# 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 A: FACILITY INFORMATION

| | |
|---|---|
| **LEGAL OWNER &/OR OPERATOR:** | VALERO WILMINGTON ASPHALT PLANT |
| **LEGAL OPERATOR (if different than owner):** | |
| **EQUIPMENT LOCATION:** | 1651 ALAMEDA ST<br>WILMINGTON, CA 90744 |
| **MAILING ADDRESS:** | 2402 E ANAHEIM ST<br>WILMINGTON, CA 90744 |
| **RESPONSIBLE OFFICIAL:** | MARK PHAIR |
| **TITLE:** | VICE PRESIDENT AND GENERAL MANAGER |
| **TELEPHONE NUMBER:** | (562) 491-6677 |
| **CONTACT PERSON:** | SHARON STEWART |
| **TITLE:** | ENVIRONMENTAL MANAGER |
| **TELEPHONE NUMBER:** | (562) 491-6631 |
| **TITLE V PERMIT ISSUED:** | August 07, 2012 |
| **TITLE V PERMIT EXPIRATION DATE:** | August 06, 2017 |

| TITLE V | RECLAIM | |
|---|---|---|
| YES | NOx: | YES |
| | SOx: | NO |
| | CYCLE: | 1 |
| | ZONE: | COASTAL |

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NOx RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NOx emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - Trading Zone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

### RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

| Year Begin (month/year) | End | Zone | NOx RTC Initially Allocated | NOx RTC [1] Holding as of 08/07/2012 (pounds) | Non-Tradable [2] Non-Usable RTCs (pounds) |
|---|---|---|---|---|---|
| 1/2010 | 12/2010 | Coastal | 10646 | 3313 | 1337 |
| 1/2011 | 12/2011 | Coastal | 10646 | 706 | 1474 |
| 1/2012 | 12/2012 | Coastal | 10646 | 10576 | 1474 |
| 1/2013 | 12/2013 | Coastal | 10646 | 10576 | 1474 |
| 1/2014 | 12/2014 | Coastal | 10646 | 10576 | 1474 |
| 1/2015 | 12/2015 | Coastal | 10646 | 10576 | 1474 |
| 1/2016 | 12/2016 | Coastal | 10646 | 10576 | 1474 |
| 1/2017 | 12/2017 | Coastal | 10646 | 10576 | 1474 |
| 1/2018 | 12/2018 | Coastal | 10646 | 10576 | 1474 |
| 1/2019 | 12/2019 | Coastal | 10646 | 10576 | 1474 |
| 1/2020 | 12/2020 | Coastal | 10646 | 10576 | 1474 |
| 1/2021 | 12/2021 | Coastal | 10646 | 10576 | 1474 |
| 1/2022 | 12/2022 | Coastal | 10646 | 10576 | 1474 |
| 1/2023 | 12/2023 | Coastal | 10646 | 10576 | 1474 |
| 1/2024 | 12/2024 | Coastal | 10646 | 10576 | 1474 |
| 1/2025 | 12/2025 | Coastal | 10646 | 10576 | 1474 |
| 1/2026 | 12/2026 | Coastal | 10646 | 10576 | 1474 |

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC information can be obtained from the District's RTC Listing.

2. The use of such credits is subject to restrictions set forth in paragraph (f)(1) of Rule 2002.

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NOx RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NOx emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - Trading Zone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

### RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

| Year Begin (month/year) | End | Zone | NOx RTC Initially Allocated | NOx RTC [1] Holding as of 08/07/2012 (pounds) | Non-Tradable [2] Non-Usable RTCs (pounds) |
|---|---|---|---|---|---|
| 1/2027 | 12/2027 | Coastal | 10646 | 10576 | 1474 |

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC information can be obtained from the District's RTC Listing.

2. The use of such credits is subject to restrictions set forth in paragraph (f)(1) of Rule 2002.

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. If the facility submits a permit application to increase in an annual allocation to a level greater than the facility's starting Allocation plus Non-Tradable credits as listed below, the application will be evaluated for compliance with Rule 2005 (c)(4). Rule 2005 (e) - Trading Zone Restrictions applies if an annual allocation is increased to a level greater than the facility's Starting Allocation plus Non-Tradable Credits:

| Year Begin (month/year) | Year End (month/year) | Zone | NOx RTC Starting Allocation (pounds) | Non-Tradable Credits(NTC) (pounds) |
|---|---|---|---|---|
| 1/1994 | 12/1994 | Coastal | 15238 | 0 |

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)

# FACILITY PERMIT TO OPERATE
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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 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 | | | | |

* (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 1: CRUDE DISTILLATION** | | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 390224 | D148 | | | | H23.12 |
| **System 2: VACUUM DISTILLATION** | | | | | S13.1, S15.1 |
| TOWER, VACUUM, T-2, HEIGHT: 47 FT ; DIAMETER: 5 FT<br>A/N: 389633 | D10 | | | | |
| ACCUMULATOR, VACUUM TOWER OVERHEAD, D-2, LENGTH: 8 FT ; DIAMETER: 3 FT<br>A/N: 389633 | D11 | | | | |
| EJECTOR, VACUUM JET, J-1A<br>A/N: 389633 | D12 | | | | H23.8 |
| EJECTOR, VACUUM JET, J-1B<br>A/N: 389633 | D110 | | | | H23.8 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>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<br>A/N: 388925<br><br>BURNER, NATURAL GAS, REFINERY GAS, JOHN ZINK, 5 BURNERS | D13 | D23 D124 | 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 |

* (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.

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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 1: CRUDE DISTILLATION** | | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 388925 | 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 |

* (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
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| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **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 |

* (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 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** | | | | | |

* (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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# FACILITY PERMIT TO OPERATE
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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 4: ASPHALT LOADING/UNLOADING** | | | | | P1.1 |
| MIST ELIMINATOR, ASPHALT RAIL CAR LOADING RACK, WITH A BLOWER (K3), LENGTH: 5 FT ; DIAMETER: 3 FT<br>A/N: 388933 | C30 | D29 | | | D12.1 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 388933 | D157 | | | | H23.12 |
| **System 6: ASPHALT TANK TRUCK UNLOADING** | | | | | |
| UNLOADING ARM, TANK TRUCK, ASPHALT, 4 TOTAL; DIAMETER: 4 IN<br>A/N: 464521 | D207 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>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<br>A/N: 388939 | D32 | | | | C1.3 |
| LOADING ARM, BOTTOM, TANK TRUCK, NAPHTHA, 2 TOTAL; DIAMETER: 4 IN<br>A/N: 388939 | D33 | | | **VOC**: 0.08 LBS/1000 GAL (5)<br>[**RULE 462, 5-14-1999**] | C1.1, E336.1, H23.9 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 388939 | D159 | | | | H23.12 |
| **Process 6: CRUDE OIL TANK TRUCK UNLOADING** | | | | | |

* (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
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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 6: CRUDE OIL TANK TRUCK UNLOADING** | | | | | |
| UNLOADING ARM, TANK TRUCK, CRUDE OIL, 4 TOTAL; DIAMETER: 4 IN<br>A/N: INACTIVE | D34 | | | | C1.2, E148.1 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: INACTIVE | 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<br>A/N: 464365 | D77 | | | | |
| MIXER, OILY WATER, D-11, WASTE WATER, HEIGHT: 5 FT ; DIAMETER: 1 FT<br>A/N: 464365 | D78 | | | | |
| SUMP, WITH SKIMMER, DEPTH: 11 FT ; DIAMETER: 7 FT<br>A/N: 464365 | 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<br>A/N: 464365 | 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<br>A/N: 464365 | D83 | C109 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | H23.1 |
| CARBON ADSORBER, MODEL VSC-200, 55 GALLON CAPACITY<br>A/N: 464365 | C109 | D79 D81 D83 | | | D90.5, E128.1, E153.1 |

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(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 7: WASTEWATER TREATMENT** | | | | | |
| 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<br>A/N: 464365<br><br>FLOATING ROOF, WELDED SHELL<br><br>PRIMARY SEAL, METALLIC SHOE | D111 | | | | H23.10 |
| 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<br>A/N: 464365<br><br>FLOATING ROOF, WELDED SHELL<br><br>PRIMARY SEAL, METALLIC SHOE | D112 | | | | H23.10 |
| TANK, HORIZONTAL, V-3000 UNICEL, INDUCED GAS COALESCER AND FLOTATION SEPARATOR, LENGTH: 6 FT ; DIAMETER: 4 FT<br>A/N: 464365 | D113 | D124 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | H23.10 |

* (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 7: WASTEWATER TREATMENT** | | | | | |
| 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<br>A/N: 464365<br><br>FLOATING ROOF, WELDED SHELL<br><br>PRIMARY SEAL, METALLIC SHOE | D114 | | | | H23.10 |
| 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<br>A/N: 464365<br><br>FLOATING ROOF, WELDED SHELL<br><br>PRIMARY SEAL, METALLIC SHOE | D115 | | | | H23.10 |
| KNOCK OUT POT, D-3005, HEIGHT: 6 FT 6 IN; DIAMETER: 1 FT 6 IN<br>A/N: 464365 | D124 | D13 D63 D64 D113 | | | |
| DRAIN SYSTEM COMPONENT<br>A/N: 464365 | D174 | | | | H23.1 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 464365 | D161 | | | | H23.12 |

* (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 7: WASTEWATER TREATMENT** | | | | | |
| **System 2: SLUDGE HANDLING** | | | | | |
| STORAGE TANK, BT-1, BAKER TYPE, WASTEWATER, 500 BBL; WIDTH: 8 FT ; HEIGHT: 8 FT ; LENGTH: 36 FT<br>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<br>A/N: 388945 | D146 | C86 | | **VOC**: 500 PPMV (8) [**40CFR 60 Subpart Kb, 10-15-2003**] | C1.4, H23.3 |
| CARBON ADSORBER, MODEL VSC-200, 55 GALLON CANISTER, COMMON TO TANKS BT-1 AND BT-2<br>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<br>A/N: 464366<br><br>FLOATING ROOF<br><br>PRIMARY SEAL, WIPER TYPE | D43 | | | | C1.10, C6.1, 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 |
| STORAGE TANK, INTERNAL FLOATING ROOF, TK-1B, CRUDE OIL, 24375 BBL; DIAMETER: 66 FT ; HEIGHT: 40 FT WITH<br>A/N: 464367<br><br>FLOATING ROOF<br><br>PRIMARY SEAL, WIPER TYPE | D44 | | | | C1.10, C6.1, H23.4 |
| 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<br>A/N: 464368<br><br>FLOATING ROOF, CONTACT DECK<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, SHOE MOUNTED<br><br>GUIDEPOLE, GASKETED COVER, UNSLOTTED | D45 | | | | C1.5, C6.2, 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 |
| STORAGE TANK, INTERNAL FLOATING ROOF, TK-12, CRUDE OIL, 30000 BBL; DIAMETER: 64 FT ; HEIGHT: 56 FT WITH<br>A/N: 464370<br><br>FLOATING ROOF<br><br>PRIMARY SEAL, WIPER TYPE | D46 | | | | C1.10, C6.2, H23.4 |
| STORAGE TANK, INTERNAL FLOATING ROOF, TK-13, CRUDE OIL, 30000 BBL; DIAMETER: 64 FT ; HEIGHT: 56 FT WITH<br>A/N: 464371<br><br>FLOATING ROOF<br><br>PRIMARY SEAL, WIPER TYPE | D47 | | | | C1.10, C6.2, 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 |
| 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<br><br>FLOATING ROOF, CONTACT DECK<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>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
(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 |
| 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<br><br>FLOATING ROOF, CONTACT DECK<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>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<br><br>FLOATING ROOF, CONTACT DECK<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>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
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** 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, 2035 BBL; DIAMETER: 22 FT ; HEIGHT: 29 FT 11.75 IN A/N: 464388 | 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.)
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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 8: STORAGE TANKS** | | | | | P13.1 |
| CARBON ADSORBER, TWO CANISTERS IN SERIES, 425 LBS EACH, 850 LBS TOTAL<br>A/N: 464388 | C189 | D54 | | | D90.3, E128.1, E153.2, K67.4 |
| CARBON ADSORBER, TWO CANISTERS IN SERIES, 425 LBS EACH, 850 LBS TOTAL<br>A/N: 464388 | 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<br>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<br>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<br>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<br>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<br>A/N: 464382 | D59 | | | | K67.3 |

* (1) (1A) (1B) Denotes RECLAIM emission factor
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(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
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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 8: STORAGE TANKS** | | | | | P13.1 |
| STORAGE TANK, FIXED ROOF, BULK TANK #1003, 1000 GALS; DIAMETER: 5 FT 4 IN; HEIGHT: 6 FT 1 IN<br>A/N: 464383 | D61 | | | | K67.3 |
| STORAGE TANK, FIXED ROOF, TK-51, INORGANIC, 3802 GALS; DIAMETER: 8 FT ; HEIGHT: 10 FT .5 IN<br>A/N: 464385 | D62 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS, NOT SUBJECT TO R463<br>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<br>A/N: 388922<br><br>BURNER, NATURAL GAS, REFINERY GAS, ONE BURNER | D63 | D124 | 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 |

* (1) (1A) (1B) Denotes RECLAIM emission factor
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(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
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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 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: 388923<br><br>BURNER, NATURAL GAS, REFINERY GAS, ONE BURNER | D64 | D124 | 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 |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 388923 | 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
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(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
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** 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 | 6 | 5 | 0 |
| D33 | 6 | 5 | 0 |
| D34 | 7 | 6 | 0 |
| D43 | 10 | 8 | 1 |
| D44 | 11 | 8 | 1 |
| D45 | 11 | 8 | 1 |
| D46 | 12 | 8 | 1 |
| D47 | 12 | 8 | 1 |
| D48 | 13 | 8 | 1 |

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## SECTION D: DEVICE ID INDEX

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# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## SECTION D: DEVICE ID INDEX

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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:**

### 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
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## 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
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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 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
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## 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, 7-14-1995;** RULE 1149, 5-2-2008; **RULE 1178, 4-7-2006; RULE 463, 5-6-2005;** 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
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## 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
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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]

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

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

[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]

C1.2 The operator shall limit the unloading rate to no more than 12000 barrel(s) in any one day.

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

# FACILITY PERMIT TO OPERATE
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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 : D34]

C1.3 The operator shall limit the loading rate to no more than 4851 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 : 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
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## 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.

TWi = [Ni x (Wi-We)]/Di, where TWi=total calendar monthly throughput of specific organic liquid i, Ni=number of trucks loaded per calendar month with specific liquid i, Wi=weight of the loaded truck with specific organic liquid i in lbs per calendar month, We=weight of empty truck in lbs per calendar month, Di=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
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## 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.

TWi = [Ni x (Wi-We)]/Di, where TWi=total calendar monthly throughput of specific organic liquid i, Ni=number of trucks loaded per calendar month with specific liquid i, Wi=weight of the loaded truck with specific organic liquid i in lbs per calendar month, We=weight of empty truck in lbs per calendar month, Di=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.

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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 : 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.

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## 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.

TWi = [Ni x (Wi-We)]/Di, where TWi=total calendar monthly throughput of specific organic liquid i, Ni=number of trucks loaded per calendar month with specific liquid i, Wi=weight of the loaded truck with specific organic liquid i in lbs per calendar month, We=weight of empty truck in lbs per calendar month, Di= 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 x D x D x 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
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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]

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
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## 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.

TWi = [Ni x (Wi-We)]/Di, where TWi=total calendar monthly throughput of specific organic liquid i, Ni=number of trucks loaded per calendar month with specific liquid i, Wi=weight of the loaded truck with specific organic liquid i in lbs per calendar month, We=weight of empty truck in lbs per calendar month, Di=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 x D x D x 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.

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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 : 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]

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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 : 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 but not emptied.

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

# FACILITY PERMIT TO OPERATE
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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, 10-4-1991**]

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

D328.3 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 SOx 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.

# 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]

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.

# 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:**

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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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**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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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| VOC | 40CFR60, SUBPART | Ka |

[**40CFR 60 Subpart Ka, 5-5-1989**]

[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]

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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**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 60 Subpart QQQ, 5-5-1989**]

[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, 5-13-1994;** 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]

# 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:**

### 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]

[Devices subject to this condition : C189, C190]

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]

   a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]

   b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]

   c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]

2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]

3. This permit does not authorize the emissions 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 and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statutes of other governmental agencies. [204]

4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## SECTION E: ADMINISTRATIVE CONDITIONS

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]

6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least: [204]

   a. Three years for a facility not subject to Title V; or

   b. Five years for a facility subject to Title V.

7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]

   a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134, 204]

   b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]

   c. For a large NOx source, compliance with a RECLAIM concentration limit shall be measured over a continuous 60 minutes for that source; [2012]

   d. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## SECTION E: ADMINISTRATIVE CONDITIONS

e. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO2) and be averaged over 15 consecutive minutes; [407]

f. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO2) at standard conditions and averaged over 15 consecutive minutes. [409]

g. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O2) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]

8. All equipment operating under the RECLAIM program shall comply concurrently with all provisions of AQMD Rules and Regulations, except those listed in Table 1 of Rule 2001 for NOx RECLAIM sources and Table 2 of Rule 2001 for SOx RECLAIM sources. Those provisions listed in Tables 1 or 2 shall not apply to NOx or SOx emissions after the date the facility has demonstrated compliance with all monitoring and reporting requirements of Rules 2011 or 2012, as applicable. Provisions of the listed AQMD rules in Tables 1 or 2 which have initial implementation dates in 1994 shall not apply to a RECLAIM NOx or SOx source, respectively. [2001]

9. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]

a. Brief description of the equipment tested.

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## SECTION E: ADMINISTRATIVE CONDITIONS

b. Brief process description, including maximum and normal operating temperatures, pressures, through-put, etc.

c. Operating conditions under which the test will be performed.

d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e,g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).

e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.

f. Description of calibration and quality assurance procedures.

g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (no conflict of interest).

10. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD Rules or equipment-specific conditions. The report shall contain the following information: [204]

a. The results of the source test.

b. Brief description of the equipment tested.

c. Operating conditions under which test will be performed.

d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).

e. Field and laboratory data forms, strip charts and analyses.

# FACILITY PERMIT TO OPERATE
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## SECTION E: ADMINISTRATIVE CONDITIONS

f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.

11. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]

12. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

The Facility shall comply with all applicable monitoring and source testing requirements in Regulation XX. These requirements may include but are not limited to the following:

I. NOx Monitoring Conditions

A. The Operator of a NOx Major Source, as defined in Rule 2012, shall, as applicable:

Not Applicable

B. The Operator of a NOx large Source, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate a totalizing fuel meter and any device specified by the Executive Officer as necessary to determine monthly fuel usage or other applicable variables specified in Rule 2012, Appendix A, Table 3-A. The sharing of totalizing fuel meter may be allowed by the Executive Officer if the fuel meter serves large sources which have the same emission factor, concentration limit, or emission rate. The sharing of totalizing fuel meters shall not be allowed for large sources which are required to comply with an annual heat input limit. [2012]

2. Comply at all times with the specified NOx concentration limit in PPM measured over any continuous 60 minutes for that source or establish an equipment-specific emission rate that is reliable, accurate, representative of that sources emissions, and in accordance with the requirements specified in Rule 2012, Appendix A, Chapter 5. [2012]

C. The Operator of a NOx Process Unit, as defined in Rule 2012, shall, as applicable:

Not Applicable

II. NOx Source Testing and Tune-up conditions

1. The operator shall conduct all required NOx source testing in compliance with an AQMD-approved source test protocol. [2012]

# FACILITY PERMIT TO OPERATE
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## SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

2. The operator shall, as applicable, conduct source tests for every large NOx source no later than December 31, 1996 and every 3 years thereafter. The source test shall include the determination of NOx concentration and a relative accuracy audit of the exhaust stack flow determination (e.g. in-stack flow monitor or fuel flow monitor based F-factor calculation). Such source test results shall be submitted per the schedule described by APEP. In lieu of submitting the first source test report, the facility permit holder may submit the results of a source test not more than 3 years old which meets the requirements when conducted. [2012]

3. All NOx large sources and NOx process units shall be tuned-up in accordance with the schedule specified in Rule 2012, Appendix A, Chapter 5, Table 5-B. [2012]

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

The Facility shall comply with all applicable reporting and recordkeeping requirements in Regulation XX. These requirements may include but are not limited to the following:

I. Recordkeeping Requirements for all RECLAIM Sources

1. The operator shall maintain all monitoring data required to be measured or reported pursuant to Rule 2011 and Rule 2012, whichever is applicable. All records shall be made available to AQMD staff upon request and be maintained for at least:
    a. Three years after each APEP report is submitted to AQMD for a facility not subject to Title V, unless a different time period is required in Rule 2011 or Rule 2012 [2011 & 2012]; or
    b. Five years after each APEP report is submitted to AQMD for a facility subject to Title V. [3004(a)(4)(E)]
    c. Notwithstanding the above, all data gathered or computed for intervals of less than 15 minutes shall only be maintained a minimum of 48 hours. [2011 & 2012]
2. The operator shall store on site and make available to the Executive Officer upon request: records used to determine emissions, maintenance records, sources test reports, relative accuracy test audit reports, relative accuracy audit reports and fuel meter calibration records. [2011 & 2012]

II. Reporting Requirements for all RECLAIM Sources

1. The opearator shall submit a quarterly certification of emissions including the total facility NOx or SOx emissions, whichever is applicable, for the quarter within 30 days after the end of the first three quarters and 60 days after the end of the fourth quarter of a compliance year. [2004]

NOx Reporting Requirements

A. The Operator of a NOx Major Source, as defined in Rule 2012, shall, as applicable:

Not Applicable

# FACILITY PERMIT TO OPERATE
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## SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

B. The Operator of a NOx Large Source, as defined in Rule 2012, shall:

1. Install, maintain and operate a modem or any reporting device approved by the Executive Officer to report, to the AQMD, the total monthly NOx mass emissions from each large NOx source. The Operator shall comply with this requirement within 12 months of the date of entry to the RECLAIM Program. Such data shall be reported within 15 days after the end of each calendar month. [2012]

C. The Operator of a NOx Process Unit, as defined in Rule 2012, shall:

Not Applicable

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

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions* And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 4: ASPHALT LOADING/UNLOADING** | | | | | P1.1 |
| **System 5: ASPHALT HEATERS** | | | | | |
| HEATER, H-4, NATURAL GAS, ASPHALT, WITH LOW NOX BURNER, 15.4 MMBTU/HR WITH A/N: 388921<br>† Permit to Construct Issued: 08/08/01<br><br>BURNER, NATURAL GAS, CALLIDUS TECHNOLOGIES, MODEL CUB-8W, 15.4 MMBTU/HR | D179 | | NOX: LARGE SOURCE** | **CO**: 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*]; **CO**: 400 PPMV (5) [**RULE 1146, 11-17-2000;** *RULE 1146, 9-5-2008*]; **CO**: 2000 PPMV (5A) [**RULE 407, 4-2-1982**]; **NOX**: 15 PPMV (4) [**RULE 2005, 5-6-2005**]; **NOX**: 15 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**] | D28.2, D328.2 |

* (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.

† This permit to construct was issued to the previous operator at a prior date. The equipment was constructed and the permit was subsequently transferred to this operator.

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## SECTION H: DEVICE ID INDEX

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

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## SECTION H: DEVICE ID INDEX

| Device Index For Section H | | | |
|---|---|---|---|
| **Device ID** | **Section H Page No.** | **Process** | **System** |
| D179 | 1 | 4 | 5 |

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

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

### 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]

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]

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

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

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

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]

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

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

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.

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

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

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 |
| VOC | District Rule | 1149 |
| VOC | District Rule | 1178 |

[**RULE 1149, 7-14-1995;** RULE 1149, 5-2-2008; **RULE 1178, 4-7-2006; RULE 463, 5-6-2005;** RULE 463, 11-4-2011]

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

[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**]

[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:

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

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:

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]

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

### DEVICE CONDITIONS

### D. Monitoring/Testing Requirements

D28.2 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine the emissions of NOX and CO at the stack, using test methods approved by the District.

The test shall be conducted within 90 days after achieving maximum production rate, but no later than 120 days after initial start-up.

Source test shall be conducted when this equipment is operating at least at 80 percent of the maximum firing rate.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

[**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; **RULE 2012, 5-6-2005**]

[Devices subject to this condition : D179]

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 1146, 11-17-2000;** RULE 1146, 9-5-2008; **RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982**]

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

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

[Devices subject to this condition : D179]

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## SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules specified below. The operator shall comply with all conditions specified in the approval of these plans, with the following exceptions:

a. The operator does not have to comply with NOx or SOx emission limits from rules identified in Table 1 or Table 2 of Rule 2001(j) which become effective after December 31, 1993.

b. The operator does not have to comply with NOx or SOx emission limits from rules identified in Table 1 or Table 2 of Rule 2001(j) after the facility has received final certification of all monitoring and reporting requirements specified in Section F and Section G.

Documents pertaining to the plan applications listed below are available for public review at AQMD Headquarters. Any changes to plan applications will require permit modification in accordance with Title V permit revision procedures.

List of approved plans:

| Application | Rule |
|---|---|
| 388968 | 1176 |
| 497698 | 1166 |
| 526019 | 1166 |
| 533452 | 1173 |

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.

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## SECTION J: AIR TOXICS

NOT APPLICABLE

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## SECTION K: TITLE V Administration

**GENERAL PROVISIONS**

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]

2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

**Permit Renewal and Expiration**

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]

   (B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]

4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

**Duty to Provide Information**

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

**Payment of Fees**

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]

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## SECTION K: TITLE V Administration

**Reopening for Cause**

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:

   (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.

   (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

   (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

**COMPLIANCE PROVISIONS**

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:

   (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or

   (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

   Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]

# FACILITY PERMIT TO OPERATE
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## SECTION K: TITLE V Administration

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:

   (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;

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

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

   (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]

10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]

11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]

12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]

13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]

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14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]

15. Nothing in this permit or in any permit shield can alter or affect:

    (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;

    (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;

    (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;

    (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;

    (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and

    (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]

16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]

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**EMERGENCY PROVISIONS**

17. An emergency[1] constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:

    (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:

        (1) An emergency occurred and the operator can identify the cause(s) of the emergency;

        (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;

        (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,

        (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and

    (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]

18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

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1 "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

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**RECORDKEEPING PROVISIONS**

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:

    (A) The date, place as defined in the Title V permit, and time of sampling or measurements;

    (B) The date(s) analyses were performed;

    (C) The company or entity that performed the analyses;

    (D) The analytical techniques or methods used;

    (E) The results of such analyses; and

    (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]

20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]

21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

**REPORTING PROVISIONS**

22. The operator shall comply with the following requirements for prompt reporting of deviations:

    (A) Breakdowns shall be reported as required by Rule 430 – Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.

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(B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.

(C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.

(D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]

23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]

24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:

(A) Identification of each permit term or condition that is the basis of the certification;

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(B) The compliance status during the reporting period;

(C) Whether compliance was continuous or intermittent;

(D) The method(s) used to determine compliance over the reporting period and currently, and

(E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn: Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

**PERIODIC MONITORING**

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the TitleV application file. [3004(a)(4)]

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*FACILITY RULES*

*This facility is subject to the following rules and regulations*

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

| RULE SOURCE | Adopted/Amended Date | FEDERAL Enforceability |
|---|---|---|
| RULE 1108 | 2-1-1985 | Federally enforceable |
| RULE 1123 | 12-7-1990 | Federally enforceable |
| RULE 1146 | 11-17-2000 | Federally enforceable |
| RULE 1146 | 9-5-2008 | Non federally enforceable |
| RULE 1149 | 5-2-2008 | Non federally enforceable |
| RULE 1149 | 7-14-1995 | Federally enforceable |
| RULE 1173 | 2-6-2009 | Non federally enforceable |
| RULE 1173 | 5-13-1994 | Federally enforceable |
| RULE 1176 | 9-13-1996 | Federally enforceable |
| RULE 1178 | 4-7-2006 | Federally enforceable |
| RULE 118 | 12-7-1995 | Non federally enforceable |
| RULE 1303(a)(1)-BACT | 12-6-2002 | Non federally enforceable |
| RULE 1303(a)(1)-BACT | 5-10-1996 | Federally enforceable |
| RULE 1303(b)(2)-Offset | 12-6-2002 | Non federally enforceable |
| RULE 1303(b)(2)-Offset | 5-10-1996 | Federally enforceable |
| RULE 1415 | 12-3-2010 | Non federally enforceable |
| RULE 2004 | 4-6-2007 | Non federally enforceable |
| RULE 2004 | 5-11-2001 | Federally enforceable |
| RULE 2005 | 5-6-2005 | Federally enforceable |
| RULE 2012 | 5-6-2005 | Federally enforceable |
| RULE 204 | 10-8-1993 | Federally enforceable |
| RULE 217 | 1-5-1990 | Federally enforceable |

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| RULE SOURCE | Adopted/Amended Date | FEDERAL Enforceability |
|---|---|---|
| RULE 219 | 6-1-2007 | Non federally enforceable |
| RULE 219 | 9-4-1981 | Federally enforceable |
| RULE 3002 | 11-14-1997 | Federally enforceable |
| RULE 3002 | 11-5-2010 | Non federally enforceable |
| RULE 3003 | 11-14-1997 | Federally enforceable |
| RULE 3003 | 11-5-2010 | Non federally enforceable |
| RULE 3004 | 12-12-1997 | Federally enforceable |
| RULE 3004(a)(4)-Periodic Monitoring | 12-12-1997 | Federally enforceable |
| RULE 3005 | 11-14-1997 | Federally enforceable |
| RULE 3005 | 11-5-2010 | Non federally enforceable |
| RULE 3007 | 10-8-1993 | Federally enforceable |
| RULE 304 | 5-6-2011 | Non federally enforceable |
| RULE 401 | 11-9-2001 | Non federally enforceable |
| RULE 401 | 3-2-1984 | Federally enforceable |
| RULE 402 | 5-7-1976 | Non federally enforceable |
| RULE 404 | 2-7-1986 | Federally enforceable |
| RULE 407 | 4-2-1982 | Federally enforceable |
| RULE 408 | 5-7-1976 | Federally enforceable |
| RULE 409 | 8-7-1981 | Federally enforceable |
| RULE 430 | 7-12-1996 | Non federally enforceable |
| RULE 431.1 | 6-12-1998 | Federally enforceable |
| RULE 431.2 | 5-4-1990 | Federally enforceable |
| RULE 431.2 | 9-15-2000 | Non federally enforceable |
| RULE 462 | 5-14-1999 | Federally enforceable |
| RULE 463 | 11-4-2011 | Non federally enforceable |
| RULE 463 | 5-6-2005 | Federally enforceable |
| RULE 465 | 8-13-1999 | Federally enforceable |
| RULE 468 | 10-8-1976 | Federally enforceable |
| RULE 701 | 6-13-1997 | Federally enforceable |
| 40CFR 60 Subpart GGG | 6-7-1985 | Federally enforceable |
| 40CFR 60 Subpart J | 10-4-1991 | Federally enforceable |
| 40CFR 60 Subpart JJJJ | 1-18-2008 | Federally enforceable |

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## SECTION K: TITLE V Administration

| RULE SOURCE | Adopted/Amended Date | FEDERAL Enforceability |
|---|---|---|
| 40CFR 60 Subpart Ka | 5-5-1989 | Federally enforceable |
| 40CFR 60 Subpart Kb | 10-15-2003 | Federally enforceable |
| 40CFR 60 Subpart QQQ | 5-5-1989 | Federally enforceable |
| 40CFR 60 Subpart UU | 8-5-1983 | Federally enforceable |
| 40CFR 61 Subpart FF | 12-4-2003 | Federally enforceable |
| 40CFR 63 Subpart ZZZZ | 1-18-2008 | Federally enforceable |

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## APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN PERMIT PURSUANT TO RULE 219

1. ICE, NATURAL GAS, SUBJECT TO 40CFR 60 JJJJ AND 63 ZZZZ

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## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1108 02-01-1985]

Except as otherwise provided in Rule 1108

The operator shall not sell or offer for sale for use in the District, or use any cutback asphalt containing more than 0.5 percent by volume organic compounds which evaporate at 260$^{o}$C (500$^{o}$F) or lower as determined by ASTM Method D402 (AASHTO T78) or other test method as approved by the Executive Officer.

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## APPENDIX B: RULE EMISSION LIMITS
## [RULE 404 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a). Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

**TABLE 404(a)**

| Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter"Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | | Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | |
|---|---|---|---|---|---|---|---|
| Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot | Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot |
| 25 or less | 883 or less | 450 | 0.196 | 900 | 31780 | 118 | 0.0515 |
| 30 | 1059 | 420 | .183 | 1000 | 35310 | 113 | .0493 |
| 35 | 1236 | 397 | .173 | 1100 | 38850 | 109 | .0476 |
| 40 | 1413 | 377 | .165 | 1200 | 42380 | 106 | .0463 |
| 45 | 1589 | 361 | .158 | 1300 | 45910 | 102 | .0445 |

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## APPENDIX B: RULE EMISSION LIMITS
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| Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter"Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | | Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | |
|---|---|---|---|---|---|---|---|
| Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot | Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot |
| 50 | 1766 | 347 | .152 | 1400 | 49440 | 100 | .0437 |
| 60 | 2119 | 324 | .141 | 1500 | 52970 | 97 | .0424 |
| 70 | 2472 | 306 | .134 | 1750 | 61800 | 92 | .0402 |
| 80 | 2825 | 291 | .127 | 2000 | 70630 | 87 | .0380 |
| 90 | 3178 | 279 | .122 | 2250 | 79460 | 83 | .0362 |
| 100 | 3531 | 267 | .117 | 2500 | 88290 | 80 | .0349 |
| 125 | 4414 | 246 | .107 | 3000 | 105900 | 75 | .0327 |
| 150 | 5297 | 230 | .100 | 4000 | 141300 | 67 | .0293 |
| 175 | 6180 | 217 | .0947 | 5000 | 176600 | 62 | .0271 |
| 200 | 7063 | 206 | .0900 | 6000 | 211900 | 58 | .0253 |
| 250 | 8829 | 190 | .0830 | 8000 | 282500 | 52 | .0227 |
| 300 | 10590 | 177 | .0773 | 10000 | 353100 | 48 | .0210 |
| 350 | 12360 | 167 | .0730 | 15000 | 529700 | 41 | .0179 |
| 400 | 14130 | 159 | .0694 | 20000 | 706300 | 37 | .0162 |
| 450 | 15890 | 152 | .0664 | 25000 | 882900 | 34 | .0148 |

# FACILITY PERMIT TO OPERATE
# VALERO WILMINGTON ASPHALT PLANT

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 404 02-07-1986]

| Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter"Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | | Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | |
|---|---|---|---|---|---|---|---|
| Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot | Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot |
| 500 | 17660 | 146 | .0637 | 30000 | 1059000 | 32 | .0140 |
| 600 | 21190 | 137 | .0598 | 40000 | 1413000 | 28 | .0122 |
| 700 | 24720 | 129 | .0563 | 50000 | 1766000 | 26 | .0114 |
| 800 | 28250 | 123 | .0537 | 70000 or more | 2472000 or more | 23 | .0100 |