affected states, and review by EPA, as they apply to permit issuance and permit renewal.

   [WAC 173-401-725(4), 11/4/93 *(State Only)*]

F. Reopening for Cause

This permit shall be reopened and revised by the PSCAA under any of the circumstances described in WAC 173-401-730(1). Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

[WAC 173-401-730, 11/4/93 *(State Only)*]

Section VII: Permit Shield

Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements contained in Sections I through VI of this permit that are specifically identified in this permit as of the date of permit issuance or renewal.

Nothing in this permit shall alter or affect the following:

1. The provisions of Section 303 of the FCAA (emergency orders), including the authority of the administrator under that section;
2. The liability of an owner or operator of Boeing Frederickson for any violation of applicable requirements prior to or at the time of permit issuance or renewal;
3. The applicable requirements of the acid rain program, consistent with Section 408(a) of the FCAA;
4. The ability of EPA to obtain information from a source pursuant to Section 114 of the FCAA; or
5. The ability of the PSCAA to establish or revise requirements for the use of reasonably available control technology (RACT) as provided in chapter 252, Laws of 1993.

[WAC 173-401-640(1), 11/4/93 *(State Only)*]
[WAC 173-401-640(4), 11/4/93 *(State Only)*]

Section VIII: Appendixes

A. Test Methods and Averaging Periods

Unless otherwise specified in the rules or approval conditions, compliance shall be determined based on the averaging periods as described in the table below. In the event that a sample is accidentally lost or conditions occur in which one of the runs must be discontinued because of circumstances beyond the operator's control, compliance may, upon EPA or PSCAA approval, be determined from the arithmetic average of the two other runs.

Table 10. Summary of Test Methods

Test Method	Title	Averaging Period
PSCAA Method 5 PSCAA Board Resolution 540, August 11, 1983	Determination of Particulate Emissions from Stationary Sources	The test shall consist of 3 runs and at least 1-hour per run. Determine the PM emission from the arithmetic average of the three runs.
EPA Method 5 40 CFR 60, Appendix A	Determination of Particulate Emissions from Stationary Sources	The test shall consist of 3 runs and at least 1-hour per run. Determine the PM emission from the arithmetic average of the three runs.
EPA Method 6C 40 CFR 60, Appendix A	Determination of Sulfur Dioxide Emissions from Stationary Sources	The test shall consist of 1 run and at least 1-hour per run.
EPA Method 7 40 CFR 60, Appendix A	Determination of Nitrogen Oxide Emissions from Stationary Sources	The test shall consist of 3 runs and at least 1-hour per run. Determine the NO_x emission from the arithmetic average of the three runs.
EPA Method 7E 40 CFR 60, Appendix A	Determination of Nitrogen Oxide Emissions from Stationary Sources (Instrumental Analyzer Procedure)	The test shall consist of 3 runs and at least 1-hour per run. Determine the NO_x emission from the arithmetic average of the three runs.
EPA Method 10 40 CFR 60, Appendix A	Determination of Carbon Monoxide	The test shall consist of 3 runs and at least 1-hour per run. Determine the CO emission from the arithmetic average of the three runs.
EPA Method 19 40 CFR 60, Appendix A	Determination of NO_x rate	30-day rolling average
Ecology Method 9A, "Source Test Manual – Procedures for Compliance Testing", July 12, 1990	Visual Determination of the Opacity of Emissions from Stationary Sources - for State and Puget Sound Clean Air Agency requirements	Any 13 opacity readings above standard in one hour, opacity readings taken in 15-second intervals.
EPA Method 9 40 CFR 60, Appendix A	Visual Determination of the Opacity of Emissions from Stationary Sources - for Federal Requirements	6-minute averaging period, opacity readings taken in 15-second intervals.

Test Method	Title	Averaging Period
EPA Method 24 40 CFR 60, Appendix A	Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings	For water-based and water reducible coatings, vendor certification or data will be used for determining compliance. For other VOC containing materials, vendor certification or data will be the primary means for determining compliance. If Method 24 is used for coatings, grab samples will be taken and the average of all of a single type of coating (e.g., primer or topcoat), mixed and ready for application within the same coating operation, will be used for determining compliance.
EPA Method 25A 40 CFR Part 60, Appendix A, July 1, 2012	Determination of total gaseous organic concentration using a flame ionization analyzer	The test shall consist of 3 runs and at least 1-hour per run. Determine the emission from the arithmetic average of the three runs.
EPA Method 26 A 40 CFR 60, Appendix A	Determinations of HCl	The test shall consist of 1 run and at least 1-hour per run.
EPA Method 27, 40 CFR 60, Appendix A, July 1, 2012	Determination of vapor tightness of gasoline delivery tank using pressure vacuum test	5-minute averaging period
EPA Method 319 40 CFR Part 60, Appendix A, July 1, 2012	Determination of Filtration Efficiency for Paint Overspray	Not applicable
Ash-ASTM D482 Sulfur –ASTM D3120 Halogens – EPA SW846,9076 PCB – EPA SW846, 8080 Lead – EPA 600/4-81-045,200.7 Flash Point – EPA SW846, 1020	Fuel Oil Analysis	None applicable

B. PSCAA Method 5 for Particulate

RESOLUTION NO. 540

RESOLUTION OF THE BOARD OF DIRECTORS
OF THE PUGET SOUND AIR POLLUTION
CONTROL AGENCY ADOPTING MODIFIED
PARTICULATE SOURCE TEST PROCEDURES

WHEREAS, Regulation I Section 9.09(f) requires procedures for source sampling performed in connection with standards of Regulation I and II for particulate and gases to be done using current Environmental Protection Agency requirements or procedures and definitions adopted by the Board; and

WHEREAS, to conform to current safe and less toxic chemical storage, the particulate measurement procedures currently used by the Agency have been proposed for modification; and

WHEREAS, the Expanded Advisory Council reviewed and approved said source test laboratory procedure modifications; and

WHEREAS, a public hearing was held by the Puget Sound Air Pollution Control Agency Board of Directors on August 11, 1983, to allow public input and critique on the proposal; and

WHEREAS, the Board deems it necessary to adopt said modification to source test procedures; now therefore,

BE IT RESOLVED BY THE BOARD OF PUGET SOUND AIR POLLUTION CONTROL AGENCY:

The Board of Directors does hereby adopt the modifications to the source test procedures, a copy of which is attached hereto and made a part hereof.

PASSED AND APPROVED by the Board of Directors of the Puget Sound Air Pollution Control Agency held this 11th day of August, 1983.

PUGET SOUND AIR POLLUTION CONTROL AGENCY

By _____
Chairman

Attest:

_____
Air Pollution Control Officer

Approved as to form:

_____
Agency Attorney

Proposed Revised PSAPCA

Particulate Source Test Procedures

Engineering Division
Puget Sound Air Pollution Control Agency
200 West Mercer Street, Room 205
P.O. Box 9863
Seattle, Washington 98109

June 9, 1983

I. Procedures for Particulate Source Sampling

Unless otherwise authorized by the Control Officer, all particulate source sampling performed to demonstrate compliance with the emission standards of Regulation I shall be done using current Environmental Protection Agency Methods 1-5 contained in 40 CFR Part 60, Appendix A, as modified in Section II of this document.

II. Procedure for Determining Particulate Matter in the Impinger Catch (Back Half)

The analysis and calculations for Method 5 shall conform to that described by EPA in the current 40 CFR Part 60, Appendix A, except that the back half catch shall be included as particulate matter. The back half weight is the sum of the impinger catch (organic and inorganic) and the back half acetone rinse weights.

A. Sample Recovery of the Back Half

1. Purging

Whenever SO_2 interference is suspected, purge the impingers immediately after the test run is complete with N_2 or clean air for a minimum of one-half the sample volume.

2. Impinger Liquid

Measure the volume of water collected in all impingers and place the water from the first three impingers in a container. Thoroughly rinse all sample-exposed surfaces between the filter and fourth impinger with water and place in above container.

3. Acetone Rinse

Thoroughly rinse all sample-exposed surfaces between the filter and the fourth impinger with acetone and place the washings in a tared beaker to dry.

B. Analysis of the Back Half

1. Impinger Liquid Extraction

a. Add 50-100 mℓ of dichloromethane to the impinger liquid.

b. Spin for at least ten minutes.

c. Pour the liquid into a separatory funnel and drain the organic phase into a tared beaker (organic fraction).

d. Drain the remaining liquid into a beaker and repeat Steps a, b, and c. Perform the extraction several times with fresh dichloromethane until the organic fraction is clear. Keep each organic extraction in a separate beaker.

e. Following the last extraction, drain the remaining liquid from the separatory funnel into a tared beaker (inorganic fraction).

f. Allow the organic fraction beakers to dry under a hood at room temperature.

g. Evaporate the inorganic fraction in such a manner that the beaker contents do not become exposed to temperatures greater then 212°F.

h. Dry weighed beakers containing a sample of the acetone, dichloromethane and a sample of distilled deionized water to check for blank weight.

i. Desiccate organic, inorganic and blank beakers for at least 24 hours at room temperature in a disiccator containing silica gel. Weigh to a constant weight and report the results to the nearest 0.1 mg. Constant weight is defined in Section 4.3 of Method 5.

2. Back Half Acetone Rinse

a. Dry the acetone rinse in a hood at room temperature.

b. Desiccate and weigh the beaker to constant weight and record.

C. Reagents

1. Water

Use distilled deionized water in the impingers and to rinse all glassware.

2. Acetone

Use reagent grade, $\leq$ 0.001 percent residue in glass bottles.

3. Dichloromethane

Use reagent grade, $\leq$ 0.001 percent residue in glass bottles.

C. Ecology Method 9A

Revised July 12, 1990

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

SOURCE TEST METHOD 9A

VISUAL DETERMINATION OF OPACITY FOR A THREE MINUTE STANDARD

1. Principle

The opacity of emissions from stationary sources is determined visually by a qualified observer.

2. Procedure

The observer must be certified in accordance with the provisions of Section 3 of 40 CFR Part 60, Appendix A, Method 9, as in effect on July 1, 1990, which are hereby adopted by reference.

The qualified observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented in the 140° sector to his back. Consistent with maintaining the above requirement, the observer shall, as much as possible, make his observations from a position such that his line of vision is approximately perpendicular to the plume direction, and when observing opacity of emissions from rectangular outlets (e.g., roof monitors, open baghouses, noncircular stacks), approximately perpendicular to the longer axis of the outlet. The observer's line of sight should not include more than one plume at a time when multiple stacks are involved, and in any case, the observer should make his observations with his line of sight perpendicular to the longer axis of such a set of multiple stacks (e.g., stub stacks on baghouses).

The observer shall record the name of the plant, emission location, type of facility, observer's name and affiliation, and the date on a field data sheet. The time, estimated distance to the emission location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), and plume background are recorded on a field data sheet at the time opacity readings are initiated and completed.

The observer should make note of the ambient relative humidity, ambient temperature, the point in the plume that the observations were made, the estimated depth of the plume at the point of observation, and the color and condition of the plume. It is also helpful if pictures of the plume are taken.

Opacity observations shall be made at the point of greatest opacity in the portion of the plume where condensed water vapor is not present. The observer shall not look continuously at the plume, but instead shall observe the plume momentarily at 15-second intervals.

When condensed water vapor is present within the plume as it emerges from the emission outlet, opacity observations shall be made beyond the point in the plume at which condensed water vapor is no longer visible.

When water vapor in the plume condenses and becomes visible at a distinct distance from the emission outlet, the opacity of emissions should be evaluated at the emission outlet prior to the condensation of water vapor and the formation of the steam plume.

Opacity observations shall be recorded to the nearest 5 percent at 15-second intervals on an observational record sheet. Each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.

3. Analysis

The opacity of the plume is determined by individual visual observations. Opacity shall be reported as the range of values observed during a specified time period, not to exceed 60 consecutive minutes. The opacity standard is exceeded if there are more than 12 observations, during any consecutive 60-minute period, for which an opacity greater than the standard is recorded.

4. References

Federal Register, Vol. 36, No. 247, page 24895, Dec. 23, 1971.

"Criteria for Smoke and Opacity Training School 1970-1971" Oregon-Washington Air Quality Committee.

"Guidelines for Evaluation of Visible Emissions" EPA 340/1-75-007.