

FACILITY PERMIT TO OPERATE

**TESORO REFINING AND MARKETING CO
23208 S ALAMEDA ST
CARSON, CA 90810**

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 TESORO REFINING AND MARKETING CO

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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: GAS-WATER TREATMENT/STRIPPING					
System 1: SOUR WATER STRIPPER (SWS) UNIT NORTH					S15.3, S15.4
COLUMN, STRIPPER, V-1236, SOUR WATER, HEIGHT: 120 FT ; DIAMETER: 7 FT A/N: 469457	D1				
KNOCK OUT POT, V-1229, AMMONIA, ACID GAS, COMMON TO NORTH & SOUTH SWS UNITS, HEIGHT: 10 FT 6 IN; DIAMETER: 3 FT 6 IN A/N: 469457	D3				
SUMP, SOUR WATER, FIXED ROOF, COMMON TO NORTH & SOUTH SWS UNITS, WIDTH: 5 FT ; DEPTH: 8 FT ; LENGTH: 10 FT A/N: 469457	D4				E336.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469457	D184				H23.1
System 2: SOUR WATER STRIPPER (SWS) UNIT SOUTH					S15.3, S15.4
COLUMN, STRIPPER, V-1237, SOUR WATER, HEIGHT: 120 FT ; DIAMETER: 7 FT A/N: 469406	D5				
KNOCK OUT POT, V-1229, AMMONIA, ACID GAS, COMMON TO NORTH & SOUTH SWS UNITS, HEIGHT: 10 FT 6 IN; DIAMETER: 3 FT 6 IN A/N: 469457	D3				

* (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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Process 1: GAS-WATER TREATMENT/STRIPPING					
SUMP, SOUR WATER, FIXED ROOF, COMMON TO NORTH & SOUTH SWS UNITS, WIDTH: 5 FT ; DEPTH: 8 FT ; LENGTH: 10 FT A/N: 469457	D4				E336.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469457	D185				H23.1
System 3: FOUL WATER STRIPPER UNIT NO. 250					S15.3, S15.4
COLUMN, STRIPPER, V-1261, HEIGHT: 24 FT ; DIAMETER: 2 FT 6 IN A/N: 469407	D7				
VESSEL, SEPARATOR, V-1266, REFLUX HYDROCARBON, HEIGHT: 3 FT ; DIAMETER: 1 FT A/N: 469407	D8				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469407	D186				H23.1
System 4: AMMONIA KNOCK-OUT SYSTEM					S15.3, S15.4
KNOCK OUT POT, V-1286, HEIGHT: 8 FT ; DIAMETER: 3 FT A/N: 469408	D9				
System 5: HYDROGEN SULFIDE KNOCK-OUT SYSTEM					S15.3, S15.4
KNOCK OUT POT, V-1287, HYDROGEN SULFIDE, HEIGHT: 9 FT 2 IN; DIAMETER: 5 FT A/N: 469409	D24				
Process 2: AMINE REGENERATION					
System 1: DEA STRIPPING UNIT NO. 100					S15.3, S15.4

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2: AMINE REGENERATION					
COLUMN, AMINE STRIPPER, V-1675, HEIGHT: 35 FT ; DIAMETER: 7 FT A/N: 469410	D10				
VESSEL, V-1257, AMINE STRIPPER REFLUX, LENGTH: 10 FT ; DIAMETER: 3 FT A/N: 469410	D11				
SUMP, NORTH, AMINE, COMMON TO H2S STRIPPING UNIT NO. 100 & 200, DEPTH: 4 FT ; DIAMETER: 4 FT 6 IN A/N: 469410	D13				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469410	D187				H23.1
System 2: DEA STRIPPING UNIT NO. 200					S15.3, S15.4
COLUMN, AMINE STRIPPER, V-1676, HEIGHT: 41 FT 1 IN; DIAMETER: 6 FT 11.5 IN A/N: 469411	D14				
VESSEL, V-1252, REFLUX, LENGTH: 10 FT ; DIAMETER: 3 FT A/N: 469411	D15				
SUMP, NORTH, AMINE, COMMON TO H2S STRIPPING UNIT NO. 100 & 200, DEPTH: 4 FT ; DIAMETER: 4 FT 6 IN A/N: 469410	D13				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469411	D188				H23.1
System 3: MDEA STRIPPING UNIT NO. 400					S15.3, S15.4

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| <ul style="list-style-type: none"> * (1) (1A) (1B) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5) (5A) (5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) (2A) (2B) Denotes RECLAIM emission rate (4) Denotes BACT emission limit (6) Denotes air toxic control rule limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.) (10) See section J for NESHAP/MACT requirements |
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Process 2: AMINE REGENERATION					
COLUMN, AMINE STRIPPER, V-1673, HEIGHT: 46 FT ; DIAMETER: 5 FT A/N: 469412	D20				
VESSEL, V-1677, REFLUX, HEIGHT: 12 FT 6 IN; DIAMETER: 2 FT 6 IN A/N: 469412	D21				
SUMP, SOUTH, AMINE, COMMON TO UNITS NO. 400, 500, AND 550, DEPTH: 4 FT ; DIAMETER: 4 FT 6 IN A/N: 469413	D19				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469412	D189				H23.1
System 4: MDEA STRIPPING UNIT NO. 500					S15.3, S15.4
COLUMN, AMINE STRIPPER, V-1674, AMINE, HEIGHT: 46 FT ; DIAMETER: 5 FT A/N: 469414	D22				
VESSEL, V-1678, REFLUX, HEIGHT: 12 FT 6 IN; DIAMETER: 2 FT 6 IN A/N: 469414	D23				
SUMP, SOUTH, AMINE, COMMON TO UNITS NO. 400, 500, AND 550, DEPTH: 4 FT ; DIAMETER: 4 FT 6 IN A/N: 469413	D19				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469414	D190				H23.1
System 5: DEA STRIPPING UNIT NO. 550					S15.3, S15.4
COLUMN, AMINE STRIPPER, V-1682, HEIGHT: 42 FT ; DIAMETER: 7 FT A/N: 469413	D17				

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| <ul style="list-style-type: none"> * (1) (1A) (1B) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5) (5A) (5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) (2A) (2B) Denotes RECLAIM emission rate (4) Denotes BACT emission limit (6) Denotes air toxic control rule limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.) (10) See section J for NESHAP/MACT requirements |
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Process 2: AMINE REGENERATION					
VESSEL, V-1291, REFLUX, LENGTH: 9 FT ; DIAMETER: 3 FT A/N: 469413	D18				
SUMP, SOUTH, AMINE, COMMON TO UNITS NO. 400, 500, AND 550, DEPTH: 4 FT ; DIAMETER: 4 FT 6 IN A/N: 469413	D19				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469413	D191				H23.1
Process 3: SULFUR RECOVERY PROCESS					
System 1: SULFUR RECOVERY - CLAUS UNIT NO. 300					S13.1, S13.4, S15.1, S15.2, S18.4
BLOWER, COMBUSTION AIR, B-82/83, ONE SPARE, 270-HP A/N: 469415	D116				
FURNACE, REACTION, H-301, H2S GAS, WITH WASTE HEAT BOILER A/N: 469415	D29				
CONDENSER, E-301, FIRST A/N: 469415	D147				
BURNER, FIRST STAGE AUXILIARY, F-301, (H2S FIRED) A/N: 469415	D27				
VESSEL, CONVERTER, FIRST STAGE, V-1267, HEIGHT: 22 FT ; DIAMETER: 12 FT A/N: 469415	D25				
CONDENSER, E-302, SECOND A/N: 469415	D148				

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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Process 3: SULFUR RECOVERY PROCESS					
BURNER, SECOND STAGE AUXILIARY, F-302, (H2S FIRED) A/N: 469415	D28				
VESSEL, CONVERTER, SECOND STAGE, V-1268, HEIGHT: 22 FT ; DIAMETER: 13 FT A/N: 469415	D26				
CONDENSER, E-303, THIRD A/N: 469415	D149				
PIT, ACCUMULATOR, T-1, SULFUR, EQUIPED W/ INTERNAL STEAM COILS AND TWO TRANSFER PUMPS, WIDTH: 8 FT ; DEPTH: 5 FT 6 IN; LENGTH: 9 FT A/N: 469416	D62			H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; SO2: 250 PPMV (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.2
HEATER, 3RD CLAUS STAGE REHEATER, F-705, 6 MMBTU/HR, COMMON TO SRU NOS.300, 600, 700 AND 750 A/N: 469415	D30				
VESSEL, CONVERTER, 3RD CLAUS STAGE, V-1670, COMMON TO SRU NOS.300,600,700 AND 750, LENGTH: 30 FT ; DIAMETER: 14 FT A/N: 469415	D31				

* (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
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 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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Process 3: SULFUR RECOVERY PROCESS					
CONDENSER, E-1429, FINAL, 3RD CLAUS STAGE, COMMON TO SRU NOS. 300, 600, 700 & 750 A/N: 469415	D166			H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; H2S: 10 PPMV (8) [40CFR 60 Subpart J, 6-24-2008]; HAP: (10) [40CFR 63 Subpart UUU, #4, 4-20-2006]; REDUCED S: 300 PPMV (8A) [40CFR 60 Subpart J, 6-24-2008]; SOX: 250 PPMV (8A) [40CFR 60 Subpart J, 6-24-2008]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	A99.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469415	D192				H23.1
System 2: SULFUR RECOVERY - CLAUS UNIT NO. 600					S13.1, S13.4, S15.1, S15.2, S18.4
BLOWER, COMBUSTION AIR, B-84, 400-HP A/N: 469417	D117				
FURNACE, REACTION, H-601, WITH WASTE HEAT BOILER WITH BURNER, PARSONS TYPE, NH3-ACID GAS	D37				
BLOWER, COMBUSTION AIR, B-85, SPARE TO B-84 & B-88, 150-H.P A/N: 469417	D114				
CONDENSER, E-601, FIRST A/N: 469417	D163				

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
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Process 3: SULFUR RECOVERY PROCESS					
BURNER, FIRST STAGE AUXILIARY, F-601, (H2S FIRED) A/N: 469417	D34				
VESSEL, CONVERTER, FIRST STAGE, V-1280, LENGTH: 10 FT ; DIAMETER: 11 FT A/N: 469417	D32				
CONDENSER, E-602, SECOND A/N: 469417	D167				
BURNER, SECOND STAGE AUXILIARY, F-602, (H2S FIRED) A/N: 469417	D35				
VESSEL, CONVERTER, SECOND STAGE, V-1281, LENGTH: 10 FT ; DIAMETER: 11 FT A/N: 469417	D33				
CONDENSER, E-603, THIRD A/N: 469417	D170				
VESSEL, COALESCER, V-1279, HEIGHT: 10 FT ; DIAMETER: 6 FT 6 IN A/N: 469417	D36				
PIT, ACCUMULATOR, T-601, SULFUR, EQUIPPED WITH INTERNAL STEAM COILS, COMMON TO SRU NOS. 600, 700 & 750, WIDTH: 12 FT ; DEPTH: 9 FT 6 IN; LENGTH: 36 FT A/N: 469418	D63			H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; SO2: 250 PPMV (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.2

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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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 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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Process 3: SULFUR RECOVERY PROCESS					
PIT, STEAM HEATED, ACCUMULATOR, T-701, SULFUR, COMMON TO SRU NOS. 600, 700 & 750, DEPTH: 8 FT ; DIAMETER: 4 FT 9 IN A/N: 469419	D65			H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; SO2: 250 PPMV (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.2
HEATER, 3RD CLAUS STAGE REHEATER, F-705, 6 MMBTU/HR, COMMON TO SRU NOS.300, 600, 700 AND 750 A/N: 469415	D30				
VESSEL, CONVERTER, 3RD CLAUS STAGE, V-1670, COMMON TO SRU NOS.300,600,700 AND 750, LENGTH: 30 FT ; DIAMETER: 14 FT A/N: 469415	D31				
CONDENSER, E-1429, FINAL, 3RD CLAUS STAGE, COMMON TO SRU NOS. 300, 600, 700 & 750 A/N: 469415	D166			H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; H2S: 10 PPMV (8) [40CFR 60 Subpart J, 6-24-2008]; HAP: (10) [40CFR 63 Subpart UUU, #4, 4-20-2006]; REDUCED S: 300 PPMV (8A) [40CFR 60 Subpart J, 6-24-2008]; SOX: 250 PPMV (8A) [40CFR 60 Subpart J, 6-24-2008]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	A99.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469417	D193				H23.1
System 3: SULFUR RECOVERY - CLAUS UNIT NO. 700					S13.1, S13.4, S15.1, S15.2, S18.4

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- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
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Process 3: SULFUR RECOVERY PROCESS					
BLOWER, COMBUSTION AIR, B-88, 400-HP A/N: 469420	D133				
FURNACE, H-701, REACTION, WITH WASTE HEAT BOILER WITH BURNER, PARSONS TYPE, NH3 -ACID FIRED	D41				
BLOWER, COMBUSTION AIR, B-85, SPARE TO B-84 & B-88, 150-H.P A/N: 469417	D114				
CONDENSER, E-701, FIRST A/N: 469420	D164				
BURNER, FIRST STAGE AUXILIARY, F-701, H2S FIRED A/N: 469420	D101				
VESSEL, CONVERTER, FIRST STAGE, V-1283, LENGTH: 10 FT ; DIAMETER: 11 FT A/N: 469420	D38				
CONDENSER, E-702, SECOND A/N: 469420	D168				
BURNER, SECOND STAGE AUXILIARY, F-702, H2S FIRED A/N: 469420	D103				
VESSEL, CONVERTER, SECOND STAGE, V-1284, LENGTH: 10 FT ; DIAMETER: 11 FT A/N: 469420	D39				
CONDENSER, E-703, THIRD A/N: 469420	D171				

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Process 3: SULFUR RECOVERY PROCESS					
VESSEL, COALESCER, V-1282, HEIGHT: 10 FT ; DIAMETER: 6 FT 6 IN A/N: 469420	D40				
PIT, ACCUMULATOR, T-601, SULFUR, EQUIPPED WITH INTERNAL STEAM COILS, COMMON TO SRU NOS. 600, 700 & 750, WIDTH: 12 FT ; DEPTH: 9 FT 6 IN; LENGTH: 36 FT A/N: 469418	D63			H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; SO2: 250 PPMV (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.2
PIT, STEAM HEATED, ACCUMULATOR, T-701, SULFUR, COMMON TO SRU NOS. 600, 700 & 750, DEPTH: 8 FT ; DIAMETER: 4 FT 9 IN A/N: 469419	D65			H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; SO2: 250 PPMV (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.2
HEATER, 3RD CLAUS STAGE REHEATER, F-705, 6 MMBTU/HR, COMMON TO SRU NOS.300, 600, 700 AND 750 A/N: 469415	D30				
VESSEL, CONVERTER, 3RD CLAUS STAGE, V-1670, COMMON TO SRU NOS.300,600,700 AND 750, LENGTH: 30 FT ; DIAMETER: 14 FT A/N: 469415	D31				

* (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 TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3: SULFUR RECOVERY PROCESS					
CONDENSER, E-1429, FINAL, 3RD CLAUS STAGE, COMMON TO SRU NOS. 300, 600, 700 & 750 A/N: 469415	D166			H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; H2S: 10 PPMV (8) [40CFR 60 Subpart J, 6-24-2008]; HAP: (10) [40CFR 63 Subpart UUU, #4, 4-20-2006]; REDUCED S: 300 PPMV (8A) [40CFR 60 Subpart J, 6-24-2008]; SOX: 250 PPMV (8A) [40CFR 60 Subpart J, 6-24-2008]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	A99.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469420	D194				H23.1
System 4: SULFUR RECOVERY - CLAUS UNIT NO. 750					S13.1, S13.4, S15.1, S15.2, S18.4
BLOWER, COMBUSTION AIR, B-91/92, ONE SPARE, 360-HP A/N: 469421	D119				
FURNACE, REACTION, H-751, WITH WASTE HEAT BOILER WITH BURNER A/N: 469421	D45				
CONDENSER, E-751, FIRST A/N: 469421	D165				
BURNER, SECOND STAGE AUXILIARY, F-751 A/N: 469421	D43				

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|--|--|
| <ul style="list-style-type: none"> * (1) (1A) (1B) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5) (5A) (5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) (2A) (2B) Denotes RECLAIM emission rate (4) Denotes BACT emission limit (6) Denotes air toxic control rule limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.) (10) See section J for NESHAP/MACT requirements |
|--|--|

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3: SULFUR RECOVERY PROCESS					
VESSEL, CONVERTER, FIRST/SECOND STAGE, V-1288, HEIGHT: 30 FT ; DIAMETER: 12 FT A/N: 469421	D42				
CONDENSER, E-752, SECOND A/N: 469421	D169				
VESSEL, CONVERTER, SECOND STAGE, HEIGHT: 30 FT ; DIAMETER: 12 FT A/N: 469421	D175				
CONDENSER, E-753, THIRD A/N: 469421	D172				
VESSEL, COALESCER, V-1285, HEIGHT: 8 FT ; DIAMETER: 5 FT A/N: 469421	D44				
PIT, ACCUMULATOR, T-601, SULFUR, EQUIPPED WITH INTERNAL STEAM COILS, COMMON TO SRU NOS. 600, 700 & 750, WIDTH: 12 FT ; DEPTH: 9 FT 6 IN; LENGTH: 36 FT A/N: 469418	D63			H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; SO2: 250 PPMV (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.2
PIT, STEAM HEATED, ACCUMULATOR, T-701, SULFUR, COMMON TO SRU NOS. 600, 700 & 750, DEPTH: 8 FT ; DIAMETER: 4 FT 9 IN A/N: 469419	D65			H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; SO2: 250 PPMV (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.2
HEATER, 3RD CLAUS STAGE REHEATER, F-705, 6 MMBTU/HR, COMMON TO SRU NOS.300, 600, 700 AND 750 A/N: 469415	D30				

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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3: SULFUR RECOVERY PROCESS					
VESSEL, CONVERTER, 3RD CLAUS STAGE, V-1670, COMMON TO SRU NOS.300,600,700 AND 750, LENGTH: 30 FT ; DIAMETER: 14 FT A/N: 469415	D31				
CONDENSER, E-1429, FINAL, 3RD CLAUS STAGE, COMMON TO SRU NOS. 300, 600, 700 & 750 A/N: 469415	D166			H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; H2S: 10 PPMV (8) [40CFR 60 Subpart J, 6-24-2008]; HAP: (10) [40CFR 63 Subpart UUU, #4, 4-20-2006]; REDUCED S: 300 PPMV (8A) [40CFR 60 Subpart J, 6-24-2008]; SOX: 250 PPMV (8A) [40CFR 60 Subpart J, 6-24-2008]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	A99.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469421	D195				H23.1
System 5: SULFTEN TAIL GAS TREATING UNIT, REDUCTION CONTROL					S13.3, S13.4, S18.1
BLOWER, COMBUSTION AIR, B-59/60, EACH 250-HP, COMMON TO TAIL GAS TREATING UNIT & SPARE A/N: 469423	D120				
BLOWER, TAIL GAS BOOSTER, B-61/62, EACH 415-HP, COMMON TO TAIL GAS TREATING UNIT & SPARE A/N: 469423	D122				

* (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 TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3: SULFUR RECOVERY PROCESS					
GENERATOR, F-1401/1402, 7.6 MMBTU/HR EACH, REDUCING GAS, COMMON TO TAIL GAS TREATING UNIT & SPARE A/N: 469423	D46				
REACTOR, HYDROGENATION, V-1589, LENGTH: 17 FT ; DIAMETER: 10 FT A/N: 469423	D48				
ABSORBER, V-1664, HEIGHT: 118 FT ; DIAMETER: 12 FT A/N: 469423	D51	C54 C56 S159		CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; HAP: (10) [40CFR 63 Subpart UUU, #4, 4-20-2006]	D232.1, D232.2, D332.1, E57.1
STACK A/N: 469423	S159	D51			
TANK, PROCESS, TK-507, LEAN SOLVENT, WITH NATURAL GAS BLANKET, 500 BBL, HEIGHT: 16 FT ; DIAMETER: 15 FT A/N: 469423	D50				E336.1
TANK, BLOWDOWN WATER, TK-7506, COMMON TO TAIL GAS TREATING UNIT & SPARE, 7500 BBL; DIAMETER: 40 FT ; HEIGHT: 35 FT A/N: 469423	D127				
FILTER, QUENCH WATER, V-1665/1666, DISPOSABLE CARTRIDGE TYPE, COMMON TO TAIL GAS TREATING UNIT & SPARE, HEIGHT: 4 FT ; DIAMETER: 1 FT 2 IN A/N: 469423	D128				

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3: SULFUR RECOVERY PROCESS					
FILTER, LEAN SOLVENT, V-1667/1668, DISPOSABLE CARTRIDGE TYPE, COMMON TO TAIL GAS TREATING UNIT & SPARE, HEIGHT: 4 FT ; DIAMETER: 1 FT 2 IN A/N: 469423	D129				
System 6: SULFTEN TAIL GAS TREATING UNIT (SPARE), REDUCTION CONTROL					S13.3, S13.4, S18.1
BLOWER, COMBUSTION AIR, B-59/60, EACH 250-HP, COMMON TO TAIL GAS TREATING UNIT & SPARE A/N: 469423	D120				
BLOWER, TAIL GAS BOOSTER, B-61/62, EACH 415-HP, COMMON TO TAIL GAS TREATING UNIT & SPARE A/N: 469423	D122				
GENERATOR, F-1401/1402, 7.6 MMBTU/HR EACH, REDUCING GAS, COMMON TO TAIL GAS TREATING UNIT & SPARE A/N: 469423	D46				
REACTOR, HYDROGENATION, V-1226 A/N: 469424	D49				
ABSORBER, V-1906, HEIGHT: 118 FT ; DIAMETER: 12 FT A/N: 469424	D52	C54 C56 S178		CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; HAP: (10) [40CFR 63 Subpart UUU, #4, 4-20-2006]	D232.1, D232.2, D332.1, E57.1
STACK A/N: 469424	S178	D52			

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3: SULFUR RECOVERY PROCESS					
TANK, BLOWDOWN WATER, TK-7506, COMMON TO TAIL GAS TREATING UNIT & SPARE, 7500 BBL; DIAMETER: 40 FT ; HEIGHT: 35 FT A/N: 469423	D127				
FILTER, QUENCH WATER, V-1665/1666, DISPOSABLE CARTRIDGE TYPE, COMMON TO TAIL GAS TREATING UNIT & SPARE, HEIGHT: 4 FT ; DIAMETER: 1 FT 2 IN A/N: 469423	D128				
FILTER, LEAN SOLVENT, V-1667/1668, DISPOSABLE CARTRIDGE TYPE, COMMON TO TAIL GAS TREATING UNIT & SPARE, HEIGHT: 4 FT ; DIAMETER: 1 FT 2 IN A/N: 469423	D129				
System 7: INCINERATORS					S13.3, S13.4, S18.3
INCINERATOR, F-754, NATURAL GAS, PROCESS GAS, REFINERY GAS, NORMALLY ON STANDBY, 52 MMBTU/HR WITH A/N: 469425 BURNER, NATURAL GAS, REFINERY GAS, CALLIDUS, 52 MMBTU/HR	C54	D51 D52 S55	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C8.1, C8.2, D29.1, D82.1, D328.1
STACK, F-754, HEIGHT: 113 FT ; DIAMETER: 7 FT A/N: 469425	S55	C54			

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3: SULFUR RECOVERY PROCESS					
INCINERATOR, F-704, NATURAL GAS, PROCESS GAS, REFINERY GAS, NORMALLY ON STANDBY, 45 MMBTU/HR A/N: 469426	C56	D51 D52 S105	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 110 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]	C1.1, C8.1, C8.2, D29.1, D328.1
STACK A/N: 469426	S105	C56			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469425	D196				H23.1
System 8: SULFUR STORAGE					
STORAGE TANK, FIXED ROOF, STEAM HEATED, TK-1032, SULFUR, 290000 GALS; DIAMETER: 45 FT ; HEIGHT: 25 FT A/N: 469427	D64			SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.2
STORAGE TANK, FIXED ROOF, STEAM HEATED, TK-1021, SULFUR, 290000 GALS; DIAMETER: 45 FT ; HEIGHT: 25 FT A/N: 469432	D66			SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.2
Process 4: LOADING/UNLOADING					
System 1: LIQUID SULFUR TANK TRUCK LOADING					
LOADING ARM, TANK TRUCK, LIQUID SULFUR, DIAMETER: 3 IN A/N: 469433	D57			SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.2
Process 5: STORAGE TANKS					
System 1: FIXED ROOF STORAGE TANKS					
					S13.2, S15.4

* (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 TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5: STORAGE TANKS					
STORAGE TANK, FIXED ROOF, TK-1017, DEAERATOR CHARGE WATER, 1000 BBL; DIAMETER: 18 FT ; HEIGHT: 22 FT A/N: 469434	D67				K67.2
STORAGE TANK, FIXED ROOF, TK-1029, 1000 BBL; DIAMETER: 18 FT ; HEIGHT: 22 FT A/N: 469436	D68				E336.1, K67.2
STORAGE TANK, FIXED ROOF, TK-1030, 1000 BBL; DIAMETER: 18 FT ; HEIGHT: 22 FT A/N: 469437	D69				E336.1, K67.2
STORAGE TANK, FIXED ROOF, TK-1028, 2000 BBL; DIAMETER: 25 FT ; HEIGHT: 22 FT A/N: 469438	D70				E336.1, K67.2
STORAGE TANK, FIXED ROOF, TK-1027, 1000 BBL; DIAMETER: 18 FT ; HEIGHT: 22 FT A/N: 469440	D71				E336.1, K67.2
STORAGE TANK, FIXED ROOF, TK-1018, DEAERATOR CHARGE WATER, 1000 BBL; DIAMETER: 18 FT ; HEIGHT: 22 FT A/N: 469442	D72				K67.2
STORAGE TANK, FIXED ROOF, TK-1026, 1000 BBL; DIAMETER: 18 FT ; HEIGHT: 22 FT A/N: 469443	D73				E336.1, K67.2

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5: STORAGE TANKS					
STORAGE TANK, FIXED ROOF, TK-1020, 700 BBL; DIAMETER: 14 FT 6 IN; HEIGHT: 24 FT A/N: 469445	D74				E336.1, K67.2
STORAGE TANK, FIXED ROOF, TK-1019, LEAN DEA, 1000 BBL; DIAMETER: 18 FT ; HEIGHT: 22 FT A/N: 469446	D75				K67.2
TANK, TK-1025, 440 BBL; DIAMETER: 14 FT ; HEIGHT: 16 FT A/N: 469449	D60				E336.1, K67.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469434	D135				H23.1
Process 6: WASTEWATER HANDLING					
System 1: EFFLUENT WASTEWATER DISPOSAL SYSTEM					
SUMP, EFFLUENT CATCH BASIN, WIDTH: 20 FT ; DEPTH: 10 FT ; LENGTH: 20 FT WITH A/N: 469450 SKIMMING POND, NORTH, WIDTH: 7 FT ; LENGTH: 10 FT SKIMMING POND, SOUTH, WIDTH: 7 FT ; LENGTH: 10 FT	D61				
Process 7: UTILITIES					
System 1: BOILERS					

* (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 TESORO REFINING AND MARKETING CO

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: UTILITIES					
BOILER, H-1601, NATURAL GAS, REFINERY GAS, ERIE CITY ENERGY DIVISION, WITH LOW NOX BURNER, 112.4 MMBTU/HR WITH A/N: 469452 BURNER, NATURAL GAS, REFINERY GAS, JOHN ZINK, MODEL 30 NOX, WITH LOW NOX BURNER, 112.4 MMBTU/HR	D76	S110	NOX: MAJOR SOURCE**, SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.01 GRAINS/SCF (5A) [RULE 476, 10-8-1976]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 11 LBS/HR (5B) [RULE 476, 10-8-1976]	A327.1, D328.1
STACK A/N: 469452	S110	D76 D77			
BOILER, H-1602, NATURAL GAS, REFINERY GAS, 112.4 MMBTU/HR WITH A/N: 469453 BURNER, NATURAL GAS, REFINERY GAS, 30 NOX, JOHN ZINK, WITH LOW NOX BURNER, 112.4 MMBTU/HR	D77	S110	NOX: MAJOR SOURCE**, SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.01 GRAINS/SCF (5A) [RULE 476, 10-8-1976]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 11 LBS/HR (5B) [RULE 476, 10-8-1976]	A327.1, D328.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469452	D136				H23.1
System 2: INTERNAL COMBUSTION ENGINE					

* (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 TESORO REFINING AND MARKETING CO

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: UTILITIES					
INTERNAL COMBUSTION ENGINE, ENG-15, 4 CYLINDERS, DIESEL FUEL, SCHRAM, MODEL 71N, EMERGENCY AIR COMPRESSOR, WITH AFTERCOOLER, TURBOCHARGER, 280 HP A/N: 469454	D134		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL (1) [RULE 2011, 5-6-2005]	B61.1, C1.2, D12.1, D135.1, K67.6
Process 8: AIR POLLUTION CONTROL					
System 1: SULFUR VAPOR COLLECTION SYSTEM					S15.6, S18.5
BLOWER, SULFUR VENT BLOWER, B-175/176/177/178, 4 TOTAL, EACH 15 H.P., (2 STANDBY) A/N: 469417	D111				
System 2: VAPOR RECOVERY & FUEL GAS TREATING SYSTEM					S15.4
VESSEL, FLASH, V-1271, LENGTH: 12 FT ; DIAMETER: 6 FT A/N: 469455	D89				
POT, WATER SEAL, V-1272, HEIGHT: 5 FT ; DIAMETER: 1 FT 6 IN A/N: 469455	D91				
VESSEL, FLASH, V-1292, LENGTH: 12 FT ; DIAMETER: 6 FT A/N: 469455	D90				
POT, WATER SEAL, V-1293, HEIGHT: 5 FT ; DIAMETER: 1 FT 6 IN A/N: 469455	D92				
COMPRESSOR, C-115, RECIPROCATING TYPE, 25-HP A/N: 469455	D95				
ABSORBER, V-1256, HEIGHT: 18 FT ; DIAMETER: 1 FT 3 IN A/N: 469455	D97				

- | | |
|--|--|
| <ul style="list-style-type: none"> * (1) (1A) (1B) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5) (5A) (5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) (2A) (2B) Denotes RECLAIM emission rate (4) Denotes BACT emission limit (6) Denotes air toxic control rule limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.) (10) See section J for NESHAP/MACT requirements |
|--|--|

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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: AIR POLLUTION CONTROL					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469455	D138				H23.1
System 3: EMERGENCY FLARE					
FLARE, ELEVATED WITH STEAM INJECTION, H-960, JOHN ZINK MODEL STF-8, WITH THREE REFINERY GAS FIRED PILOTS, HEIGHT: 50 FT ; DIAMETER: 8 FT A/N: 469456	C96				D12.2, D323.1, E193.1, H23.8, I1.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469456	D137				H23.1
System 4: PORTABLE RENTAL FLARE					
FLARE, ELEVATED WITH STEAM INJECTION, EMERGENCY, JOHN ZINK MODEL QS-24, WITH THREE NATURAL GAS FIRED PILOTS WITH 7 STEAM JETS, HEIGHT: 50 FT ; DIAMETER: 2 FT A/N: 471885	C183				D12.2, D323.1, E71.1, E193.1, H23.8, K67.5, K171.1, L96.1
Process 9: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, COOLING TOWERS	E141				H23.3
RULE 219 EXEMPT EQUIPMENT, ABRASIVE BLASTING EQUIPMENT, GLOVE-BOX, <= 53 FT3, WITH DUST FILTER	E143			PM: (9) [RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 404, 2-7-1986; RULE 405, 2-7-1986]	D322.1, D323.2, K67.4
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E144			VOC: (9) [RULE 1107, 11-9-2001; RULE 1107, 1-6-2006; RULE 1136, 6-14-1996; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	H23.7

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E145			VOC: (9) [RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	K67.3
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT	E181			VOC: (9) [RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	H23.5
RULE 219 EXEMPT EQUIPMENT, LAMINATING EQUIPMENT, LOW USE OR EMISSIONS	E182			VOC: (9) [RULE 1168, 10-3-2003; RULE 1168, 1-7-2005; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	H23.7

* (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 TESORO REFINING AND MARKETING CO

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
 TESORO REFINING AND MARKETING CO
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1	1	1	1
D3	1	1	1
D3	1	1	2
D4	1	1	1
D4	2	1	2
D5	1	1	2
D7	2	1	3
D8	2	1	3
D9	2	1	4
D10	3	2	1
D11	3	2	1
D13	3	2	1
D13	3	2	2
D14	3	2	2
D15	3	2	2
D17	4	2	5
D18	5	2	5
D19	4	2	3
D19	4	2	4
D19	5	2	5
D20	4	2	3
D21	4	2	3
D22	4	2	4
D23	4	2	4
D24	2	1	5
D25	5	3	1
D26	6	3	1
D27	5	3	1
D28	6	3	1
D29	5	3	1
D30	6	3	1
D30	9	3	2
D30	11	3	3
D30	13	3	4
D31	6	3	1

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D31	9	3	2
D31	11	3	3
D31	14	3	4
D32	8	3	2
D33	8	3	2
D34	8	3	2
D35	8	3	2
D36	8	3	2
D37	7	3	2
D38	10	3	3
D39	10	3	3
D40	11	3	3
D41	10	3	3
D42	13	3	4
D43	12	3	4
D44	13	3	4
D45	12	3	4
D46	15	3	5
D46	16	3	6
D48	15	3	5
D49	16	3	6
D50	15	3	5
D51	15	3	5
D52	16	3	6
C54	17	3	7
S55	17	3	7
C56	18	3	7
D57	18	4	1
D60	20	5	1
D61	20	6	1
D62	6	3	1
D63	8	3	2
D63	11	3	3
D63	13	3	4
D64	18	3	8

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D65	9	3	2
D65	11	3	3
D65	13	3	4
D66	18	3	8
D67	19	5	1
D68	19	5	1
D69	19	5	1
D70	19	5	1
D71	19	5	1
D72	19	5	1
D73	19	5	1
D74	20	5	1
D75	20	5	1
D76	21	7	1
D77	21	7	1
D89	22	8	2
D90	22	8	2
D91	22	8	2
D92	22	8	2
D95	22	8	2
C96	23	8	3
D97	22	8	2
D101	10	3	3
D103	10	3	3
S105	18	3	7
S110	21	7	1
D111	22	8	1
D114	7	3	2
D114	10	3	3
D116	5	3	1
D117	7	3	2
D119	12	3	4
D120	14	3	5
D120	16	3	6
D122	14	3	5

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D122	16	3	6
D127	15	3	5
D127	17	3	6
D128	15	3	5
D128	17	3	6
D129	16	3	5
D129	17	3	6
D133	10	3	3
D134	22	7	2
D135	20	5	1
D136	21	7	1
D137	23	8	3
D138	23	8	2
E141	23	9	0
E143	23	9	0
E144	23	9	0
E145	24	9	0
D147	5	3	1
D148	5	3	1
D149	6	3	1
S159	15	3	5
D163	7	3	2
D164	10	3	3
D165	12	3	4
D166	7	3	1
D166	9	3	2
D166	12	3	3
D166	14	3	4
D167	8	3	2
D168	10	3	3
D169	13	3	4
D170	8	3	2
D171	10	3	3
D172	13	3	4
D175	13	3	4

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
S178	16	3	6
E181	24	9	0
E182	24	9	0
C183	23	8	4
D184	1	1	1
D185	2	1	2
D186	2	1	3
D187	3	2	1
D188	3	2	2
D189	4	2	3
D190	4	2	4
D191	5	2	5
D192	7	3	1
D193	9	3	2
D194	12	3	3
D195	14	3	4
D196	18	3	7

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

FACILITY CONDITIONS

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

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

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

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

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

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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 TESORO REFINING AND MARKETING CO

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

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

F52.2 This facility is subject to the applicable requirements of the following rules or regulation(s):

40CFR60 Subpart A

40CFR61 Subpart A

40CFR63 Subpart A

[40CFR 60 Subpart A, 5-16-2007; 40CFR 61 Subpart A, 5-16-2007; 40CFR 63 Subpart A, 5-16-2007]

F52.3 This facility is subject to the applicable requirements of the following rules or regulation(s):

CONSENT DECREE CIVIL NO. H-01-0978

[CONSENT DECREE, 3-21-2001]

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.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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
SOX	40CFR60, SUBPART	J
Total Reduced Sulfur	40CFR60, SUBPART	J
H2S	40CFR60, SUBPART	J

Pursuant to 40CFR60.8(c), emissions in excess of the level of the applicable emission limit (40CFR60.104(a)(2)) during periods of startup, shutdown and malfunction shall not be considered a violation of the applicable emission limit (40CFR60.104(a)(2)) unless otherwise specified in the applicable standard.

The operator shall keep records to demonstrate compliance or exemption from this condition.

[40CFR 60 Subpart A, 5-16-2007; 40CFR 60 Subpart J, 6-24-2008]

[Systems subject to this condition : Process 3, System 1 , 2 , 3 , 4]

S13.2 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463

[RULE 463, 5-6-2005]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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 5, System 1]

S13.3 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
SOX	40CFR60, SUBPART	J

Pursuant to 40CFR60.8(c) and Consent Decree Civil Action H-01-0978, emissions in excess of the level of the applicable emission limit (40CFR104(a)(1) and 40CFR60.104(a)(2)) during periods of malfunction shall not be considered a violation of the applicable emission limit (40CFR60.104(a)(1) and 40CFR60.104(a)(2)) unless otherwise specified in the applicable standard.

When this equipment is subject to both standards, 40CFR60.104(a)(1) and 40CFR60.104(a)(2), this equipment shall comply with 40CFR60.104(a)(1), the more stringent of the two limits, unless compliance can be determined independently for each requirement.

The operator shall keep records to demonstrate compliance or exemption from this condition.

[40CFR 60 Subpart A, 5-16-2007; 40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]

[Systems subject to this condition : Process 3, System 5 , 6 , 7]

S13.4 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Total Reduced Sulfur	40CFR63, SUBPART	UUU

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Pursuant to 40CFR63.7(e), emissions in excess of the level of the relevant standard during periods of startup, shutdown, and malfunction shall not be considered a violation of the relevant standard unless otherwise specified in the relevant standard or a determination of noncompliance is made under Section 63.6(e).

The operator shall keep records to demonstrate compliance or exemption from this condition.

[40CFR 63 Subpart A, 5-16-2007; 40CFR 63 Subpart UUU, 4-20-2006]

[Systems subject to this condition : Process 3, System 1 , 2 , 3 , 4 , 5 , 6 , 7]

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

All vent gases under normal operating conditions shall be directed to the tail gas treating system(s).

This process/system shall not be operated unless the tail gas treating system(s) 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 3, System 1 , 2 , 3 , 4]

S15.2 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under emergency, startup, and shutdown shall be directed to the incinerator.

This process/system shall not be operated unless the incinerator(s) is in full use and has a valid permit to receive vent gases from this system.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 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 , 2 , 3 , 4]

S15.3 The vent gases from all affected devices of this process/system shall be vented as follows:

All acid gas under normal conditions shall be directed to the sulfur recovery unit(s).

This process/system shall not be operated unless the sulfur recovery unit(s) 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 , 3 , 4 , 5; Process 2, System 1 , 2 , 3 , 4 , 5]

S15.4 The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a flare system.

This process/system shall not be operated unless the flare system 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 , 3 , 4 , 5; Process 2, System 1 , 2 , 3 , 4 , 5; Process 5, System 1; Process 8, System 2]

S15.6 The vent gases from all affected devices of this process/system shall be vented as follows:

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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 sulfur recovery unit(s).

[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 8, System 1]

- 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:

Sulfur Recovery - Claus Units (Process: 3, System: 1, 2, 3 & 4)

[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 5 , 6]

- 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:

Gas-Water Treatment/Stripping (Process: 1, System: 1, 2, 3, 4 & 5)

Amine Regeneration (Process: 2, System: 1, 2, 3, 4 & 5)

Vapor Recovery/Fuel Gas Treating System (Process: 8, System: 2)

Fixed Roof Storage Tanks (Process: 5, System: 1)

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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 8, System 3 , 4]

S18.3 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:

Sulfur Recovery - Claus Units (Process: 3, System: 1, 2, 3 & 4)

Tail Gas Treating Units (Process: 3, System: 5 & 6)

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

[Systems subject to this condition : Process 3, System 7]

S18.4 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:

Sulfur Vapor Collection System (Process: 8, System: 1)

Gas-Water Treatment/Stripping (Process: 1, System: 1, 2, 3, 4 & 5)

Amine Regeneration (Process: 2, System: 1, 2, 3, 4 & 5)

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

[Systems subject to this condition : Process 3, System 1 , 2 , 3 , 4]

S18.5 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 TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Sour Water Sump (Process: 1, System: 1, 2)

Sulfur Pits (Process: 3, System: 1, 2, 3, 4)

Sulfur Storage (Process: 3, System: 8)

Liquid Sulfur Tank Truck Loading (Process: 4, System: 1)

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

[Systems subject to this condition : Process 8, System 1]

DEVICE CONDITIONS

A. Emission Limits

A99.1 The 250 PPM SOX emission limit(s) shall only apply when the tail gas is routed to the incinerator, C54 or C56.

Whenever the tail gas is not routed to C54 or C56, the 300 PPM REDUCED SULFUR limit (calculated as SO₂) shall apply.

[40CFR 60 Subpart J, 6-24-2008]

[Devices subject to this condition : D166]

A327.1 For the purpose of determining compliance with District Rule 476, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

[RULE 476, 10-8-1976]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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 : D76, D77]

B. Material/Fuel Type Limits

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

Compound	weight percent
Sulfur less than or equal to	0.05

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

[Devices subject to this condition : D134]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the heat input to no more than 90000 MM Btu in any one year.

The purpose(s) of this condition is to ensure that this equipment qualifies as a large RECLAIM NOx source.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : C56]

C1.2 The operator shall limit the operating time to no more than 199 hour(s) in any one year.

This engine shall not be operated more than 199 hours in any one year, which includes no more than 20 hours in any one year and no more than 1.7 hours in any one month, both, for maintenance and testing.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D134]

- C8.1 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1050 Deg F.

The operator shall maintain a temperature of not less than 1050 Deg F or greater at all times when venting tail gasses containing H₂S of 10 ppmv or greater to the incinerator except during the initial venting of these gases to the incinerator for a period not to exceed 30 minutes during which the temperature shall be maintained at not less than 560 deg F.

This condition shall only apply when the incinerator is processing tail gases containing H₂S of 10 ppmv or greater.

The measuring device or gauge shall be accurate to within plus or minus 50 degrees F. It shall be calibrated once every 12 months.

To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the combustion chamber.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 402,
5-7-1976]**

[Devices subject to this condition : C54, C56]

- C8.2 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 560 Deg F.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The measuring device or gauge shall be accurate to within plus or minus 50 degrees F. It shall be calibrated once every 12 months.

To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the combustion chamber.

This condition shall only apply during hot standby, and when the tail gas vent containing H₂S of less than 10 ppmv.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 402, 5-7-1976]

[Devices subject to this condition : C54, C56]

D. Monitoring/Testing Requirements

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

[RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 2012, 5-6-2005]

[Devices subject to this condition : D134]

D12.2 The operator shall install and maintain a(n) thermocouple or any other equivalent device to accurately indicate the presence of a flame at the pilot light.

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

[RULE 1118, 11-4-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 60 Subpart A, 5-16-2007]

[Devices subject to this condition : C96, C183]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D29.1 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
PM emissions	Approved District method	1 hour	Outlet

The test(s) shall be conducted at least once every three years.

The test shall be conducted when the incinerator is in operation (not standby).

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 404, 2-7-1986; RULE 409, 8-7-1981]

[Devices subject to this condition : C54, C56]

D82.1 The operator shall install and maintain a CEMS to measure the following parameters:

NOX concentration in ppmv

The CEMS will convert the actual NOX concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS shall be installed and operated in accordance with an approved AQMD Rule 2012 CEMS plan application

[RULE 2012, 5-6-2005]

[Devices subject to this condition : C54]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D135.1 The operator shall inspect, adjust, and certify the ignition or fuel injection timing of this engine a minimum of once every 3 years of operation. Inspections, adjustments, and certifications shall be performed by a qualified mechanic and performed in accordance with the engine manufacturer's specifications and procedures.

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

[Devices subject to this condition : D134]

D232.1 The operator shall install and maintain a continuous emission monitoring device to accurately indicate the total reduced sulfur compounds concentration at the outlet. The concentration (ppmv) shall be calculated as sulfur dioxide at zero percent oxygen on a dry basis, in accordance with Section 60.105(a)(7)(ii) of 40CFR60.

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

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 468, 10-8-1976; 40CFR 60
Subpart J, 6-24-2008]**

[Devices subject to this condition : D51, D52]

D232.2 The operator shall install and maintain a continuous emission monitoring device to accurately indicate the H₂S concentration at the outlet.

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

The emission monitoring device shall include audio and visual alarms.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring,
12-12-1997; RULE 468, 10-8-1976; 40CFR 60 Subpart J, 6-24-2008]**

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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 : D51, D52]

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

[RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E143]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

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

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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

[Devices subject to this condition : C96, C183]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D323.2 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 an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours.

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

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

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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

[Devices subject to this condition : E143]

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 concentration 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 : C54, C56, D76, D77]

D332.1 The operator shall determine compliance with the CO emission limit(s) by conducting a test at least once every five years using a portable analyzer and AQMD-approved test method or, if not available, a non-AQMD approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with the CO concentration 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 : D51, D52]

E. Equipment Operation/Construction Requirements

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E57.1 The operator shall vent this equipment to an incinerator, C54 or C56, whenever the vent gas exceeds 10 ppm H₂S on a dry basis.

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

[Devices subject to this condition : D51, D52]

E71.1 The operator shall only operate this equipment during the period the flare C96 is shutdown and being repaired or maintained.

[RULE 1303, 4-20-2001]

[Devices subject to this condition : C183]

E193.1 The operator shall operate and maintain this equipment according to the following specifications:

The operator shall comply with all applicable requirements specified in Section 60.18 of 40 CFR60, Subpart A.

[40CFR 60 Subpart A, 5-16-2007]

[Devices subject to this condition : C96, C183]

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

All sour gases under normal operating conditions shall be directed to the vapor recovery & fuel gas treating system (Process 8, System 2).

This equipment shall not be operated unless the vapor recovery equipment 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 : D50, D60, D68, D69, D70, D71, D73, D74]

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

All vent gases shall be directed to the sulfur vapor collection system (Process 8, System 1).

This equipment shall not be operated unless sulfur vapor collection 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 : D4, D57, D62, D63, D64, D65, D66]

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	1173

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1173, 5-13-1994; RULE 1173, 6-1-2007]

[Devices subject to this condition : D135, D136, D137, D138, D184, D185, D186, D187, D188, D189, D190, D191, D192, D193, D194, D195, D196]

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

Contaminant	Rule	Rule/Subpart
Chromium, Hexavalent	District Rule	1404

[RULE 1404, 4-6-1990]

[Devices subject to this condition : E141]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1122

[RULE 1122, 10-1-2004]

[Devices subject to this condition : E181]

H23.7 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	109

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 109, 5-2-2003]

[Devices subject to this condition : E144, E182]

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

Contaminant	Rule	Rule/Subpart
SOX	District Rule	1118

[RULE 1118, 11-4-2005]

[Devices subject to this condition : C96, C183]

I. Administrative

I1.1 The operator shall comply with all the requirements of the conditions and compliance schedule as specified in the Variance, Case No. 4982-76, issued on April 24, 2007, in accordance with the Findings and Decisions of the Hearing Board or as subsequently modified by the Hearing Board. The operator shall submit progress reports at least semi-annually, or more frequently if specified in the Findings and Decisions. The progress reports shall contain dates for achieving activities, milestones or compliance required in the schedule of compliance and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not, or will not be met, and any preventative or corrective measures adopted.

The variance (or Order for Abatement) referenced in this condition does not affect federal or citizen enforceability of the underlying SIP approved rules for which the applicant is receiving the variance (or Order for Abatement).

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 3004(a)(10)(C), 12-12-1997]

[Devices subject to this condition : C96]

K. Record Keeping/Reporting

K67.2 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 1178, 4-7-2006; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 463,
5-6-2005]**

[Devices subject to this condition : D60, D67, D68, D69, D70, D71, D72, D73, D74,
D75]

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

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E145]

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

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

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

The date, time and results of the inspection

[RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E143]

K67.5 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The shutdown date of flare C96 for repair and/or maintenance.

The startup date of flare C96 after completion of repair and/or maintenance.

The specific date and reason for operation of portable flare C183.

The cumulative day(s) of operation of portable flare C183.

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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 : C183]

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

The operator shall keep a log of engine operations documenting the total time the engine is operated each month and the specific reason for operation as:

A. Emergency use

B. Maintenance and testing

C. Other (be specific)

In addition, each time the engine is manually started, the log shall include the date of engine operation, the specific reason for operation and the totalizing hour meter readings (in hours and tenths of hours) at the beginning and the end of operation. The total hours of operation and the total hours of operation for maintenance and testing for the previous calendar year shall be recorded sometime during the first 15 days of January of each year

Engine operation log(s) shall be retained on site for a minimum of five years and shall be made available to District personnel upon request

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

[Devices subject to this condition : D134]

K171.1 The operator shall provide to the District the following items:

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

An amendment to the refinery's existing Flare Monitoring and Recording Plan to include this new flare in accordance with Rule 1118(c)

This report shall be submitted to the District no later than 90 days after initial start up

[RULE 1118, 11-4-2005]

[Devices subject to this condition : C183]

L. Expiration Date

L96.1 The operator shall not operate this equipment beyond:

Two (2) weeks following the shutdown of flare C96 while being repaired or maintained and only emergency vent gases shall be vented to the portable flare C183

[RULE 1303, 5-10-1996; RULE 1303, 12-6-2002]

[Devices subject to this condition : C183]