

## FACILITY PERMIT TO OPERATE THE BOEING COMPANY - C17 PROGRAM

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 2: BOEING -C-17 OPERATIONS</b>					
<b>System 4: INTERNAL COMBUSTION ENGINES</b>					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, CERTIFIED NON-ROAD ENGINE OF 40 CFR PART 60 AND 89, DIESEL FUEL, CUMMINS, MODEL 8CEXL0275AAG, INTRA-FACILITY PORTABLE, WITH AFTERCOOLER, TURBOCHARGER, 155 BHP A/N: 506013 Permit to Construct Issued: 06/01/10	D567		NOX: PROCESS UNIT**	CO: 3.73 GRAM/BHP-HR (8) [40CFR 89 Subpart B, 7-1-2000]; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 3 GRAM/BHP-HR (8) [40CFR 89 Subpart B, 7-1-2000]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.22 GRAM/BHP-HR (8) [40CFR 89 Subpart B, 7-1-2000]	D12.3, D323.1, E448.11, H23.12, I296.1, K67.10
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CUMMINS, MODEL CFP9E-F20, DRIVING FAIRBANKS MORSE FIRE-PUMP, MODEL 1824BF, WITH AFTERCOOLER, TURBOCHARGER, 282 BHP A/N:	D568		NOX: PROCESS UNIT**	CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 3 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.15 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	B61.1, C1.18, C1.19, D12.3, H23.8, I296.1, K67.7

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

# **FACILITY PERMIT TO OPERATE THE BOEING COMPANY - C17 PROGRAM**

## **SECTION H: DEVICE ID INDEX**

**The following sub-section provides an index  
to the devices that make up the facility  
description sorted by device ID.**

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## SECTION H: DEVICE ID INDEX

<b>Device Index For Section H</b>			
<b>Device ID</b>	<b>Section H Page No.</b>	<b>Process</b>	<b>System</b>
D567	1	2	4
D568	1	2	4

## FACILITY PERMIT TO OPERATE THE BOEING COMPANY - C17 PROGRAM

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

#### FACILITY CONDITIONS

F1.1 The operator shall limit the material processed to no more than 25000 lb(s) in any one year.

For the purpose of this condition, material processed shall be defined as 1,1,1-trichloroethane used for general handwipe cleaning.

[H&S 44300, 7-1-1988]

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[**RULE 401, 3-2-1984**; RULE 401, 11-9-2001]

F14.1 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

This condition shall become effective on or after June 1, 2004.

[RULE 431.2, 9-15-2000]

F14.2 The operator shall not use diesel fuel containing sulfur compounds in excess of 0.05 percent by weight.

[**RULE 431.2, 5-4-1990**; RULE 431.2, 9-15-2000]

F16.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

## FACILITY PERMIT TO OPERATE THE BOEING COMPANY - C17 PROGRAM

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**The operator shall comply with the terms and conditions set forth below:**

show compliance with condition F1-1 for use of 1,1,1 trichloroethane

[H&S 44300, 7-1-1988]

F16.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

In addition to the recordkeeping requirements of Rule 109, the operator shall keep adequate records to demonstrate compliance with VOC conditions for all spray booth coating operations. All records shall be prepared in a format that is acceptable to the District, retained on the premises for at least five years, and made available upon request of the Executive Officer or his representative

[**RULE 109, 5-2-2003; RULE 1132(h)(2) - Exemptions, 3-5-2004; RULE 1132(h)(2) - Exemptions, 5-7-2004**]

F48.1 The operator shall not use at this facility methylene chloride for general handwipe cleaning.

[H&S 44300, 7-1-1988]

#### DEVICE CONDITIONS

##### **B. Material/Fuel Type Limits**

B61.1 The operator shall only use diesel fuel containing the following specified compounds:

Compound	quantity	ppm by weight
sulfur	less than or equal to	15

This condition shall be effective January 1, 2006

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

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[Devices subject to this condition : D568]

#### **C. Throughput or Operating Parameter Limits**

C1.18 The operator shall limit the operating time to no more than 200 hour(s) in any one year.

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D568]

C1.19 The operator shall limit the operating time to no more than 50 hour(s) in any one year.

For the purpose of this condition, operating time shall be defined as maintenance and testing time only.

[**RULE 1470, 4-2-2004**]

[Devices subject to this condition : D568]

#### **D. Monitoring/Testing Requirements**

D12.3 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 2012, 5-6-2005**]

[Devices subject to this condition : D567, D568]

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### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

D323.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

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**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : D567]

#### **E. Equipment Operation/Construction Requirements**

E448.11 The operator shall comply with the following requirements:

The engine shall only be used for performance verification and testing of other engines and to power other engines or gas turbines during start-ups.

[RULE 1110.2, 2-1-2008]

[Devices subject to this condition : D567]

#### **H. Applicable Rules**

H23.8 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM10	District Rule	1470
Sulfur compounds	District Rule	431.2

[RULE 1470, 6-1-2007; **RULE 431.2, 5-4-1990**; RULE 431.2, 9-15-2000]

[Devices subject to this condition : D568]

H23.12 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Sulfur compounds	District Rule	431.2

## **FACILITY PERMIT TO OPERATE THE BOEING COMPANY - C17 PROGRAM**

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

[**RULE 431.2, 5-4-1990**; RULE 431.2, 9-15-2000]

[Devices subject to this condition : D567]

#### **I. Administrative**

- I296.1 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the prorated annual emissions increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

[**RULE 2005, 5-6-2005**]

[Devices subject to this condition : D567, D568]

#### **K. Record Keeping/Reporting**

- K67.7 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The engine operating log shall be kept and maintained on file to record when the engine is started manually. The log shall list the date of operation, the timer reading in hours at the beginning and end of operation, and the reason for operation.

By January 15th of each year, the operator shall total and record the total hours of operation (including hours for both manual and automatic operation) for the previous calendar year

All records required by this permit shall be kept in a format that is acceptable to the District, shall be retained on the premises for five years, and made available to any District representative upon request.

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**[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1470, 6-1-2007;  
RULE 2012, 5-6-2005]**

[Devices subject to this condition : D568]

K67.10 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Total quarterly engine operation hours.

Type of liquid and/or type of gaseous fuel.

Fuel consumption in cubic feet of gas or gallons of liquid.

**[RULE 1110.2, 2-1-2008; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D567]