

DATE: 06/18/12

## INCOMING

Environmental

** e-mail must be sent by author of letter				<b>SHEA-112088</b>	
ALLEN, M. H.	055-T487			ROGERS, S	Legal-WA
ARMENOFF, T.	055-T487			RUTHERFORD, P. D.	055-T487
AUBUCHON, D. F.	055-SS25				
			JOHNSON, T	055-T487	
			KRAMER, S.	055-T487	
			KUCINSKAS, J. A.	055-T487	X
BIRRER, N.	055-T487			SAMS, K.	055-T487
BOETTNER, A.	110-SE17			SCOTT, J. R.	055-T487 X
BOURGUET, R.	055-T487			SCOTT, R. P.	D851-0097
BOWER, M.	055-T487			SORRELS, E.	055-T487
				<b>SHEA LIBRARY</b>	<b>055-T487 X</b>
				SHESTAG, S. L.	055-T487
				SPENARD, M.	055-T034
COSTA, P. J.	055-T487	X	LAM, B.	055-T487	
			LATT, J.	055-T487	X
			LENOX, A. J.	055-T487	
			LIU, N.	055-T487	
DASSLER, D.	055-T487			TAEGE, D.	055-T487 X
DAWSON, T.	055-T487			TORSETH, R.	055-T487
				TRIPPEDA, D.	055-T462
			MAKO, R.	055-T487	
			MCLAUGHLIN, J.	055-T487	
EDGAR, ALLISON	LEGAL-SB			UESHIRO, R.	055-T487
			NAGAOKA, M.	055-T487	
FISCHER, S.	055-T487			VENABLE, T.	055-T487
FUENTES, G.	055-T487				
GAGNON, G.	055-T487			WAITE, P.	055-T034
GALLACHER, T. D.	055-T487		PACANAS, M.D.	055-T487	055-T487
GALVEZ, L.	055-T487		PADFIELD, J. M.	055-T487	055-T487
GARZA, R.	055-T487			WILEY, J.	D851-0097
GIBSON, B.	055-T487			WOKURKA, J.	D851-0097
GOLDSTEIN, J	055-T487			WONG, K. H.	110-SB33

REVISED 05/7/2012

DO NOT USE PREVIOUS REVISIONS

112088



Ventura County  
Air Pollution  
Control District

669 County Square Drive  
Ventura, California 93003

tel 805/645-1400  
fax 805/645-1444  
www.vcapcd.org

Michael Villegas  
Air Pollution Control Officer

June 18, 2012

Mr. Paul Costa  
The Boeing Company  
5800 Woolsey Canyon Road – MS T487  
Canoga Park, CA 91304

Subject: Application for Permit to Operate No. 00232-391 – CarbonAir Stripping System

Dear Mr. Costa:

Our review of your application for Permit to Operate No. 00232-391 has been completed. This application was submitted to operate a new CarbonAir Stripping System that was authorized by Authority to Construct No. 00232-390. As a part of this application, you requested revisions to the Authority to Construct and you also requested a number of changes to current Permit to Operate No. 00232, dated June 5, 2012.

A draft copy of the Permit to Operate is enclosed for your review. The draft permit reflects the new CarbonAir Stripping System and the removal of all of the other Air Stripping Systems. In addition, the ROC usage limits of (new) Condition Nos. 8 and 9 have been decreased as you requested. Because of these changes, ROC offsets are no longer required for the CarbonAir Stripping System and a draft copy of ERC Certificate No. 1119 is enclosed that reflects the addition of 0.01 tons per year of ROC to the certificate. Please notify the District immediately if any information is incorrect. Note that as a result of these changes, the ROC emission reductions may be eligible for banking pursuant to Rule 26.4, "New Source Review – Emission Banking".

A billing invoice is enclosed for the permit-processing fee for this application, which is shown as "Amount Due". Please remit the total amounts by check made payable to the Ventura County Air Pollution Control District. Please include the invoice number on your check. Your Permit to Operate and ERC certificate will be issued upon receipt of these fees.

If you have any questions on this matter, please contact me at 805/645-1421.

Sincerely,

Kerby E. Zozula, Supervisor  
Engineering Division

Enclosures

Billing Letter-0232-391-erc-42.G.doc



Ventura County  
Air Pollution  
Control District

669 County Square Drive, 2nd floor  
Ventura California 93003

# PERMIT PROCESSING FEE INVOICE

FACILITY NUMBER	00232 - 391
FACILITY NAME	Santa Susana Field Laboratory
PERMIT PERIOD	7/1/2012 to 6/30/2013

INVOICE NUMBER	1028151
INVOICE DATE	6/18/2012
INVOICE DUE DATE	8/17/2012

Mr. Paul Costa, Env. Manager  
The Boeing Company  
5800 Woolsey Canyon Rd. - MS T487  
Canoga Park, CA 91304-

QTY.	FEE DESCRIPTION	SCHEDULE	FEE RATE	TOTAL FEES
7.50	Revision to Application - 1.3 * \$119.00 = \$154.70	42.G	\$154.70	\$1,160.25
1.00	Health Risk Assessment - 1.3 * \$119.00 = \$154.70	42.D	\$154.70	\$154.70
<b>Total Invoice Amount</b>				<b>\$1,314.95</b>

*If this invoice is not paid within 60 days of the invoice date, the APPLICATION will be cancelled pursuant to APCD Rule 42.B.*

Please make checks payable to: **Ventura County APCD**

**YOU MUST INCLUDE THE INVOICE NUMBER ON YOUR CHECK FOR YOUR PAYMENT TO BE PROPERLY CREDITED**

Please mail check to the Ventura County APCD at the address above.

If you have any questions, please call Kerby Zozula, (805) 645-1421

*Please return bottom portion with your payment.*

6/18/2012 12:05:55PM



Ventura County  
Air Pollution  
Control District

669 County Square Drive, 2nd floor  
Ventura California 93003

FACILITY NUMBER	00232 - 391	Permit Processing
FACILITY NAME	Santa Susana Field Laboratory	
PERMIT PERIOD	7/1/2012 to 6/30/2013	

INVOICE NUMBER	1028151
INVOICE DATE	6/18/2012
AMOUNT DUE	<b>\$ 1,314.95</b>

**AMOUNT  
ENCLOSED**

\$

PERMIT TO OPERATE  
Number 00232

**DRAFT**

Valid July 1, 2012 to June 30, 2013

**This Permit Has Been Issued To The Following:**

Company Name / Address:

Facility Name / Address:

The Boeing Company  
5800 Woolsey Canyon Rd. - MS T487  
Canoga Park, CA 91304

Santa Susana Field Laboratory  
Facility FESOP Permit  
Simi Valley, CA 93065

**Permission Is Hereby Granted To Operate The Following:**

Solvent Cleaning Operations

Architectural Surface Coating Operations, subject to Rule 74.2,  
"Architectural Coatings"

Adhesive Operation

Emergency Diesel Engines

- 1 - 95.2 BHP Caterpillar, Model 1004-40T (D50P2), Diesel Engine, emergency electrical generation, BN025053, located at Building 319 Area I
- 1 - 40 BHP Generac, Model 99A04818-5, Diesel Engine, emergency electrical generation for telecommunication system, BN023980
- 1 - 32 BHP Onan, Model RDJF, Diesel Engine, emergency electrical generation for radio system, MO709303

Gasoline Dispensing Facility, Area I

- 1 - 500 Gallon Aboveground Gasoline Storage Tank

Boilers and Heaters (Approximately 40 units rated at less than 1 MMBTU per hour)

Portable Gasoline and Diesel Engines Rated at Less Than 50 BHP, associated with groundwater, soil, and stormwater treatment and remediation activities.

**Ground Water Remediation Operations**

At Area I - CarbonAir Stripping System, Model STAT 80, 100 gallon per minute capacity, consisting of:

- 1 - 600 Cubic feet Per Minute Air Stripping Tower, 4 feet (L) x 2 feet (W) x 7'-10.25" (H)
- 1 - U.S Filter Model SCRUB-2000 Carbon Adsorption System, Consisting of Two (2) Carbon Adsorbers, 2,000 Pound Capacity Each, Operated in Series, Controlling the Exhaust from the Air Stripper Tower

**This Permit Has Been Issued Subject To The Following Conditions:**

1. Permitted Emissions	Tons/Year	Pounds/Hour
Reactive Organics	4.30	16.19
Nitrogen Oxides	6.77	22.53
Particulate Matter	0.49	1.62
Sulfur Oxides	0.10	0.36
Carbon Monoxide	2.07	5.65

- 2. This Permit to Operate authorizes the operation of a groundwater remediation system for treatment of groundwater, purge water generated during quarterly sampling events, and water from well pump tests at the Santa Susana Field Laboratory (SSFL). The remediation system shall utilize a transfer system that routes all extracted vapors to a carbon adsorption system as described above. The control system shall be designed to operate effectively at the maximum flow rate at which the corresponding blowers or fans operate. Treated groundwater shall be discharged to Outfall 019. The spraying of contaminated (treated or untreated) groundwater is prohibited.
- 3. Stack sampling ports shall be installed at the inlet and exhaust duct of each carbon adsorber.
- 4. The Air Stripper Tower shall be vented at all times to the carbon adsorption system. This condition has been applied as Best Available Control Technology (BACT) pursuant to Rule 26.2, "New Source Review - Requirements", and pursuant to Rule 51, "Nuisance".
- 5. The Ground Water Remediation Operations shall be operated in compliance with the following conditions:
  - a) The combined Reactive Organic Compound (ROC) and total non-methane organic compound (NMOC) concentration in the exhaust from the stripping tower carbon adsorption system shall not exceed 12 ppmv, measured as isobutylene using a MiniRae PID analyzer with 10.6 eV lamp, or equivalent portable analyzer. For the purpose of this permit condition, this limit is considered to be equivalent to the total non-methane organic compounds (TNMOC) concentration. Additional controls or operation modifications will be required if this concentration is exceeded.

- b) ROC and total non-methane organic compound (NMOC) concentration measurements shall be conducted and recorded once per day of operation at the exhaust of each carbon adsorber. The frequency of sampling may be adjusted based on review of the required sampling records and determination of the carbon adsorption system breakthrough periods. Written approval from the District in the form of a permit application, and approved permit modification, shall be obtained prior to modifying the sampling frequency. Tests shall be conducted using a portable analyzer approved by the District.
  - c) The maximum exhaust flow rate from the stripping tower shall not exceed 600 cubic feet per minute, which is the value specified in the above equipment description. The exhaust flow rate in cubic feet per minute from the stripping tower shall be determined based on velocity pressure measurements. The measurements shall be recorded from a Pitot tube magnehelix gauge in inches of water. The permittee shall establish and maintain data relating the velocity pressure measurements to flow rate.
  - d) All spent carbon shall be disposed at a Class I Hazardous Waste Facility or reclaimed by a certified regeneration facility.
  - e) Samples shall be taken on a monthly basis of the influent groundwater and the effluent water from the air stripping system. These samples shall be analyzed by a certified independent laboratory for ROC and total non-methane organic compounds.
  - f) The permittee shall maintain records of sample analyses, results of ROC and total non-methane organic compound (NMOC) exhaust concentrations, and air and water flow rates for the air stripping system. These records shall be maintained for a period of five years and be made available to District personnel upon request.
6. All waste water collected from the remediation system shall be collected and stored in a covered container, and shall be treated or disposed of in accordance with applicable hazardous waste regulations. This permit does not grant permission for the storage, treatment or disposal of such waste water.
7. The blowers or fans shall be powered with an electric motor that receives its electrical power from the local utility grid. Electricity generating engines shall not be used as the source of electrical power. This condition has been applied as best available control technology (BACT) pursuant to Rule 26.2, "New Source Review - Requirements".
8. Solvent Cleaning Operations: The ROC emissions from the use of solvents for cleaning and degreasing purposes shall not exceed 520 pounds per year. This includes all ROC solvents used outside of

remote reservoir cold cleaners and cold cleaners, including substrate surface preparation cleaning prior to surface coating and painting. This includes solvent cleaning subject Rule 74.6, "Surface Cleaning and Degreasing" and Rule 74.12, "Surface Coating of Metal Parts and Products".

In order to comply with this condition, the permittee shall maintain monthly records of ROC solvent consumption. The consumption of these solvents in pounds of ROC shall be considered to be equal to the ROC emissions. Solvent consumption does not include solvent that is recycled or properly disposed of. The monthly records shall be summed for the previous twelve (12) calendar months. Solvent consumption for any of these rolling 12 calendar month periods in excess of the specified limit shall be considered a violation of this condition.

Acetone may be used. Its usage is not limited by this permit and it is exempt from permit and recordkeeping requirements. This is due to the re-classification of acetone as an exempt ROC due to low reactivity, and the re-classification of acetone as a non-hazardous air pollutant.

Note that cleaning products may be used for janitorial services and for routine janitorial maintenance, including graffiti removal, but the quantity used does not apply towards this limit since these materials are exempt from permit requirements (APCD Rule 23.F.8).

Also note that cleaning agents certified by the SCAQMD as Clean Air Solvents are exempt from permit and recordkeeping requirements. (Rule 23.F.10.a and Rule 74.6.E.1.a).

Non-refillable aerosol cans, including aerosol cleaning products, are exempt from permit and recordkeeping requirements (Rule 23.F.6).

9. Surface Coating Operations: The ROC emissions from the use of paints, coatings, and solvents used for thinning, stripping, and cleanup, including the cleaning of application equipment, shall not exceed 2,000 pounds per year. This includes only surface coating operations subject to Rule 74.2, "Architectural Coatings".

In order to comply with this condition, the permittee shall maintain monthly records of paint, coating, and solvent consumption. The consumption of these materials in pounds of ROC shall be considered to be equal to the ROC emissions. Consumption does not include material that is recycled or properly disposed of. The monthly records shall be summed for the previous twelve (12) calendar months. Consumption totals for any of these rolling 12 calendar month periods in excess of the specified limit shall be considered a violation of this condition.

10. Adhesive and Sealant Operations: The ROC emissions from the use of adhesives, adhesive primers, sealants, substrate surface

preparation materials, and solvents used for thinning, stripping, and cleanup, including the cleaning of application equipment, shall not exceed 1,581.0 pounds per year. This includes adhesive and sealant operations subject to Rule 74.20, "Adhesives and Sealants".

In order to comply with this condition, the permittee shall maintain monthly records the consumption of adhesives, adhesive primers, sealants, substrate surface preparation materials, and solvents used for thinning, stripping, and cleanup. The consumption of these materials in pounds of ROC shall be considered to be equal to the ROC emissions. Consumption does not include material that is recycled or properly disposed of. The monthly records shall be summed for the previous twelve (12) calendar months. Consumption totals for any of these rolling 12 calendar month periods in excess of the specified limit shall be considered a violation of this condition.

11. This permit does not authorize the manufacturing, assembling, coating, masking, bonding, paint stripping, and surface cleaning of aerospace components and the cleanup of equipment associated with these operations, the are subject to Rule 74.13, "Aerospace Assembly and Component Manufacturing". An aerospace component is defined as any raw material, partial or completed fabricated part, assembly of parts, or completed unit of any aircraft, helicopter, missile, or space vehicle, including mockups and prototypes. Prior to conducting operations that are subject to Rule 74.13, permittee shall apply for, and obtain, a revised permit authorizing such operations.
12. Solvent cleaning operations shall comply with all applicable provisions of Rule 74.6, "Surface Cleaning and Degreasing." This includes, but is not limited to, the following requirements:
  - a) Solvents used for cleanup shall have an ROC composite partial pressure of less than 33 mm Hg at 20 degrees Celsius and an ROC content of less than 900 grams per liter as applied. (74.6.B.1)
  - b) Solvents used for cleaning electronic components, electrical apparatus components, medical devices, or aerospace components shall have an ROC composite partial pressure of 33 mm Hg at 20 degrees Celsius or less and shall have an ROC content of 900 grams per liter or less. The use of isopropyl alcohol complies with this requirement. (74.6.B.1)
  - c) Solvents used for solvent cleaning other than operations listed in a) and b), above, shall have a ROC content of 25 grams per liter or less. (74.6.B.1)
  - d) The permittee shall use one of the cleaning devices or methods listed in Rule 74.6.B.2. This includes wipe cleaning and non-atomized solvent flow, dip, or flush methods where pooling is prevented or drained. (74.6.B.2)

- e) The permittee shall not allow liquid cleaning solvent to leak from any equipment or container. (74.6.B.3.a)
- f) All ROC-containing solvents shall be stored in non-absorbent, non-leaking containers which shall be kept closed at all times except when filling or emptying. (74.6.B.4.a)
- g) Waste solvent and waste solvent residues shall be disposed of in a manner conforming with Division 20, Chapter 6.5 of the California Health and Safety Code. (74.6.B.4.b)
- h) The permittee shall maintain a current material list showing each ROC containing material used in solvent cleaning activities as detailed in Rule 74.6.F. The list shall summarize the solvent name and manufacturer's description, all intended uses of the solvent at the facility, the ROC content (and ROC composite partial pressure if applicable) of the solvent, and the mix ratio if the solvent is a mix of materials blended by the operator. (74.6.F)

Rule 74.6 shall not apply to cleaning materials using Clean Air Solvent, or a solvent with an ROC content no more than 25 grams per liter as applied, the use of nonrefillable aerosol cleaning products, or to the use of organic solvents for janitorial cleaning.

Rule 74.6.B.1 shall not apply to the cleaning of aerospace assembly and subassembly surfaces that are exposed to strong oxidizers or reducers such as nitrogen tetroxide, liquid oxygen or hydrazine. In addition, Rule 74.6.B.1 shall not apply to the cleaning of solar cells, laser hardware, scientific instruments, or high precision optics.

13. Wipe cleaning operations shall comply with all applicable provisions of APCD Rule 74.6, "Surface Cleaning and Degreasing". Accordingly, no person shall perform solvent cleaning unless one of the following cleaning devices or methods is used (Rule 74.6.B.2):
- a) Wipe cleaning where solvent is dispensed to wipe cleaning materials from containers that are kept closed to prevent evaporation, except while dispensing solvent or replenishing the solvent supply;
  - b) Application of solvent from a hand-held spray bottle, squirt bottle or other closed container with a capacity of one liter or less;
  - c) Non-atomized solvent flow, dip or flush method where pooling is prevented or drained, and all solvent runoff is collected in a manner that enables solvent recovery or disposal. The collection system shall be kept closed to prevent evaporation except while collecting solvent runoff or emptying the collection system.

If the cleaning method has a solvent capacity more than one gallon, a cold cleaner or remote reservoir cold cleaner meeting the equipment and operation requirements of Rule 74.6 Sections C and D shall be used.

- d) A properly used enclosed gun washer or low emission spray gun cleaner.

No person shall allow liquid cleaning solvent to leak from any equipment or container (Rule 74.6.B.3).

- 14. The architectural surface coating operations shall comply with all applicable provisions of Rule 74.2, "Architectural Coatings". An architectural coating is a coating to be applied to stationary structures or their appurtenances at the site of installation, to portable buildings at the site of installation, to pavements, or to curbs. This includes, but is not limited to, the following requirements:

- a) The volatile organic compound (VOC) content of nonflat high gloss coatings, except specialty coatings, shall not exceed 250 grams per liter of coating excluding water, exempt organic compounds and any colorant added to tint bases. (74.2.B.1)
- b) The VOC content of flat coatings shall not exceed 100 grams per liter of coating excluding water, exempt organic compounds and any colorant added to tint bases. (74.2.B.1)
- c) The VOC content of nonflat coatings shall not exceed 150 grams per liter of coating excluding water, exempt organic compounds and any colorant added to tint bases. (74.2.B.1)
- d) The VOC content of specialty architectural coatings shall not exceed the VOC limits in the Table of Standards in Rule 74.2. Specifically, the VOC content of industrial maintenance coatings shall not exceed 250 grams per liter of coating excluding water, exempt organic compounds and any colorant added to tint bases. (74.2.B.1)
- e) Records of the name, type, VOC content, and amounts of architectural coatings used shall be maintained.

- 15. The adhesive and sealant operations shall comply with all applicable provisions of Rule 74.20, "Adhesives and Sealants". This includes, but is not limited to, the following requirements:

- a) The ROC content of adhesives, sealants, and primers shall not exceed the applicable limits in Rules 74.20.B.1 and 74.20.B.2 in the units of grams per liter of adhesive, sealant, or primer less water and exempt organic compounds. (74.20.B.1 and 74.20.B.2)

- b) The ROC content of materials used for substrate surface preparation shall not exceed 70 grams per liter of material. This limit does not apply to single ply roof membrane installation where the ROC composite partial pressure shall not exceed 45 mm of Hg at 20 degrees Celsius. (74.20.B.4)
- c) ROC-containing materials used for the removal of adhesives or coatings from surfaces, other than spray application equipment, shall have a ROC composite partial pressure of less than 45 mm of Hg at 20 degrees Celsius. (74.20.B.5)
- d) Cleaning of adhesive spray application equipment shall comply with the requirements of Rule 74.20.B.7. If an enclosed gun washer or low emission spray gun cleaner is used, the ROC composite partial pressure of organic solvents used shall be less than 45 mm Hg at 20 degrees Celsius. If an enclosed gun washer or low emission spray gun cleaner is not used then a solvent containing no more than 70 grams ROC per liter of material shall be used for cleaning, flushing or soaking of filters, flushing lines, pipes, pumps, and other parts of the application equipment. Parts containing dried adhesive may be soaked in an organic solvent as long as the ROC composite partial pressure of the solvent is 9.5 mm of Hg or less at 20 degrees Celsius. (74.20.B.7)
- e) Adhesive strippers shall have an ROC composite partial pressure of 9.5 mm Hg or less at 20 degrees Celsius. (74.20.B.9)
- f) Primers, sealants, or adhesives containing methylene chloride or 1,1,1-trichloroethane shall not be used. This requirement does not apply to adhesives containing methylene chloride used to plastic weld plastic substrates as listed in Rule 74.20.B.10. (74.20.B.10)
- g) Records of the name, type, and amounts of adhesives, sealants, primers, strippers, and solvents used shall be maintained as detailed in Rule 74.20.D. For adhesives, sealants, and primers this includes the ROC content and for strippers and solvents this includes the ROC content and ROC composite partial pressure as applicable. (74.20.D)

These requirements do not apply to the assembling, manufacturing and repairing of aerospace components subject to Rule 74.13, "Aerospace Assembly and Component Manufacturing", excluding manufacturing of aircraft tires. (74.20.C.2.a)

16. Annual hours of operation shall not exceed 1800 hours of operation for each of the three diesel engines used for emergency electrical generation (95.2 BHP Caterpillar, 40 BHP Generac, 32 BHP Onan). This limit includes both emergency and maintenance and testing hours of operation.

Pursuant to Rule 74.9.D.3, the emergency engines are exempt from

Rule 74.9 Sections B, C, and E.

In order to comply with this condition, the permittee shall maintain monthly records of hours of operation for each engine. The permittee shall also record the purpose for each use of the engine(s). These records shall be compiled into a monthly summary. The monthly usage records shall be summed for the previous 12 calendar months. Total hours of operation for any of these rolling 12 calendar month periods in excess of the specified limits shall be considered a violation of this condition.

This condition is federally-enforceable, pursuant to Rule 35.C.2 as adopted by the District on November 12, 1996. This condition was established pursuant to Permit to Operate Application No. 00232-341 and modified pursuant to Application Nos. 00232-371, 00232-421, and 00232-431.

17. The emergency diesel engine(s) shall be operated in compliance with all applicable requirements of the California ARB Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines, Section 93115 through 93115.15, Title 17, California Code of Regulations. This includes, but is not limited to, the following permit conditions.
18. Pursuant to Section 93115.5(b) of the ATCM for Stationary Compression Ignition Engines, effective January 1, 2006, no owner or operator of an in-use emergency standby stationary diesel-fueled engine shall add to the engine or any fuel tank directly attached to the engine any fuel unless the fuel is CARB diesel fuel or another fuel that meets the requirements of Section 93115.5(b) of the ATCM.
19. The following diesel engines shall be used for emergency purposes only:  
  
95.2 BHP Caterpillar, Model 1004-40T (D50P2), BN025053  
40 BHP Generac, Model 99A04818-5, BN023980  
32 BHP Onan, Model RDJF, MO709303  
  
Pursuant to Rule 23.D.7, an emergency engine is either a portable engine used for emergency purposes; an engine that is used only when electrical power line or natural gas service fails; or an engine used for the emergency pumping of water for either fire protection or flood relief. These engines have been permitted pursuant to Rule 35, "Elective Emission Limits".
20. Annual hours of operation for maintenance and testing of each emergency engine shall not exceed 20 hours per year. When not being operated for maintenance or testing, the emergency engines shall only be used during a failure or loss of all or part of normal electrical power service to the facility. This condition is applied pursuant to the California ARB Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines.

In order to comply with this condition, each engine shall be equipped with a non-resettable hour meter and the permittee shall maintain a log that differentiates operation during maintenance and testing from emergency operation. These records shall be compiled into a monthly total. The monthly operating hour records shall be summed for the previous 12 months. Total operating hours for any of these 12 month periods, excluding emergency operation, in excess of the specified annual limit shall be considered a violation of this condition.

This data shall be maintained for a minimum of two (2) years from the date of each entry and shall be made available to the APCD upon request.

21. The permittee shall maintain twelve month rolling records of hours of operation for each of the emergency engines.

These records shall be maintained at the facility for the previous five years and shall be made available to District personnel upon request. This permit condition is federally-enforceable pursuant to Rule 35.C.2 as adopted by the District on November 12, 1996.

22. Annual gasoline throughput at the gasoline dispensing facility at the Santa Susana Field Laboratory shall not exceed 24,000 gallons per year. Prior to exceeding this limit, the permittee shall apply for, and obtain, a permit modification.

In order to demonstrate compliance with this condition, the permittee shall maintain monthly records of gasoline throughput. The monthly records shall be summed for the previous 12 calendar months. Gasoline throughput totals for any of these rolling 12 calendar month periods in excess of the specified limit shall be considered a violation of this condition.

These records shall be maintained for five years and shall be made available to District personnel upon request.

This non-retail gasoline tank with a capacity of 500 gallons is permitted pursuant to Rule 35, "Elective Emission Limits". This condition is federally-enforceable, pursuant to Rule 35.C.2 as adopted by the District on November 12, 1996. This condition was established pursuant to Permit to Operate Application No. 00232-411.

23. The 500 gallon aboveground gasoline tank shall comply with all applicable provisions of Rule 70, "Storage and Transfer of Gasoline". This includes, but is not limited to, the following requirements:
  - a) The gasoline storage tank shall be equipped with a permanently installed submerged fill pipe which extends to within six inches of the tank bottom. (70.B.1)

b) Pursuant to the exemption of Rule 70.F.2, the gasoline storage tank is exempt from the Phase I (Rule 70.B.2) and the Phase II (Rule 70.B.9) vapor recovery requirements of Rule 70. In addition, the tank is exempt from the pressure-vacuum relief valve (Rule 70.B.6) requirements of Rule 70.

As this gasoline tank is exempt from the requirements of Rules 70.B.2, 70.B.6, and 70.B.9, the gasoline tank is also exempt from the testing requirements of Rule 70.H.

24. Combined natural gas consumption for all boilers and heaters at the Santa Susana Field Laboratory shall not exceed 18.2 million cubic feet (MMCF) per year.

In order to demonstrate compliance with this condition, the permittee shall maintain monthly records of fuel consumption as measured by the main facility gas meter. The monthly records shall be summed for the previous 12 calendar months. Fuel consumption totals for any of these rolling 12 calendar month periods in excess of the specified limit shall be considered a violation of this condition.

These records shall be maintained for five years and shall be made available to District personnel upon request.

These boilers and heaters that have heat input ratings of less than 1 MMBTU/Hr are permitted pursuant to Rule 35, "Elective Emission Limits". This condition is federally-enforceable, pursuant to Rule 35.C.2 as adopted by the District on November 12, 1996. This condition was established pursuant to Permit to Operate Application No. 00232-341.

25. Combined annual operation for all portable gasoline and diesel engines rated at less than 50 BHP at the Santa Susana Field Laboratory shall not exceed 3,200 hours per year. This limit is a combined limit for all engines and not a limit for a single engine.

This limitation includes all engines that are associated with soil, groundwater, and stormwater treatment and remediation, but does not include vehicular engines exempt from permit pursuant to Rule 23.D.1. Engines subject to this condition include, but are not limited to, engines used for outfall maintenance and engines used for water, soil, and air sampling. This includes both engines owned by The Boeing Company and engines owned by contractors. Engines not subject to this condition include engines used for landscaping and engines owned by contractors for building construction, demolition, and renovation purposes.

In order to demonstrate compliance with this condition, the permittee shall maintain monthly records of hours of operation for each engine as measured by an hour meter or usage log. The monthly

VCAPCD Permit To Operate Number 00232  
Issued To Santa Susana Field Laboratory  
Valid July 1, 2012 to June 30, 2013

records shall be summed for the previous 12 calendar months. Hours of operation totals for any of these rolling 12 calendar month periods in excess of the specified limit shall be considered a violation of this condition.

These records shall be maintained for five years and shall be made available to District personnel upon request.

These engines that have ratings of less than 50 BHP are permitted pursuant to Rule 35, "Elective Emission Limits". This condition is federally-enforceable, pursuant to Rule 35.C.2 as adopted by the District on November 12, 1996. This condition was established pursuant to Permit to Operate Application No. 00232-411.

26. The permittee had leased 0.30 tons per year of nitrogen oxides (NOx) emission reduction credits from Chevron U.S.A. Inc. (ERC Certificate No. 1001) for operation of a York Shipley Boiler to satisfy the emission offset requirements of VCAPCD Rule 26 (as it existed prior to October 22, 1991). The lease expired on January 31, 1998, and the York Shipley boiler has been removed from service.

The emission offsets obtained for the York Shipley Boiler may be eligible for rebanking. In order to rebank these emissions, an application shall be submitted that details the amount of offsets eligible for banking pursuant to Rule 26.4, "New Source Review - Emission Banking".

Within 30 days after receipt of this permit, the permittee may petition the Hearing Board to review any new or modified condition (Rule 22).

This permit, or a copy, shall be posted reasonably close to the subject equipment and shall be accessible to inspection personnel (Rule 19). This permit is not transferable from one location to another unless the equipment is specifically listed as being portable (Rule 20).

This Permit to Operate shall not be construed to allow any emission unit to operate in violation of any state or federal emission standard or any rule of the District.

For:

Terri Thomas  
Engineering Division

Michael Villegas  
Air Pollution Control Officer

# CERTIFICATE OF EMISSION REDUCTION CREDITS

Certificate Number 1119

## This Certificate Has Been Issued To The Following Company:

The Boeing Company  
5800 Woolsey Cyn. MS T487  
Canoga Park, CA 91304

**DRAFT**

## Emission Reduction Credit Balance (In Tons Per Year):

Reactive Organic Compounds	0.45
Nitrogen Oxides	0.00
Particulate Matter (PM10)	0.00
Sulfur Oxides	0.00

ERC Profile: Jan-Mar: 25% Apr-Jun: 25% Jul-Sep: 25% Oct-Dec: 25%

ERC Location: Santa Paula NGA

## Use of This Emission Reduction Credit Is Subject To The Following Limitations:

There are no limitations on the use of these emission reduction credits.

For:

Terri Thomas, Supervisor  
Engineering Division

Michael Villegas  
Air Pollution Control Officer

## Transaction History (In Tons per Year):

Action	Date	Application	ROC	NOx	PM10	SOx
Final Transfer	9/8/1994	01078-TRN	1.00	1.00	0.00	0.00
Transfer from SCE Certificate No. 1078						
Final Withdrawal	10/13/1994	00271-MIT	0.00	-0.24	0.00	0.00
Rule 74.15 Offset - 440 lb at 1.1 Ratio						
Final Withdrawal	7/11/1995	00271-161	-0.20	0.00	0.00	0.00
Permit ethanol storage tank						
Final Withdrawal	9/18/1997	00228-261	-0.26	0.00	0.00	0.00
Increase Degreasing Solvent Consumption						
Final Withdrawal	9/7/1999	00228-311	-0.01	-0.17	0.00	0.00
Existing Air Compressor Engines						

**Transaction History (In Tons per Year):**

<b>Action</b>	<b>Date</b>	<b>Application</b>	<b>ROC</b>	<b>NOx</b>	<b>PM10</b>	<b>SOx</b>
Final Withdrawal Existing Electricity Generating Engines	9/7/1999	00228-281	-0.04	-0.59	0.00	0.00
Final Withdrawal Increase Engine Operating Hours	6/4/2001	00228-321	-0.04	0.00	0.00	0.00
Final Withdrawal Temporary - Portable SWTS Engines	6/22/2009	00232-411	-0.43	0.00	0.00	0.00
Final Withdrawal Return Temporary ERCs -411	9/14/2009	00232-421	0.43	0.00	0.00	0.00