



South Coast Air Quality Management District

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(909) 396-2000 • www.aqmd.gov

March 10, 2016

Mr. Gerardo Rios – via email (R9Airpermits_sc@epa.gov)
Chief – Permits Office
U. S. EPA, Region IX
75 Hawthorne Street, Air 3
San Francisco, CA 94105

Reference: Transmittal of Proposed Title V Permit Revision

Dear Mr. Rios:

Enclosed is the Proposed Title V Revision Permit and Permit Evaluation for **American Airlines (ID 800196)**. With your receipt of the proposed Title V permit revision today, we will note that the EPA 45-day review period will begin on March 10, 2016.

Questions on the proposed Title V permit revision should be directed to Mr. Thai Tran, Air Quality Engineer, at (909) 396-2562 or ttran@aqmd.gov.

Sincerely,

A handwritten signature in black ink that reads "Mohan Balagopalan".

Mohan Balagopalan
Senior Air Quality Engineering Manager
Chemical, Mechanical and Ports Permitting
Engineering and Compliance Division

MB:TT

Enclosures:
Proposed Title V Revision Permit
Permit Evaluation

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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
Process 1: ICE, EMERGENCY					
System 1: GENERATION OF MECHANICAL POWER					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, S/N 674875. DIESEL FUEL, CUMMINS, MODEL H-6-1F, WITH TURBOCHARGER, 220 HP A/N: 514237	D8		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]	C1.1, C1.9, D12.1, D90.1, D323.1, K67.10
System 2: GENERATION OF ELECTRICAL POWER					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL 6CTA8 3-G2, SERIAL NO. 45838796, WITH AFTERCOOLER, TURBOCHARGER, 277 HP A/N: 361519	D133		NOX: PROCESS UNIT**	CO: 8.5 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1) -BACT, 5-10-1996]; NOX: 6.9 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM10: 0.38 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; ROG: 1 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	C1.4, C1.10, D12.1, D90.1, D323.1, K67.9

- * (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 AMERICAN AIRLINES INC

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: ICE, EMERGENCY					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CATERPILLAR, MODEL 3516C-HD, 3634 BHP WITH A/N: 539710	D158		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; RULE 1470, 5-4-2012; RULE 2005, 6-3-2011; 40CFR 63 Subpart IIII, 12-22-2006]. NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2005, 6-3-2011]; NOX + ROG: 4.8 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002; RULE 1470, 5-4-2012; RULE 2005, 6-3-2011; 40CFR 60 Subpart IIII, 6-28-2011]; PM: 0.023 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002; RULE 1470, 5-4-2012; RULE 2005, 6-3-2011; 40CFR 60 Subpart IIII, 6-28-2011]	C1.4, C1.14, D12.1, E57.1, E448.2, E448.3, H23.10, I297.1, K67.15
FILTER, DIESEL PARTICULATE, RYPOS, MODEL ADPF-7,-8	C159				E448.1
Process 2: ICE, NON-EMERGENCY					
System 1: AIR START UNIT					
TURBINE, PORTABLE AIRCRAFT START UP, DIESEL FUEL, GARRET RESEARCH, MODEL GPU 85/90, ID NO. 1460, 4.29 MMBTU/HR A/N: 463994	D121		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	D323.1

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2: ICE, NON-EMERGENCY					
TURBINE, PORTABLE AIRCRAFT START UP, DIESEL FUEL, GARRET RESEARCH, MODEL GPU 85/90, ID NO. 1674, 4.29 MMBTU/HR A/N: 463995	D122		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	D323.1
TURBINE, PORTABLE AIRCRAFT START UP, DIESEL FUEL, GARRET RESEARCH, MODEL GPU 85/90, ID NO. 4110, 4.29 MMBTU/HR A/N: 463997	D123		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	D323.1
INTERNAL COMBUSTION ENGINE, AIR START UNIT NO. 22141, PORTABLE, DIESEL FUEL, DETROIT DIESEL, MODEL 8063-7433, WITH AFTERCOOLER, TURBOCHARGER. 380 BHP A/N: 408675	D131		NOX: PROCESS UNIT**	CO: 8.5 GRAM/BHP-HR DIESEL (8); CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 6.9 GRAM/BHP-HR DIESEL (8); NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.4 GRAM/BHP-HR DIESEL (8); SOX: 500 PPMV (5) [RULE 407, 4-2-1982]; VOC: 1 GRAM/BHP-HR DIESEL (8)	C1.3, D12.1, D323.1, E71.1, H23.5, K67.6

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 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
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(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.)
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 2: ICE, NON-EMERGENCY					
INTERNAL COMBUSTION ENGINE, AIR START UNIT NO. 20143, PORTABLE, DIESEL FUEL, DETROIT DIESEL, MODEL 8063-7433, WITH AFTERCOOLER, TURBOCHARGER, 380 BHP A/N: 408676	D132		NOX: PROCESS UNIT**	CO: 8.5 GRAM/BHP-HR DIESEL (8); CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 6.9 GRAM/BHP-HR DIESEL (8); NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.4 GRAM/BHP-HR DIESEL (8); SOX: 500 PPMV (5) [RULE 407, 4-2-1982]; VOC: 1 GRAM/BHP-HR DIESEL (8)	C1.3, D12.1, D323.1, E71.1, H23.5, K67.6
Process 3: FUELING					
System 1: ORGANIC LIQUID RECEIVING, STORAGE, AND DISTRIBUTION, UNDERGROUND					
BULK MATERIAL LOADING STATION, TERMINAL 4, JET FUEL (JPA), WITH 25 FUEL PITS, EACH WITH A 4" CLA-VAL VALVE, 2 ISOLATION VALVE PITS, 2 FLUSHING PITS & 1 VAULT WITH A/N: FUGITIVE EMISSIONS, VALVES	D156				C1.16, E71.5, E71.6, K67.16
System 2: ORGANIC LIQUID RECEIVING, STORAGE, AND DISTRIBUTION, ABOVEGROUND					
BULK LOADING/UNLOADING RACK, 1 POSITION TK TRUCK LOADING, GASOLINE, W/ 1 GASOLINE BOTTOM LOADING HOSE & 1 VAPOR RECOVERY HOSE, BOTH W/ DRY COUPLER, 1 TOTAL A/N: 563690	D151			ROG: (9) [RULE 461, Morrison Phase I EVR AST Conditions, 4-6-2012]	C1.11, D330.1, J373.2, K67.17

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 (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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
Process 3: FUELING					
FUEL DISPENSING NOZZLE, VACUUM ASSIST PHASE II CONTROL, GASOLINE, HEALY MODEL 400 ORVR W/ PROCESSOR (G-70-187), 1 TOTAL A/N: 563690	D152				C1.12, D330.1, J373.2, K67.17
STORAGE TANK, FIXED ROOF, GASOLINE, VR-402, 12000 GALS; DIAMETER: 9 FT 7 IN; LENGTH: 33 FT 10 IN A/N: 563690	D153				D330.1, J373.2, K67.17
Process 4: COATING					
System 1: MOTOR VEHICLE AND MOBILE EQUIPMENT NON-ASSEMBLY LINE COATING					
SPRAY COATING OPERATION, AUTOMOTIVE, 10 HP FAN, 19 FT W. X 15 FT H. X 40 FT D., WITH SPRAY BOOTH A/N: 415641	D140			PM: (9) [RULE 404, 2-7-1986]; ROG: (9) [RULE 1107, 1-6-2006; RULE 1124, 9-21-2001; RULE 1151, 12-11-1998; RULE 1151, 12-2-2005; RULE 1168, 1-7-2005; RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	C6.1, D12.2, D322.1, E175.1, H23.1, K67.3, K67.4, K67.8
SPRAY COATING OPERATION, BINKS, 1-1/2 HP EXHAUST FAN, 10 FT W. X 8 FT H. X 10 FT D., WITH SPRAY BOOTH A/N: 415642	D141			PM: (9) [RULE 404, 2-7-1986]; ROG: (9) [RULE 1107, 1-6-2006; RULE 1124, 9-21-2001; RULE 1151, 12-11-1998; RULE 1151, 12-2-2005; RULE 1168, 1-7-2005; RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	C1.8, C6.1, D12.2, D322.1, E175.1, H23.1, K67.3, K67.4, K67.8

- * (1) (1A) (1B) Denotes RECLAIM emission factor
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- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
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FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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
Process 4: COATING					
SPRAY COATING OPERATION, BINKS, FILTER TYPE, WITH SPRAY BOOTH A/N: A61114	D23			PM: (9) [RULE 404, 2-7-1986]; ROG: (9) [RULE 1151, 12-11-1998; RULE 1151, 12-2-2005; RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	B27.1, C6.1, D12.2, D322.1, E175.1, H23.1, K67.3, K67.4, K67.8
System 2: COATING OF METAL PARTS AND PRODUCTS					
SPRAY COATING OPERATION, CUSTOM, FILTER-FLOOR TYPE, WITH SPRAY BOOTH A/N: C27913	D26			PM: (9) [RULE 404, 2-7-1986]; ROG: (9) [RULE 1107, 1-6-2006; RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	B27.1, C1.2, C6.1, D12.2, D322.1, E175.1, H23.1, K67.3, K67.4, K67.8
Process 5: GENERATION OF THERMAL POWER					
System 2: BOILER					
BOILER, NO. 1, NATURAL GAS, CYCLOTHERM, MODEL CW-70, 6.695 MMBTU/HR A/N: 415636	D136		NOX: PROCESS UNIT**	CO: 400 PPMV NATURAL GAS (5) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; NOX: 47.75 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]	C1.5, D12.4, E71.2, K67.12
BOILER, NO. 2, NATURAL GAS, CYCLOTHERM, MODEL CW-70, 6.695 MMBTU/HR A/N: 415638	D137		NOX: PROCESS UNIT**	CO: 400 PPMV NATURAL GAS (5) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; NOX: 47.75 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]	C1.5, D12.4, E71.2, K67.12

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 (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
 (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 AMERICAN AIRLINES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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
Process 5: GENERATION OF THERMAL POWER					
BOILER, NO. 3, NATURAL GAS, KEWANEE, MODEL L3W-300-002, 12.55 MMBTU/HR A/N: 415639	D138		NOX: PROCESS UNIT**	CO: 400 PPMV NATURAL GAS (5) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; NOX: 47.75 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]	C1.5, D12.4, E71.2, K67.12
Process 6: RULE 219 EXEMPT EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, REFRIGERANT RECOVERY AND/OR RECYCLING UNITS,	E91				H23.2
RULE 219 EXEMPT EQUIPMENT, EXEMPT HAND WIPING OPERATIONS	E93			VOC: (9) [RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	H23.6
RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS	E94				H23.3
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E95			VOC: (9) [RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	H23.4
HEATER, MULTIPLE UNITS FOR SPACE HEATING	E150			CO: 400 PPMV NATURAL GAS (5) [RULE 1146.2, 5-5-2006]	

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 (2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
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**FACILITY PERMIT TO OPERATE
AMERICAN AIRLINES INC**

SECTION D: DEVICE ID INDEX

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

**FACILITY PERMIT TO OPERATE
 AMERICAN AIRLINES INC
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D8	1	1	1
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D26	6	4	2
E91	7	6	0
E93	7	6	0
E94	7	6	0
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D121	2	2	1
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D131	3	2	1
D132	4	2	1
D133	1	1	2
D136	6	5	2
D137	6	5	2
D138	7	5	2
D140	5	4	1
D141	5	4	1
E150	7	6	0
D151	4	3	2
D152	5	3	2
D153	5	3	2
D156	4	3	1
D158	2	1	2
C159	2	1	2

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

FACILITY CONDITIONS

F10.1 Material(s) that contain the following compound(s) shall not be used in this facility;

Hexavalent chromium

This condition shall only apply to spray coating applications.

[RULE 1401, 3-4-2005]

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

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

F14.2 The operator shall not use liquid fuel containing sulfur compounds in excess of 0.5 percent by weight.

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

F48.1 The operator shall not use at this facility natural gas containing sulfur compounds calculated as H₂S in excess of 16 parts in a million by volume.

[RULE 431.1, 6-12-1998]

F58.1 For the purposes of monitoring, recording, and reporting under RECLAIM, portable internal combustion engine(s) and turbine(s) operated at this facility shall be monitored by a non-resettable timer to accurately indicate the elapsed operating time of the equipment unless monitored by a fuel meter meeting the following requirements:

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

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

1. The devices served by the fuel meters shall be electrically wired in such a manner that its operation cannot be initiated without the fuel meters first being activated.
2. The fuel meters and temperature transducers shall be calibrated annually by the manufacturer, KRAL-USA, Inc. or its designated representatives. Dual fuel meters shall be calibrated on the same day, using the same equipment. The fuel meters shall be calibrated as specified by KRAL-USA, Inc. in the protocols submitted to the South Coast Air Quality Management District dated July 17, 2001 without deviation unless written approval is granted.
3. The calculations of electronic flow computers, for display of flow measurement results, shall be verified at time of fuel meter calibration by KRAL-USA, Inc. or its designated representatives. Calibration results shall be maintained at the facility and made available to the Executive Officer or his representatives upon demand for a minimum of three years after the date of calibration.
4. The fuel meters and its electronic components shall be sealed by the manufacturer, KRAL-USA, Inc., or its designated representatives. Such seal shall only be broken by the manufacturer or its authorized representative for purposes of testing, maintenance or repair purposes. The meter shall be re-sealed immediately after the completion of the test or repair.
5. An operation log shall be maintained to record every testing, maintenance, repair or calibration of a fuel meter. Each fuel meter log shall be positively identified for each fuel meter and the device it serves. The operation logs shall be kept at the facility for a minimum of three years after the end of each compliance year. These operation logs shall be made available to the Executive Officer or his representative upon demand.
6. The fuel meters shall not be equipped with keypad or buttons that allow changes to the programming or data contained in the units. Portable keypad may be used by the manufacturer or its representatives for testing, maintenance, or repair purposes. In addition, access to the program and data contained in the units shall be passcode protected. This passcode shall only be made available to the manufacturer or its designated representatives.

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

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

7. Existing timer on each of the devices shall be maintained in good operation manner for a minimum of three years initial operation of the time meter. During this period, timer readings shall be made and recorded in the maintenance log on a quarterly basis.

[RULE 2012, 3-16-2001; RULE 2012, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

DEVICE CONDITIONS

B. Material/Fuel Type Limits

B27.1 The operator shall not use materials containing any compounds identified in the SCAQMD Rule 1401, as amended 07-dec-1990.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D23, D26]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the operating time to no more than 199 hour(s) in any one year.

[RULE 1110.2, 7-9-2010; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 2012, 3-16-2001; RULE 2012, 5-6-2005]

[Devices subject to this condition : D8]

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

C1.2 The operator shall limit the coating and solvent usage to no more than 2.5 gallon(s) per day.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D26]

C1.3 The operator shall limit the operating time to no more than 150 hour(s) in any one year.

[**RULE 1401, 3-17-2000; RULE 2012, 12-7-1995; RULE 2012, 4-9-1999**]

[Devices subject to this condition : D131, D132]

C1.4 The operator shall limit the operating time to no more than 200 hour(s) in any one year.

[**RULE 1110.2, 7-9-2010; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 2005, 6-3-2011; RULE 2012, 3-16-2001; RULE 2012, 5-6-2005; 40CFR 60 Subpart III, 6-28-2011**]

[Devices subject to this condition : D133, D158]

C1.5 The operator shall limit the fuel usage to no more than 90000 therms in any one year.

[**RULE 1146, 11-17-2000**]

[Devices subject to this condition : D136, D137, D138]

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.8 The operator shall limit the coating and solvent usage to no more than 6 gallon(s) per day.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D141]

C1.9 The operator shall limit the operating time to no more than 34 hour(s) in any one year.

For the purpose of this condition, operating time shall be defined as maintenance and testing time in Rule 1470.

[RULE 1470(h)(15), 11-3-2006]

[Devices subject to this condition : D8]

C1.10 The operator shall limit the operating time to no more than 20 hour(s) in any one year.

For the purpose of this condition, operating time shall be defined as maintenance and testing time in Rule 1470.

[RULE 1470, 5-4-2012]

[Devices subject to this condition : D133]

C1.11 The operator shall limit the gasoline dispensed to no more than 29766 gallon(s) in any one calendar month.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D151]

- C1.12 The operator shall limit the gasoline dispensed to no more than 33567 gallon(s) in any one calendar month.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002**]

[Devices subject to this condition : D152]

- C1.14 The operator shall limit the maintenance and testing to no more than 50 hour(s) in any one year.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 1470, 5-4-2012; RULE 2005, 6-3-2011; 40CFR 60 Subpart IIII, 6-28-2011**]

[Devices subject to this condition : D158]

- C1.16 The operator shall limit the loading rate of JETA fuel to no more than 20,200,000 gallon(s) in any one calendar month.

[**RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1401, 9-10-2010**]

[Devices subject to this condition : D156]

- C6.1 The operator shall use this equipment in such a manner that the differential pressure being monitored, as indicated below, does not exceed 0.25 inches water column.

To comply with this condition, the operator shall monitor the differential pressure as specified in condition number 12-2.

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D23, D26, D140, D141]

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.2, 7-9-2010; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1470, 5-4-2012; RULE 2005, 6-3-2011; RULE 2012, 3-16-2001; RULE 2012, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 60 Subpart III, 6-28-2011]

[Devices subject to this condition : D8, D131, D132, D133, D158]

D12.2 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the filter.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D23, D26, D140, D141]

D12.4 The operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the combustion chamber.

[RULE 1146, 11-17-2000]

[Devices subject to this condition : D136, D137, D138]

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D90.1 The operator shall periodically monitor the operation hours of the engine according to the following specifications:

The operator shall monitor and record on a monthly basis the emergency hours of operation.

The operator shall monitor and record on a monthly basis the maintenance and testing hours.

The operator shall monitor and record on a monthly basis the other operating hours (with description of reason of operation).

The operator shall monitor and record the timer reading in hours at the beginning and end of operation every time the engine is started manually.

The operator shall monitor and record total hours of operation for the previous calendar year within the first fifteen days of January of each year.

[RULE 1470, 5-4-2012; **RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D8, D133]

D322.1 The operator shall perform a weekly inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

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

[Devices subject to this condition : D23, D26, D140, D141]

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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.

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 2012, 3-16-2001; **RULE 2012, 5-6-2005**; **RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**; **RULE 401, 3-2-1984**; **RULE 401, 9-11-1998**]

[Devices subject to this condition : D8, D121, D122, D123, D131, D132, D133]

D330.1 The operator shall have a person that has been trained in accordance with Rule 461 conduct a semi-annual inspection of the gasoline transfer and dispensing equipment. The first inspection shall be in accordance with Rule 461, Attachment B, the second inspection shall be in accordance with Rule 461, Attachment C, and the subsequent inspections shall alternate protocols. The operator shall keep records of the inspection and the repairs in accordance to Rule 461 and Section K of this Permit.

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**; **RULE 461, 6-3-2005**; **RULE 461, 4-6-2012**; **RULE 461, OPW Phase I EVR Conditions, 6-3-2005**]

[Devices subject to this condition : D151, D152, D153]

E. Equipment Operation/Construction Requirements

E57.1 The operator shall vent this equipment to a Diesel Particulate Filter which is fully functional and is certified by California Air Resource Board as level 3 whenever it is in operation.

[**RULE 1303(a)(1)-BACT, 5-10-1996**; **RULE 1303(a)(1)-BACT, 12-6-2002**; **RULE 1470, 5-4-2012**; **RULE 2005, 6-3-2011**; **40CFR 60 Subpart IIII, 6-28-2011**]

[Devices subject to this condition : D158]

E71.1 The operator shall not operate this equipment for more than 12 consecutive months at any one location in this facility.

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

[Devices subject to this condition : D131, D132]

E71.2 The operator shall only operate this equipment using natural gas.

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

[Devices subject to this condition : D136, D137, D138]

E71.5 The operator shall only operate this equipment to transfer jet-A fuel.

[RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 1401, 9-10-2010]

[Devices subject to this condition : D156]

E71.6 The operator shall only operate this equipment to transfer fuel to aircraft.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D156]

E175.1 The operator shall not use this equipment unless all exhaust air passes through the following:

filter media at least 2 inches thick

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

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D23, D26, D140, D141]

E448.1 The operator shall comply with the following requirements:

Removal of the diesel particulate filter's filter media for cleaning may only occur under the following conditions:

A. The internal combustion engine shall not be operated for maintenance and testing or any other non-emergency use while the diesel particulate filter media is removed; and

B. The diesel particulate filter's filter media shall be returned and re-installed within 10 working days from the date of removal; and

C. The owner or operator shall maintain records indicating the date(s) the diesel particulate filter's filter media was removed for cleaning and the date(s) the filter media was re-installed. Records shall be retained for a minimum period of 5 years.

[40CFR 60 Subpart III, 6-28-2011]

[Devices subject to this condition : D158]

E448.2 The operator shall comply with the following requirements:

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

The engine shall comply with the emission standards specified in 40 CFR 60.4204(b) and 4205(b). The operator must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b), or 4205(b) or (c), as applicable, for the model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

The engine and the control device shall be operated and maintained in accordance with the manufacturer's written emission-related instructions or procedures developed by the operator that are approved by the engine manufacturer. Changes to those emission-related settings that are set by the manufacturer are not allowed.

[40CFR 60 Subpart III, 6-28-2011]

[Devices subject to this condition : D158]

E448.3 The operator shall comply with the following requirements:

The engine and the Rypos diesel particulate filter shall be operated in accordance with CARB Executive Order DE-07-001-03 or later version.

Filter cleaning is required every 1000 hours of operation.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1470, 5-4-2012; 40CFR 60 Subpart III, 6-28-2011]

[Devices subject to this condition : D158]

H. Applicable Rules

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

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

VOC	District Rule	109
PM	District Rule	481

[RULE 109, 5-2-2003; RULE 481, 1-11-2002]

[Devices subject to this condition : D23, D26, D140, D141]

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Refrigerants	40CFR82, SUBPART	B
Refrigerants	District Rule	1411

[RULE 1411, 3-1-1991; 40CFR 82 Subpart B, 7-14-1992]

[Devices subject to this condition : E91]

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Refrigerants	40CFR82, SUBPART	F

[40CFR 82 Subpart F, 5-14-1993]

[Devices subject to this condition : E94]

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1122

[RULE 1122, 10-1-2004; RULE 1122, 5-1-2009]

[Devices subject to this condition : E95]

H23.5 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
CO	40CFR89, SUBPART	B
NOX	40CFR89, SUBPART	B
PM	40CFR89, SUBPART	B
VOC	40CFR89, SUBPART	B

[40CFR 89 Subpart B, 7-1-2000]

[Devices subject to this condition : D131, D132]

H23.6 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	109

[RULE 109, 5-2-2003]

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

[Devices subject to this condition : E93]

H23.10 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
CO	District Rule	1470
NOX	District Rule	1470
PM10	District Rule	1470
ROG	District Rule	1470
Sulfur compounds	District Rule	431.2

[RULE 1470, 5-4-2012; **RULE 431.2, 5-4-1990**; RULE 431.2, 9-15-2000; **40CFR 60 Subpart IIII, 6-28-2011**]

[Devices subject to this condition : D158]

I. Administrative

1297.1 This equipment shall not be operated unless the facility holds 1520 pounds of NOx RTCs in its allocation account to offset the annual emissions increase for the first year of operation. RTCs held to satisfy this condition may be transferred only after one year from the initial start of operation. If the hold amount is partially satisfied by holding RTCs that expire midway through the hold period, those RTCs may be transferred upon their respective expiration dates. This hold amount is in addition to any other amount of RTCs required to be held under other condition(s) stated in this permit.

[**RULE 2005, 6-3-2011**]

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D158]

J. Rule 461

J373.2 The operator shall comply with the following gasoline transfer and dispensing requirements:

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

SECTION II: PHASE I VAPOR RECOVERY SYSTEM AND TESTING REQUIREMENTS

- a) Phase I vapor recovery system in full operation whenever fuel being transferred into storage tank.
- b) A Leak Rate and Cracking Pressure Test of pressure/vacuum relieve vent valves shall be conducted within ten (10) days after the start of operation of the Phase I EVR equipment and at least once every three (3) years thereafter to determine the pressure and vacuum at which the pressure/vacuum vent valve actuates, and to determine the volumetric leak rate at a given pressure. The test shall be conducted in accordance with the test procedure Method TP-201.1E (October 8, 2003).

Results shall be submitted to the SCAQMD, Office of Engineering and Compliance, within seventy two (72) hours of test. This test result shall be kept on site for five (5) years and made available to District representatives upon request.

SECTION III: PHASE II VAPOR RECOVERY SYSTEM AND TESTING REQUIREMENTS

- c) Phase II vapor recovery systems shall be in full operation whenever fuel being transferred into motor vehicles, as defined in Rule 461.
- d) A static pressure integrity test for aboveground storage tanks shall be conducted to demonstrate that the storage tanks, the nozzle vapor recovery check valves, associated vapor return piping and fittings are free from vapor leaks. The test shall be conducted as outlined in exhibit 3 of CARB executive order G-70-187 as a performance test and as a reverification test. Results shall be submitted to the SCAQMD, Office of Engineering and Compliance, within seventy-two (72) hours of test.
- e) A vapor return line vacuum integrity test shall be conducted to verify the vapor tightness of the portion of the Healy system which is subjected to relatively high levels of vacuum in the vapor return lines. The test shall be conducted as outlined in exhibit 4 of CARB executive order G-70-187 as a performance test and as a reverification test. Results shall be submitted to the SCAQMD, Office of

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Engineering and Compliance, within seventy-two (72) hours of test.

f) A fillneck vapor pressure regulation fueling test shall be conducted to verify proper operation of the nozzle boot pressure regulation. The test shall be conducted in accordance with exhibit 5 of CARB executive order G-70-187 as a performance test and as a reverification test. Results shall be submitted to the SCAQMD, Office of Engineering and Compliance, within seventy-two (72) hours of test.

g) The owner/operator shall be responsible to perform the testing and inspection requirements as outlined in exhibit 2, "Specifications for the Healy model 400 ORVR vapor recovery system for aboveground storage tank systems of CARB executive order G-70-187.

SECTION IV: BULK LOADING OPERATION REQUIREMENTS

h) The bulk loading/unloading equipment shall be operated for bottom loading only during the transfer of gasoline fuel from the aboveground gasoline storage tank into any tank truck. All vapor return lines shall be connected between the aboveground gasoline storage tank and tank truck.

i) The bulk loading/unloading equipment shall not be used for loading more than 29,766 gallons per month of organic liquids having a vapor pressure of 1.5 psia or greater under actual loading conditions.

j) This Class "B" loading facility shall be installed, operated, and maintained in accordance with district Rule 462.

k) The bulk plant vapor recovery system shall be certified by the California Air Resources Board (CARB) as required in Rule 462. The copy of the CARB bulk plant vapor recovery certification test result shall be retained on site and made available to District representatives upon request.

SECTION V: GENERAL REQUIREMENTS

l) All phase I and phase II vapor recovery equipment at this facility shall be installed,

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

operated and maintained to meet all CARB certification requirements.

m) All permit conditions applicable to the equipment described in the previous permit to operate G7825 (A/N 503183) shall remain in effect until the new or modified equipment is constructed and operated as described in this new permit. This permit to construct/operate shall become invalid if the modification as described in the equipment description has not been completed within one year from the issue date.

If the modification has not been completed within one year from the issue date of this permit, a written request shall be submitted to the SCAQMD (Attention: Randy Matsuyama) to reinstate the previously inactivated permit to operate. A new application shall be filed if there are plans to continue with the modification. Furthermore, this condition does not allow any time extensions to any modifications required by CARB or SCAQMD.

n) New equipment installations and subsequent service and repairs for any certified component for which this permit was issued, shall only be performed by a current or certified person who has successfully completed the manufacturer's training course and appropriate International Code Council (ICC) Certification. Completion of any SCAQMD training course does not constitute as a substitute for this requirement. Proof of successful completion of a manufacturer training course shall be with the manufacturer.

o) The District at its discretion may wish to witness the installation and/or performance testing of the new vapor recovery equipment. At least seventy-two (72) hours prior to the installation of the equipment and any of the mentioned testing requirements in this permit, the applicant shall notify SCAQMD electronically or other means as specified by the Executive Officer.

Such notification shall include the name of the owner or operator; the name of the contractor; the location of the facility; and the scheduled start and completion dates of the tests to be performed.

p) Unless SCAQMD Rule 461 requires a more frequent testing or inspection

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

schedule, the owner/operator shall be responsible to perform the scheduled weekly, quarterly and annual inspections as outlined in the CARB approved installation, operation, and maintenance manual for the Morrison Bros, Phase I EVR system, as well as all the required vapor recovery system tests as per the current and appropriate CARB Executive Order.

q) At least seventy-two (72) hours prior to back-filling any underground piping, the SCAQMD shall be notified electronically or other means as specified by the Executive Officer. Such notification shall include the name of the owner or operator; the name of the contractors, the location of the facility; and the scheduled start and completion dates of the back-filling procedure. The backfilling procedure shall not commence until inspected by a District representative.

r) SCAQMD shall be notified electronically or other means as specified by the Executive Officer at least seventy-two (72) hours prior to any of the above mentioned testing requirements. Such notification shall include the name of the owner or operator; the name of the contractor; the location of the facility; and the scheduled start and completion dates of the tests to be performed.

s) The testing for the above mentioned tests shall be conducted in accordance with the most recent Rule 461 amendment or CARB Executive Order requirements, whichever is more stringent.

t) A copy of the pass/fail test results shall be sent by the Tester electronically or other means specified by the Executive Officer within seventy-two (72) hours after each test is conducted. Furthermore, the final test results demonstrating compliance shall also be submitted electronically or other methods specified at the time by the Executive Officer within fourteen (14) calendar days from the date when all tests were passed.

The test report shall include at minimum all the required records of all tests performed, test data, current AQMD Facility ID No. of the location being tested, the equipment Permit to Operate or Application No., the AQMD ID number of the company performing the tests, a statement whether the system or component tested meets the required standards, and the name, AQMD Tester ID No. and signature of

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

the person responsible for conducting the tests.

u) All records and test results that are required to be maintained by Rule 461 shall be kept on site and made available to district representatives upon request.

v) The operator shall have a person that has been trained in accordance with Rule 461 conduct a semi-annual inspection of the gasoline transfer and dispensing equipment. The first inspection shall be in accordance with Rule 461, Attachment B, the second inspection shall be in accordance with Rule 461, Attachment C, and the subsequent inspections shall alternate protocols. The operator shall keep records of the inspection and the repairs in accordance to Rule 461 and Section K of this Permit.

[RULE 461, 6-3-2005; RULE 461, 3-7-2008]

[Devices subject to this condition : D151, D152, D153]

K. Record Keeping/Reporting

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

weekly record of pressure drop across the filter media

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring,
12-12-1997]

[Devices subject to this condition : D23, D26, D140, D141]

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

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

the name of the person performing the inspection and/or maintenance of the filter media

the date, time, and results of the inspection

the date, time, and description of any maintenance or repairs resulting from the inspection

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

[Devices subject to this condition : D23, D26, D140, D141]

K67.6 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

monthly hours of operation

fuel oil usage

[RULE 1401, 3-4-2005; RULE 2012, 3-16-2001; RULE 2012, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D131, D132]

K67.8 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

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

material safety data sheets for all coatings and solvents used at this facility shall be kept current and made available to District personnel upon request.

The operator shall keep adequate records for this equipment to verify daily volatile organic compound emissions in pounds and the voc content of each material as applied including water and exempt solvent.

all records shall be prepared in a format which is acceptable to the District, shall be retained on the premises for at least five years and be made available to the District upon request.

[RULE 109, 5-2-2003; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D23, D26, D140, D141]

K67.9 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

monthly hours of operation

**[RULE 1110.2, 7-9-2010; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;
RULE 2012, 3-16-2001; RULE 2012, 5-6-2005; RULE 3004(a)(4)-Periodic
Monitoring, 12-12-1997]**

[Devices subject to this condition : D133]

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

monthly hours of operation

reason for operation

dates of operation

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

**[RULE 1110.2, 7-9-2010; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 3-16-2001;
RULE 2012, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D8]

K67.12 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Annual fuel usage, in therms, of this equipment

[RULE 1146, 11-17-2000; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D136, D137, D138]

K67.15 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

total hours of operation of the engine for each month for 1) emergency use, 2) testing and Maintenance, 3) other uses - describe reason of operating

Indication of whether the engine is started manually or automatically

each time the engine is manually started, the log shall include the date of operation, the specific reason for operation, and the totalizing hour meter reading (in hours and tenths of hours) at the beginning and end of operation

The annual total hours of operation (include hours for manual and automatic operation) which shall be recorded no later than January 15th of the following year

The records shall be kept for a minimum of five calendar years prior to the current year and made available to District personnel upon request.

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1110.2, 7-9-2010; **RULE 1303(a)(1)-BACT, 5-10-1996**; RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996**; **RULE 1304(c)-Offset Exemption, 6-14-1996**; RULE 1470, 5-4-2012; **RULE 2005, 6-3-2011**; **RULE 2012, 5-6-2005**; **RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**; **40CFR 60 Subpart IIII, 6-28-2011**]

[Devices subject to this condition : D158]

K67.16 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Monthly loading rate of jet A fuel being transferred by this equipment

Records shall be kept for minimum five years and made available upon request

[**RULE 1304(c)-Offset Exemption, 6-14-1996**; RULE 1401, 9-10-2010; **RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D156]

K67.17 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Monthly loading rate of gaoline being transferred to tank trucks

Monthly loading rate of gasoline being transferred to motor vehicles

The owner/operator shall submit the facility's monthly gasoline throughput data for the previous calendar year to the Executive Officer on or before March 1 following each calendar year.

Records shall be kept for minimum five years and made available upon request

FACILITY PERMIT TO OPERATE AMERICAN AIRLINES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 9-10-2010; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D151, D152, D153]

COMPANY NAME: AMERICAN AIRLINES, INC. (ID 800196)

MAILING ADDRESS: P. O. BOX 92246
LOS ANGELES, CA 90009

EQUIPMENT LOCATION: 7000 WORLD WAY WEST
LOS ANGELES, CA 90045

EQUIPMENT DESCRIPTION:

A/N #580019 – Addition of 2 Jet-A Fuel Hydrants and Removal of 2 Jet-A Fuel Hydrants at Terminal No. 4 Fuel Loading Station.

A/N #580020 – RECLAIM/Title V De Minimis Significant Revision Plan

BACKGROUND:

This application was filed by American Airlines (AA) on 11/25/2015 as a Class 1 for increasing the throughput at the fuel hydrant system under device D156 at Terminal 4 in Los Angeles Airport (LAX). The throughput will increase from 16,600,000 to 20,200,000 gallons a month. The applicant also requests to install two new hydrants at gates 45 and 47A and remove two hydrants at gates 47A and 47B so the overall number of hydrants remains at 25. As shown in the calculations below, the increase of throughput will result in 3 lbs of VOC emission offset.

Filling loss emissions are from fuel vapor being displaced from the fuel tank when the fuel is pumped into the tank. The vapor is released at the tip of the wings. To reduce fire hazard, the vapor is released at a point furthest from the tank being filled. For example, when a fuel tank in the left wing is filled, the vapor is released at the tip of the right wing and vice versa.

American Airlines is a NO_x RECLAIM and Title V facility. In the last two calendar years, there have been no complaints, two Notices to Comply (E21270 and E34550), and one Notice of Violation (P54983). NTC No. E21270 was issued to reschedule vapor recovery tests for Device Nos. D152 and D153. NTC No. E34550 was issued to accurately report NO_x emissions for Rule 219 Exempt Equipment served by Gas Co. Meter# 7758144. NOV No. P54983 was issued for failure to correct fuel usage from NO_x Process Units and Rule 219 Exempt Equipment to standard conditions. The facility has addressed all of these cited issues and all three notices are now closed. The facility is currently in compliance with all SCAQMD rules and regulations.

A permit to construct/operate is recommended.

CALCULATIONS

VOC emissions from this system are from working (or loading) loss that occurs when the fuel is loaded into the air plane fuel tanks. EPA AP-42 Section 5.2 (June 2008 version) has Equation #1 for loading loss emission from this operation as follows:

$$EF = 12.46 (S)(P)(M)/(T)$$

Where S: saturation factor (Table 5.2-1), = 0.60, submerged loading: dedicated normal services

P: vapor pressure, psi @ 70 degree F = 0.011

M: molecular weight, lb/lbmole = 130

T: temperature of liquid loaded, degree R = 520

$$EF = (12.46) (0.60) (0.011) (130) / (520) \\ = 0.020559 \text{ lb}/1000\text{gal}$$

$$\text{Working Loss} = 20,200,000 \text{ gal}/\text{mo} \times 0.020559 \text{ lb}/1000\text{gal} = 415.29 \\ = (415.29 \text{ lb}/\text{mo}) (\text{mo}/30 \text{ dy}) = 13.84\text{lb}/\text{dy}$$

$$\text{Emission increase} = (20,200,000 - 16,600,000) \text{ gal}/\text{mo} \times 0.020559 \text{ lb}/1000\text{gal} = 74.01 \\ = (74.01 \text{ lb}/\text{mo}) (\text{mo}/30 \text{ dy}) = 2.47 \text{ lb}/\text{dy} = 0.103 \text{ lb}/\text{hr}$$

$$\text{Emission Offsets} = 2.47 \times 1.2 = 2.96 \quad \rightarrow \quad 3.0 \text{ lbs VOC}/\text{dy}$$

RULES EVALUATION:

This increase in throughput is subject to all applicable rules and regulations including new source review, offset, modeling and risk assessment.

Rule 212:

SECTION 212(c)(1) - This section requires a public notice for all new or modified permit units that may emit air contaminants located within 1,000 feet from the outer boundary of a school. This facility is not located within 1000 feet from a school; therefore, a public notice is not required under this section. The closest school to the proposed project at Terminal No. 4 is Center Street Elementary School (via www.greatschools.org and Google Maps) which is approximately 5,280 ft away.

Section 212(c)(2) - This section requires a public notice for all new or modified equipment and facilities, which have emission increases exceeding any of the daily maximums as specified in subdivision (g) [see table below]. There is minimal emission increase (2.47 lbs VOC/day) from this project; therefore, a public notice will not be required.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
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CHECKED BY
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SECTION 212(c)(3) - This section requires a public notice for all new or modified sources, which have on-site emission increases resulting in a cancer risk of more than 1 in a million. The MICR is less than 1×10^{-6} and the HIA and HIC are below one; therefore, a public notice is not required.

In addition, this section requires a public notice if the project results in a cancer risk of more than 10 in a million. The MICR for the project is less than 10×10^{-6} ; therefore, a public notice is not required.

SECTION 212(g) - This section requires a public notice for all new or modified sources that have equipment emission increases exceeding any of the daily maximum as specified by Rule 212 (g). Since the emission increase is less than the 30 lbs/day limit; therefore, a public notice is not required.

Pollutant	Daily Maximum lbs/day	Rule 212(g) Threshold lbs/day
VOC	2.47	30

Rule 401: The equipment has been operated in compliance with this rule. Continued compliance with this rule is expected.

Rule 402: The equipment has been operated in compliance with this rule. Continued compliance with this rule is expected.

Rule 462: This rule is not applicable to liquid organic with vapor pressure less than 1.5 psia.

Reg. XIII: The increase in throughput triggers NSR review.

- Although SCAQMD does not have jurisdiction on controlling emissions from aircrafts including fueling them and that EPA does not have emission control requirement on aircraft fueling, hence, no BACT/LAER has been determined or required on this system, the applicant has utilized measures similar to those considered as BACT required for non-aviation operations. These measures include bottom feeding when fueling the tanks, using hoses with tie connections, and having dry-break mechanism on the hoses to prevent spillage.
- Higher throughput has triggered offset requirements. The applicant will comply with the requirements by providing 3-lbs VOC ERC (see Calculations in prior section.)
- The only criteria pollutant from this equipment is VOC, but modeling for VOC is not required pursuant to Appendix A of Rule 1303.

RULE 1401: As tabulated below, Tier 1 Screening on emissions increase of Toxic Air Contaminants (TACs) assessed in accordance with Attachment M of Rule 1401 at a distance 100 meters from this facility (as the closest receptor is further than 100 meters) shows that neither the acute cumulative nor cancer/chronic cumulative index exceed 1. Therefore, no further risk assessment is required.

TAC	TAC % ¹	TAC Emission Increase (lb/hr)	Tier 1 Screening Level - Acute (lb/hr) ²	PSI	TAC Emission Increase (lb/yr)	Tier 1 Screening Level - Cancer/Chronic (lb/yr) ²	PSI
Benzene	0.00	0.00E+00	1.20E-01	0.00E+00	0.00	3.51E+00	0.00E+00
n-Hexane	0.01	5.77E-05	—		0.50	1.66E+06	3.04E-07
Toluene	0.13	7.50E-04	1.65E+02	4.54E-06	6.55	7.12E+04	9.20E-05
Ethylbenzene	0.13	7.50E-04	—		6.55	4.03E+01	1.63E-01
m-Xylene	0.31	1.794E-03	9.80E+01	1.83E-05	15.62	1.66E+05	9.41E-05
Application Screening Index (ASI), Acute				2.28E-05	ASI, Cancer/Chronic		1.63E-01
ASI < 1?				Yes	ASI < 1?		Yes

¹ Weight % of TACs from SCAQMD's Supplemental Instructions for Liquid Organic Storage Tanks & Reference, Appendix 3

² TAC emission increase compared to the Tier 1 Screening Levels at a receptor distance 100 meters, Rule 1401, Attachment M, June 5, 2015 version

Regulation XX: RECLAIM

AA is a NO_x- and SO_x- RECLAIM facility so it is subject to the requirements of this regulation. However, because fuel hydrant emits only non-RECLAIM pollutants so the installation of the fuel hydrant and throughput increase are not subject to the requirements of this regulation.

Regulation XXX:

Rule 3000 (b)(6):

The Title V permit revision caused by this equipment installation and throughput increase satisfies all the applicable conditions listed in this rule so, it constitutes a de minimis significant permit revision.

Rule 3002(a)(2):

This has been a TV facility and all of the applicable requirements for greenhouse gases have been incorporated. Installation of new hydrants and throughput increase of this facility will not generate the greenhouse gases to the level that would trigger additional requirements. This increase of throughput complies with this section of the rule.

Rule 3003:

This permit revision is a de minimis significant permit revision and is subject to EPA review. The proposed permit will be submitted to EPA for comments. The permit will be issued once the equipment meets all applicable requirements.

The proposed project is considered as a “de minimis significant permit revision” for non-RECLAIM pollutants or hazardous air pollutants (HAPs), and a “minor permit revision” for RECLAIM pollutants to the RECLAIM/Title V permit for this facility.

Non-RECLAIM Pollutants or HAPs

Rule 3000(b)(7) defines a “de minimis significant permit revision” as any Title V permit revision where the cumulative emission increases of non-RECLAIM pollutants or HAPs from these permit revisions during the term of the permit are not greater than any of the following emission threshold levels:

<u>Air Contaminant</u>	Daily Maximum (lbs/day)
HAP	30
VOC	30
NO _x *	40
PM ₁₀	30
SO _x *	60
CO	220

* Not applicable if this is a RECLAIM pollutant

STATIONARY SOURCE COMPLIANCE

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CHECKED BY

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To determine if a project is considered as a “de minimis significant permit revision” for non-RECLAIM pollutants or HAPs, emission increases for non-RECLAIM pollutants or HAPs resulting from all permit revisions that are made after the issuance of the Title V renewal permit shall be accumulated and compared to the above threshold levels. This proposed project is the 4th permit revision to the Title V renewal permit issued to this facility on July 6, 2012. The following table summarizes the cumulative emission increases resulting from all permit revisions since the Title V renewal permit was issued:

Revision	HAP	VOC	NO _x *	PM ₁₀	SO _x	CO
1 st Permit Revision; [addition of 1 Emergency ICE (Device No. D158)]	[8.86]	[1.16]	[4.4]*	[0.03]	[0.18]	[3.01]
2 nd Permit Revision; [addition of two fuel hydrants (Device D156)]	[0]	[0]	[0]*	[0]	[0]	[0]
3 rd Permit Revision; [modification of gasoline dispensing equipment]	[0]	[1.42]	[0]*	[0]	[0]	[0]
4 th Permit Revision; [addition of two fuel hydrants & removal of two fuel hydrants (Device D156)]	[0]	[2.47]	[0]*	[0]	[0]	[0]
Cumulative Total	[8.86]	[5.05]	[4.4]*	[0.03]	[0.18]	[3.01]
Maximum Daily	30	30	40*	30	60	220

* RECLAIM pollutant, not subject to emission accumulation requirements

Since the cumulative emission increases resulting from all permit revisions are not greater than any of the emission threshold levels, this proposed project is considered as a “de minimis significant permit revision” for non-RECLAIM pollutants or HAPs.

RECLAIM Pollutants

Rule 3000(b)(15)(A)(v) defines a “minor permit revision” as any Title V permit revision that does not result in an emission increase of RECLAIM pollutants over the facility starting Allocation plus non-tradeable Allocations, or higher Allocation amount which has previously undergone a significant permit revision process.

Since NO_x is a RECLAIM pollutant for this facility, a separate analysis shall be made to determine if the proposed permit revision is considered a “minor permit revision” for RECLAIM pollutants. Section B of the Title V permit shows that this facility’s NO_x starting Allocation plus the non-tradable Allocation is 26,728 pounds. The proposed project is expected to result in an increase of 0 lbs/year of NO_x emissions from this permit revision, less than the starting Allocation plus the non-tradable Allocations of 26,728 pounds. Additionally, pursuant to Rule 3000(b)(15)(A)(vii), the proposed project will result in an increase in GHG emissions of 0 tpy

CO_{2e}, which is $\leq 75,000$ tpy CO_{2e}. Finally, in order to be considered a “minor permit revision,” the Title V permit revision must also not violate a regulatory requirement, require any significant change in monitoring terms or conditions in the permit, etc. as stated in Rule 3000(b)(15)(A). The proposed project is expected to comply with these requirements. As a result, this proposed project is considered as a “minor permit revision” for RECLAIM pollutants.

RECOMMENDATIONS

The proposed project is expected to comply with all applicable SCAQMD Rules and Regulations. Since the proposed project is considered as a “de minimis significant permit revision” for non-RECLAIM pollutants or hazardous air pollutants (HAPs), and a “minor permit revision” for RECLAIM pollutants, it is exempt from the public participation requirements under Rule 3006(b). A proposed permit incorporating this permit revision will be submitted to EPA for a 45-day review pursuant to Rule 3003(j). If EPA does not have any objections within the review period and upon transfer of the 3 lbs/day VOC ERC to this facility, a revised Title V/RECLAIM permit will be issued to this facility with the following disposition:

Issue P/C-P/O with the throughput limit at 20,200,000 gallons/mo. (Condition C1.16), and that the remaining conditions remain unchanged.