

FACILITY PERMIT TO OPERATE

VALERO WILMINGTON ASPHALT PLANT 1651 ALAMEDA ST WILMINGTON, CA 90744

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By _____
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

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FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

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: CRUDE DISTILLATION					
System 1: CRUDE DISTILLATION					S13.1, S15.1
VESSEL, DESALTER, CRUDE DESALTER, D-5, LENGTH: 23 FT ; DIAMETER: 12 FT A/N: 390224	D1				
TOWER, PREFRACTIONATION, T-1, HEIGHT: 30 FT 4 IN; DIAMETER: 3 FT 6 IN A/N: 390224	D2				
ACCUMULATOR, PREFRACTIONATOR OVERHEAD, D-1, LENGTH: 8 FT ; DIAMETER: 3 FT 6 IN A/N: 390224	D3				
ACCUMULATOR, D-3, SOUR WATER, LENGTH: 8 FT ; DIAMETER: 3 FT A/N: 390224	D4				
ACCUMULATOR, D-4, KEROSENE, LENGTH: 8 FT ; DIAMETER: 2 FT A/N: 390224	D5				
VESSEL, COALESCER, F-9, KEROSENE, LENGTH: 8 FT 10 IN; DIAMETER: 2 FT A/N: 390224	D6				
TOWER, IRON SPONGE, D6A/B, ONE STANDBY, HEIGHT: 17 FT ; DIAMETER: 9 FT A/N: 390224	D7				E336.2
VESSEL, D-13, BLOWDOWN, LENGTH: 18 FT 6 IN; DIAMETER: 6 FT A/N: 390224	D8				

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| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor
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 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits</p> | <p>(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</p> |
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Process 1: CRUDE DISTILLATION					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 390224	D148				H23.12
System 2: VACUUM DISTILLATION					S13.1, S15.1
TOWER, VACUUM, T-2, HEIGHT: 47 FT ; DIAMETER: 5 FT A/N: 389633	D10				
ACCUMULATOR, VACUUM TOWER OVERHEAD, D-2, LENGTH: 8 FT ; DIAMETER: 3 FT A/N: 389633	D11				
EJECTOR, VACUUM JET, J-1A A/N: 389633	D12				H23.8
EJECTOR, VACUUM JET, J-1B A/N: 389633	D110				H23.8
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 389633	D149				H23.12
System 3: HEATERS					S18.2
HEATER, VACUUM, H-1, NATURAL GAS, PROCESS GAS, REFINERY GAS, WITH LOW NOX BURNER, 19.3 MMBTU/HR WITH A/N: 467281 BURNER, NATURAL GAS, REFINERY GAS, JOHN ZINK, 5 BURNERS	D13	D23	NOX: LARGE SOURCE**	CO: 400 PPMV (5) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 40 PPMV (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	B61.1, D90.4, D328.1, D328.3, H23.13, H23.16

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Process 1: CRUDE DISTILLATION					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 467281	D150				H23.12
Process 2: TREATING/STRIPPING					
System 1: NAPHTHA MEROX TREATER UNIT					S13.1
VESSEL, COALESCER, FEED COALESCER, F-50, LENGTH: 4 FT ; DIAMETER: 10 IN A/N: 389620	D14				
VESSEL, CAUSTIC PREWASH, D-100, LENGTH: 17 FT ; DIAMETER: 3 FT 6 IN A/N: 389620	D15				
REACTOR, MEROX REACTOR, D-101 A/N: 389620	D16				
TANK, CAUSTIC SETTLER, D-102, LENGTH: 12 FT ; DIAMETER: 3 FT A/N: 389620	D17				
VESSEL, SAND FILTER, D-103, LENGTH: 8 FT 9 IN; DIAMETER: 3 FT A/N: 389620	D18				
SUMP, MEROX, SPILLS COLLECTION, WIDTH: 6 FT 2 IN; DEPTH: 6 FT 2 IN; LENGTH: 6 FT 2 IN A/N: 389620	D21				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 389620	D151				H23.12
Process 3: FUEL GAS SYSTEM					
System 1: FUEL GAS TREATING (HIPERION UNIT)					S18.1

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Process 3: FUEL GAS SYSTEM					
COLUMN, ABSORBER, C-101, NAPHTHAQUINONE SOLUTION, HEIGHT: 40 FT ; DIAMETER: 2 FT A/N: 388926	D22			H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; SOX: 198.5 LBS/HR (5) [RULE 468, 10-8-1976]; SOX: 500 PPMV (5) [RULE 468, 10-8-1976]	D90.2, E336.2
COLUMN, OXIDIZER, C-102, NAPHTHAQUINONE REGENERATION, HEIGHT: 40 FT ; DIAMETER: 2 FT 3 IN A/N: 388926	D23	D13		H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	D90.2
CLARIFIER, Y-101, 1000 GALLONS A/N: 388926	D25				
FILTER PRESS, F-101, EIMCO A/N: 388926	D26				
BLOWER, B101A, SOUR GAS, 5 HP A/N: 388926	D142				
BLOWER, B101B, SOUR GAS, 5 HP A/N: 388926	D143				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 388926	D152				H23.2
System 2: FUEL GAS MIXING					
COMPRESSOR, K6 A/B, PROCESS GAS, WET TANDEM SEAL EMPLOYING A BARRIER FLUID SYSTEM, 40 HP A/N: 388928	D144				H23.2
DRUM, V-7, FUEL GAS MIXING, HEIGHT: 7 FT ; DIAMETER: 2 FT A/N: 388928	D147				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 388928	D153				H23.12

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Process 4: ASPHALT LOADING/UNLOADING					P1.1
System 1: ASPHALT TANK TRUCK LOADING					
LOADING ARM, TANK TRUCK, TOP, ASPHALT, WITH VAPOR COLLECTION HOOD, 4 TOTAL; DIAMETER: 4 IN A/N: 388930	D27	C28		VOC: (9) [RULE 1108, 2-1-1985]	D401.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 388930	D154				H23.12
System 2: ASPHALT TANK TRUCK LOADING RACK VRS					
MIST ELIMINATOR, F1, ASPHALT TANK TRUCK LOADING, WITH A BLOWER (K4) A/N: 388931	C28	D27			D12.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 388931	D155				H23.12
System 3: ASPHALT RAILROAD CAR LOADING/UNLOADING RACK					
LOADING ARM, TANK CAR, TOP, ASPHALT, WITH VAPOR COLLECTION HOOD, 4 TOTAL; DIAMETER: 4 IN A/N: 388932	D29	C30		VOC: (9) [RULE 1108, 2-1-1985]	D401.1
UNLOADING ARM, TANK CAR, NAPHTHA, KEROSENE, ASPHALT, GASOIL, 7 TOTAL A/N: 388932	D99				D401.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 388932	D156				H23.12
System 4: ASPHALT RAILROAD CAR LOADING RACK VRS					

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Process 4: ASPHALT LOADING/UNLOADING					P1.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 464521	D208				H23.12
Process 5: GAS OIL/NAPHTHA TANK TRUCK LOADING					
LOADING ARM, TANK TRUCK, TOP, GAS OIL, KEROSENE, 4 TOTAL; DIAMETER: 4 IN A/N: 388939	D32				C1.3
LOADING ARM, BOTTOM, TANK TRUCK, NAPHTHA, 2 TOTAL; DIAMETER: 4 IN A/N: 388939	D33			VOC: 0.08 LBS/1000 GAL (5) [RULE 462, 5-14-1999]	C1.1, E336.1, H23.9
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 388939	D159				H23.12
Process 6: CRUDE OIL TANK TRUCK UNLOADING					
UNLOADING ARM, TANK TRUCK, NAPHTHA, KEROSENE, GAS OIL, JET FUEL, DIESEL, FUEL OIL, CRUDE OIL, 4 TOTAL; DIAMETER: 4 IN A/N: 545841	D34				E148.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 545841	D160				H23.12
Process 7: WASTEWATER TREATMENT					
System 1: WASTEWATER TREATMENT					
VESSEL, OILY WATER TREATER, D-7, HEIGHT: 9 FT 6 IN; DIAMETER: 5 FT A/N: 466936	D77				

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Process 7: WASTEWATER TREATMENT					
MIXER, OILY WATER, D-11, WASTE WATER, HEIGHT: 5 FT ; DIAMETER: 1 FT A/N: 466936	D78				
SUMP, WITH SKIMMER, DEPTH: 11 FT ; DIAMETER: 7 FT A/N: 466936	D79	C109		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	H23.1
TANK, NO. 19, RECOVERED OIL DECANTING, HEIGHT: 13 FT 1 IN; DIAMETER: 4 FT 1 IN A/N: 466936	D81	C109		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	H23.1
TANK, NO. 18, SLOP OIL TRANSFER, HEIGHT: 6 FT 3 IN; DIAMETER: 4 FT 1 IN A/N: 466936	D83	C109		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	H23.1
CARBON ADSORBER, MODEL VSC-200, 55 GALLON CAPACITY A/N: 466936	C109	D79 D81 D83			D90.5, E128.1, E153.1
OIL WATER SEPARATOR, FLOATING ROOF, TK-3001, PRIMARY OIL RECOVERY, WITH AN OIL SKIMMER AND A 5-HP MIXER, HEIGHT: 28 FT ; DIAMETER: 26 FT 9 IN WITH A/N: 466936 FLOATING ROOF, WELDED SHELL PRIMARY SEAL, METALLIC SHOE	D111				H23.10

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Process 7: WASTEWATER TREATMENT					
OIL WATER SEPARATOR, FLOATING ROOF, TK-3002, PRIMARY OIL RECOVERY, WITH AN OIL SKIMMER AND A 5-HP MIXER, HEIGHT: 28 FT ; DIAMETER: 26 FT 9 IN WITH A/N: 466936 FLOATING ROOF, WELDED SHELL PRIMARY SEAL, METALLIC SHOE	D112				H23.10
TANK, VERTICAL, V-3000 UNICEL, INDUCED GAS COALESCER AND FLOTATION SEPARATOR, HEIGHT: 6 FT ; DIAMETER: 4 FT A/N: INACTIVE	D113			VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	H23.10
OIL WATER SEPARATOR, FLOATING ROOF, TK-3003, FINAL OIL RECOVERY, WITH AN OIL SKIMMER AND A 5-HP MIXER, HEIGHT: 28 FT ; DIAMETER: 26 FT 9 IN WITH A/N: 466936 FLOATING ROOF, WELDED SHELL PRIMARY SEAL, METALLIC SHOE	D114				H23.10

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Process 7: WASTEWATER TREATMENT					
OIL WATER SEPARATOR, FLOATING ROOF, TK-3004, FINAL OIL RECOVERY, WITH AN OIL SKIMMER AND A 5-HP MIXER, HEIGHT: 28 FT ; DIAMETER: 26 FT 9 IN WITH A/N: 466936 FLOATING ROOF, WELDED SHELL PRIMARY SEAL, METALLIC SHOE	D115				H23.10
KNOCK OUT POT, D-3005, HEIGHT: 6 FT 6 IN; DIAMETER: 1 FT 6 IN A/N: 466936	D124				
DRAIN SYSTEM COMPONENT A/N: 466936	D174				H23.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 466936	D161				H23.12
System 2: SLUDGE HANDLING					
STORAGE TANK, BT-1, BAKER TYPE, WASTEWATER, 500 BBL; WIDTH: 8 FT ; HEIGHT: 8 FT ; LENGTH: 36 FT A/N: 388943	D145	C86		VOC: 500 PPMV (8) [40CFR 60 Subpart Kb, 10-15-2003]	C1.4, H23.3
STORAGE TANK, BT-2, BAKER TYPE, WASTEWATER, 500 BBL; WIDTH: 8 FT ; HEIGHT: 8 FT ; LENGTH: 36 FT A/N: 388945	D146	C86		VOC: 500 PPMV (8) [40CFR 60 Subpart Kb, 10-15-2003]	C1.4, H23.3

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Process 7: WASTEWATER TREATMENT					
CARBON ADSORBER, MODEL VSC-200, 55 GALLON CANISTER, COMMON TO TANKS BT-1 AND BT-2 A/N: 388945	C86	D145 D146			D90.1, E128.1, E153.1
Process 8: STORAGE TANKS					P13.1
System 1: FLOATING ROOF TANKS					
STORAGE TANK, INTERNAL FLOATING ROOF, TK-1A, CRUDE OIL, 24375 BBL; DIAMETER: 66 FT ; HEIGHT: 40 FT WITH A/N: 464366 FLOATING ROOF PRIMARY SEAL, WIPER TYPE	D43				C1.10, C6.1, H23.4
STORAGE TANK, INTERNAL FLOATING ROOF, TK-1B, CRUDE OIL, 24375 BBL; DIAMETER: 66 FT ; HEIGHT: 40 FT WITH A/N: 464367 FLOATING ROOF PRIMARY SEAL, WIPER TYPE	D44				C1.10, C6.1, H23.4

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Process 8: STORAGE TANKS					P13.1
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 399-TK-5, NAPHTHA, JET FUEL, DIESEL, GAS OIL, KEROSENE, FUEL OIL, 4285 BBL; DIAMETER: 32 FT ; HEIGHT: 32 FT WITH A/N: 464368 FLOATING ROOF, CONTACT DECK PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE SECONDARY SEAL, SHOE MOUNTED GUIDEPOLE, GASKETED COVER, UNSLOTTED	D45				C1.5, C6.2, H23.4
STORAGE TANK, INTERNAL FLOATING ROOF, TK-12, CRUDE OIL, 30000 BBL; DIAMETER: 64 FT ; HEIGHT: 56 FT WITH A/N: 464370 FLOATING ROOF PRIMARY SEAL, WIPER TYPE	D46				C1.10, C6.2, H23.4

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 (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 VALERO WILMINGTON ASPHALT PLANT

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 8: STORAGE TANKS					P13.1
STORAGE TANK, INTERNAL FLOATING ROOF, TK-13, CRUDE OIL, 30000 BBL; DIAMETER: 64 FT ; HEIGHT: 56 FT WITH A/N: 464371 FLOATING ROOF PRIMARY SEAL, WIPER TYPE	D47				C1.10, C6.2, H23.4
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 399-TK-2, NAPHTHA, JET FUEL, DIESEL, GAS OIL, KEROSENE, FUEL OIL, WITH MIXER, 10833 BBL; DIAMETER: 44 FT ; HEIGHT: 40 FT WITH A/N: 464372 FLOATING ROOF, CONTACT DECK PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE GUIDEPOLE, GASKETED COVER, WITH POLE WIPER, POLE SLEEVE, POLE FLOAT, AND POLE FLOAT WIPER, SLOTTED, 2 TOTAL	D48				C1.6, C6.2, E193.1, H23.15

- * (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 VALERO WILMINGTON ASPHALT PLANT

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 8: STORAGE TANKS					P13.1
STORAGE TANK, WELDED SHELL, INTERNAL FLOATING ROOF, NO. 4, KEROSENE, JET FUEL, DIESEL, GAS OIL, FUEL OIL, 766 BBL; DIAMETER: 18 FT 6 IN; HEIGHT: 16 FT WITH A/N: 449443 FLOATING ROOF, CONTACT DECK PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D51				C1.11, C6.2
STORAGE TANK, WELDED SHELL, INTERNAL FLOATING ROOF, NO. 6, KEROSENE, JET FUEL, DIESEL, GAS OIL, FUEL OIL, 766 BBL; DIAMETER: 18 FT 6 IN; HEIGHT: 16 FT WITH A/N: 449444 FLOATING ROOF, CONTACT DECK PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D52				C1.11, C6.2

* (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

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

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

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 8: STORAGE TANKS					P13.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 464372	D162				H23.12
System 2: FIXED ROOF TANKS					
STORAGE TANK, FIXED ROOF, NO. 3A, ASPHALT, WITH COMBINATION CONSERVATION VENT (PSRV) AND CONNECTED TO A LIQUID SEAL/VENT, 24375 BBL; DIAMETER: 66 FT ; HEIGHT: 40 FT A/N: 464373	D49				C1.7, C6.3, D401.1
STORAGE TANK, FIXED ROOF, NO. 3B, ASPHALT, WITH COMBINATION CONSERVATION VENT (PSRV) AND CONNECTION TO LIQUID SEAL/VENT, 24375 BBL; DIAMETER: 66 FT ; HEIGHT: 40 FT A/N: 464374	D50				C1.7, C6.3, D401.1
STORAGE TANK, FIXED ROOF, NO. 8, ASPHALT, WITH COMBINATION CONSERVATION VENT (PSRV) AND CONNECTION TO A LIQUID SEAL/VENT, 17438 BBL; DIAMETER: 56 FT ; HEIGHT: 40 FT A/N: 464375	D53				C1.7, C6.3, D401.1
STORAGE TANK, FIXED ROOF, NO. 9, KEROSENE, JET FUEL, DIESEL, GAS OIL, FUEL OIL, WITH A MIXER, 2035 BBL; DIAMETER: 22 FT ; HEIGHT: 29 FT 11.75 IN A/N: 469764	D54	C189 C190			B22.1, C1.9, E1.1, H23.4

* (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

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

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

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 8: STORAGE TANKS					P13.1
CARBON ADSORBER, TWO CANISTERS IN SERIES, 425 LBS EACH, 850 LBS TOTAL A/N: 469764	C189	D54			D90.3, E128.1, E153.2, K67.4
CARBON ADSORBER, TWO CANISTERS IN SERIES, 425 LBS EACH, 850 LBS TOTAL A/N: 469764	C190	D54			D90.3, E128.1, E153.2, K67.4
STORAGE TANK, FIXED ROOF, NO. 10, ASPHALT, (PSRV), WITH CONNECTION TO A LIQUID SEAL/VENT, 32000 BBL; DIAMETER: 64 FT ; HEIGHT: 56 FT A/N: 464376	D55				A63.1, C1.8, C6.3, D401.1, H23.11
STORAGE TANK, FIXED ROOF, BULK TANK #1001, 1000 GALS; DIAMETER: 5 FT 4 IN; HEIGHT: 6 FT 1 IN A/N: 464378	D56				K67.3
STORAGE TANK, FIXED ROOF, BULK TANK #1002, 1000 GALS; DIAMETER: 5 FT 4 IN; HEIGHT: 6 FT 1 IN A/N: 464379	D57				K67.3
STORAGE TANK, FIXED ROOF, BULK TANK #1004, 1000 GALS; DIAMETER: 3 FT 9 IN; HEIGHT: 12 FT 4 IN A/N: 464381	D58				K67.3
STORAGE TANK, FIXED ROOF, BULK TANK #1005, 1000 GALS; DIAMETER: 3 FT 9 IN; HEIGHT: 12 FT 4 IN A/N: 464382	D59				K67.3

- | | |
|--|--|
| <ul style="list-style-type: none"> * (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 | <ul style="list-style-type: none"> (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 VALERO WILMINGTON ASPHALT PLANT

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 8: STORAGE TANKS					P13.1
STORAGE TANK, FIXED ROOF, BULK TANK #1003, 1000 GALS; DIAMETER: 5 FT 4 IN; HEIGHT: 6 FT 1 IN A/N: 464383	D61				K67.3
STORAGE TANK, FIXED ROOF, TK-51, INORGANIC, 3802 GALS; DIAMETER: 8 FT ; HEIGHT: 10 FT .5 IN A/N: 464385	D62				
FUGITIVE EMISSIONS, MISCELLANEOUS, NOT SUBJECT TO R463 A/N: 464385	D163				H23.12
Process 9: STEAM GENERATION					P18.1
BOILER, H-2A, NATURAL GAS, PROCESS GAS, REFINERY GAS, CLEAVER-BROOKS, MODEL CR-200-350, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 14.65 MMBTU/HR WITH A/N: 467283 BURNER, NATURAL GAS, REFINERY GAS, ONE BURNER	D63		NOX: LARGE SOURCE**	CO: 400 PPMV (5) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 40 PPMV (3) [RULE 2012, 5-6-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	B61.1, D90.4, D328.1, D328.3, H23.13, H23.16

* (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

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

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

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 9: STEAM GENERATION					P18.1
BOILER, BOILER H-2B, NATURAL GAS, PROCESS GAS, REFINERY GAS, CLEAVER-BROOKS, MODEL CR-200-350, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 14.65 MMBTU/HR WITH A/N: 467284 BURNER, NATURAL GAS, REFINERY GAS, ONE BURNER	D64		NOX: LARGE SOURCE**	CO: 400 PPMV (5) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 40 PPMV (3) [RULE 2012, 5-6-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	B61.1, D90.4, D328.1, D328.3, H23.13, H23.16
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 467284	D206				H23.12
Process 10: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS	E166				H23.5
RULE 219 EXEMPT EQUIPMENT, REFRIGERATION UNITS	E167				H23.5
RULE 219 EXEMPT EQUIPMENT, REFRIGERANT RECOVERY AND/OR RECYCLING UNITS	E169				H23.5

* (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

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

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

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
 VALERO WILMINGTON ASPHALT PLANT
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1	1	1	1
D2	1	1	1
D3	1	1	1
D4	1	1	1
D5	1	1	1
D6	1	1	1
D7	1	1	1
D8	1	1	1
D10	2	1	2
D11	2	1	2
D12	2	1	2
D13	2	1	3
D14	3	2	1
D15	3	2	1
D16	3	2	1
D17	3	2	1
D18	3	2	1
D21	3	2	1
D22	4	3	1
D23	4	3	1
D25	4	3	1
D26	4	3	1
D27	5	4	1
C28	5	4	2
D29	5	4	3
C30	6	4	4
D32	7	5	0
D33	7	5	0
D34	7	6	0
D43	11	8	1
D44	11	8	1
D45	12	8	1
D46	12	8	1
D47	13	8	1
D48	13	8	1

**FACILITY PERMIT TO OPERATE
 VALERO WILMINGTON ASPHALT PLANT
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D49	15	8	2
D50	15	8	2
D51	14	8	1
D52	14	8	1
D53	15	8	2
D54	15	8	2
D55	16	8	2
D56	16	8	2
D57	16	8	2
D58	16	8	2
D59	16	8	2
D61	17	8	2
D62	17	8	2
D63	17	9	0
D64	18	9	0
D77	7	7	1
D78	8	7	1
D79	8	7	1
D81	8	7	1
D83	8	7	1
C86	11	7	2
D99	5	4	3
C109	8	7	1
D110	2	1	2
D111	8	7	1
D112	9	7	1
D113	9	7	1
D114	9	7	1
D115	10	7	1
D124	10	7	1
D142	4	3	1
D143	4	3	1
D144	4	3	2
D145	10	7	2
D146	10	7	2

**FACILITY PERMIT TO OPERATE
 VALERO WILMINGTON ASPHALT PLANT
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D147	4	3	2
D148	2	1	1
D149	2	1	2
D150	3	1	3
D151	3	2	1
D152	4	3	1
D153	4	3	2
D154	5	4	1
D155	5	4	2
D156	5	4	3
D157	6	4	4
D159	7	5	0
D160	7	6	0
D161	10	7	1
D162	15	8	1
D163	17	8	2
E166	18	10	0
E167	18	10	0
E169	18	10	0
D174	10	7	1
D179	6	4	5
C189	16	8	2
C190	16	8	2
D206	18	9	0
D207	6	4	6
D208	7	4	6

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

FACILITY CONDITIONS

F2.1 The operator shall limit emissions from this facility as follows:

CONTAMINANT	EMISSIONS LIMIT
Sulfur compounds	Less than 5 LBS PER DAY

The operator shall measure the emissions of total sulfur compounds, calculated as H₂S, from the burning of gaseous fuels other than natural gas once per calendar month. The total sulfur emissions shall be measured based on fuel analysis, using District Method 307-91, and the maximum daily gaseous fuel consumption. The fuel gas sample shall be collected at the outlet of the fuel gas mix drum.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 431.1, 6-12-1998]

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

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

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

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

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

F14.1 The operator shall not use fuel oil containing sulfur compounds in excess of 0.05 percent by weight.

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

F14.3 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

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

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

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

F25.1 The permit holder of this facility shall not install, alter, or operate a refinery process unit or other non-Rule 219 exempt equipment without a valid RECLAIM/Title V permit issued by the AQMD pursuant to Rule 201 - Permit to Construct, Rule 203 - Permit to Operate, Rule 2004 - Requirements, and Rule 3002 - Requirements, as applicable.

Notwithstanding the above, the provisions of Rules 201, 203, 2004, and 3002 shall not apply to installations or alterations that involve only the equipment listed in Table 1 below, nor shall they apply to the operation of equipment listed in Table 1, when directly associated with permitted process units or other permitted equipment.

Notwithstanding the above, all new equipment listed in Table 1, including associated fugitive components installed with such equipment, shall have Best Available Control Technology installed in conformance with the Best Available Control Technology Guidelines in effect at the time of the installation.

TABLE 1

- (a) Heat Exchanger (including air-cooler, reboiler, cooler, condenser, and shell and tube exchanger)
- (b) In-line Mixer
- (c) Pump
- (d) Knockout Pot - Compressor inlet (immediate inlet) and interstage
- (e) Knockout Pot - Fuel Gas System (downstream of fuel gas mix drums)

This condition applies only to the facility that processes petroleum as defined in the Standard Industrial Classification Manual as Industry No. 2911 - Petroleum Refining, as well as its directly associated sulfur recovery plant which may be located outside of the facility.

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 2004, 5-11-2001; RULE 2004, 4-6-2007]

F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

40CFR61, Subpart FF

The operator shall keep records in accordance with 61.356-Recordkeeping requirements

The operator shall comply with the applicable reporting requirements as specified in 61.357

[40CFR 61 Subpart FF, 12-4-2003]

F60.1 The emission limits identified in Section D and H of the permit shall be defined as emissions discharged to the atmosphere from the originating equipment.

PROCESS CONDITIONS

P1.1 The operator shall limit the loading rate to no more than 293060 barrel(s) in any one month.

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

[Processes subject to this condition : 4]

P13.1 All devices under this process are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

VOC	District Rule	1149
VOC	District Rule	1178

[RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 463, 11-4-2011]

[Processes subject to this condition : 8]

P18.1 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Gas Oil/Naphtha Tank Truck Loading (Process: 5, System: 0)

Crude Distillation Unit (Process: 1, System: 1)

Fuel Gas Treating (Hiperion Unit) (Process: 3, System: 1)

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

[Processes subject to this condition : 9]

SYSTEM CONDITIONS

S13.1 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1123

[RULE 1123, 12-7-1990]

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Systems subject to this condition : Process 1, System 1 , 2; Process 2, System 1]

S15.1 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases shall be directed to the fuel gas treating unit(s) or the iron sponge located in this system.

This process/system shall not be operated unless the fuel gas treating unit or the iron sponge is in full use and has a valid permit to receive vent gases from this system.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Systems subject to this condition : Process 1, System 1 , 2]

S18.1 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Crude Distillation Units 1 & 2 (Process: 1, System: 1 & 2)

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Systems subject to this condition : Process 3, System 1]

S18.2 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Fuel Gas Treating (Process: 3, System: 1)

Gas Oil/Naphtha Tank Truck Loading (Process: 5, System: 0)

Crude Distillation Unit (Process: 1, System: 1)

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Systems subject to this condition : Process 1, System 3]

DEVICE CONDITIONS

A. Emission Limits

A63.1 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
Visible emissions	Less than or equal to 0 Percent opacity

[40CFR 60 Subpart UU, 8-5-1983]

[Devices subject to this condition : D55]

B. Material/Fuel Type Limits

B22.1 The operator shall only use this equipment with materials having a(n) true vapor pressure of 3.76 psia or less under actual operating conditions.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

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]

[Devices subject to this condition : D54]

B61.1 The operator shall not use fuel gas containing the following specified compounds:

Compound	ppm by volume
H2S greater than	160

The H2S concentration limit shall be based on a rolling 3-hour averaging period at the standard conditions of 60 F and 14.7 psia, as defined in Rule 102. This H2S concentration is equivalent to 162 ppm at the standard conditions of 68 F and 29.92" Hg, as defined in 40CFR 60 Subpart A.

[**40CFR 60 Subpart J, 9-12-2012**]

[Devices subject to this condition : D13, D63, D64]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the loading rate to no more than 2088 barrel(s) in any one day.

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

[Devices subject to this condition : D33]

C1.3 The operator shall limit the loading rate to no more than 4851 barrel(s) in any one day.

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

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]

[Devices subject to this condition : D32]

C1.4 The operator shall limit the throughput to no more than 84000 gallon(s) per year.

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

[Devices subject to this condition : D145, D146]

C1.5 The operator shall limit the throughput to no more than 98,368 barrel(s) in any one calendar month.

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

To comply with this condition, the operator shall use the following combination of methods.

(1) For material coming out of the tank into pipeline, the operator shall install and maintain a flow meter to accurately indicate the throughput of the tank.

(2) For material coming out of the tank into tank trucks, the operator shall weigh the truck loaded at the truck scale. The operator shall identify and record the truck loaded, the organic liquid loaded and its density, the weight of the loaded truck and the weight of the empty truck. These data shall be used to calculate the throughput by the following method.

$TW_i = [N_i \times (W_i - W_e)] / D_i$, where TW_i =total calendar monthly throughput of specific organic liquid i , N_i =number of trucks loaded per calendar month with specific liquid i , W_i =weight of the loaded truck with specific organic liquid i in lbs per calendar month, W_e =weight of empty truck in lbs per calendar month, D_i =density of specific organic liquid i in lbs per gallon.

To determine the total organic liquid throughput for this tank, the operator shall add the total calendar monthly throughput measured by method no. 1 and no.2.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

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

[Devices subject to this condition : D45]

C1.6 The operator shall limit the throughput to no more than 98,368 barrel(s) in any one calendar month.

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

To comply with this condition, the operator shall use the following combination of methods.

(1) For material coming out of the tank into pipeline, the operator shall install and maintain a flow meter to accurately indicate the throughput of the tank.

(2) For material coming out of the tank into tank trucks, the operator shall weigh the truck loaded at the truck scale. The operator shall identify and record the truck loaded, the organic liquid loaded and its density, the weight of the loaded truck and the weight of the empty truck. These data shall be used to calculate the throughput by the following method.

$TW_i = [N_i \times (W_i - W_e)] / D_i$, where TW_i =total calendar monthly throughput of specific organic liquid i , N_i =number of trucks loaded per calendar month with specific liquid i , W_i =weight of the loaded truck with specific organic liquid i in lbs per calendar month, W_e =weight of empty truck in lbs per calendar month, D_i =density of specific organic liquid i in lbs per gallon.

To determine the total organic liquid throughput for this tank, the operator shall add the total calendar monthly throughput measured by method no. 1 and no.2.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

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

[Devices subject to this condition : D48]

C1.7 The operator shall limit the throughput to no more than 152083 barrel(s) in any one calendar month.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

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]**]

[Devices subject to this condition : D49, D50, D53]

C1.8 The operator shall limit the throughput to no more than 82125 barrel(s) in any one calendar month.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

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

[Devices subject to this condition : D55]

C1.9 The operator shall limit the throughput to no more than 45,625 barrel(s) in any one calendar month.

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

To comply with this condition, the operator shall use the following combination of methods.

(1) For material coming out of the tank into pipeline, the operator shall install and maintain a flow meter to accurately indicate the throughput of the tank.

(2) For material coming out of the tank into tank trucks, the operator shall weigh the truck loaded at the truck scale. The operator shall identify and record the truck loaded, the organic liquid loaded and its density, the weight of the loaded truck and the weight of the empty truck. These data shall be used to calculate the throughput by the following method.

$TW_i = [N_i \times (W_i - W_e)] / D_i$, where TW_i =total calendar monthly throughput of specific organic liquid i , N_i =number of trucks loaded per calendar month with specific liquid i , W_i =weight of the loaded truck with specific organic liquid i in lbs per calendar month, W_e =weight of empty truck in lbs per calendar month, D_i = density of specific organic liquid i in lbs per gallon.

(3) For material coming out of the tank into another tank at this facility, the operator shall measure and record the total vertical downward change in liquid level during each intertank transfer event. The operator shall take a manual level gauge reading at the beginning of each intertank transfer event, at every subsequent hour during the intertank transfer event, and at the end of each intertank transfer event. These data shall be used to calculate the throughput by the following method.

Throughput, in barrels = $0.14 \times D \times D \times L$, where D is the diameter of the tank, in feet, based on the tank strapping chart, and L is the total vertical downward change in liquid level, in feet, during intertank transfers during a calendar month.

To determine the total organic liquid throughput for this tank, the operator shall add the total calendar monthly throughput measured by method numbers 1, 2 and 3.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

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]**

[Devices subject to this condition : D54]

C1.10 The operator shall limit the throughput to no more than 98850 barrel(s) in any one calendar month.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

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

[Devices subject to this condition : D43, D44, D46, D47]

C1.11 The operator shall limit the throughput to no more than 15208 barrel(s) in any one calendar month.

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

To comply with this condition, the operator shall use the following combination of methods.

(1) For material coming out of the tank into pipeline, the operator shall install and maintain a flow meter to accurately indicate the throughput of the tank.

(2) For material coming out of the tank into tank trucks, the operator shall weigh the truck loaded at the truck scale. The operator shall identify and record the truck loaded, the organic liquid loaded and its density, the weight of the loaded truck and the weight of the empty truck. These data shall be used to calculate the throughput by the following method.

$TW_i = [N_i \times (W_i - W_e)] / D_i$, where TW_i =total calendar monthly throughput of specific organic liquid i , N_i =number of trucks loaded per calendar month with specific liquid i , W_i =weight of the loaded truck with specific organic liquid i in lbs per calendar month, W_e =weight of empty truck in lbs per calendar month, D_i =density of specific organic liquid i in lbs per gallon.

(3) For material coming out of the tank into another tank at this facility, the operator shall measure and record the total vertical downward roof travel during each intertank transfer event. The operator shall take a manual level gauge reading at the beginning of each intertank transfer event, at every subsequent hour during the intertank transfer event, and at the end of each intertank transfer event. These data shall be used to calculate the throughput by the following method.

Throughput, in barrels = $0.14 \times D \times D \times L$, where D is the diameter of the tank, in feet, based on the tank strapping chart, and L is the total vertical downward roof travel, in feet, during intertank transfers during a calendar month.

To determine the total organic liquid throughput for this tank, the operator shall add the total calendar monthly throughput measured by method numbers 1, 2 and 3.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

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]

[Devices subject to this condition : D51, D52]

- C6.1 The operator shall use this equipment in such a manner that the hydrocarbon concentration being monitored, as indicated below, does not exceed 50 percent of the Lower Explosive Limit.

The operator shall use a lower explosive meter to monitor the hydrocarbon concentration.

[RULE 463, 5-6-2005; RULE 463, 11-4-2011]

[Devices subject to this condition : D43, D44]

- C6.2 The operator shall use this equipment in such a manner that the hydrocarbon concentration being monitored, as indicated below, does not exceed 30 percent of the Lower Explosive Limit.

The operator shall use a lower explosive meter to monitor the hydrocarbon concentration.

[RULE 1178, 4-7-2006; RULE 463, 5-6-2005; RULE 463, 11-4-2011]

[Devices subject to this condition : D45, D46, D47, D48, D51, D52]

- C6.3 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 390 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature in the asphalt tank.

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

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

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 : D49, D50, D53, D55]

D. Monitoring/Testing Requirements

- D12.1 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the mist eliminator. The operator shall determine and record the parameter being monitored once per week.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984]

[Devices subject to this condition : C28, C30]

- D90.1 The operator shall periodically monitor the VOC concentration at the outlet of the carbon canister according to the following specifications:

The operator shall monitor once every day.

The operator shall use a District approved Organic Vapor Analyzer (OVA) to monitor the parameter.

The operator shall calibrate the instrument used to monitor the parameter in ppmv methane.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 463, 5-6-2005; RULE 463, 11-4-2011]

[Devices subject to this condition : C86]

- D90.2 The operator shall periodically monitor the H₂S concentration of the vent gas according to the following specifications:

The operator shall monitor once every day.

The operator shall use a Drager tube to monitor the parameter.

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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 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 468, 10-8-1976]

[Devices subject to this condition : D22, D23]

D90.3 The operator shall periodically monitor the VOC concentration at the outlet of the first carbon adsorber according to the following specifications:

The operator shall monitor the VOC concentration at the outlet of the first carbon adsorber twice a day when the tank is being filled, and no less than once per week when the tank is not being filled, unless no materials have been stored in the tank for the entire week.

The operator shall use an appropriate analyzer in accordance with EPA test method 21 to monitor the parameter.

The operator shall calibrate the instrument used to monitor the parameter in ppmv methane.

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

[Devices subject to this condition : C189, C190]

D90.4 The operator shall continuously monitor the H₂S concentration in the fuel gas before being burned in this device according to the following specifications:

The operator shall use an NSPS Subpart J approved instrument meeting the requirements of 40CFR60 Subpart J to monitor the parameter.

The operator shall also install and maintain a device to continuously record the parameter being monitored.

The operator may monitor the H₂S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H₂S in the fuel gas being burned in this device

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[40CFR 60 Subpart J, 9-12-2012]

[Devices subject to this condition : D13, D63, D64]

D90.5 The operator shall periodically monitor the VOC concentration at the outlet of the carbon canister according to the following specifications:

The operator shall monitor once every day.

The operator shall use a District approved Organic Vapor Analyzer (OVA) to monitor the parameter.

The operator shall calibrate the instrument used to monitor the parameter in ppmv methane.

[RULE 1176, 9-13-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C109]

D328.1 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with the CO emission limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]

[Devices subject to this condition : D13, D63, D64]

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D328.2 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with BACT concentration limit. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]

[Devices subject to this condition : D179]

D328.3 The operator shall determine compliance with the total sulfur compound (as SO₂) emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 7.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with the SO_x emission limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]

[Devices subject to this condition : D13, D63, D64]

D401.1 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 either:

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 1). 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;
- 2). 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
- 3). 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 the visible emissions as a potential deviation to AQMD in accordance with the reporting requirements in Section K of this permit.

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). Visible emission observation record by a certified smoke reader.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984]

[Devices subject to this condition : D27, D29, D49, D50, D53, D55, D99]

E. Equipment Operation/Construction Requirements

- E1.1 The operator shall vent the emissions from this equipment to only one of the devices identified in the "connected to" column of this facility permit at any given time.

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

[Devices subject to this condition : D54]

E128.1 The operator shall keep all spent carbon in a tightly covered container which shall remain closed except when it is being transferred into or out of the container.

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

[Devices subject to this condition : C86, C109, C189, C190]

E148.1 The operator shall not shut down the pump and disconnect the transfer hose from the pump until all liquid has been pumped into the receiving tank.

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

[Devices subject to this condition : D34]

E153.1 The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough occurs when the VOC monitor reading indicates a concentration of 500 ppmv at the outlet of each carbon adsorber.

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

[Devices subject to this condition : C86, C109]

E153.2 The operator shall divert the flow to an alternate carbon adsorber and change over the carbon in the adsorber whenever breakthrough occurs.

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, breakthrough occurs when the VOC monitor reading indicates a concentration of 500 ppmv at the outlet of the first carbon adsorber.

To change over the carbon, the operator shall replace the first carbon canister with a fresh carbon canister. After the new carbon canister is installed, it shall become the last carbon canister in series.

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

[Devices subject to this condition : C189, C190]

E193.1 The operator shall operate and maintain this equipment as follows:

The mixer is subject to District Rule 1173.

The mixer shall be inspected quarterly using EPA reference Method 21.

Any leak greater than 500 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 7 days of detection.

The operator shall keep records of the quarterly inspection, subsequent repair, and reinspection, in a manner approved by the District.

[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009]

[Devices subject to this condition : D48]

E336.1 The operator shall vent the vent gases from this equipment as follows:

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

All vent gases under normal operating conditions shall be directed to the heater (Device D13) or to the fuel gas mixing system.

This equipment shall not be operated unless the heater or the fuel gas mixing system is in full use and has a valid permit to receive vent gases from this equipment.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D33]

E336.2 The operator shall vent the vent gases from this equipment as follows:

All vent gases shall be directed to the heater (Device D13) or to the fuel gas mixing system.

This equipment shall not be operated unless the heater or the fuel gas mixing system is in full use and has a valid permit to receive vent gases from this equipment.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D7, D22]

H. Applicable Rules

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176

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

[RULE 1176, 9-13-1996]

[Devices subject to this condition : D79, D81, D83, D174]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173
VOC	40CFR60, SUBPART	GGG

[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; 40CFR 60 Subpart GGG, 6-7-1985]

[Devices subject to this condition : D144, D152]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463
VOC	District Rule	1149
VOC	40CFR60, SUBPART	Kb

[RULE 1149, 7-14-1995; RULE 1149, 5-2-2008; RULE 463, 5-6-2005; RULE 463, 11-4-2011; 40CFR 60 Subpart Kb, 10-15-2003]

[Devices subject to this condition : D145, D146]

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	40CFR60, SUBPART	Ka

[40CFR 60 Subpart Ka, 12-14-2000]

[Devices subject to this condition : D43, D44, D45, D46, D47, D54]

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

Contaminant	Rule	Rule/Subpart
Refrigerants	District Rule	1415

[RULE 1415, 12-3-2010]

[Devices subject to this condition : E166, E167, E169]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	465
Sulfur compounds	District Rule	465

[RULE 465, 8-13-1999]

[Devices subject to this condition : D12, D110]

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

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

H23.9 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	462

[RULE 462, 5-14-1999]

[Devices subject to this condition : D33]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176
VOC	40CFR60, SUBPART	QQQ

[RULE 1176, 9-13-1996; 40CFR 63 Subpart QQQ, 4-20-2006]

[Devices subject to this condition : D111, D112, D113, D114, D115]

H23.11 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM	40CFR60, SUBPART	UU

[40CFR 60 Subpart UU, 8-5-1983]

[Devices subject to this condition : D55]

FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173

[RULE 1173, 2-6-2009]

[Devices subject to this condition : D148, D149, D150, D151, D153, D154, D155, D156, D157, D159, D160, D161, D162, D163, D206, D208]

H23.13 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, SUBPART	J

[40CFR 60 Subpart J, 10-4-1991]

[Devices subject to this condition : D13, D63, D64]

H23.15 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	Kb

[40CFR 60 Subpart Kb, 10-15-2003]

[Devices subject to this condition : D48]

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

H23.16 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
CO	District Rule	1146

[RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]

[Devices subject to this condition : D13, D63, D64, D179]

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):

Throughput and vapor pressure of stored liquid

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 463, 5-6-2005; RULE 463, 11-4-2011]

[Devices subject to this condition : D56, D57, D58, D59, D61]

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

Monitoring data for VOC including measurement method used and date of analysis.

Date of replacement of carbon canister.

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

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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 : C189, C190]