

## **FACILITY PERMIT TO OPERATE**

**TESORO REFINING AND MARKETING CO  
2101 E PACIFIC COAST HWY  
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 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
<b>Process 1: CRUDE DISTILLATION</b>					P13.1
<b>System 1: CRUDE DISTILLATION UNIT</b>					S13.4, S15.2
FRACTIONATOR, V-1366, CRUDE, HEIGHT: 121 FT ; DIAMETER: 13 FT 6 IN A/N: 469239	D898				
ACCUMULATOR, REFLUX, V-1367, LENGTH: 24 FT ; DIAMETER: 10 FT 6 IN A/N: 469239	D1125				
ACCUMULATOR, V-1368, NAPHTHA, HEIGHT: 18 FT 6 IN; DIAMETER: 8 FT A/N: 469239	D1				
COLUMN, STRIPPER, V-1369, BURNER OIL DISTILLATE, HEIGHT: 46 FT ; DIAMETER: 4 FT A/N: 469239	D1126				
COLUMN, STRIPPER, V-1370, LAGO, HEIGHT: 46 FT ; DIAMETER: 4 FT A/N: 469239	D1127				
COLUMN, STRIPPER, V-1371, HAGO, HEIGHT: 20 FT ; DIAMETER: 4 FT A/N: 469239	D1128				
DRUM, CRUDE FLASH, V-1372, HEIGHT: 31 FT 6 IN; DIAMETER: 13 FT 6 IN A/N: 469239	D1129				
KNOCK OUT POT, V-1376, CRUDE, LENGTH: 21 FT ; DIAMETER: 13 FT 6 IN A/N: 469239	D4				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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<b>Process 1: CRUDE DISTILLATION</b>					P13.1
DRUM, DECOKING QUENCH, V-1389, HEIGHT: 12 FT 6 IN; DIAMETER: 6 FT 6 IN A/N: 469239	D1131				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469239	D1354			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.5
<b>System 2: LIGHT ENDS FRACTIONATION</b>					S13.4, S15.2, S15.3
COLUMN, DEBUTANIZER, V-1379, HEIGHT: 80 FT ; DIAMETER: 8 FT A/N: 469240	D5				
ACCUMULATOR, V-1380, DEBUTANIZER OVERHEAD, LENGTH: 15 FT ; DIAMETER: 5 FT A/N: 469240	D6				
COLUMN, SPLITTER, V-1381, NAPHTHA, HEIGHT: 80 FT ; DIAMETER: 6 FT A/N: 469240	D7				
ACCUMULATOR, V-1382, NAPHTHA SPLITTER OVERHEAD, LENGTH: 12 FT ; DIAMETER: 5 FT 6 IN A/N: 469240	D8				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469240	D1355			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.5
<b>System 3: CRUDE DISTILLATION HEATER</b>					

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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

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<b>Process 1: CRUDE DISTILLATION</b>					P13.1
HEATER, CRUDE, H-1, PROCESS GAS, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 198.98 MMBTU/HR WITH A/N: 509444  BURNER, REFINERY GAS, JOHN ZINK, MODEL PSMR-17, WITH LOW NOX BURNER, 12 TOTAL; 198.98 MMBTU/HR	D9	D76 D77 C764	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 35 PPMV (5) [RULE 1303(a)(1)-BACT, 5-10-1996]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.10, A99.17, A305.1, B61.1, D28.3, D90.7, H23.3, I296.1
SELECTIVE CATALYTIC REDUCTION, ENGLEHARD, W/ A FIXED BED REACTOR, VANADIA-TITANIA CATALYST, HONEYCOMB TYPE, 480 CU.FT. WITH A/N: 469241  INJECTOR, AMMONIA, WITH AMMONIA INJECTION	C764	D9 S1356		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	D12.1, D28.4, E71.7
STACK A/N: 469241	S1356	C764			
<b>System 4: CRUDE DESALTER</b>					S31.3
VESSEL, DESALTER, V-2183, FIRST STAGE, HEIGHT: 20 FT ; DIAMETER: 16 FT A/N: 470262	D1478				
VESSEL, DESALTER, V-2184, SECOND STAGE, HEIGHT: 20 FT ; DIAMETER: 16 FT A/N: 470262	D1479				

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<b>Process 1: CRUDE DISTILLATION</b>					P13.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470262	D1682			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.16
<b>Process 2: COKING AND RESIDUAL CONDITIONING</b>					P13.1
<b>System 1: DELAYED COKING UNIT (DCU)</b>					S11.3, S13.4, S15.2, S15.9, S15.10, S31.1
FRACTIONATOR, FC-105 (V-900), HEIGHT: 147 FT 9 IN; DIAMETER: 16 FT A/N:	D10				
COLUMN, STRIPPER, FC-106 (V-902), LIGHT GAS-OIL, HEIGHT: 25 FT ; DIAMETER: 4 FT 6 IN A/N:	D1132				
COLUMN, STRIPPER, FC-107 (V-903), INTERMEDIATE GAS-OIL, HEIGHT: 25 FT ; DIAMETER: 4 FT 6 IN A/N:	D1133				
COLUMN, STRIPPER, FC-108 (V-904), HEAVY GAS-OIL, HEIGHT: 25 FT ; DIAMETER: 4 FT 6 IN A/N:	D1134				
DRUM, FLASH, FC-131 (V-927), FRESH FEED, LENGTH: 33 FT ; DIAMETER: 15 FT A/N:	D11				
DRUM, SURGE, FC-135 (V-931), LGO, HEIGHT: 16 FT ; DIAMETER: 3 FT 6 IN A/N:	D1135				

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<b>Process 2: COKING AND RESIDUAL CONDITIONING</b>					P13.1
VESSEL, DESALTER, FC-137 (V-933), LENGTH: 90 FT ; DIAMETER: 12 FT A/N:	D1136				
DRUM, COKER HEATER SURGE, FC-146 (V-901), HEIGHT: 18 FT 6 IN; DIAMETER: 16 FT A/N:	D1137				
SUMP, GLAND OIL, WIDTH: 5 FT ; DEPTH: 7 FT ; LENGTH: 5 FT A/N:	D1141				
ACCUMULATOR, FRACTIONATOR OVERHEAD, FC-109 (V-905), LENGTH: 36 FT ; DIAMETER: 10 FT A/N:	D15				
SCRUBBER, COMPRESSOR SUCTION, FC-110 (V-906), HEIGHT: 8 FT ; DIAMETER: 7 FT 6 IN A/N:	D16				
ACCUMULATOR, FIRST STAGE DISCHARGE, FC-111 (V-907), LENGTH: 10 FT ; DIAMETER: 5 FT 6 IN A/N:	D17				
ACCUMULATOR, SECOND STAGE DISCHARGE, FC-112 (V-908), LENGTH: 10 FT ; DIAMETER: 4 FT 6 IN A/N:	D18				
ABSORBER, SPONGE OIL, FC-114 (V-910), HEIGHT: 57 FT 6 IN; DIAMETER: 3 FT 6 IN A/N:	D1143				

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- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
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<b>Process 2: COKING AND RESIDUAL CONDITIONING</b>					P13.1
VESSEL, WATER COALESCER, FC-148 (V-943), LENGTH: 8 FT ; DIAMETER: 2 FT 6 IN A/N:	D1145				
DRUM, COKE, FC-100-103 (V-895-898), 4 TOTAL, HEIGHT: 68 FT ; DIAMETER: 26 FT A/N:	D20			PM: (9) [RULE 405, 2-7-1986]	E336.3
ACCUMULATOR, FC-126 (V-922), COKE DRUM CONDENSATE, LENGTH: 15 FT ; DIAMETER: 5 FT A/N:	D1147				
COLUMN, DEBUTANIZER, FC-115 (V-911), HEIGHT: 85 FT 6 IN; DIAMETER: 5 FT 6 IN A/N:	D906				
ACCUMULATOR, DEBUTANIZER OVERHEAD, FC-116 (V-912), LENGTH: 19 FT ; DIAMETER: 6 FT A/N:	D24				
COLUMN, DEPROPANIZER, FC-117 (V-913), HEIGHT: 93 FT 1 IN; DIAMETER: 5 FT A/N:	D25				
ACCUMULATOR, DEPROPANIZER OVERHEAD, FC-118 (V-914), LENGTH: 11 FT ; DIAMETER: 4 FT 4 IN A/N:	D900				
COLUMN, SPLITTER, FC-119 (V-915), NAPHTHA, HEIGHT: 84 FT 1 IN; DIAMETER: 7 FT A/N:	D26				

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<b>Process 2: COKING AND RESIDUAL CONDITIONING</b>					P13.1
ACCUMULATOR, NAPHTHA SPLITTER OVERHEAD, FC-120 (V-916), HEIGHT: 14 FT ; DIAMETER: 5 FT 6 IN A/N:	D27				
SCRUBBER, V-917, SPONGE OIL ABSORBER GAS, HEIGHT: 8 FT ; DIAMETER: 3 FT 6 IN A/N:	D1149				
ABSORBER, AMINE, FC-122 (V-918), RESIDUE GAS, HEIGHT: 40 FT ; DIAMETER: 3 FT A/N:	D28				
SCRUBBER, RESIDUE GAS, FC-123 (V-919), HEIGHT: 8 FT ; DIAMETER: 3 FT A/N:	D1088				
ABSORBER, AMINE, FC-124 (V-920), PROPANE/PROPYLENE, HEIGHT: 30 FT ; DIAMETER: 5 FT A/N:	D29				
VESSEL, SEPARATOR, FC-130 (V-926), AMINE, LENGTH: 10 FT ; DIAMETER: 3 FT 6 IN A/N:	D30				
DRUM, FLASH, FC-147 (V-942), RICH AMINE, LENGTH: 15 FT ; DIAMETER: 8 FT 6 IN A/N:	D31				
PIT, COKE, WITH FOUR COKE DRUM CHUTES, WIDTH: 36 FT ; HEIGHT: 21 FT ; LENGTH: 585 FT A/N:	D1151			<b>PM: (9) [RULE 405, 2-7-1986]</b>	

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<b>Process 2: COKING AND RESIDUAL CONDITIONING</b>					P13.1
COMPRESSOR, OVERHEAD, C-145 A/N:	D901				H23.4
VESSEL, H-100/101, FUEL GAS, 2 TOTAL A/N:	D904				
COMPRESSOR, C-87 (PC-100), WITH TANDEM GAS SEALS A/N:	D969				
DRUM, RICH OIL FLASH DRUM, V-2332, LENGTH: 10 FT ; DIAMETER: 3 FT 6 IN A/N:	D1567				
HEAT EXCHANGER, PROPANE VAPORIZER E-1465 A/N:	D1616				
COLUMN, DEETHANIZER, FC-113 (V-909), HEIGHT: 104 FT 2 IN; DIAMETER: 8 FT 6 IN A/N:	D19				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1357			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.5
<b>System 2: DCU HEATERS</b>					

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<b>Process 2: COKING AND RESIDUAL CONDITIONING</b>					P13.1
HEATER, H-101, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 218.4 MMBTU/HR WITH  A/N: 470266          BURNER, REFINERY GAS, JOHN ZINK, MODEL PSMR-10, WITH LOW NOX BURNER, 80 TOTAL; 218.4 MMBTU/HR	D32		NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 35 PPMV (5A) [RULE 1303(a)(1)-BACT, 5-10-1996]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 24.7 LBS/HR (7) [RULE 2005, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.2, B61.1, D28.3, D90.7, D328.1, E193.5, H23.3
HEATER, H-100, PROCESS GAS, REFINERY GAS, 252 MMBTU/HR A/N: 469243	D33	D76 D77 C768 S987	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]	B61.1, D90.7, D328.1, E54.9, E54.17, H23.3
SELECTIVE CATALYTIC REDUCTION, ENGLEHARD, W/ A FXD BED REACTOR, VANADIA-TITANIA CATALYST, HONEYCOMB TYPE, 635 CU.FT. WITH A/N: 469253       INJECTOR, AMMONIA, WITH AMMONIA INJECTION	C768	D33 S987		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	D12.1, D28.4, E71.7
STACK A/N: 469253	S987	D33 C768			
<b>System 3: MEROX TREATING UNIT FOR DCU</b>					S13.4, S15.2, S15.3

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<b>Process 2: COKING AND RESIDUAL CONDITIONING</b>					P13.1
VESSEL, CAUSTIC PREWASH, FC-600 (V-881), HEIGHT: 20 FT ; DIAMETER: 5 FT 6 IN A/N: 469263	D52				
VESSEL, EXTRACTOR, FC-601 (V-882), HEIGHT: 48 FT ; DIAMETER: 4 FT 6 IN A/N: 469263	D54				
OXIDIZER, FC-602 (V-883), HEIGHT: 18 FT ; DIAMETER: 3 FT 6 IN A/N: 469263	D907				
VESSEL, SEPARATOR, FC-603 (V-884), DISULFIDE, WITH MIST ELIMINATOR, HEIGHT: 20 FT ; DIAMETER: 6 FT A/N: 469263	D56				
REACTOR, MEROX, FC-605 (V-886), HEIGHT: 25 FT ; DIAMETER: 6 FT A/N: 469263	D58			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	
SETTLING TANK, FC-606 (V-887), CAUSTIC, LENGTH: 22 FT ; DIAMETER: 6 FT A/N: 469263	D60				
FILTER, SAND, FC-607 (V-888), HEIGHT: 14 FT ; DIAMETER: 6 FT A/N: 469263	D62				
POT, LIQUID CATALYST ADDITION, FC-608, HEIGHT: 4 FT ; DIAMETER: 2 FT A/N: 469263	D1154				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469263	D1359			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.5

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| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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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 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
<b>Process 2: COKING AND RESIDUAL CONDITIONING</b>					P13.1
<b>System 6: DCU BLOWDOWN RECOVERY SYSTEM</b>					S13.4, S15.2, S15.3, S15.11
ACCUMULATOR, BLOWDOWN, FC-127 (V-923), LENGTH: 20 FT ; DIAMETER: 10 FT A/N:	D53				
VESSEL, BLOWDOWN CONTACTOR, FC-128 (V-924), HEIGHT: 40 FT ; DIAMETER: 16 FT A/N:	D1152				
KNOCK OUT POT, DISCHARGE, V-1400, HEIGHT: 7 FT 8 IN; DIAMETER: 3 FT A/N:	D63				
DRUM, FLARE SEAL, V-1613, LENGTH: 19 FT 6 IN; DIAMETER: 6 FT A/N:	D65				
COMPRESSOR, C-137, BLOWDOWN FLARE GAS RECOVERY A/N:	D68				H23.4
DRUM, V-1613, DCU FLARE SEAL, HEIGHT: 25 FT ; DIAMETER: 5 FT A/N:	D1350				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1361			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.5
<b>System 7: DECOKING VENT GAS DISPOSAL</b>					S13.4
DRUM, DCU DECOKING QUENCH, V-938, HEIGHT: 12 FT ; DIAMETER: 5 FT A/N: 469266	D76	D9 D33			

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| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 2: COKING AND RESIDUAL CONDITIONING</b>					P13.1
DRUM, CRUDE DECOKING QUENCH, V-1389, HEIGHT: 15 FT ; DIAMETER: 10 FT A/N: 469266	D77	D9 D33			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469266	D1367			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.5
<b>System 8: COKE HANDLING, SCREENING AND LOADING</b>					S7.1, S13.3
HOPPER, RECEIVING, QQ-942, PETROLEUM COKE, PORTABLE A/N:	D1155			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
STORAGE BUILDING, PETROLEUM COKE BARN A/N:	D1438			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
FEEDER, SPREADER, QQ-943, PORTABLE, PETROLEUM COKE A/N:	D1160			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-944, PETROLEUM COKE, PORTABLE A/N:	D1156			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-950, PETROLEUM COKE, WITH AN ENCLOSED TRANSFER POINT, 733 FEET LONG A/N:	D1157			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-951, PETROLEUM COKE, COVERED, 33 FEET LONG, WITH AN ENCLOSED TRANSFER POINT A/N:	D1158			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1

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

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## 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
<b>Process 2: COKING AND RESIDUAL CONDITIONING</b>					P13.1
CONVEYOR, BELT, QQ-952, PETROLEUM COKE, COVERED, 414 FEET LONG, WITH AN ENCLOSED TRANSFER POINT A/N:	D1159			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-968-971, 4 TOTAL, PETROLEUM COKE, COVERED, EACH 14 FEET LONG A/N:	D41			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
SCREEN, CLASSIFYING, QQ-964-967, PETROLEUM COKE, 4 TOTAL, DOUBLE-DECK VIBRATING TYPE, WIDTH: 8 FT ; LENGTH: 20 FT A/N:	D45			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-954/955, 2 TOTAL, PETROLEUM COKE, COVERED, REVERSIBLE TYPE, EA. W/ AN ENCLOSED TRANSFER POINT, AND EA 61 FT LONG A/N:	D49			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-959, PETROLEUM COKE, COVERED, WITH AN ENCLOSED TRANSFER POINT, 185 FEET LONG A/N:	D46			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, QQ-960, PETROLEUM COKE, COVERED, SHUTTLE BELT TYPE, WITH AN ENCLOSED TRANSFER POINT, 80 FEET LONG A/N:	D47			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1

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 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
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 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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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
<b>Process 2: COKING AND RESIDUAL CONDITIONING</b>					P13.1
HOPPER, RAIL CAR LOADING, QQ-945, PETROLEUM COKE, THREE 45 TON CAPACITY SECTIONS WITH  A/N:  LOADING ARM, RAIL CAR, LOADING CHUTE, 3 TOTAL, PETROLEUM COKE, EACH WITH AN ELEVATION HOIST AND AN EXTENSION DRIVE	D1162			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-956, PETROLEUM COKE, COVERED, WITH AN ENCLOSED TRANSFER TOWER, 255 FEET LONG  A/N:	D1161			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-957, PETROLEUM COKE, COVERED, WITH AN ENCLOSED TRANSFER POINT, 152 FEET LONG  A/N:	D1164			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, QQ-958, PETROLEUM COKE, SHUTTLE BELT TYPE, 52 FEET LONG, WITH A FEEDER  A/N:	D1165			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
<b>System 9: COKE HANDLING</b>					S7.2, S13.3

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 (4) Denotes BACT emission limit  
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 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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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
<b>Process 2: COKING AND RESIDUAL CONDITIONING</b>					P13.1
LOADING ARM, COKE PIT BRIDGE CRANE, QQ-109, PETROLEUM COKE, WITH A CLAMSHELL LOADER, 6 CU.YD. WITH A/N: 469267  HOPPER, RECEIVING, PETROLEUM COKE  FEEDER, GRIZZLY BAR, PETROLEUM COKE  CRUSHER, DOUBLE-ROLL TYPE, PETROLEUM COKE  FEEDER, VIBRATING TYPE, PETROLEUM COKE	D1170			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-916, PETROLEUM COKE, WITH AN ENCLOSED TRANSFER POINT, 294 FEET LONG A/N: 469267	D1093			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-917, PETROLEUM COKE, WITH AN ENCLOSED TRANSFER POINT, 602 FEET LONG A/N: 469267	D1094			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-918, PETROLEUM COKE, WITH AN ENCLOSED TRANSFER POINT, 422 FEET LONG A/N: 469267	D1173			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1

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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.)  
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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
<b>Process 2: COKING AND RESIDUAL CONDITIONING</b>					P13.1
CONVEYOR, BELT, QQ-919, PETROLEUM COKE, WITH AN ENCLOSED TRANSFER POINT, 496 FEET LONG A/N: 469267	D1174			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-920, PETROLEUM COKE, WITH AN ENCLOSED TRANSFER POINT, 1144 FEET LONG A/N: 469267	D1175			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-921, PETROLEUM COKE, WITH A WIPER SYSTEM AND AN ENCLOSED TRANSFER POINT, 360 FEET LONG A/N: 469267	D1176			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-940, PETROLEUM COKE, WITH AN ENCLOSED TRANSFER POINT, 129 FEET LONG A/N: 469267	D1177			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
CONVEYOR, QQ-941, PETROLEUM COKE, SHUTTLE BELT TYPE, 170 FEET LONG, WITH A FEEDER A/N: 469267	D1178			PM: (9) [RULE 405, 2-7-1986]	A63.6, D323.1
<b>System 10: VACUUM DISTILLATION</b>					S13.4, S15.2
TOWER, VACUUM, FC-104 (V-899), HEIGHT: 72 FT ; DIAMETER: 16 FT A/N: 469268	D12				
VESSEL, VACUUM JET HOT WELL, FC-132 (V-928), LENGTH: 20 FT ; DIAMETER: 4 FT A/N: 469268	D13				

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

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: COKING AND RESIDUAL CONDITIONING</b>					P13.1
ABSORBER, AMINE, FC-160 (V-937), VACUUM VENT GAS, HEIGHT: 28 FT 6 IN; DIAMETER: 3 FT A/N: 469268	D14				
EJECTOR, E-1568 & E-1569, 1ST STAGE CONDENSER, TWO TOTAL A/N: 469268	D1558				H23.30
EJECTOR, E-1017 & E-1018, 2ND STAGE CONDENSER, TWO TOTAL A/N: 469268	D1559				H23.30
EJECTOR, E-1019 & E-1020, 3RD STAGE CONDENSER, TWO TOTAL A/N: 469268	D1560				H23.30
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469268	D1557			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.5
<b>Process 3: FLUID CATALYTIC CRACKING (FCCU)</b>					P13.1
<b>System 1: FCCU RECOVERY SECTION</b>					S13.4, S15.2, S15.12, S31.1
ABSORBER, V-406, HEIGHT: 64 FT 4 IN; DIAMETER: 4 FT 6 IN A/N:	D78				
TOWER, SPLITTER, HEAVY NAPHTHA, V-407, HEIGHT: 47 FT ; DIAMETER: 5 FT 6 IN A/N:	D1267				
TOWER, RERUN, V-408, HEIGHT: 82 FT ; DIAMETER: 7 FT A/N:	D1268				
TOWER, SPLITTER, LIGHT NAPHTHA, V-409, HEIGHT: 60 FT ; DIAMETER: 8 FT 6 IN A/N:	D1269				

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

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: FLUID CATALYTIC CRACKING (FCCU)</b>					P13.1
COLUMN, DEPROPANIZER, V-410, HEIGHT: 80 FT ; DIAMETER: 6 FT A/N:	D908				
ACCUMULATOR, V-413, HEIGHT: 10 FT ; DIAMETER: 5 FT A/N:	D79				
DRUM, V-414, RERUN REFLUX A/N:	D915				
ACCUMULATOR, V-415, SPLITTER TOWER REFLUX, HEIGHT: 19 FT ; DIAMETER: 5 FT 7 IN A/N:	D80				
ACCUMULATOR, V-416, DEPROPANIZER TOWER REFLUX, LENGTH: 19 FT ; DIAMETER: 6 FT 6 IN A/N:	D81				
DRUM, DRYING, LOW PRESSURE, V-419, HEIGHT: 20 FT ; DIAMETER: 10 FT A/N:	D82				
VESSEL, SEPARATOR, HIGH PRESSURE, V-422, LENGTH: 19 FT ; DIAMETER: 8 FT A/N:	D83				
VESSEL, SURGE, V-423, AVGAS CHARGE, HEIGHT: 19 FT ; DIAMETER: 7 FT 7 IN A/N:	D84				
DRUM, DRYING, V-424, RERUN TOWER GAS, HEIGHT: 10 FT ; DIAMETER: 3 FT 6 IN A/N:	D85				

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: FLUID CATALYTIC CRACKING (FCCU)</b>					P13.1
KNOCK OUT POT, FLARE, V-431, LENGTH: 13 FT ; DIAMETER: 6 FT A/N:	D1271				
DRUM, PRESSURE RELIEVING SEAL, V-432, HEIGHT: 43 FT ; DIAMETER: 4 FT 4 IN A/N:	D86			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	
POT, DEETHANIZER WATER DRAIN, V-547, HEIGHT: 6 FT ; DIAMETER: 1 FT 6 IN A/N:	D1273				
DRUM, WATER DRAW-OFF, V-675, LENGTH: 4 FT 8 IN; DIAMETER: 4 FT A/N:	D1275				
KNOCK OUT POT, VAPOR RECOVERY, V-676, LENGTH: 4 FT 4 IN; DIAMETER: 2 FT A/N:	D1272				
KNOCK OUT POT, V-1100, NAPHTHA, LENGTH: 12 FT 6 IN; DIAMETER: 3 FT A/N:	D912				
TOWER, DEBUTANIZER, V-1547, HEIGHT: 100 FT 6 IN; DIAMETER: 7 FT A/N:	D1280				
COLUMN, DEETHANIZER, V-1548, HEIGHT: 12 FT 6 IN; DIAMETER: 6 FT A/N:	D910				

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: FLUID CATALYTIC CRACKING (FCCU)</b>					P13.1
ACCUMULATOR, V-1549, DEBUTANIZER REFLUX, HEIGHT: 20 FT ; DIAMETER: 7 FT A/N:	D913				
KNOCK OUT POT, V-1789, PROPANE/PROPYLENE, HEIGHT: 8 FT 6 IN; DIAMETER: 24 FT A/N:	D909				
COMPRESSOR, RERUN TOWER GAS, C-43/44, 2 TOTAL, 4 CYLINDERS A/N:	D87				
COMPRESSOR, C-142, WET GAS A/N:	D918				H23.4
VESSEL, SEPARATOR, HIGH PRESSURE, V-2343, LENGTH: 22 FT ; DIAMETER: 8 FT A/N:	D1597				
VESSEL, SEPARATOR, SOUR WATER FLASH , V-2344, LENGTH: 25 FT ; DIAMETER: 8 FT 6 IN A/N:	D1598				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1365			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.16
<b>System 2: FCCU CRACKING SECTION</b>					S13.4, S15.2, S15.3, S15.12
FRACTIONATOR, V-386, WITH PRV TO ATMOSPHERE, HEIGHT: 62 FT ; DIAMETER: 16 FT A/N:	D93				

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 3: FLUID CATALYTIC CRACKING (FCCU)</b>					P13.1
COLUMN, STRIPPER 3, V-387, LIGHT CYCLE GAS OIL, HEIGHT: 18 FT 6 IN; DIAMETER: 3 FT A/N:	D94				
ACCUMULATOR, V-388, FRACTIONATOR REFLUX, HEIGHT: 23 FT ; DIAMETER: 11 FT A/N:	D95			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	
HOPPER, FRESH CAT., V-389, HEIGHT: 41 FT 7 IN; DIAMETER: 30 FT A/N:	D1283			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, USED CAT., V-390, HEIGHT: 41 FT 7 IN; DIAMETER: 30 FT A/N:	D1284			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, 10-TON SOX CATALYST ADDITIVE, V-1703, HEIGHT: 41 FT 7 IN; DIAMETER: 30 FT A/N:	D1532			PM: (9) [RULE 405, 2-7-1986]	D323.1

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

\*\* 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
<b>Process 3: FLUID CATALYTIC CRACKING (FCCU)</b>					P13.1
REGENERATOR, V-404, HEIGHT: 42 FT 6 IN; DIAMETER: 42 FT WITH A/N:	D96	C1575 C1576 C1577 D1664	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 500 PPMV (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; HAP: (10) [40CFR 63 Subpart UUU, #2, 4-20-2006]; PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 2 LBS/TON (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]; PM10: 2.8 LBS/1000 BBLS (5A) [RULE 1105.1, 11-7-2003]; PM10: 3.6 LBS/HR (5) [RULE 1105.1, 11-7-2003]	A63.7, B61.4, D29.1, D82.2, D90.8, H23.32
BLOWER, B-19, COMBUSTION AIR, 4500 HP					
REACTOR, V-405, HEIGHT: 38 FT 9 IN; DIAMETER: 27 FT A/N:	D97				
DRUM, DRYING, V-426, FUEL GAS, HEIGHT: 10 FT 6 IN; DIAMETER: 4 FT A/N:	D919				
KNOCK OUT POT, FLARE DRUM, V-434, FCCU, LENGTH: 16 FT ; DIAMETER: 8 FT A/N:	D749				
COLUMN, STRIPPER, V-494, INTERMEDIATE GAS OIL, HEIGHT: 18 FT 6 IN; DIAMETER: 3 FT A/N:	D1285				

\* (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
<b>Process 3: FLUID CATALYTIC CRACKING (FCCU)</b>					P13.1
DRUM, FRESH CAT. LOADING, V-822, HEIGHT: 1 FT 8 IN; DIAMETER: 1 FT 6 IN A/N:	D1287			PM: (9) [RULE 405, 2-7-1986]	D323.1
DRUM, CO PROMOTER LOADING, V-1355, HEIGHT: 1 FT 8 IN; DIAMETER: 1 FT 6 IN A/N:	D1288			PM: (9) [RULE 405, 2-7-1986]	D323.1
DRUM, HOT CHARGE SURGE, V-1364, HEIGHT: 35 FT 6 IN; DIAMETER: 14 FT A/N:	D1289				
KNOCK OUT POT, V-641, CO BOILER FUEL GAS A/N:	D916				
VESSEL, SEPARATOR, INTERMEDIATE, V-1696, (F-160) A/N:	D917				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1366			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.5
<b>System 3: FCCU HEATERS</b>					

\* (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
<b>Process 3: FLUID CATALYTIC CRACKING (FCCU)</b>					P13.1
HEATER, H-2, REFINERY GAS, WITH LOW NOX BURNER, 37.4 MMBTU/HR WITH A/N: 469270  BURNER, 4 BURNERS, REFINERY GAS, WITH LOW NOX BURNER, 37.4 MMBTU/HR	D92		NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 100.6 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]	B61.1, D90.7, D328.2, H23.3
HEATER, H-3, REFINERY GAS, 94.7 MMBTU/HR WITH A/N: 470270  BURNER, REFINERY GAS, JOHN ZINK, MODEL HEVD-14, WITH LOW NOX BURNER, 52 TOTAL; 94.7 MMBTU/HR	D89	S50	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 0.1 LBS/MMBTU (5) [ CONSENT DECREE, 3-21-2001]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A229.1, B61.1, D90.7, D328.1, H23.3

\* (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
<b>Process 3: FLUID CATALYTIC CRACKING (FCCU)</b>					P13.1
HEATER, H-4, REFINERY GAS, 127.2 MMBTU/HR WITH A/N: 470271  BURNER, REFINERY GAS, JOHN ZINK, MODEL HEVD-14, WITH LOW NOX BURNER, 72 TOTAL; 127.2 MMBTU/HR	D90	S50	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 0.1 LBS/MMBTU (5) [ CONSENT DECREE, 3-21-2001]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A229.1, B61.1, D90.7, D328.1, H23.3
STACK A/N: 470271	S50	D89 D90			
HEATER, H-5, REFINERY GAS, 44 MMBTU/HR A/N: 469272	D91		NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 83.8 PPMV REFINERY GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.1, C1.15, D90.7, D328.1, E313.1, E315.1, H23.3
HEATER, START UP, B-1, NATURAL GAS, 84 MMBTU/HR A/N: 473467	D1664	D96	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]	
<b>System 4: FCCU NAPHTHA TREATING</b>					S13.4, S15.3
VESSEL, SEPARATOR, PHASE, V-1832, HEIGHT: 24 FT ; DIAMETER: 6 FT 6 IN A/N: 469275	D99				
VESSEL, SEPARATOR, PHASE, V-1833, HEIGHT: 24 FT ; DIAMETER: 5 FT 6 IN A/N: 469275	D100				

- |   |   |
|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 3: FLUID CATALYTIC CRACKING (FCCU)</b>					P13.1
POT, V-1835, FILM FIBER CONTACTOR, HEIGHT: 14 FT 6 IN; DIAMETER: 3 FT A/N: 469275	D104				
POT, V-1836, FILM-FIBER CONTACTOR, HEIGHT: 14 FT 6 IN; DIAMETER: 3 FT A/N: 469275	D105				
TANK, INHIBITOR, T-165, HEIGHT: 8 FT 6 IN; DIAMETER: 5 FT A/N: 469275	D1292				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469275	D1443			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.5
<b>System 5: FCCU GAS TREATING</b>					S13.4, S15.2, S18.5
SCRUBBER, H2S GAS, V-1680, LENGTH: 15 FT ; DIAMETER: 3 FT A/N: 469276	D1293				
KNOCK OUT POT, V-278, HEIGHT: 6 FT ; DIAMETER: 3 FT A/N: 469276	D1294				
ABSORBER, PROPYLENE, V-1681, HEIGHT: 65 FT 6 IN; DIAMETER: 2 FT 6 IN A/N: 469276	D1295				
ABSORBER, H2S, V-1672, HEIGHT: 65 FT 6 IN; DIAMETER: 2 FT 6 IN A/N: 469276	D1296				
KNOCK OUT POT, V-569, NAPHTHA, HEIGHT: 13 FT ; DIAMETER: 3 FT A/N: 469276	D107				

- \* (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
<b>Process 3: FLUID CATALYTIC CRACKING (FCCU)</b>					P13.1
SCRUBBER, H2S GAS, V-1100, LENGTH: 15 FT ; DIAMETER: 3 FT A/N: 469276	D1297				
VESSEL, COALESCER, V-1551, PROPYLENE, HEIGHT: 7 FT ; DIAMETER: 2 FT A/N: 469276	D103				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469276	D1444			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.5
<b>System 8: FCCU CATALYST ADDITIVE LOADER</b>					
VESSEL, CATALYST, V-2340, GRACE DAVISON, 6 CUFT VOLUME, LENGTH: 2 FT 3 IN; DIAMETER: 2 FT A/N: 469277	D1573			<b>PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]</b>	B27.1, E71.13
FILTER, DUST COLLECTOR, V-2342, WITH 2 FILTER CATRIDGE, 590 SQUARE FEET FILTER AREA, WITH AUTOMATIC AIR PULSE CLEANING AFTER EACH INJECTION A/N: 469277	C1574				C6.3, D29.6, D322.2, D323.1, E102.1
<b>System 9: FCCU BOILER</b>					
BOILER, BO-1, CO WASTE HEAT, REFINERY GAS, WITH LOW NOX BURNER, 300 MMBTU/HR WITH A/N: 470272  BURNER, REFINERY GAS, BABCOCK WILCOX, WITH LOW NOX BURNER, 6 TOTAL; 300 MMBTU/HR	D112	S51 C1575 C1576 C1577	NOX: MAJOR SOURCE**, SOX: MAJOR SOURCE**	<b>CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]</b>	A63.4, B61.1, D90.7, D328.1, H23.3

- \* (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
<b>Process 4: HYDROTREATING</b>					P13.1
<b>System 1: HYDROTREATING UNIT NO. 1</b>					S13.4, S15.2, S15.3, S15.13, S31.1
SCRUBBER, DEA, V-598, RERUN ACCUMULATOR OFF-GAS, HEIGHT: 10 FT 8 IN; DIAMETER: 8 FT A/N: 470275	D1180				
TOWER, DEGUMMER, V-619, HEIGHT: 27 FT ; DIAMETER: 5 FT A/N: 470275	D1182				
TOWER, RERUN, V-621, HEIGHT: 55 FT ; DIAMETER: 5 FT A/N: 470275	D1183				
TANK, SURGE, V-2240, LENGTH: 24 FT ; DIAMETER: 8 FT A/N: 470275	D1508				
VESSEL, SEPARATOR, HIGH PRESSURE, V-622, HEIGHT: 16 FT 6 IN; DIAMETER: 6 FT WITH  POT, SEPARATOR, H2S-WATER, HEIGHT: 2 FT ; DIAMETER: 8 IN	D115				
COLUMN, STRIPPER, V-620, HEIGHT: 57 FT ; DIAMETER: 4 FT A/N: 470275	D114				
REACTOR, FC-201 (V-626), HEIGHT: 24 FT ; DIAMETER: 7 FT 6 IN A/N: 470275	D1351				
VESSEL, V-2270, NAPHTHA FEED COALESCER, LENGTH: 14 FT ; DIAMETER: 54 FT A/N: 470275	D1510				

- |   |   |
|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 4: HYDROTREATING</b>					P13.1
ACCUMULATOR, STRIPPER, V-623, HEIGHT: 7 FT ; DIAMETER: 3 FT WITH A/N: 470275  POT, SEPARATOR, H2S-WATER, HEIGHT: 2 FT 7 IN; DIAMETER: 8 IN	D1184				
ACCUMULATOR, V-624, TOWER RERUN, HEIGHT: 12 FT ; DIAMETER: 4 FT A/N: 470275	D117				
POT, V-1137/V-2012, SOUR WATER DRAW OFF A/N: 470275	D1332				
DRUM, DECOKING QUENCH, V-625, HEIGHT: 10 FT ; DIAMETER: 3 FT A/N: 470275	D1343	D194 D216 D217			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470275	D1446			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.16
<b>System 2: HYDROTREATING UNIT NO. 1 HEATERS</b>					
HEATER, H-31, REFINERY GAS, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 45 MMBTU/HR WITH A/N: 469279  BURNER, REFINERY GAS, WITH LOW NOX BURNER, 45 MMBTU/HR	D120		NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	<b>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]</b>	A63.4, B61.1, D90.7, D328.1, H23.3

- \* (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
<b>Process 4: HYDROTREATING</b>					P13.1
<b>System 3: HYDROTREATING UNIT NO. 2</b>					S11.2, S13.4, S15.2, S15.3, S15.13, S31.1
REACTOR, HYDROTREATER REACTOR NO. 1, V-724, HEIGHT: 21 FT 9 IN; DIAMETER: 7 FT 6 IN A/N: 470276	D121				
COLUMN, H2S STRIPPER, V-726, H2S, HEIGHT: 49 FT ; DIAMETER: 6 FT A/N: 470276	D130				
ACCUMULATOR, V-727, STRIPPER OVERHEAD, HEIGHT: 12 FT ; DIAMETER: 3 FT 6 IN A/N: 470276	D131				
DRUM, INHIBITOR BLENDING, V-729, HEIGHT: 5 FT ; DIAMETER: 3 FT 6 IN A/N: 470276	D122				
REACTOR, 1ST STAGE MAIN, V-2237, LENGTH: 20 FT 3 IN; DIAMETER: 9 FT 6 IN A/N: 470276	D1511				
VESSEL, PRETREAT REACTOR, V-2143, LENGTH: 28 FT 6 IN; DIAMETER: 8 FT A/N: 470276	D1512				
TOWER, STRIPPER, V-2238, HEIGHT: 20 FT 9 IN; DIAMETER: 6 FT 6 IN A/N: 470276	D1513				

\* (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
<b>Process 4: HYDROTREATING</b>					P13.1
REACTOR, 2ND STAGE MAIN, V-740, HEIGHT: 21 FT 9 IN; DIAMETER: 7 FT 6 IN A/N: 470276	D123				
VESSEL, HIGH PRESSURE SEPARATOR, V-725, HEIGHT: 20 FT 9 IN; DIAMETER: 6 FT 6 IN A/N: 470276	D129				
DRUM, CHARGE, V-1474, NAPHTHA, HEIGHT: 30 FT ; DIAMETER: 12 FT A/N: 470276	D134				
COMPRESSOR, RECIPROCATING, C-72, HYDROTREATER BOOSTER/RECYCLE GAS A/N: 470276	D140				H23.4
SCRUBBER, V-812, SEP GAS, LENGTH: 4 FT 4 IN; DIAMETER: 1 FT 6 IN A/N: 470276	D1187				
DRUM, LIQUID RECEIVER, V-814, LENGTH: 3 FT ; DIAMETER: 1 FT A/N: 470276	D1188				
VESSEL, DEGASSING, V-728, HEIGHT: 7 FT ; DIAMETER: 3 FT A/N: 470276	D132				A63.2
DRUM, DECOKING QUENCH, V-15 A/N: 470276	D1333	D194 D216 D217			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470276	D1447			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.16
<b>System 4: HYDROTREATING UNIT NO. 2 HEATERS</b>					

- \* (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
<b>Process 4: HYDROTREATING</b>					P13.1
HEATER, H-500, REFINERY GAS, 69 MMBTU/HR A/N: 469913	D146		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]	A63.4, B61.1, D90.7, D328.1, H23.3
<b>System 5: HYDROTREATING UNIT NO. 3</b>					S13.4, S15.2, S15.3, S15.13
VESSEL, SEPARATOR, HIGH PRESSURE, V-767, HEIGHT: 71 FT ; DIAMETER: 6 FT 6 IN A/N: 469915	D147				
DRUM, V-773, SOUR WATER, LENGTH: 26 FT 6 IN; DIAMETER: 4 FT 6 IN A/N: 469915	D159				
DRUM, SURGE, V-774, CONDENSATE, HEIGHT: 9 FT 6 IN; DIAMETER: 3 FT 6 IN A/N: 469915	D148				
REACTOR, V-768/769, 2 TOTAL, HEIGHT: 28 FT ; DIAMETER: 7 FT A/N: 469915	D1189				
VESSEL, SEPARATOR, LOW PRESSURE, V-770, HEIGHT: 25 FT 6 IN; DIAMETER: 4 FT 6 IN A/N: 469915	D149				
VESSEL, FILTER, AVJET, V-1507, HEIGHT: 15 FT ; DIAMETER: 12 FT A/N: 469915	D1668				
VESSEL, SEPARATOR, AVJET, V1508/1509, 2 TOTAL, HEIGHT: 6 FT 9 IN; DIAMETER: 12 FT .75 IN A/N: 469915	D1669				

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 4: HYDROTREATING</b>					P13.1
ACCUMULATOR, V-771, H2S STRIPPER OVERHEAD, LENGTH: 26 FT 6 IN; DIAMETER: 2 FT 6 IN A/N: 469915	D1191				
DRUM, CHARGE, V-1471, DIESEL, HEIGHT: 17 FT 6 IN; DIAMETER: 8 FT 6 IN A/N: 469915	D153				
COLUMN, STRIPPER, V-1475, H2S, HEIGHT: 86 FT 6 IN; DIAMETER: 7 FT A/N: 469915	D155				
COMPRESSOR, C-86, RECYCLE GAS A/N: 469915	D1194				H23.4
COMPRESSOR, C-77, MAKEUP GAS A/N: 469915	D156				H23.4
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469915	D1448			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.16
<b>System 6: HYDROTREATING UNIT NO. 3 HEATERS</b>					
HEATER, H-30, REFINERY GAS, WITH LOW NOX BURNER, 48.6 MMBTU/HR WITH A/N: 469917  BURNER, 8 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 48.6 MMBTU/HR	D157		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]	B61.1, D90.7, D328.1, H23.3
HEATER, H-21/H-22, REFINERY GAS, 203.8 MMBTU/HR A/N: 469919	D158		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]	B61.1, D90.7, D328.1, H23.3

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 4: HYDROTREATING</b>					P13.1
<b>System 7: FCCU FEED HYDRODESULFURIZATION UNIT NO. 4</b>					S11.2, S13.2, S13.4, S15.2, S15.3, S15.10, S31.1
REACTOR, GUARD, V-1740, HEIGHT: 21 FT 11 IN; DIAMETER: 12 FT 7 IN A/N: 470277	D1195				
REACTOR, V-1741, HEIGHT: 31 FT 11 IN; DIAMETER: 12 FT 7 IN A/N: 470277	D1326				
COLUMN, H2S STRIPPER, V-1755, HEIGHT: 59 FT 6 IN; DIAMETER: 10 FT 6 IN A/N: 470277	D160				
FRACTIONATOR, V-1757, HEIGHT: 70 FT 6 IN; DIAMETER: 8 FT 6 IN A/N: 470277	D168				
COLUMN, STRIPPER, V-867, DIESEL, HEIGHT: 22 FT 8 IN; DIAMETER: 3 FT 6 IN A/N: 470277	D244				
VESSEL, DRIER, V-1374, DIESEL PRODUCT, HEIGHT: 36 FT 6 IN; DIAMETER: 9 FT A/N: 470277	D3				
ABSORBER, AMINE, V-1759, HEIGHT: 49 FT 9 IN; DIAMETER: 2 FT A/N: 470277	D161				
ABSORBER, AMINE, V-1761, HEIGHT: 58 FT ; DIAMETER: 4 FT A/N: 470277	D162				

- \* (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
<b>Process 4: HYDROTREATING</b>					P13.1
DRUM, SURGE, V-1751, FEED, HEIGHT: 43 FT ; DIAMETER: 13 FT 6 IN A/N: 470277	D163				
ABSORBER, AMINE/COLD HIGH PRESSURE SEPARATOR, V-2231, HEIGHT: 42 FT ; DIAMETER: 4 FT 7 IN A/N: 470277	D164				
DRUM, FLASH, RICH AMINE, V-2234, HEIGHT: 15 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: 470277	D1503				
VESSEL, SEPARATOR, LOW PRESSURE, V-1753, HEIGHT: 30 FT 6 IN; DIAMETER: 8 FT 10 IN A/N: 470277	D165				
DRUM, V-1816, WWS REBOILER CONDENSATE A/N: 470277	D1334				
DRUM, V-1684, OFFGAS DCU CONDITIONER A/N: 470277	D1335				
ACCUMULATOR, V-2161, STRIPPER OVERHEAD A/N: 470277	D106				
ACCUMULATOR, V-1758, FRACTIONATOR OVERHEAD, HEIGHT: 12 FT ; DIAMETER: 4 FT 6 IN A/N: 470277	D167			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	

- \* (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
<b>Process 4: HYDROTREATING</b>					P13.1
KNOCK OUT POT, V-1760, AMINE ABSORBER FEED, HEIGHT: 10 FT ; DIAMETER: 3 FT A/N: 470277	D169				
KNOCK OUT POT, V-1762, AMINE ABSORBER OVERHEAD, HEIGHT: 10 FT ; DIAMETER: 3 FT A/N: 470277	D170				
DRUM, V-1765, WASH WATER, LENGTH: 13 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: 470277	D173				
DRUM, FLASH, V-1766, SOUR WATER, HEIGHT: 17 FT ; DIAMETER: 5 FT 6 IN A/N: 470277	D174				
DRUM, V-1815, WWS CONDENSATE A/N: 470277	D1336				
COMPRESSOR, C-134, RECYCLE GAS, 3000 HP A/N: 470277	D176				H23.4
VESSEL, SEPARATOR, V-2049, HOT HIGH PRESSURE, HEIGHT: 18 FT ; DIAMETER: 7 FT 6 IN A/N: 470277	D1112				
DRUM, V-1814, WWS, HEIGHT: 30 FT 9 IN; DIAMETER: 12 FT A/N: 470277	D502				
COLUMN, STRIPPER, V-2350, WASH WATER A/N: 470277	D188				

\* (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
<b>Process 4: HYDROTREATING</b>					P13.1
FILTER, FEED, V-1808/09, 2 TOTAL, HEIGHT: 6 FT 9 IN; DIAMETER: 3 FT 6 IN A/N: 470277	D1566				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470277	D1449			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.16
<b>System 8: FCCU FEED HYDRODESULFURIZATION UNIT NO. 4 HEATERS</b>					
HEATER, H-41, REFINERY GAS, WITH LOW NOX BURNER, 63.2 MMBTU/HR WITH A/N: 469929  BURNER, REFINERY GAS, WITH LOW NOX BURNER, 63.2 MMBTU/HR	D770	C771	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 12 PPMV (4) [RULE 2005, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.4, B61.1, D90.7, D328.1, E54.7, H23.3
SELECTIVE CATALYTIC REDUCTION, HALDOR TOPSOE DNX 930, FIXED BED REACTOR, VANADIA-TITANIA CATALYST, PLATE TYPE, 144.8 CU.FT. WITH A/N: 469930  INJECTOR, AMMONIA, WITH AMMONIA INJECTION	C771	D770 S989		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	D12.1, D28.4, D29.7, E71.7
STACK A/N: 469930	S989	C771			
<b>System 9: FUEL GAS TREATING SYSTEM</b>					S13.4, S15.2, S18.4

\* (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
<b>Process 4: HYDROTREATING</b>					P13.1
TOWER, V-598, GAS WASH, HEIGHT: 69 FT ; DIAMETER: 5 FT A/N:	D192				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1380				H23.16
<b>Process 5: CATALYTIC REFORMING</b>					P13.1
<b>System 1: BENSAT</b>					S13.4, S15.2, S15.3, S31.1
DRUM, SURGE, V-2070, FEED A/N: 470280	D976				
VESSEL, V-606, SULFUR GUARD BED, HEIGHT: 12 FT ; DIAMETER: 5 FT A/N: 470280	D977				
REACTOR, V-607, HEIGHT: 24 FT ; DIAMETER: 5 FT A/N: 470280	D1061				
GAS SEPARATOR, V-611, REACTOR EFFLUENT A/N: 470280	D979				
COLUMN, STABILIZER, V-595 A/N: 470280	D980				
ACCUMULATOR, STABILIZER, V-608, HEIGHT: 18 FT ; DIAMETER: 3 FT 6 IN A/N: 470280	D1071				
POT, V-1999, STABILIZER REBOILER CONDENSATE, HEIGHT: 4 FT 11 IN; DIAMETER: 2 FT A/N: 470280	D1337				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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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 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
<b>Process 5: CATALYTIC REFORMING</b>					P13.1
COMPRESSOR, C-152, H2 MAKE-UP A/N: 470280	D1338				H23.4
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470280	D1381			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.16
<b>System 2: CATALYTIC REFORMING UNIT NO. 1 HEATERS</b>					
HEATER, H-11, PROCESS GAS, WITH LOW NOX BURNER, 81 MMBTU/HR WITH A/N: 469957  BURNER, REFINERY GAS, JOHN ZINK, PSFFG-30, WITH LOW NOX BURNER, 81 MMBTU/HR	D194	D1333 D1343	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 83.8 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]	B61.1, C1.15, D90.7, D328.1, E313.1, E315.1, H23.3
HEATER, H-20, REFINERY GAS, WITH LOW NOX BURNER, 76.8 MMBTU/HR WITH A/N: 469958  BURNER, REFINERY GAS, JOHN ZINK, PSFFG-30A AND PSFFG-10A, WITH LOW NOX BURNER, 76.8 MMBTU/HR	D196		NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 83.8 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]	B61.1, C1.15, D90.7, D328.1, E313.1, E315.1, H23.3
<b>System 3: CATALYTIC REFORMING UNIT NO. 2</b>					S13.4, S15.2, S15.3, S31.1
REACTOR, NO. 1, V-735, HEIGHT: 14 FT ; DIAMETER: 12 FT 6 IN A/N: 470283	D1197			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	

\* (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
<b>Process 5: CATALYTIC REFORMING</b>					P13.1
REACTOR, NO. 2, V-736, HEIGHT: 21 FT ; DIAMETER: 12 FT 6 IN A/N: 470283	D1198			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
REACTOR, NO. 3A, V-737, HEIGHT: 20 FT ; DIAMETER: 12 FT 6 IN A/N: 470283	D1199			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
REACTOR, NO. 3B, V-738, HEIGHT: 14 FT ; DIAMETER: 12 FT 6 IN A/N: 470283	D1200			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
VESSEL, SEPARATOR, V-739, REACTOR PRODUCT, LENGTH: 24 FT ; DIAMETER: 9 FT 6 IN A/N: 470283	D197				
COLUMN, DEBUTANIZER, V-741, HEIGHT: 75 FT ; DIAMETER: 7 FT A/N: 470283	D198				
VESSEL, RECEIVER, V-742, DEBUTANIZER PRODUCT, LENGTH: 20 FT ; DIAMETER: 5 FT A/N: 470283	D199				
COLUMN, SPLITTER, V-743, HEIGHT: 72 FT 6 IN; DIAMETER: 8 FT A/N: 470283	D200				
VESSEL, RECEIVER, V-744, SPLITTER PRODUCT, LENGTH: 20 FT ; DIAMETER: 5 FT A/N: 470283	D201				
DRUM, HALIDE, V-746/747, 2 TOTAL, INJECTION CHEMICAL, HEIGHT: 5 FT ; DIAMETER: 1 FT 6 IN A/N: 470283	D203				

- \* (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
<b>Process 5: CATALYTIC REFORMING</b>					P13.1
TANK, PERCHLOROETHYLENE, 300 GALS; WIDTH: 4 FT ; HEIGHT: 3 FT 6 IN; LENGTH: 3 FT 6 IN A/N: 470283	D1120				C1.2, D90.19
DRUM, SURGE, V-2071, FEED PREP, HEAVY NAPHTHA, HEIGHT: 15 FT ; DIAMETER: 6 FT A/N: 470283	D1203				
VESSEL, V-2235, SULFUR GUARD BED, HEIGHT: 17 FT ; DIAMETER: 6 FT 5 IN A/N: 470283	D1501				
TOWER, FEED PREP, V-732, HEIGHT: 87 FT ; DIAMETER: 13 FT A/N: 470283	D1204				
TOWER, SIDE SPLITTER, V-733, HEIGHT: 29 FT ; DIAMETER: 6 FT A/N: 470283	D1205				
POT, V-1992, SPLITTER REBOILER CONDENSATE, HEIGHT: 6 FT ; DIAMETER: 3 FT A/N: 470283	D1206				
DRUM, V-2005, SPLITTER WATER DRAW, HEIGHT: 5 FT ; DIAMETER: 1 FT 6 IN A/N: 470283	D1207				
COMPRESSOR, C-73, RECYCLE GAS, CENTRIFUGAL, (VH-504) A/N: 470283	D209				
ACCUMULATOR, V-734, FEED PREP OVERHEAD, HEIGHT: 37 FT ; DIAMETER: 7 FT A/N: 470283	D210				

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| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 5: CATALYTIC REFORMING</b>					P13.1
ABSORBER, CARBON, V-2277, HYDROGEN CHLORIDE, DIAMETER: 5 FT 6 IN; HEIGHT: 18 FT A/N: 470284	D1525			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
KNOCK OUT POT, RECYCLE GAS CONDENSATE, V-2276; DIAMETER: 3 FT 6 IN; HEIGHT: 8 FT 6 IN A/N: 470284	D1526				
HEAT EXCHANGER, NET GAS RECYCLE COOLING, E-1858, 2.2 MMBTU/HR DUTY A/N: 470284	D1527				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470283	D1451			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.5
<b>System 4: CATALYTIC REFORMING UNIT NO. 2 HEATERS</b>					
HEATER, H-510, REFINERY GAS, WITH LOW NOX BURNER, 60 MMBTU/HR WITH A/N: 469960  BURNER, 6 BURNERS, REFINERY GAS, WITH LOW NOX BURNER, 60 MMBTU/HR	D218		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]	A63.4, B61.1, D90.7, D328.1, H23.3

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

\*\* 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
<b>Process 5: CATALYTIC REFORMING</b>					P13.1
HEATER, H-501A, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 31.4 MMBTU/HR WITH  A/N: 470285  BURNER, SIX BURNERS, JOHN ZINK MODEL NO. LM-116, REFINERY GAS, WITH LOW NOX BURNER, 31.4 MMBTU/HR	D216	C773 S990 D1333 D1343	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; 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]	A63.4, B61.1, D90.7, D328.2, E448.1, H23.3
HEATER, H-501B, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 31.4 MMBTU/HR WITH  A/N: 470286  BURNER, SIX BURNERS, JOHN ZINK MODEL NO. LM-116, REFINERY GAS, WITH LOW NOX BURNER, 31.4 MMBTU/HR	D217	C773 S990 D1333 D1343	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; 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]	A63.4, B61.1, D90.7, D328.2, E448.1, H23.3
HEATER, H-502, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 55.8 MMBTU/HR WITH  A/N: 469962  BURNER, REFINERY GAS, WITH LOW NOX BURNER, 55.8 MMBTU/HR	D214	C773 S990	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]	A63.4, B61.1, D90.7, D328.1, E448.1, H23.3

\* (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
<b>Process 5: CATALYTIC REFORMING</b>					P13.1
HEATER, H-503/504, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 36.1 MMBTU/HR WITH  A/N: 469964  BURNER, REFINERY GAS, WITH LOW NOX BURNER, 36.1 MMBTU/HR	D215	C773 S990	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; 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]	A63.4, B61.1, D90.7, D328.2, E448.1, H23.3
SELECTIVE CATALYTIC REDUCTION, HALDOR TOPSOE DNX 930, FIXED BED REACTOR, VANADIA-TITANIA CATALYST HONEYCOMB TYPE, 78 CU.FT. WITH  A/N: 469966  INJECTOR, AMMONIA, WITH AMMONIA INJECTION	C773	D214 D215 D216 D217 S990		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	D12.1, D28.4, D29.7, E71.7
STACK A/N: 469966	S990	D214 D215 D216 D217 C773			
<b>System 5: CATALYTIC REFORMING UNIT NO. 3</b>					S13.4, S15.2, S15.3, S31.1
DRUM, SURGE, V-855, PLATFORMER CHARGE, LENGTH: 30 FT ; DIAMETER: 10 FT A/N: 470287	D219				
REACTOR, NO. 1, V-856, HEIGHT: 21 FT ; DIAMETER: 7 FT A/N: 470287	D1208			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	

\* (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
<b>Process 5: CATALYTIC REFORMING</b>					P13.1
REACTOR, NO. 2, V-857, HEIGHT: 21 FT 6 IN; DIAMETER: 8 FT A/N: 470287	D1209			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
REACTOR, NO. 3, V-858, HEIGHT: 21 FT 6 IN; DIAMETER: 9 FT A/N: 470287	D1210			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
VESSEL, SEPARATOR, V-859, REACTOR PRODUCT, HEIGHT: 18 FT ; DIAMETER: 8 FT A/N: 470287	D220				
DRUM, FLASH, V-861, HEIGHT: 16 FT ; DIAMETER: 7 FT A/N: 470287	D221				
COLUMN, DEBUTANIZER, V-862, HEIGHT: 89 FT ; DIAMETER: 10 FT 6 IN A/N: 470287	D222				
VESSEL, RECEIVER, V-863, DEBUTANIZER PRODUCT, LENGTH: 20 FT ; DIAMETER: 6 FT A/N: 470287	D223				
COLUMN, DEPROPANIZER, V-864, HEIGHT: 92 FT ; DIAMETER: 4 FT A/N: 470287	D224				
VESSEL, RECEIVER, V-865, DEPROPANIZER PRODUCT, HEIGHT: 16 FT ; DIAMETER: 4 FT 6 IN A/N: 470287	D225				
COLUMN, DEPENTANIZER, V-866, HEIGHT: 98 FT ; DIAMETER: 10 FT A/N: 470287	D226				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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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 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
<b>Process 5: CATALYTIC REFORMING</b>					P13.1
VESSEL, DEPENTANIZER COLUMN RECEIVER, V-868, LENGTH: 20 FT ; DIAMETER: 8 FT A/N: 470287	D227			HAP: (10) [40CFR 63 Subpart CC, #1, 6-23-2003]	
TANK, PERCHLOROETHYLENE, 300 GALS; WIDTH: 4 FT ; HEIGHT: 3 FT 6 IN; LENGTH: 3 FT 6 IN A/N: 469967	D1121				C1.2, D90.19
DRUM, CHEMICAL INJECTION, V-870, HEIGHT: 4 FT ; DIAMETER: 1 FT A/N: 470287	D1212				
ABSORBER, CHLORIDE, V-1485, HEIGHT: 20 FT ; DIAMETER: 6 FT A/N: 470287	D1213			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
COMPRESSOR, C-89, RECYCLE GAS A/N: 470287	D229				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470287	D1384			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.5
<b>System 6: CATALYTIC REFORMING UNIT NO. 3 HEATERS</b>					
HEATER, H-200, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 82.2 MMBTU/HR WITH A/N: 469970  BURNER, REFINERY GAS, WITH LOW NOX BURNER, 82.2 MMBTU/HR	D247	C775 S992	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]	B61.1, D90.7, D328.1, E54.6, E54.16, H23.3

\* (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
<b>Process 5: CATALYTIC REFORMING</b>					P13.1
HEATER, H-201, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 49.9 MMBTU/HR WITH  A/N: 469974  BURNER, REFINERY GAS, WITH LOW NOX BURNER, 49.9 MMBTU/HR	D248	C775 S992	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]	B61.1, D90.7, D328.1, E54.6, E54.16, H23.3
HEATER, H-202, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 28.5 MMBTU/HR WITH  A/N: 469976  BURNER, REFINERY GAS, MCGILL, MODEL PSRGR-7, WITH LOW NOX BURNER, 28.5 MMBTU/HR	D249	C775 S992	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; 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]	B61.1, D90.7, D328.2, E54.6, E54.16, H23.3
SELECTIVE CATALYTIC REDUCTION, HALDOR TOPSOE DNX 940, FIXED BED REACTOR, VANADIA-TITANIA CATALYST, HONEYCOMB TYPE, 128 CU.FT. WITH  A/N: 469985  INJECTOR, AMMONIA, WITH AMMONIA INJECTION	C775	D247 D248 D249 S992		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	D12.1, D28.4, D29.7, E71.7
STACK A/N: 469985	S992	D247 D248 D249 C775			

- \* (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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## FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 5: CATALYTIC REFORMING</b>					P13.1
HEATER, H-203, REFINERY GAS, WITH LOW NOX BURNER, 35 MMBTU/HR WITH A/N: 469986  BURNER, REFINERY GAS, JOHN ZINK, MODEL PNDR-20M, WITH LOW NOX BURNER, 35 MMBTU/HR	D250		NOX: MAJOR SOURCE**, SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; 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]	B61.1, D90.7, D328.2, H23.3
HEATER, H-204, REFINERY GAS, 69 MMBTU/HR WITH A/N: 509650  BURNER, REFINERY GAS, JOHN ZINK, MODEL SMR-20, 4 TOTAL, WITH LOW NOX BURNER, 69 MMBTU/HR	D251		NOX: MAJOR SOURCE**, SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 41.6 PPMV REFINERY GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, B61.1, D90.7, D328.1, E313.1, E315.1, H23.3
<b>Process 6: HYDROGEN GENERATION</b>					P13.1
<b>System 1: HYDROGEN GENERATION UNIT NO. 1</b>					S2.1, S11.1, S13.4, S15.2, S15.3, S31.1
TANK, CONDENSATE, TK-7203, HEIGHT: 32 FT ; DIAMETER: 42 FT A/N: 470288	D1217				

\* (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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## FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 6: HYDROGEN GENERATION</b>					P13.1
COLUMN, WASHING/STRIPPING, V-1042, HEIGHT: 68 FT ; DIAMETER: 7 FT 6 IN A/N: 470288	D276				
COMPRESSOR, C-82 A/N: 470288	D922				H23.16
COMPRESSOR, C-83, DCU OFF GAS A/N: 470288	D923				H23.16
COMPRESSOR, C-84/85, HYDROGEN, 2 TOTAL A/N: 470288	D305				
SCRUBBER, V-987, COPPER LIQUOR, HEIGHT: 96 FT ; DIAMETER: 5 FT A/N: 470288	D307				
KNOCK OUT POT, V-1969, HEIGHT: 7 FT ; DIAMETER: 4 FT A/N: 470288	D780				
SCRUBBER, V-1890, AMMONIA, HEIGHT: 8 FT ; DIAMETER: 6 FT A/N: 470288	D781				
<b>System 3: HYDROGEN GENERATION UNIT NO. 2</b>					S2.1, S13.2, S13.4, S15.2
ABSORBER, PSA, V-1769/78, 10 TOTAL A/N: 469989	D317				
VESSEL, SEPARATOR, V-1782, PROCESS CONDENSATE A/N: 469989	D319				
REACTOR, DESULFURIZATION, V-1783 A/N: 469989	D320				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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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 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
<b>Process 6: HYDROGEN GENERATION</b>					P13.1
REACTOR, ZINC OXIDE, V-1784/1785, 2 TOTAL A/N: 469989	D321				
REACTOR, HIGH TEMP/SHIFT, V-1786 A/N: 469989	D323				
DRUM, BLOWDOWN FLASH, V-1787 A/N: 469989	D1255				
DRUM, CONDENSATE DEGASER, V-1795 A/N: 469989	D1256				
COMPRESSOR, C-146/147, FEED GAS, 2 TOTAL, EACH 400 HP A/N: 469989	D333				H23.4
COMPRESSOR, C-148, HYDROGEN PRODUCT, 1750 HP A/N: 469989	D335				
FILTER, V-1845/1846, FEED GAS COMP DUPLEX A/N: 469989	D1257				
FILTER, V-1847, HYDROGEN PRODUCT COMP DUPLEX A/N: 469989	D1258				
DRUM, PURGE GAS SURGE, V-1779 A/N: 469989	D1339				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469989	D1453				H23.16
<b>System 4: HYDROGEN GENERATION UNIT NO. 2 HEATERS</b>					

\* (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
<b>Process 6: HYDROGEN GENERATION</b>					P13.1
FURNACE, H-42, PSA GAS, REFINERY GAS, STEAM METHANE REFORMER FURNACE, 145.97 MMBTU/HR WITH A/N: 469990  GENERATOR, ELECTRICITY, STEAM TURBINE, 22.85 MW  HEATER, CC-2, MIXED FEED PREHEATER  HEATER, CC-3, STEAM SUPERHEATER	D777	C778	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 12 PPMV (4) [RULE 2005, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.1, D90.7, D90.16, D328.1, E54.8, H23.3
SELECTIVE CATALYTIC REDUCTION, CORMETECH, W/A FIXED BED REACTOR, VANADIA-TITANIA CATALYST, 325 CU.FT. WITH A/N: 469991  INJECTOR, AMMONIA, WITH AMMONIA INJECTION	C778	D777 S993 D1122		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	D12.1, D28.4, D29.7, E71.7

\* (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: 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
<b>Process 6: HYDROGEN GENERATION</b>					P13.1
BOILER, H-43, AUXILIARY, NATURAL GAS, REFINERY GAS, 139.5 MMBTU/HR WITH A/N: 469992  BURNER, NATURAL GAS, REFINERY GAS, COEN, MODEL 675, 139.5 MMBTU/HR, AND 4 JOHN ZINK TRIM BRNRS, EA 9.4 MMBTU/HR, WITH LOW NOX BURNER, 139.5 MMBTU/HR	D1122	C778	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 0.1 LBS/MMBTU (8) [40CFR 60 Subpart Db, 1-28-2009]; NOX: 12 PPMV (4) [RULE 2005, 5-6-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.4, B61.1, D90.7, D90.16, D328.1, E54.10, H23.29
STACK A/N: 469993	S993	C778			
<b>Process 8: HYDROCRACKING</b>					P13.1
<b>System 1: HYDROCRACKING UNIT</b>					S11.3, S13.4, S15.2, S15.3, S15.10, S31.1
REACTOR, V-993, HEIGHT: 58 FT 3 IN; DIAMETER: 10 FT A/N:	D371				
REACTOR, V-994, HEIGHT: 68 FT 10 IN; DIAMETER: 10 FT A/N:	D372				
REACTOR, V-995, HEIGHT: 74 FT 10 IN; DIAMETER: 8 FT 6 IN A/N:	D373				
DRUM, SURGE, V-996, HEIGHT: 28 FT ; DIAMETER: 11 FT 6 IN A/N:	D340				

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

\*\* 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
<b>Process 8: HYDROCRACKING</b>					P13.1
VESSEL, SEPARATOR, HIGH PRESSURE, V-997, HEIGHT: 34 FT ; DIAMETER: 10 FT A/N:	D341				
VESSEL, SEPARATOR, LOW PRESSURE, V-998, HEIGHT: 26 FT ; DIAMETER: 7 FT 6 IN A/N:	D342				
FRACTIONATOR, V-1001, HEIGHT: 144 FT ; DIAMETER: 15 FT A/N:	D344				
VESSEL, STRIPPER, V-1002, HEAVY NAPHTHA, HEIGHT: 33 FT 6 IN; DIAMETER: 6 FT A/N:	D345				
VESSEL, STRIPPER, V-1003, MEDIUM NAPHTHA, HEIGHT: 31 FT 6 IN; DIAMETER: 6 FT A/N:	D1259				
ACCUMULATOR, V-1004, FRACTIONATOR REFLUX, LENGTH: 22 FT 6 IN; DIAMETER: 9 FT A/N:	D1260				
ACCUMULATOR, V-1005, FRACTIONATOR OVERHEAD, LENGTH: 18 FT ; DIAMETER: 7 FT A/N:	D346			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	
ABSORBER, V-1006, LEAN OIL, HEIGHT: 50 FT ; DIAMETER: 3 FT A/N:	D374				

\* (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
<b>Process 8: HYDROCRACKING</b>					P13.1
COLUMN, DEPROPANIZER, V-1007, HEIGHT: 106 FT ; DIAMETER: 7 FT 6 IN A/N:	D347				
DRUM, V-1008, DEPROPANIZER REFLUX, LENGTH: 13 FT 6 IN; DIAMETER: 4 FT 6 IN A/N:	D348				
COLUMN, DEBUTANIZER, V-1009, HEIGHT: 93 FT 6 IN; DIAMETER: 5 FT 6 IN A/N:	D349				
DRUM, V-1010, DEBUTANIZER REFLUX, HEIGHT: 14 FT ; DIAMETER: 5 FT A/N:	D350				
SCRUBBER, V-1011, AMINE, HEIGHT: 51 FT ; DIAMETER: 5 FT 6 IN A/N:	D351				
DRUM, FLASH, V-1012, CONDENSATE, LENGTH: 10 FT ; DIAMETER: 3 FT 6 IN A/N:	D375				
DRUM, FRACTIONATOR COMPRESSOR SUCTION, V-1695, HEIGHT: 8 FT ; DIAMETER: 5 FT A/N:	D352				
POT, V-1025, DEPROPANIZER REBOILER CONDENSATE, LENGTH: 12 FT ; DIAMETER: 1 FT 5 IN A/N:	D376				

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 8: HYDROCRACKING</b>					P13.1
POT, V-1026, DEBUTANIZER REBOILER CONDENSATE, LENGTH: 12 FT ; DIAMETER: 1 FT 5 IN A/N:	D928				
VESSEL, SEPARATOR, V-2036, COKER GAS OIL, HEIGHT: 5 FT 2 IN; DIAMETER: 1 FT A/N:	D355				
VESSEL, SEPARATOR, V-1087, FCC GAS OIL SOLIDS, HEIGHT: 5 FT 2 IN; DIAMETER: 1 FT A/N:	D356				
VESSEL, COALESCER, V-1088, FCC GAS OIL, LENGTH: 10 FT ; DIAMETER: 3 FT A/N:	D357				
VESSEL, COALESCER, V-1089, COKER GAS OIL, LENGTH: 10 FT ; DIAMETER: 3 FT A/N:	D358				
VESSEL, EFFLUENT COALESCER, V-1090, LENGTH: 15 FT ; DIAMETER: 5 FT A/N:	D1265				
DRUM, INJECTION, V-1122, DIMETHYL DISULFIDE, LENGTH: 10 FT ; DIAMETER: 3 FT A/N:	D359				
COMPRESSOR, C-93, RECYCLE GAS A/N:	D364				

\* (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
<b>Process 8: HYDROCRACKING</b>					P13.1
COMPRESSOR, FRACTIONATOR NO.1 & 2, C-94/95, 2 TOTAL, RECIPROCATING TYPE A/N:	D930				
TOWER, DEA, V-1621, HEIGHT: 37 FT 6 IN; DIAMETER: 3 FT A/N:	D932				
KNOCK OUT POT, V-1622, LIQUID, HEIGHT: 7 FT 3 IN; DIAMETER: 1 FT 2 IN A/N:	D1266				
MIST ELIMINATOR, V-1623, HEIGHT: 9 FT ; DIAMETER: 2 FT 6 IN A/N:	D933				
VESSEL, SEPARATOR, MEMBRANE, V-1624-38, 15 TOTAL, HEIGHT: 12 FT 5 IN; DIAMETER: 8 FT A/N:	D934				
COMPRESSOR, C-141, RECIPROCATING TYPE A/N:	D377				H23.4
DRUM, SECOND STAGE CHARGE, V-1965, LENGTH: 10 FT ; DIAMETER: 3 FT A/N:	D1340				
KNOCK OUT POT, LIQUID, V-1995, LENGTH: 10 FT ; DIAMETER: 3 FT A/N:	D1341				
FILTER, V-1967, STRIPPED WATER, LENGTH: 10 FT ; DIAMETER: 3 FT A/N:	D1342				

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 8: HYDROCRACKING</b>					P13.1
DRUM, SURGE, V-1966, WASH WATER, HEIGHT: 13 FT 6 IN; DIAMETER: 5 FT 6 IN A/N:	D1530				
DRUM, V-1972, FLASH, FOUL WATER, LENGTH: 10 FT ; DIAMETER: 6 FT A/N:	D1531				
COMPRESSOR, HYDROGEN, C-91/92, 2 TOTAL, RECIPROCATING TYPE A/N:	D245				
COMPRESSOR, C-98 A/N:	D102				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1454			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.5
<b>System 2: HYDROCRACKING HEATERS</b>					
HEATER, H-300, REFINERY GAS, WITH LOW NOX BURNER, 47.6 MMBTU/HR WITH A/N: 469994  BURNER, 16 BURNERS, REFINERY GAS, WITH LOW NOX BURNER, 47.6 MMBTU/HR	D384	C784 S994	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	<b>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]</b>	B61.1, D90.7, D328.1, E54.5, E54.15, H23.3

\* (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
<b>Process 8: HYDROCRACKING</b>					P13.1
HEATER, H-301, REFINERY GAS, WITH LOW NOX BURNER, 23.5 MMBTU/HR WITH A/N: 469995  BURNER, 6 BURNERS, REFINERY GAS, WITH LOW NOX BURNER, 23.5 MMBTU/HR	D385	C784 S994	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; 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]	B61.1, D90.7, D328.2, E54.5, E54.15, H23.3
SELECTIVE CATALYTIC REDUCTION, ENGLEHARD, W/ A FIXED BED REACTOR, VANADIA-TITANIA CATALYST, HONEYCOMB TYPE, 59 CU.FT. WITH A/N: 469996  INJECTOR, AMMONIA, WITH AMMONIA INJECTION	C784	D384 D385 S994		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	D12.1, D28.4, E71.7
STACK A/N: 469996	S994	D384 D385 C784			
HEATER, H-302, REFINERY GAS, WITH LOW NOX BURNER, 47.6 MMBTU/HR WITH A/N: 469997  BURNER, 16 BURNERS, REFINERY GAS, WITH LOW NOX BURNER, 47.6 MMBTU/HR	D386	S692 C786	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]	B61.1, D90.7, D328.1, E54.4, E54.14, H23.3

- \* (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
<b>Process 8: HYDROCRACKING</b>					P13.1
HEATER, H-303, REFINERY GAS, WITH LOW NOX BURNER, 71.4 MMBTU/HR WITH  A/N: 469998  BURNER, 8 BURNERS, REFINERY GAS, WITH LOW NOX BURNER, 71.4 MMBTU/HR	D387	S692 C786	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]	B61.1, D90.7, D328.1, E54.4, E54.14, H23.3
SELECTIVE CATALYTIC REDUCTION, ENGLEHARD, W/ A FIXED BED REACTOR, VANADIA-TITANIA CATALYST, HONEYCOMB TYPE, 78 CU.FT. WITH  A/N: 469999  INJECTOR, AMMONIA, WITH AMMONIA INJECTION	C786	D386 D387 S692		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	D12.1, D28.4, D29.3, E71.7
STACK A/N: 469999	S692	D386 D387 C786			
HEATER, H-304, REFINERY GAS, WITH LOW NOX BURNER, 147 MMBTU/HR WITH  A/N: 470000  BURNER, 10 BURNERS, REFINERY GAS, MCGILL, MODEL STR-13T, WITH LOW NOX BURNER, 147 MMBTU/HR	D388	C788 S995	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]	B61.1, D90.7, D328.1, E54.3, E54.13, H23.3

\* (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
<b>Process 8: HYDROCRACKING</b>					P13.1
SELECTIVE CATALYTIC REDUCTION, ENGLEHARD, W/ A FIXED BED REACTOR, VANADIA-TITANIA CATALYST, HONEYCOMB TYPE, 104 CU.FT. WITH  A/N: 470001  INJECTOR, AMMONIA, WITH AMMONIA INJECTION	C788	D388 S995		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	D12.1, D28.4, E71.7
STACK A/N: 470001	S995	D388 C788			
<b>Process 9: ALKYLATION</b>					P13.1
<b>System 1: ALKYLATION UNIT</b>					S13.4, S15.2, S15.5, S31.1
FILTER, SALT, V-579, PROPANE, LENGTH: 25 FT 4 IN; DIAMETER: 5 FT A/N: 470290	D390				
VESSEL, SALT DRIER, V-582, LENGTH: 15 FT 8 IN; DIAMETER: 4 FT A/N: 470290	D391				
VESSEL, V-1407, BUTYLENE COALESCER, LENGTH: 13 FT 2 IN; DIAMETER: 3 FT 6 IN A/N: 470290	D392				
VESSEL, COALESCER, V-1408, OLEFIN, LENGTH: 10 FT 5 IN; DIAMETER: 1 FT 8 IN A/N: 470290	D393				

\* (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
<b>Process 9: ALKYLATION</b>					P13.1
SETTLING TANK, 1ST STAGE, V-1409, ACID, LENGTH: 50 FT ; DIAMETER: 12 FT 6 IN A/N: 470290	D394				
SETTLING TANK, 2ND STAGE, V-1410, ACID, LENGTH: 50 FT ; DIAMETER: 12 FT 6 IN A/N: 470290	D395				
TANK, FLASH, V-1411, REACTOR EFFLUENT, LENGTH: 30 FT 6 IN; DIAMETER: 8 FT 6 IN A/N: 470290	D396				
TANK, FLASH, V-1414, REFRIGERANT, LENGTH: 24 FT ; DIAMETER: 6 FT 6 IN A/N: 470290	D397				
ACCUMULATOR, V-1416, REFRIGERANT, LENGTH: 18 FT ; DIAMETER: 5 FT A/N: 470290	D399				
ACCUMULATOR, V-1953, DEPROPANIZER FEED, LENGTH: 20 FT ; DIAMETER: 4 FT 6 IN A/N: 470290	D400				
DRUM, BLOWDOWN, V-1418, ACID, LENGTH: 27 FT ; DIAMETER: 10 FT A/N: 470290	D401				
SCRUBBER, CAUSTIC, V-1419, ACID VAPOR, LENGTH: 16 FT ; DIAMETER: 8 FT A/N: 470290	D402				

\* (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
<b>Process 9: ALKYLATION</b>					P13.1
COLUMN, DEETHANIZER, V-1420, LENGTH: 81 FT 6 IN; DIAMETER: 5 FT A/N: 470290	D403				
ACCUMULATOR, V-1421, DEETHANIZER OVERHEAD, LENGTH: 80 FT ; DIAMETER: 5 FT A/N: 470290	D404				
POT, V-1422, DEETHANIZER REBOILER CONDENSATE, LENGTH: 3 FT ; DIAMETER: 1 FT 6 IN A/N: 470290	D405				
SETTLING TANK, V-1423, DEPROPANIZER CAUSTIC WASH, LENGTH: 30 FT ; DIAMETER: 6 FT 6 IN A/N: 470290	D406				
SETTLING TANK, V-1424, DEPROPANIZER WATER WASH, LENGTH: 26 FT ; DIAMETER: 6 FT A/N: 470290	D407				
VESSEL, PRECIPITATOR, V-1425, DEPROPANIZER FEED, HEIGHT: 12 FT ; DIAMETER: 6 FT A/N: 470290	D408				
COLUMN, DEPROPANIZER, V-1426, HEIGHT: 118 FT 6 IN; DIAMETER: 7 FT A/N: 470290	D409				
POT, V-1427, DEPROPANIZER REBOILER CONDENSATE, LENGTH: 3 FT ; DIAMETER: 1 FT 6 IN A/N: 470290	D410				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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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 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
<b>Process 9: ALKYLATION</b>					P13.1
ACCUMULATOR, V-1428, DEPROPANIZER OVERHEAD, LENGTH: 15 FT ; DIAMETER: 6 FT A/N: 470290	D411				
VESSEL, DEGASER, V-1429, ALKALINE WATER, LENGTH: 8 FT ; DIAMETER: 4 FT A/N: 470290	D949			HAP: (10) [40CFR 63 Subpart CC, #1, 6-23-2003]	
VESSEL, DEGASER, V-1430, SPENT CAUSTIC, LENGTH: 8 FT ; DIAMETER: 4 FT A/N: 470290	D950				
DRUM, FLASH, V-1432, HP CONDENSATE, LENGTH: 5 FT ; DIAMETER: 3 FT A/N: 470290	D413				
DRUM, FLASH, V-1433, LP CONDENSATE, LENGTH: 37 FT 4 IN; DIAMETER: 11 FT A/N: 470290	D414				
POT, V-1434, ALKY DIB. CAUSTIC HEATER CONDENSATE, LENGTH: 3 FT ; DIAMETER: 1 FT 6 IN A/N: 470290	D415				
TANK, WASH, V-1435, ALKY DIB. CAUSTIC SETTLER, LENGTH: 43 FT ; DIAMETER: 9 FT A/N: 470290	D416				
TANK, WASH, V-1436, ALKY DIB. WATER SETTLER, LENGTH: 40 FT ; DIAMETER: 8 FT A/N: 470290	D417				

- \* (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
<b>Process 9: ALKYLATION</b>					P13.1
VESSEL, PRECIPITATOR, V-1437, ALKY DIB. FEED, LENGTH: 10 FT ; DIAMETER: 10 FT A/N: 470290	D418				
DRUM, V-1438, ALKY DIB. TEA, LENGTH: 9 FT ; DIAMETER: 3 FT A/N: 470290	D419				
COLUMN, ALKY DIB, V-1439, HEIGHT: 165 FT ; DIAMETER: 11 FT A/N: 470290	D420				
POT, V-1440A/B/C/D, ALKY DIB. REBOILER CONDENSATE, 4 TOTAL, LENGTH: 3 FT ; DIAMETER: 1 FT 6 IN A/N: 470290	D421				
ACCUMULATOR, V-1441, ALKY DIB. OVERHEAD, LENGTH: 42 FT ; DIAMETER: 10 FT 6 IN A/N: 470290	D422				
COLUMN, ALKY DEBUTANIZER, V-1442, HEIGHT: 94 FT 9 IN; DIAMETER: 5 FT A/N: 470290	D423				
POT, V-1443, ALKY DEBUTANIZER REBOILER CONDENSATE, LENGTH: 3 FT ; DIAMETER: 1 FT 6 IN A/N: 470290	D424				
ACCUMULATOR, V-1444, ALKY DEBUTANIZER OVERHEAD, LENGTH: 15 FT ; DIAMETER: 4 FT 6 IN A/N: 470290	D425				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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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
<b>Process 9: ALKYLATION</b>					P13.1
ACCUMULATOR, V-1449, V-1450 AND V-2103, S.O. AT E-1277, E1276 AND E-1721, 3 TOTAL, HEIGHT: 2 FT 3 IN; DIAMETER: 1 FT 7 IN A/N: 470290	D431				
KNOCK OUT POT, FLARE, V-1694, LENGTH: 23 FT ; DIAMETER: 8 FT A/N: 470290	D432				
DRUM, FLASH, V-1583, MIXED BUTANE TREATER, CAUSTIC A/N: 470290	D953				
VESSEL, V-1156/7/8/9, K.O. POTS 12001/2/3/4, 4 TOTAL A/N: 470290	D954				
VESSEL, PRECIPITATOR, V-1412, ACID A/N: 470290	D960				
VESSEL, V-1413, SPENT ACID A/N: 470290	D961				
SETTLING TANK, 3RD STAGE, V-2090, ACID, LENGTH: 50 FT ; DIAMETER: 12 FT A/N: 470290	D1080				
VESSEL, CONTACTOR, E-1721, 9800 SQ.FT., LENGTH: 92 FT ; DIAMETER: 63 FT A/N: 470290	D1081				
COMPRESSOR, C-155, REFRIGERANT, CENTRIFUGAL, BARREL TYPE, 4000 H.P. A/N: 470290	D1082				H23.4

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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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
<b>Process 9: ALKYLATION</b>					P13.1
TANK, SETTLING, V-2241, ACID, LENGTH: 50 FT ; DIAMETER: 12 FT 6 IN A/N: 470290	D1504				
VESSEL, V-2242, ISOBUTANE COALESCER, LENGTH: 7 FT 6 IN; DIAMETER: 5 FT A/N: 470290	D1505				
TANK, WASH, V-2250, ACID, LENGTH: 20 FT ; DIAMETER: 12 FT A/N: 470290	D1506				
VESSEL, CONTACTORS NOS. 1 & 2, E-1276 & 1277 A/N: 470290	D959				
VESSEL, CONTACTOR NO. 4, E-1827 A/N: 470290	D1507				
COMPRESSOR, C-164, PROPANE, 1455-HP A/N: 470290	D1509				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470290	D1392			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.16
<b>System 2: MIXED BUTANE TREATING UNIT</b>					S13.4, S15.2, S15.3
TOWER, DEBUTANIZER ACCUMULATOR , V-272, HEIGHT: 138 FT 9 IN; DIAMETER: 6 FT A/N: 470002	D434				
ACCUMULATOR, V-1441, DEISOBUTANIZER, LENGTH: 12 FT ; DIAMETER: 6 FT A/N: 470002	D435				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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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
<b>Process 9: ALKYLATION</b>					P13.1
KNOCK OUT POT, V-273, LIQUID, LENGTH: 12 FT ; DIAMETER: 4 FT A/N: 470002	D436				
DRUM, V-285, DIB CONDENSATE, LENGTH: 4 FT ; DIAMETER: 2 FT A/N: 470002	D437				
DRUM, CAUSTIC WASH, V-294, LENGTH: 40 FT ; DIAMETER: 4 FT 10 IN A/N: 470002	D1298				
DRUM, SURGE, V-1528, LENGTH: 46 FT ; DIAMETER: 8 FT A/N: 470002	D445				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470002	D1455			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.16
<b>System 3: ALKYLATION FEED TREATMENT UNIT</b>					S13.4, S15.2
DRUM, SURGE, V-1455, PROPYLENE, LENGTH: 46 FT ; DIAMETER: 8 FT A/N: 470003	D440				
VESSEL, PHASE SEPARATOR, V-1685 TO V-1690, 6 TOTAL, LENGTH: 16 FT ; DIAMETER: 4 FT 6 IN A/N: 470003	D442				
OXIDIZER, V-1692, HEIGHT: 50 FT ; DIAMETER: 6 FT 6 IN A/N: 470003	D449	D722 D723 D724 D725			
VESSEL, SEPARATOR, V-2157, DISULFIDE OIL/CAUSTIC, LENGTH: 30 FT ; DIAMETER: 7 FT 6 IN A/N: 470003	D450	D722 D723 D724 D725		<b>HAP: (10) [40CFR 63 Subpart CC, #1, 6-23-2003]</b>	

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 9: ALKYLATION</b>					P13.1
VESSEL, SAND FILTER, V-1691, HEIGHT: 15 FT 8 IN; DIAMETER: 4 FT A/N: 470003	D439				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470003	D1456			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.16
<b>Process 11: IN-LINE GASOLINE BLENDING</b>					P13.1
<b>System 1: IN-LINE GASOLINE BLENDING UNIT</b>					
TANK, TK-95, CORROSION INHIBITOR, WITH NITROGEN BLANKET, 4000 GALS; DIAMETER: 6 FT 4 IN; HEIGHT: 17 FT 3 IN A/N: 470004	D453				
DRUM, V-1727/1728, DYE ADDITIVE, 2 TOTAL, WITH NITROGEN BLANKET, 250 GALS; DIAMETER: 3 FT ; HEIGHT: 5 FT A/N: 470004	D454				
VESSEL, PRESSURIZED, V-1720-24 AND V-1729, PROTO FUEL, 6 TOTAL, WITH NITROGEN BLANKET, 300 GALS A/N: 470004	D457				
DRUM, V-1725, SPENT/EXCESS PROTO FUEL, WITH NITROGEN BLANKET, 300 GALS A/N: 470004	D1301				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470004	D1458			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.16
<b>Process 12: TREATING /STRIPPING</b>					P13.1

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 12: TREATING /STRIPPING</b>					P13.1
<b>System 1: HCOD TREATING UNIT</b>					S13.2, S13.5
TANK, HOLDING, TK-7001, COKER BLOWDOWN, HEIGHT: 32 FT ; DIAMETER: 40 FT A/N: 470005	D466			<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	E336.2, H23.40
OIL WATER SEPARATOR, V-1743, COKER SLOP WATER CPI, 300 GPM A/N: 470005	D460			<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	E336.2, H23.40
OIL WATER SEPARATOR, V-1768, SLOP WATER CPI, 300 GPM A/N: 470005	D461			<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	E336.2, H23.40
FLOATATION UNIT, V-1168, IGFU SOUTH, 700 GPM CAPACITY A/N: 470005	D458			<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	E336.2, H23.40
FLOATATION UNIT, V-1166, IGFU NORTH, 300 GPM CAPACITY A/N: 470005	D459			<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	E336.2, H23.40

\* (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
<b>Process 12: TREATING /STRIPPING</b>					P13.1
AIR FLOATATION UNIT, DISSOLVED AIR FLOATATION (DAF), TK-158, EFFLUENT WATER DAF, HEIGHT: 11 FT 4 IN; DIAMETER: 45 FT A/N: 470005	D463	C472 C473		<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; <b>VOC:</b> 500 PPMV (5) [RULE 1176, 9-13-1996]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.40
TANK, SURGE, TK-159A, DAF EFFLUENT, HEIGHT: 10 FT ; DIAMETER: 16 FT A/N: 470005	D464	C472 C473		<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; <b>VOC:</b> 500 PPMV (5) [RULE 1176, 9-13-1996]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.40
TANK, TK-149, CPI OIL SLUDGE, HEIGHT: 9 FT ; DIAMETER: 9 FT A/N: 470005	D462			<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	E336.2, H23.40
TANK, FLOCCULATION, TK-267, HEIGHT: 14 FT ; DIAMETER: 12 FT A/N: 470005	D465	C472 C473		<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; <b>VOC:</b> 500 PPMV (5) [RULE 1176, 9-13-1996]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.40
TANK, COLLECTION, TK-148, OILY SLUDGE, 100 BBL A/N: 470005	D467			<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	E336.2, H23.40

\* (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
<b>Process 12: TREATING /STRIPPING</b>					P13.1
TANK, NO. 47, DAF FLOAT, 2000 GALS; DIAMETER: 6 FT 4 IN; HEIGHT: 8 FT 8 IN A/N: 470005	D471	C472 C473		<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; <b>VOC:</b> 500 PPMV (5) [RULE 1176, 9-13-1996]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.40
VESSEL, V-1748, DAF AIR PRESSURIZATION, WITH NITROGEN BLANKET A/N: 470005	D1304			<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.40
ADSORBER, V-2315/V-2316, ACTIVATED CARBON, CONNECTED IN SERIES, EACH 1000 POUNDS, 2,000 POUNDS TOTAL A/N: 470005	C472	D463 D464 D465 D471		<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; <b>VOC:</b> 50 PPMV (8A) [ CONSENT DECREE, 3-21-2001]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	D90.4, E153.1, H23.40
ADSORBER, V-2313/V-2314, ACTIVATED CARBON (SPARE), CONNECTED IN SERIES, EACH 1,000 POUNDS, 2,000 POUNDS TOTAL A/N: 470005	C473	D463 D464 D465 D471		<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; <b>VOC:</b> 50 PPMV (8A) [ CONSENT DECREE, 3-21-2001]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	D90.4, E153.1, H23.40

\* (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
<b>Process 12: TREATING /STRIPPING</b>					P13.1
TANK, COLLECTION, TK-6002/6003, SLUDGE, 2 TOTAL, 6000 BBL A/N: 470005	D469			<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; <b>VOC:</b> 500 PPMV (8) [40CFR 60 Subpart Kb, 10-15-2003; 40CFR 61 Subpart FF, 12-4-2003]	E336.1, H23.1, H23.40
TANK, TK-156, SLUDGE FEED TANK, 2600 GALS A/N: 470005	D709			<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.40
OIL WATER SEPARATOR, V-1745, FILTRATE CPI, 150 GPM A/N: 470005	D703			<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	E71.3, H23.40
SUMP, UNDERGROUND, FIXED COVER, PUMP STATION, TK-125A, WATER DRAW COLLECTION, 3000 BBL A/N: 470006	D807			<b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]	E336.2
SUMP, UNDERGROUND, FIXED COVER, PUMP STATION, TK-125B, WATER DRAW COLLECTION, 3000 BBL A/N: 470007	D808			<b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]	E336.2
SUMP, UNDERGROUND, FIXED COVER, PUMP STATION, TK-125C, WATER DRAW COLLECTION, 3000 BBL A/N: 470008	D809			<b>HAP:</b> (10) [40CFR 63 Subpart CC, #4, 6-23-2003]	E336.2

- \* (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
<b>Process 12: TREATING /STRIPPING</b>					P13.1
TANK, VTK-01, IGFU POLYMER, WITH NITROGEN BLANKET, 2100 GALS A/N: 470005	D1305				
TANK, VTK-02, PEROXIDE, WITH NITROGEN BLANKET, 7000 GALS A/N: 470005	D1306				
TANK, VTK-03, DAF POLYMER, WITH NITROGEN BLANKET, 2100 GALS A/N: 470005	D1307				
TANK, V-56X-MKT, HYDROGEN PEROXIDE, WITH NITROGEN BLANKET, 7000 GALS A/N: 470005	D1308				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470005	D1459				H23.5
DRAIN SYSTEM COMPONENT A/N: 470005	D1495			<b>HAP: (10) [40CFR 63 Subpart CC, #4, 6-23-2003]</b>	H23.17
<b>System 2: LCOD TREATING UNIT</b>					S13.2, S13.5
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 80218, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 40 FT WITH A/N: 470009  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY B OR BETTER PER RULE 219(C)(4)	D657			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	B22.1, C1.25, D90.18, D90.19, H23.25

- \* (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
<b>Process 12: TREATING /STRIPPING</b>					P13.1
STORAGE TANK, FIXED ROOF, TK-15001, WASTE WATER, 15000 BBL; DIAMETER: 52 FT ; HEIGHT: 40 FT A/N: 470010	D1001			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]; VOC: 500 PPMV (8) [40CFR 60 Subpart Kb, 10-15-2003]	E336.2, H23.1, H23.25, K67.2
STORAGE TANK, FIXED ROOF, TK-15002, WASTE WATER, 15000 BBL; DIAMETER: 52 FT ; HEIGHT: 40 FT A/N: 470011	D1002			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]; VOC: 500 PPMV (8) [40CFR 60 Subpart Kb, 10-15-2003]	E336.2, H23.1, H23.25, K67.2
STORAGE TANK, EXTERNAL FLOATING ROOF, HOLDING, NO. 143000, 143000 BBL; DIAMETER: 140 FT ; HEIGHT: 52 FT WITH A/N: 470012  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, WIPER TYPE	D688			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	C1.24, D90.19, E71.1, H23.25
SKIMMING POND, NO. 2, 50 ACRE FT. CAP., STORM WATER, UNLINED A/N: 470013	D696			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	
FLOATATION UNIT, INDUCED-GAS TYPE, V-2076/2077/2078, 3 TOTAL, HEIGHT: 10 FT ; DIAMETER: 12 FT A/N: 470013	D998			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]; VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	E336.2

- \* (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
<b>Process 12: TREATING /STRIPPING</b>					P13.1
SKIMMING POND, AFU BASIN NO.1, W/ FLOCCULATOR, SURFACE SKIMMER, 2 SCREW CONVEYORS AND BOTTOM SCRAPER, WIDTH: 25 FT ; DEPTH: 15 FT ; LENGTH: 100 FT A/N: 470013	D1022			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	
SKIMMING POND, AFU BASIN NO.2, W/ A FLOCCULATOR, A SURFACE SKIMMER, AND A SCREW CONVEYOR, WIDTH: 25 FT ; DEPTH: 15 FT ; LENGTH: 100 FT A/N: 470013	D1023			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	
VESSEL, PRESSURE RETENTION FOR AFU NOS. 1 & 2, V-1106/1121, 2 TOTAL, HEIGHT: 7 FT 6 IN; DIAMETER: 4 FT A/N: 470013	D498			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	
OIL WATER SEPARATOR, NO. 6, LAMELLA 2, CONSISTING OF TWO UNITS, V2087 & V2088, WIDTH: 15 FT ; LENGTH: 45 FT A/N: 470013	D693			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	
OIL WATER SEPARATOR, NO. 3, LAMELLA 2, CONSISTING OF TWO UNITS, V1980 & V1979, WIDTH: 13 FT ; LENGTH: 60 FT A/N: 470013	D689			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470013	D1460				H23.5
DRAIN SYSTEM COMPONENT A/N: 470013	D1496			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	H23.17

- \* (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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## 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
<b>Process 12: TREATING /STRIPPING</b>					P13.1
<b>System 3: OIL/WATER SEPARATOR NO. 7</b>					S13.5
OIL WATER SEPARATOR, NO. 7, COVERED, WITH SLOTTED PIPE SKIMMER, WIDTH: 10 FT ; HEIGHT: 6 FT 9 IN; LENGTH: 44 FT 8 IN A/N: 470014	D697	C699		HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]; VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	E71.8
SUMP, SKIM-OIL SUMP A/N: 470014	D698				
CARBON ADSORBER, AND SPARE, EACH CONTAINS 200 LBS OF ACTIVATED CARBON A/N: 470014	C699	D697			D90.5, E153.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470014	D1399				H23.5
<b>System 4: OIL/WATER SEPARATOR NO. 8</b>					S13.5
OIL WATER SEPARATOR, NO. 8, COVERED, WITH A SLOTTED PIPE SKIMMER, WIDTH: 10 FT ; DIAMETER: 6 FT 9 IN; LENGTH: 44 FT 8 IN A/N: 470015	D700	C702		HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]; VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	E71.8
SUMP, WITH A 10 HP MOTOR A/N: 470015	D701				
CARBON ADSORBER, AND SPARE, EACH CONTAINS 200 LBS OF ACTIVATED CARBON A/N: 470015	C702	D700			D90.5, E153.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470015	D1461				H23.5

- \* (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
<b>Process 12: TREATING /STRIPPING</b>					P13.1
<b>System 7: BRINE WATER TREATMENT</b>					S13.5, S15.6, S31.3
DRUM, HEAT TREATING, V-2201, HEIGHT: 20 FT ; DIAMETER: 16 FT A/N: 470291	D1480			BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.40
DRUM, HEAT TREATING, V-2202, HEIGHT: 40 FT ; DIAMETER: 12 FT A/N: 470291	D1481			BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.40
DRUM, CLARIFIED OIL, V-2204, HEIGHT: 6 FT ; DIAMETER: 3 FT A/N: 470291	D1482			BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.40
TANK, CLARIFIER THICKENER, TK-2007, HEIGHT: 16 FT ; DIAMETER: 30 FT A/N: 470291	D1483			BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.40
TANK, CLARIFIER EFFLUENT, TK-43, HEIGHT: 9 FT ; DIAMETER: 6 FT A/N: 470291	D1484			BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.40
DRUM, RECOVERY OIL, V-2203, HEIGHT: 8 FT ; DIAMETER: 4 FT A/N: 470291	D1485			BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.40
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470291	D1683			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.16
<b>System 8: FUEL GAS TREATING SYSTEM</b>					S13.4, S15.2, S18.4

\* (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
<b>Process 12: TREATING /STRIPPING</b>					P13.1
ABSORBER, AMINE, V-1640, HEIGHT: 66 FT ; DIAMETER: 4 FT A/N: 470016	D66				
KNOCK OUT POT, V-1641, AMINE, HEIGHT: 10 FT ; DIAMETER: 3 FT 6 IN A/N: 470016	D67				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470016	D1561				H23.5
<b>Process 14: LOADING AND UNLOADING</b>					
<b>System 1: INORGANIC CHEMICAL LOADING AND UNLOADING</b>					S15.7
BULK MATERIAL LOAD/UNLOAD STATION, TANK TRUCK, FRESH AND SPENT ACID WITH A/N: 470017  LOADING AND UNLOADING ARM, FRESH AND SPENT ACID, 2 TOTAL; DIAMETER: 3 IN	D505				E57.1, E131.1
SCRUBBER, V-311, CAUSTIC, STANDBY, HEIGHT: 10 FT 7 IN; DIAMETER: 3 FT 6 IN A/N: 470017	C232				D90.3, E71.5, E71.11
<b>System 2: TWO-POSITION PROPANE TRUCK LOADING</b>					S15.8

\* (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
<b>Process 14: LOADING AND UNLOADING</b>					
BULK MATERIAL LOAD/UNLOAD STATION, TANK TRUCK, PROPANE WITH A/N: 470018  LOADING AND UNLOADING ARM, BOTTOM, 4 TOTAL, PROPANE  VAPOR RETURN LINE, 4 TOTAL	D507				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470018	D1465				H23.5
<b>System 3: TWO-POSITION BUTANE LOADING/UNLOADING</b>					S15.8
BULK MATERIAL LOAD/UNLOAD STATION, TANK TRUCK, BUTANE WITH A/N: 470019  LOADING AND UNLOADING ARM, BOTTOM, BUTANE, 4 TOTAL; DIAMETER: 2 IN  VAPOR RETURN LINE, 1" DIA., 4 TOTAL	D513				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470019	D1466				H23.5
<b>System 4: BUTANE TANK CAR LOADING/UNLOADING SYSTEM</b>					S1.1, S15.6

\* (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
<b>Process 14: LOADING AND UNLOADING</b>					
BULK MATERIAL LOAD/UNLOAD STATION, STATIONS NOS. 1 - 6, 6 TOTAL, EACH WITH A/N: 470020  LOADING AND UNLOADING ARM, 2 TOTAL; DIAMETER: 2 IN  VAPOR RETURN LINE, 1" DIA.	D790				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470020	D1467				H23.5
<b>System 5: LPG/SPENT CAUSTIC LOADING/UNLOADING SYSTEM</b>					S1.1, S15.6
BULK MATERIAL LOADING STATION, SPENT CAUSTIC, WITH A 1" VAPOR RETURN HOSE A/N: 470021	D798				D90.2, E71.6
BULK MATERIAL LOAD/UNLOAD STATION, STATIONS NOS. 1 - 6, 6 TOTAL, EACH, LPG WITH A/N: 470021  LOADING AND UNLOADING ARM, LPG, 2 TOTAL  VAPOR RETURN LINE, 3" DIA.	D1040				C1.46
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470021	D1553				H23.5
<b>System 9: ONE-POSITION DIESEL LOADING</b>					

\* (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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## FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 14: LOADING AND UNLOADING</b>					
LOADING ARM, TANK TRUCK, DIESEL FUEL, DIAMETER: 2 IN A/N: 470022	D515				B22.2, C1.3
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470022	D1469				H23.5
<b>Process 15: STORAGE TANKS</b>					P13.1
<b>System 1: FIXED ROOF STORAGE TANKS</b>					S13.7
STORAGE TANK, FIXED ROOF, NO. 280, METHANOL, 11720 GALS; DIAMETER: 10 FT ; HEIGHT: 20 FT A/N: 470023	D520				E336.2, K67.2
STORAGE TANK, FIXED ROOF, T-1713, METHANOL, 71000 GALS; DIAMETER: 20 FT ; HEIGHT: 30 FT A/N: 470024	D521				E336.2, K67.2
STORAGE TANK, FIXED ROOF, T-122, TFA ADDITIVE, TFA IMPROVER ADDITIVE, 5000 GALS; DIAMETER: 10 FT ; HEIGHT: 10 FT A/N: 470026	D523				C1.21
STORAGE TANK, FIXED ROOF, T-476, CETANE IMPROVER ADDITIVE, CETANE ADDITIVE, 20000 GALS; DIAMETER: 16 FT ; HEIGHT: 15 FT A/N: 470033	D524			<b>VOC: 500 PPMV (8) [40CFR 60 Subpart Kb, 10-15-2003]</b>	C1.22, H23.1
STORAGE TANK, FIXED ROOF, NO. 240, 10080 GALS; DIAMETER: 18 FT ; HEIGHT: 5 FT A/N: 470034	D640				E336.2, K67.2

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

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

## FACILITY PERMIT TO OPERATE 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 2515, 2551 BBL; DIAMETER: 40 FT ; HEIGHT: 12 FT A/N: 470035	D531				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 2530, 2652 BBL; DIAMETER: 40 FT ; HEIGHT: 11 FT 11 IN A/N: 470036	D533				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 2531, 2700 BBL; DIAMETER: 40 FT ; HEIGHT: 11 FT 11 IN A/N: 470037	D534				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 7200, 7225 BBL; DIAMETER: 42 FT ; HEIGHT: 29 FT 4 IN A/N: 470038	D543				B22.1, D90.18, K67.2
STORAGE TANK, FIXED ROOF, NO. 7201, WITH A MIXER, 7221 BBL; DIAMETER: 42 FT ; HEIGHT: 29 FT 4 IN A/N: 470039	D544			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 7501, WASTEWATER SLUDGE, WITH A MIXER, 7423 BBL; DIAMETER: 34 FT 8 IN; HEIGHT: 30 FT 3 IN A/N: 470040	D546			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	C1.27, D90.19, E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 11000, 11259 BBL; DIAMETER: 52 FT 5 IN; HEIGHT: 29 FT 3 IN A/N: 498928	D547				B22.4, C1.49, C1.51, D90.18, E336.2, K67.16

- \* (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 11001, DIESEL FUEL, 11259 BBL; DIAMETER: 52 FT 5 IN; HEIGHT: 29 FT 3 IN A/N: 470045	D548				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 11002, DIESEL FUEL, 11259 BBL; DIAMETER: 52 FT 4 IN; HEIGHT: 29 FT 1 IN A/N: 470046	D549			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	B22.1, D90.18, K67.2
STORAGE TANK, FIXED ROOF, NO. 11003, 11259 BBL; DIAMETER: 52 FT 5 IN; HEIGHT: 29 FT 3 IN A/N: 470048	D550				B22.4, C1.7, D90.18, D90.19, E336.2
STORAGE TANK, FIXED ROOF, NO. 11004, 11259 BBL; DIAMETER: 52 FT 5 IN; HEIGHT: 29 FT 3 IN A/N: 499094	D551				B22.4, C1.49, C1.51, D90.18, E336.2, K67.16
STORAGE TANK, FIXED ROOF, NO. 13501, WITH A MIXER, 13632 BBL; DIAMETER: 52 FT 9 IN; HEIGHT: 35 FT 1 IN A/N: 470050	D552				E336.2, E440.1, E440.2, K67.11
STORAGE TANK, FIXED ROOF, NO. 13500, WITH A MIXER, 13632 BBL; DIAMETER: 52 FT 8 IN; HEIGHT: 35 FT A/N: 470051	D553				E336.2, E440.1, E440.2, K67.11
STORAGE TANK, FIXED ROOF, NO. 13502, 13609 BBL; DIAMETER: 52 FT 9 IN; HEIGHT: 35 FT 1 IN A/N: 470053	D554				E336.2, K67.2

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 13503, 13508 BBL; DIAMETER: 52 FT 6 IN; HEIGHT: 35 FT 1 IN A/N: 470054	D555				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 13504, 13510 BBL; DIAMETER: 52 FT 6 IN; HEIGHT: 35 FT 1 IN A/N: 470055	D556				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 13505, 13313 BBL; DIAMETER: 52 FT 6 IN; HEIGHT: 35 FT 1 IN A/N: 470057	D557				B22.8, C1.26, D90.18, E336.2, K67.8
STORAGE TANK, FIXED ROOF, NO. 13506, 13489 BBL; DIAMETER: 52 FT 4 IN; HEIGHT: 35 FT 1 IN A/N: 470059	D558				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 13507, 13489 BBL; DIAMETER: 52 FT 5 IN; HEIGHT: 35 FT 1 IN A/N: 470060	D559				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 13508, 13434 BBL; DIAMETER: 52 FT 5 IN; HEIGHT: 34 FT 11 IN A/N: 470061	D560				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 13509, 13463 BBL; DIAMETER: 52 FT 5 IN; HEIGHT: 35 FT 1 IN A/N: 470062	D561				B22.8, C1.8, D90.18, E336.2, H23.33, K67.8

\* (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 13510, BRINE WATER, EQUIPPED WITH AN OIL SKIMMER, 13500 BBL; DIAMETER: 52 FT 9 IN; HEIGHT: 35 FT 6 IN A/N: 470292	D562			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	C1.23, E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 13511, BRINE WATER, EQUIPPED WITH AN OIL SKIMMER, 13500 BBL; DIAMETER: 52 FT 9 IN; HEIGHT: 35 FT 6 IN A/N: 470293	D563			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	C1.23, E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 13512, 13488 BBL; DIAMETER: 52 FT 5 IN; HEIGHT: 35 FT 1 IN A/N: 470070	D564				B22.8, C1.8, D90.18, E336.2, H23.33, K67.8
STORAGE TANK, FIXED ROOF, NO. 13513, 13283 BBL; DIAMETER: 52 FT ; HEIGHT: 35 FT A/N: 470071	D565			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 13514, 13286 BBL; DIAMETER: 52 FT ; HEIGHT: 35 FT A/N: 470072	D566				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 13515, 13475 BBL; DIAMETER: 52 FT 5 IN; HEIGHT: 35 FT A/N: 470073	D567			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 13525, 13425 BBL; DIAMETER: 52 FT 3 IN; HEIGHT: 35 FT A/N: 470076	D569				E336.2, K67.2

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

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

## FACILITY PERMIT TO OPERATE 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 13528, 13239 BBL; DIAMETER: 52 FT ; HEIGHT: 35 FT A/N: 470077	D571				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 13529, 13500 BBL; DIAMETER: 52 FT 4 IN; HEIGHT: 35 FT A/N: 470078	D572			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 13530, 13225 BBL; DIAMETER: 52 FT ; HEIGHT: 35 FT A/N: 470081	D573			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 25013, STRIPPED WATER, 24924 BBL; DIAMETER: 71 FT 10 IN; HEIGHT: 35 FT 1 IN A/N: 470295	D574				E336.2
STORAGE TANK, FIXED ROOF, NO. 25014, 24775 BBL; DIAMETER: 75 FT ; HEIGHT: 35 FT A/N: 470082	D575			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 25015, 25000 BBL; DIAMETER: 71 FT 10 IN; HEIGHT: 35 FT 1 IN A/N: 470083	D576			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 25017, 25753 BBL; DIAMETER: 71 FT 1 IN; HEIGHT: 71 FT A/N: 470084	D577			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 25018, 25340 BBL; DIAMETER: 71 FT 1 IN; HEIGHT: 35 FT 1 IN A/N: 470085	D578			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 25019, 25000 BBL; DIAMETER: 71 FT ; HEIGHT: 35 FT A/N: 470086	D579			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 36002, 36932 BBL; DIAMETER: 95 FT ; HEIGHT: 29 FT A/N: 470087	D581				B22.12, H23.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80033, DIESEL FUEL, WITH A MIXER, 80000 BBL; DIAMETER: 117 FT 10 IN; HEIGHT: 41 FT 10 IN A/N: 470088	D582			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	B22.1, D90.18, K67.2
STORAGE TANK, FIXED ROOF, NO. 80034, DIESEL FUEL, WITH A MIXER, 80000 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 8 IN A/N: 470089	D583			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	B22.1, D90.18, K67.2
STORAGE TANK, FIXED ROOF, NO. 80035, DIESEL OIL, INTERMEDIATE GAS OIL, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT A/N: 502823	D584				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80036, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT A/N: 498995	D585				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80038, DIESEL DISTILLATE, 80000 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 8 IN A/N: 470091	D587			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	B22.1, D90.18, K67.2

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

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

## FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 80039, 80122 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 8 IN A/N: 470092	D588			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	B22.1, D90.18, K67.2
STORAGE TANK, NO. 80042, HEAVY CRACKED NAPHTHA, WITH 2 MIXERS, 79976 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470093	D589				C1.29, E336.2
STORAGE TANK, FIXED ROOF, NO. 80043, WASTE WATER, 79453 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470095	D591				B22.1, K67.2
STORAGE TANK, FIXED ROOF, NO. 80044, WITH TWO MIXER, 79847 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 8 IN A/N: 470096	D592				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80049, WITH A MIXER, 80032 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470098	D594				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80050, NAPHTHA, GASOLINE, CRUDE OIL, GAS OIL, DC CHARGE, WITH A MIXER, 80106 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470099	D595				B22.10, C1.5, D90.18, E336.2, K67.8

- \* (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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## FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 80051, WITH A MIXER, 80105 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470100	D596				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80055, 80064 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470101	D597				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80057, WITH A MIXER, 80011 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470103	D599				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80058, HTU-4 CHARGE, WITH INTERNAL HEATING COILS, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 8 IN A/N: 470104	D600				C1.29, E336.2
STORAGE TANK, FIXED ROOF, NO. 80060, GAS OIL, DC CHARGE, BUNKER OIL, CRUDE OIL, WITH A MIXER AND INTERNAL HEATING COILS, 76300 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470105	D602			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	B22.9, C1.4, D90.18, E336.2
STORAGE TANK, FIXED ROOF, NO. 80061, 80074 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470106	D603				E336.2, 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.)
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## FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 80062, 80066 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470107	D604				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80063, WITH A MIXER AND INTERNAL HEATING COILS, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT A/N: 470108	D605			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	B22.1, D90.18, K67.2
STORAGE TANK, FIXED ROOF, HEATED, NO. 80064, GAS OIL, DC CHARGE, BUNKER OIL, CRUDE OIL, WITH A MIXER AND INTERNAL HEATING COILS, 76500 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470109	D606			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	B22.11, C1.37, D90.18, E336.2, K67.8
STORAGE TANK, FIXED ROOF, HEATED, NO. 80065, DC CHARGE, BUNKER OIL, CRUDE OIL, WITH A MIXER AND INTERNAL HEATING COILS, 76500 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470110	D607			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	B22.11, C1.37, D90.18, E336.2, K67.8
STORAGE TANK, FIXED ROOF, HEATED, NO. 80066, DC CHARGE, BUNKER OIL, CRUDE OIL, WITH A MIXER AND INTERNAL HEATING COILS, 75500 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470112	D608			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	B22.9, C1.4, D90.18, E336.2, H23.40

\* (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, HEATED, NO. 80067, WITH A MIXER AND INTERNAL HEATING COILS, 75000 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 5 IN A/N: 470111	D609			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	B22.1, D90.18, K67.2
STORAGE TANK, FIXED ROOF, NO. 80068, WITH A MIXER AND INTERNAL HEATING COILS, 76800 BBL; DIAMETER: 117 FT ; HEIGHT: 44 FT A/N: 470113	D610				K67.2
STORAGE TANK, FIXED ROOF, NO. 80069, 79836 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470114	D611			BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 80070, DIESEL FUEL, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 2 IN A/N: 470115	D612			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.2
STORAGE TANK, FIXED ROOF, NO. 80073, WITH INTERNAL HEATING COILS, 79980 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470118	D615			BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80074, WITH A MIXER, 79675 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 9 IN A/N: 470119	D616			BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	E336.2, K67.2

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

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

## FACILITY PERMIT TO OPERATE 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 80077, 79973 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 9 IN A/N: 470122	D619			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80078, WITH INTERNAL HEATING COILS, 79864 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470123	D620			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80080, WITH A MIXER AND INTERNAL HEATING COILS, 79808 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 9 IN A/N: 470125	D622				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80081, WITH A MIXER AND INTERNAL HEATING COILS, 80093 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470126	D623			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, HEATED, NO. 80082, HARVEST BLEND, WITH A SIDE MIXER, 76000 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN A/N: 470127	D624				C1.30, E336.2
STORAGE TANK, FIXED ROOF, NO. 80083, WITH INTERNAL HEATING COILS, 80189 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 6 IN A/N: 470128	D625			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2

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

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

## FACILITY PERMIT TO OPERATE 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 80084, WITH A MIXER AND INTERNAL HEATING COILS, 80000 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 9 IN A/N: 470129	D626			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 80085, WITH A MIXER AND INTERNAL HEATING COILS, 80175 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 9 IN A/N: 470130	D627			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 80087, WITH INTERNAL HEATING COILS AND A MIXER, 80175 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 10 IN A/N: 470131	D628			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 80089, FC HEAVY GAS OIL, WITH TWO MIXERS AND INTERNAL HEATING COILS, 80000 BBL; DIAMETER: 119 FT 10 IN; HEIGHT: 41 FT 2 IN A/N: 470132	D629			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	K67.2
STORAGE TANK, FIXED ROOF, NO. 80091, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT A/N: 498996	D631				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80219, 80131 BBL; DIAMETER: 117 FT 1 IN; HEIGHT: 41 FT 9 IN A/N: 470136	D633			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	E336.2, H23.10, H23.40, K67.2

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 80220, WITH ONE MIXER, 80021 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 10 IN A/N: 470137	D634				E336.2, H23.9, K67.2
STORAGE TANK, FIXED ROOF, NO. 80221, WITH TWO MIXERS, 80025 BBL; DIAMETER: 117 FT ; HEIGHT: 42 FT A/N: 470141	D598			<b>VOC: 500 PPMV (8) [40CFR 60 Subpart Kb, 10-15-2003]</b>	E336.2, H23.1, K67.2
STORAGE TANK, FIXED ROOF, HEATED, NO. 125000, WITH INTERNAL HEATING COILS, 112000 BBL; DIAMETER: 148 FT 6 IN; HEIGHT: 40 FT 9 IN A/N: 470143	D636				E336.2, K67.2
STORAGE TANK, FIXED ROOF, HEATED, NO. 125001, WITH INTERNAL HEATING COILS, 112000 BBL; DIAMETER: 148 FT 6 IN; HEIGHT: 40 FT 9 IN A/N: 470144	D637				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 20426, WITH OIL SKIMMER, HEIGHT: 40 FT ; DIAMETER: 60 FT A/N: 470145	D639			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	B22.3, C1.19, D90.18, E336.2, H23.33, H23.40
STORAGE TANK, FIXED ROOF, NO. 96059, WITH TWO MIXERS, 96000 BBL; DIAMETER: 120 FT ; HEIGHT: 48 FT A/N: 470146	D982			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	B22.8, C1.40, D90.18, E336.2, H23.1, K67.8

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

\*\* 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 107, STRIPPED SOUR WATER, 100 BBL; DIAMETER: 8 FT ; HEIGHT: 12 FT A/N: 470148	D1500				C1.28, D90.19, E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 36001, DIESEL FUEL, 36000 BBL; DIAMETER: 95 FT ; HEIGHT: 29 FT A/N: 470149	D1555			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	B22.1, D90.18, K67.2
STORAGE TANK, FIXED ROOF, NO. 13516, LIGHT CYCLE GAS OIL, HYDROTREATED COKER GAS OIL, HYDRODESULFURIZED GAS OIL, COKER HEAVY GAS OIL, 13000 BBL; DIAMETER: 52 FT ; HEIGHT: 35 FT A/N: 470142	D568			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	B22.1, D90.18, K67.2
STORAGE TANK, FIXED ROOF, NO. 80037, LIGHT CYCLE GAS OIL, HYDROTREATED COKER GAS OIL, HYDRODESULFURIZED GAS OIL, COKER HEAVY GAS OIL, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT A/N: 470090	D586			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	B22.1, D90.18, K67.2
STORAGE TANK, FIXED ROOF, NO. 80092, LIGHT CYCLE GAS OIL, HYDROTREATED COKER GAS OIL, HYDRODESULFURIZED GAS OIL, COKER HEAVY GAS OIL, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT A/N: 470135	D632			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	B22.1, D90.18, 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 118066, LIGHT CYCLE GAS OIL, HYDROTREATED COKER GAS OIL, HYDRODESULFURIZED GAS OIL, COKER HEAVY GAS OIL, 118000 BBL; DIAMETER: 150 FT ; HEIGHT: 42 FT A/N: 470074	D635			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	B22.1, D90.18, K67.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470149	D1470				H23.5
<b>System 2: EXTERNAL FLOATING ROOF STORAGE TANKS</b>					S13.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 76000, WITH A MIXER, 76000 BBL; DIAMETER: 115 FT ; HEIGHT: 41 FT WITH A/N: 470150  FLOATING ROOF, PONTOON, RIVETED SHELL  PRIMARY SEAL	D647			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.1, D90.18, K67.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470150	D1471				H23.5
<b>System 3: PRESSURIZED STORAGE TANKS</b>					S13.6, S15.1, S31.1
STORAGE TANK, PRESSURIZED, NO. 776, LIQUIFIED PETROLEUM GAS, 30000 GALS; DIAMETER: 9 FT 11 IN; LENGTH: 57 FT 1 IN A/N: 470153	D662				

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, PRESSURIZED, NO. 777, LIQUIFIED PETROLEUM GAS, 30000 GALS; DIAMETER: 9 FT 11 IN; LENGTH: 57 FT 1 IN A/N: 470154	D663				
STORAGE TANK, PRESSURIZED, NO. 778, LIQUIFIED PETROLEUM GAS, 30000 GALS; DIAMETER: 9 FT 11 IN; LENGTH: 57 FT 1 IN A/N: 470155	D664				
STORAGE TANK, PRESSURIZED, NO. 779, LIQUIFIED PETROLEUM GAS, 30000 GALS; DIAMETER: 9 FT 11 IN; LENGTH: 57 FT 1 IN A/N: 470156	D665				
STORAGE TANK, PRESSURIZED, NO. 780, LIQUIFIED PETROLEUM GAS, 30000 GALS; DIAMETER: 9 FT 11 IN; LENGTH: 57 FT 1 IN A/N: 470157	D666				
STORAGE TANK, PRESSURIZED, NO. 1501, LIQUIFIED PETROLEUM GAS, 62515 GALS; DIAMETER: 11 FT ; HEIGHT: 80 FT 6 IN A/N: 470158	D667				
STORAGE TANK, PRESSURIZED, NO. 1502, LIQUIFIED PETROLEUM GAS, 62515 GALS; DIAMETER: 11 FT ; LENGTH: 80 FT 6 IN A/N: 470159	D669				

- \* (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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## 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, PRESSURIZED, NO. 1503, LIQUIFIED PETROLEUM GAS, 62525 GALS; DIAMETER: 12 FT ; LENGTH: 80 FT 6 IN A/N: 470160	D670				
STORAGE TANK, PRESSURIZED, NO. 6000, LIQUIFIED PETROLEUM GAS, SPHERICAL, 251250 GALS; DIAMETER: 40 FT 6 IN A/N: 470161	D671				
STORAGE TANK, PRESSURIZED, NO. 6001, LIQUIFIED PETROLEUM GAS, SPHERICAL, 249186 GALS; DIAMETER: 40 FT 6 IN A/N: 470162	D672				
STORAGE TANK, PRESSURIZED, NO. 600, LIQUIFIED PETROLEUM GAS, 24570 GALS; DIAMETER: 7 FT ; LENGTH: 90 FT 1 IN A/N: 470163	D673				
STORAGE TANK, PRESSURIZED, NO. 1545, LIQUIFIED PETROLEUM GAS, 72100 GALS; DIAMETER: 12 FT ; LENGTH: 77 FT 6 IN A/N: 470164	D674				
STORAGE TANK, PRESSURIZED, NO. 1546, LIQUIFIED PETROLEUM GAS, 72100 GALS; DIAMETER: 12 FT ; LENGTH: 77 FT 6 IN A/N: 470167	D675				

\* (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, PRESSURIZED, NO. 1547, LIQUIFIED PETROLEUM GAS, 72100 GALS; DIAMETER: 12 FT ; LENGTH: 77 FT 6 IN A/N: 470169	D676				
STORAGE TANK, PRESSURIZED, NO. 1703, LIQUIFIED PETROLEUM GAS, 71600 GALS; DIAMETER: 12 FT ; LENGTH: 90 FT 1 IN A/N: 470170	D677				
STORAGE TANK, PRESSURIZED, NO. 1705, LIQUIFIED PETROLEUM GAS, 71736 GALS; DIAMETER: 12 FT ; LENGTH: 90 FT 1 IN A/N: 470171	D678				
STORAGE TANK, PRESSURIZED, NO. 1709, LIQUIFIED PETROLEUM GAS, 71736 GALS; DIAMETER: 12 FT ; LENGTH: 90 FT 1 IN A/N: 470172	D679				
STORAGE TANK, PRESSURIZED, NO. 1710, LIQUIFIED PETROLEUM GAS, 71736 GALS; DIAMETER: 12 FT ; LENGTH: 90 FT 1 IN A/N: 470173	D680				
STORAGE TANK, PRESSURIZED, NO. 5009, LIQUIFIED PETROLEUM GAS, SPHERICAL, 207000 GALS; DIAMETER: 38 FT A/N: 470174	D681				

\* (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, PRESSURIZED, NO. 5010, LIQUIFIED PETROLEUM GAS, SPHERICAL, 206052 GALS; DIAMETER: 36 FT A/N: 470175	D682				
STORAGE TANK, PRESSURIZED, NO. 12001, LIQUIFIED PETROLEUM GAS, SPHERICAL, 507570 GALS; DIAMETER: 51 FT A/N: 470176	D683				
STORAGE TANK, PRESSURIZED, NO. 12002, LIQUIFIED PETROLEUM GAS, SPHERICAL, 507192 GALS; DIAMETER: 51 FT A/N: 470177	D684				
STORAGE TANK, PRESSURIZED, NO. 12003, LIQUIFIED PETROLEUM GAS, SPHERICAL, 504882 GALS; DIAMETER: 51 FT A/N: 470179	D685				
STORAGE TANK, PRESSURIZED, NO. 12004, LIQUIFIED PETROLEUM GAS, SPHERICAL, 504882 GALS; DIAMETER: 51 FT A/N: 470207	D686				
STORAGE TANK, PRESSURIZED, NO. 50000, SPHERICAL, PENTANE, 50000 BBL; DIAMETER: 82 FT A/N: 470296	D1502				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470207	D1472				H23.5
<b>System 4: FRESH/SPENT H2SO4 STORAGE TANKS</b>					S15.7

- |   |   |
|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. 4010, 4000 BBL; DIAMETER: 36 FT ; HEIGHT: 22 FT A/N: 470211	D527				
STORAGE TANK, FIXED ROOF, NO. 4011, 4000 BBL; DIAMETER: 36 FT ; HEIGHT: 22 FT A/N: 470212	D528				
<b>System 5: DOMED EXTERNAL FLOATING ROOF STORAGE TANKS</b>					S13.9
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 80209, WITH A MIXER, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 40 FT WITH A/N: 470297  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY A, RIM MOUNTED, WIPER TYPE  GUIDEPOLE, GASKETED COVER, UNSLOTTED	D648			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	C1.33, D90.19, H23.1, H23.31, K67.2

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

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

## FACILITY PERMIT TO OPERATE 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 80211, WITH TWO MIXERS, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 42 FT WITH A/N: 470213  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  DOME COVER, GEODESIC  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED COVER, UNSLOTTED	D650			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.2

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

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

## FACILITY PERMIT TO OPERATE 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 80213, ALKYLATE, WITH TWO MIXERS, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 42 FT WITH A/N: 470215  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  DOME COVER, GEODESIC  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED COVER, UNSLOTTED	D652			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	C1.31, K67.2

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

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

## FACILITY PERMIT TO OPERATE 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 80214, WITH TWO MIXERS, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 40 FT WITH A/N: 470217  FLOATING ROOF, PONTOON, WELDED SHELL  DOME COVER, GEODESIC  PRIMARY SEAL, CATEGORY A, WIPER TYPE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D653			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	C1.35, K67.2

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

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

## FACILITY PERMIT TO OPERATE 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 80217, WITH TWO MIXERS, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 40 FT WITH A/N: 470218  FLOATING ROOF, PONTOON, WELDED SHELL  DOME COVER, GEODESIC  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED COVER, UNSLOTTED	D656			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.2

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

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

## FACILITY PERMIT TO OPERATE 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 125002, ALKYLATE/GASOLINE, 125000 BBL; DIAMETER: 150 FT ; HEIGHT: 40 FT WITH A/N: 470298  FLOATING ROOF, PONTOON, WELDED SHELL  DOME COVER, GEODESIC  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED COVER, UNSLOTTED	D659			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	C1.36, C6.2, H23.33, K67.9

\* (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 125004, ALKYLATE, 125000 BBL; DIAMETER: 134 FT ; HEIGHT: 50 FT WITH A/N: 470219  FLOATING ROOF, PONTOON, WELDED SHELL, WITH GEODESIC DOME COVER  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED COVER, UNSLOTTED	D1078			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.8, C1.32, D90.18, H23.1
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 80210, WITH A MIXER, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 60 FT WITH A/N: 470299  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D649			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	C1.41, D90.19, 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 125003, WITH TWO MIXERS, 125000 BBL; DIAMETER: 150 FT ; HEIGHT: 40 FT WITH A/N: 470300  FLOATING ROOF, PONTOON, WELDED SHELL  DOME COVER, GEODESIC  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D660			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	C6.2, K67.9

\* (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 80215, WITH TWO MIXERS, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 40 FT WITH A/N: 470220  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, WIPER TYPE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED COVER, UNSLOTTED	D654			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.8, C1.18, D90.18, K67.2

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

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

## FACILITY PERMIT TO OPERATE 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 80216, GASOLINE, WITH TWO MIXERS, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 40 FT WITH A/N: 470221  FLOATING ROOF, PONTOON, WELDED SHELL  DOME COVER, GEODESIC  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED COVER, UNSLOTTED	D655			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	C1.32, K67.2

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

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

## FACILITY PERMIT TO OPERATE 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 80212,, WITH TWO MIXERS, 80000 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 42 FT WITH A/N: 470222  DOME COVER, GEODESIC  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED COVER, UNSLOTTED	D651			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.2, K171.2

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

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

## FACILITY PERMIT TO OPERATE 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 96000,, GASOLINE, WITH TWO MIXERS, 96000 BBL; DIAMETER: 120 FT ; HEIGHT: 48 FT WITH A/N: 470223  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED COVER, UNSLOTTED	D658			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	C1.33, K67.2, K171.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470223	D1362				H23.5
<b>System 6: STORAGE TANKS, OTHERS</b>					
STORAGE TANK, FIXED ROOF, NO. 1000, PERCHLOROETHYLENE, 1000 GALS; DIAMETER: 5 FT 4 IN; HEIGHT: 6 FT A/N: 470301	D1533				B59.2, C1.34, K67.17
<b>System 7: INTERNAL FLOATING ROOF TANKS</b>					S13.7

\* (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: 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 80076, WITH INTERNAL HEATING COILS, 79727 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 9 IN WITH A/N: 495451  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, MULTIPLE WIPERS, RIM MOUNTED	D618			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	B59.5, C1.47, C6.4, K67.15, K171.3
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 80079, WITH A MIXER AND INTERNAL HEATING COILS, 79739 BBL; DIAMETER: 117 FT ; HEIGHT: 42 FT WITH A/N: 495452  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, MULTIPLE WIPERS, RIM MOUNTED	D621			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	B59.5, C1.47, C6.4, K67.15, K171.3

- \* (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 80090, WITH TWO MIXERS AND INTERNAL HEATING COILS, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 43 FT WITH A/N: 476389  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, MULTIPLE WIPERS, RIM MOUNTED	D630			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B59.4, C1.42, C6.4, H23.1, K67.12
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 476389	D1363				H23.5

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

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

## FACILITY PERMIT TO OPERATE 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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 80071, 79774 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 9 IN WITH A/N: 509883   FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, MULTIPLE WIPERS, RIM MOUNTED	D613			<b>BENZENE: (10) [40CFR 61            Subpart FF, #1, 12-4-2003]; HAP:            (10) [40CFR 63 Subpart CC, #2,            6-23-2003]; VOC: 500 PPMV (8)            [40CFR 60 Subpart Kb,            10-15-2003; 40CFR 61 Subpart            FF, 12-4-2003]</b>	B59.4, C1.47, C6.4, H23.1, K67.15, K171.3

\* (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 80072, 79965 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN WITH A/N: 515442  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, MULTIPLE WIPERS, RIM MOUNTED  GUIDEPOLE, SLOTTED, WITH GASKETED SLIDING COVER WITH POLE WIPER, AND A POLE FLOAT WIPER	D614			<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	B59.8, C1.54, C6.4, H23.1, K67.15, K171.3

\* (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 80075, 79812 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 10 IN WITH A/N: 509881  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, MULTIPLE WIPERS, RIM MOUNTED  GUIDEPOLE, SLOTTED, WITH GASKETED SLIDING COVER WITH POLE WIPER, AND A POLE FLOAT WIPER	D617			<b>BENZENE:</b> (10) [40CFR 61 <b>Subpart FF, #1, 12-4-2003]; HAP:</b> (10) [40CFR 63 Subpart CC, <b>#3A, 6-23-2003]; VOC:</b> 500 PPMV (8) [40CFR 61 Subpart <b>FF, 12-4-2003]</b>	B59.4, C1.54, C6.4, H23.1, K67.15, K171.3

\* (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
<b>Process 15: STORAGE TANKS</b>					P13.1
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 80045, WITH A MIXER, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 42 FT WITH A/N: 518304  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, MULTIPLE WIPERS, RIM MOUNTED  GUIDEPOLE, SLOTTED, WITH GASKETED SLIDING COVER WITH POLE WIPER, AND A POLE FLOAT WIPER	D593			<b>HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]; VOC: 500 PPMV (8) [40CFR 60 Subpart Kb, 10-15-2003; 40CFR 61 Subpart FF, 12-4-2003]</b>	B59.9, C1.53, C6.4, H23.1, K67.15, K171.3
<b>Process 17: ELECTRIC GENERATION</b>					
<b>System 1: EMERGENCY INTERNAL COMBUSTION ENGINES</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, VOLVO-PENTA, MODEL TD61, PORTABLE, 146 HP A/N: 470224	D713		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	<b>NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]</b>	B61.2, C1.17, C177.1, D12.2, D135.1, K67.1

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

\*\* 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
<b>Process 17: ELECTRIC GENERATION</b>					
INTERNAL COMBUSTION ENGINE, C-161, DIESEL FUEL, JOHN DEERE, MODEL 31791R, 2 CYLINDERS, FOUR CYCLE, NATURALLY ASPIRATED, 55 HP A/N: 470225	D714		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.2, C1.17, D12.2, D135.1, K67.1
INTERNAL COMBUSTION ENGINE, C-156, EMERGENCY AIR, DIESEL FUEL, CUMMINS, MODEL NTA-855, 6 CYLINDERS, FOUR CYCLE, SERIAL NO. 11642155, WITH AFTERCOOLER, TURBOCHARGER, 435 BHP A/N: 484957	D1100		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.2, C1.17, D12.2, K67.1
INTERNAL COMBUSTION ENGINE, C-157, EMERGENCY AIR, DIESEL FUEL, CUMMINS, MODEL NTA-855, 6 CYLINDERS, FOUR CYCLE, SERIAL NO. 11680463, WITH AFTERCOOLER, TURBOCHARGER, 435 BHP A/N: 484958	D1101		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.2, C1.17, D12.2, K67.1
INTERNAL COMBUSTION ENGINE, C-158, EMERGENCY AIR, DIESEL FUEL, CUMMINS, MODEL NTA-855, 6 CYLINDERS, FOUR CYCLE, SERIAL NO. 11661695, WITH AFTERCOOLER, TURBOCHARGER, 435 BHP A/N: 484959	D1102		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.2, C1.17, D12.2, K67.1
INTERNAL COMBUSTION ENGINE, C-159, EMERGENCY AIR, DIESEL FUEL, CUMMINS, MODEL NTA-855, 6 CYLINDERS, FOUR CYCLE, SERIAL NO. 11661698, WITH AFTERCOOLER, TURBOCHARGER, 435 BHP A/N: 484960	D1103		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.2, C1.17, D12.2, K67.1

- |   |   |
|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 17: ELECTRIC GENERATION</b>					
INTERNAL COMBUSTION ENGINE, C-160, EMERGENCY AIR, DIESEL FUEL, CUMMINS, MODEL NTA-855, 6 CYLINDERS, FOUR CYCLE, SERIAL NO. 11671783, WITH AFTERCOOLER, TURBOCHARGER, 435 BHP A/N: 484961	D1104		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.2, C1.17, D12.2, K67.1
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, 6 CYLINDERS, DIESEL FUEL, DETROIT DIESEL, MODEL DDFP-L6FA, SERIAL NO. 6VF-213457, WITH AFTERCOOLER, TURBOCHARGER, 287 BHP A/N: 484513	D1123		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.2, C1.17, C1.44, C1.48, D12.2, K67.1
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE WATER, ENG-76, 6 CYLINDERS, DIESEL FUEL, CATERPILLAR, MODEL C15ACERT, SERIAL NO. JRE06392, WITH AFTERCOOLER, TURBOCHARGER, 475 BHP A/N: 481814	D1617		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 3 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; PM: (9) [RULE 404, 2-7-1986]; PM10: 0.15 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.6, C1.43, C1.44, C1.45, D12.13, H23.36, I296.1, K67.13

\* (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.

## 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
<b>Process 17: ELECTRIC GENERATION</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE WATER, ENG-78, 6 CYLINDERS, DIESEL FUEL, CATERPILLAR, MODEL C15ACERT, SERIAL NO. JRE06395, WITH AFTERCOOLER, TURBOCHARGER, 475 BHP A/N: 481815	D1618		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 3 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; PM: (9) [RULE 404, 2-7-1986]; PM10: 0.15 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.6, C1.43, C1.44, C1.45, D12.13, H23.36, I296.1, K67.13
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE WATER, ENG-77, 6 CYLINDERS, DIESEL FUEL, JOHN DEERE, MODEL 6125HF070, SERIAL NO. RG6125H042377, WITH AFTERCOOLER, TURBOCHARGER, 500 BHP A/N: 481818	D1645		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 4.9 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; PM: (9) [RULE 404, 2-7-1986]; PM10: 0.15 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.6, C1.43, C1.44, C1.45, D12.13, H23.36, I296.1, K67.13

\* (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.

## 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
<b>Process 17: ELECTRIC GENERATION</b>					
INTERNAL COMBUSTION ENGINE, C-18, EMERGENCY FIRE WATER, 6 CYLINDERS, DIESEL FUEL, CATERPILLAR, MODEL C18, SERIAL NO. WJH05543, WITH AFTERCOOLER, TURBOCHARGER, 700 BHP A/N: 481817	D1646		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 3 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; PM: (9) [RULE 404, 2-7-1986]; PM10: 0.15 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.6, C1.43, C1.44, C1.45, D12.13, H23.36, I296.1, K67.13
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE WATER, 6 CYLINDERS, DIESEL FUEL, JOHN DEERE, MODEL 6125HF070, SERIAL NO. RG6125H08, WITH AFTERCOOLER, TURBOCHARGER, 375 BHP A/N: 484509	D1659		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 4.9 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; PM: (9) [RULE 404, 2-7-1986]; PM10: 0.15 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.6, C1.43, C1.44, C1.45, D12.13, H23.36, K67.13

\* (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
<b>Process 17: ELECTRIC GENERATION</b>					
<b>System 2: COGENERATION UNIT A</b>					
TURBINE, A, NATURAL GAS, REFINERY GAS, UNITED TECHNOLOGIES, MODEL FT4, WITH WATER INJECTION, 392 MMBTU/HR WITH A/N: 470302  GENERATOR, ELECTRIC, 30 MW  BOILER, WASTE HEAT RECOVERY, UNFIRED  INJECTOR, WATER INJECTION  MIST ELIMINATOR, DOLLINGER, OE-158-300	D810	C811	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 96 PPMV (8) [40CFR 60 Subpart GG, 2-24-2006]; PM: 0.01 GRAINS/SCF (5) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 11 LBS/HR (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]	A63.3, A63.4, A327.1, B61.5, B61.9, D12.3, D29.2, D90.7, D90.10, D328.1, E51.2, E71.4, H23.18
CO OXIDATION CATALYST, JOHNSON MATTHEY A/N: 470302	C811	D810 C1536			D82.1
FILTER, V-1584, KING FILTER A A/N: 470302	D1648	D752 D753			
COMPRESSOR, C-127-129, FUEL GAS, 3 TOTAL, COMMON TO BOTH COGENERATION SYSTEM A AND B A/N: 470302	D973				

- \* (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
<b>Process 17: ELECTRIC GENERATION</b>					
SELECTIVE CATALYTIC REDUCTION, FIXED BED REACTOR, VANADIUM-TITANIUM-TUNGSTEN CATALYST, HALDOR TOPSOE OR EQUIVALENT, WAFER TYPE, 1226.83 CU.FT.; WIDTH: 12 FT 5 IN; HEIGHT: 31 FT ; LENGTH: 3 FT 6 IN WITH  A/N: 470303  INJECTOR, ANHYDROUS AMMONIA	C1536	C811		NH3: 5 PPMV (4) [RULE 1303(a) (1)-BACT, 5-10-1996]	A195.1, D12.6, D12.7, D12.8, D29.5, E73.1, E179.1, E179.2
FUGITIVE EMISSIONS, MISCELLANEOUS  A/N: 470302	D1415				H23.5
<b>System 3: COGENERATION UNIT B</b>					
TURBINE, B, NATURAL GAS, REFINERY GAS, UNITED TECHNOLOGIES, MODEL FT4, WITH WATER INJECTION, 392 MMBTU/HR WITH  A/N: 470304  GENERATOR, ELECTRIC, 30 MW  BOILER, WASTE HEAT RECOVERY, UNFIRED  INJECTOR, WATER INJECTION  MIST ELIMINATOR, DOLLINGER, OE-158-300	D812	C813	NOX: MAJOR SOURCE**, SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 96 PPMV (8) [40CFR 60 Subpart GG, 2-24-2006]; PM: 0.01 GRAINS/SCF (5) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 11 LBS/HR (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]	A63.3, A63.4, A327.1, B61.5, B61.9, D12.3, D29.2, D90.7, D90.10, D328.1, E51.4, E71.4, H23.18

\* (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
<b>Process 17: ELECTRIC GENERATION</b>					
CO OXIDATION CATALYST, JOHNSON MATHEY A/N: 470304	C813	D812 C1538			D82.1
FILTER, V-1585, KING FILTER B A/N: 470304	D1651	D752 D753			
COMPRESSOR, C-127-129, FUEL GAS, 3 TOTAL, COMMON TO BOTH COGENERATION SYSTEM A AND B A/N: 470302	D973				
SELECTIVE CATALYTIC REDUCTION, FIXED BED REACTOR, VANADIUM-TITANIUM-TUNGSTE N CATALYST, HALDOR TOPSOE OR EQUIVALENT, WAFER TYPE, 1226.83 CU.FT.; WIDTH: 12 FT 5 IN; HEIGHT: 31 FT ; LENGTH: 3 FT 6 IN WITH INJECTOR, ANHYDROUS AMMONIA	C1538	C813		NH3: 5 PPMV (4) [RULE 1303(a) (1)-BACT, 5-10-1996]	A195.1, D12.6, D12.7, D12.8, D29.5, E73.1, E179.1, E179.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470304	D1425				H23.5
<b>Process 18: STEAM GENERATION</b>					
BOILER, BO-7, PROCESS GAS, REFINERY GAS, BABCOCK AND WILCOX, MODEL SPL-F25AB NO. 12, OR 110000 LB/HR OF 225 PSIG STEAM (PROCESS GAS FROM FUME SCRUBBER OF P21/S2), 183.54 MMBTU/HR A/N: 470234	D722	D449 D450 S874	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.4, B61.1, C1.1, C8.2, D90.7, D90.17, D328.1, H23.3

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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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 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
<b>Process 18: STEAM GENERATION</b>					
BOILER, BO-8, PROCESS GAS, REFINERY GAS, BABCOCK AND WILCOX, MODEL SPL-F25AB NO. 12, OR 110000 LB/HR OF 225 PSIG STEAM (PROCESS GAS FROM FUME SCRUBBER OF P21/S2), 183.54 MMBTU/HR A/N: 470235	D723	D449 D450 S874	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.4, B61.1, C1.1, C8.2, D90.7, D90.17, D328.1, H23.3
STACK A/N: 470235	S874	D722 D723			
BOILER, BO-9, PROCESS GAS, REFINERY GAS, BABCOCK AND WILCOX, MODEL SPL-F25AB NO. 12, OR 110000 LB/HR OF 225 PSIG STEAM (PROCESS GAS FROM FUME SCRUBBER OF P21/S2), 183.54 MMBTU/HR A/N: 470240	D724	D449 D450 S1028	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.4, B61.1, C1.1, C8.2, D90.7, D90.17, D328.1, H23.3
BOILER, BO-10, PROCESS GAS, REFINERY GAS, BABCOCK AND WILCOX, MODEL SPL-F25AB NO. 12, OR 110000 LB/HR OF 225 PSIG OF STEAM (PROCESS GAS FROM FUME SCRUBBER OF P21/S2), 183.54 MMBTU/HR A/N: 470241	D725	D449 D450 S1028	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.4, B61.1, C1.1, C8.2, D90.7, D90.17, D328.1, H23.3
STACK A/N: 470241	S1028	D724 D725			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470241	D1416				H23.5
<b>Process 19: MISCELLANEOUS</b>					
<b>System 1: FUEL STORAGE &amp; DISPENSING</b>					S13.8

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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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 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
<b>Process 19: MISCELLANEOUS</b>					
FUEL DISPENSING NOZZLE, BALANCE TYPE PHASE II CONTROL, GASOLINE A/N: 470243	D734				D330.1, J110.1
STORAGE TANK, FIXED ROOF, NO. 15W, CONVAULT TYPE (G-70-116-F), GASOLINE, WITH SUBMERGED FILLING, 1000 GALS; WIDTH: 5 FT 8 IN; HEIGHT: 4 FT ; LENGTH: 11 FT A/N: 470243	D728				C1.12, J109.1, J119.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470244	D1473				H23.5
<b>System 2: FUEL STORAGE &amp; DISPENSING</b>					S13.8
FUEL DISPENSING NOZZLE, BALANCE TYPE PHASE II CONTROL, GASOLINE A/N: 469254	D1320				D330.1, J110.1
STORAGE TANK, FIXED ROOF, NO. 16E, CONVAULT TYPE (G-70-116-F), GASOLINE, 1000 GALS; WIDTH: 5 FT 8 IN; HEIGHT: 4 FT ; LENGTH: 11 FT A/N: 469254	D1321				C1.12, J109.1, J119.1
<b>System 3: FUEL GAS MIX SYSTEM</b>					S13.4, S15.2
DRUM, V-536, SOUTH FUEL GAS MIX, LENGTH: 40 FT ; DIAMETER: 10 FT A/N: 470245	D888				
DRUM, V-1222, NORTH FUEL GAS MIX, LENGTH: 33 FT ; DIAMETER: 12 FT A/N: 470245	D889				

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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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 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
<b>Process 19: MISCELLANEOUS</b>					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470245	D1556				H23.5
<b>System 4: SUMPS</b>					
SUMP, FIXED ROOF, WASTE OIL RECOVERY, 10000 GALS; WIDTH: 10 FT ; HEIGHT: 10 FT ; LENGTH: 10 FT A/N: 470244	D526				E336.2, H23.40
SUMP, FIXED ROOF, NO. 29, LAB WASTEWATER, 1400 GALS; DIAMETER: 6 FT ; LENGTH: 7 FT A/N: 470147	D1095	C1096		<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]; <b>VOC:</b> 500 PPMV (5) [RULE 1176, 9-13-1996]	E71.10, H23.40, K67.2
ADSORBER, TWO IN SERIES AND ONE STANDBY, 3 TOTAL, EACH CONTAINING 2000 POUNDS OF ACTIVATED CARBON A/N: 470147	C1096	D1095		<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>VOC:</b> 50 PPMV (8A) [CONSENT DECREE, 3-21-2001]; <b>VOC:</b> 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	D90.4, E153.1, H23.40
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470147	D1572				
<b>System 5: AMMONIA STORAGE</b>					
STORAGE TANK, PRESSURIZED, V-1058, AMMONIA, 250 PSIG TOTAL, LENGTH: 36 FT 9 IN; DIAMETER: 9 FT A/N: 470247	D311				B59.3, E71.12, K67.10
<b>Process 21: AIR POLLUTION CONTROL</b>					
<b>System 1: REFINERY FLARE</b>					
					S13.4, S18.2

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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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 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
<b>Process 21: AIR POLLUTION CONTROL</b>					
FLARE, ELEVATED WITH STEAM INJECTION, NO.2, Q-910, JOHN ZINK, MODEL STF-S-30, HEIGHT: 250 FT ; DIAMETER: 2 FT 6 IN A/N:	C747				D12.4, D323.2, E193.1, H23.38, I1.1
FLARE, ELEVATED WITH STEAM INJECTION, NO.1, Q-913, JOHN ZINK, MODEL STF-S-30, HEIGHT: 250 FT ; DIAMETER: 2 FT 6 IN A/N:	C748				D12.4, D323.2, E193.1, H23.38, I1.1
KNOCK OUT POT, V-847, FLARE NO. 2, LENGTH: 24 FT ; DIAMETER: 12 FT A/N:	D752	D1648 D1651			
KNOCK OUT POT, V-848, FLARE NO. 1, LENGTH: 24 FT ; DIAMETER: 12 FT A/N:	D753	D1648 D1651			
KNOCK OUT POT, V-616, CRU-HTU NO. 1, LENGTH: 16 FT ; DIAMETER: 8 FT A/N:	D750				
KNOCK OUT POT, V-630, CRU-HTU NO. 2, LENGTH: 19 FT ; DIAMETER: 6 FT A/N:	D751				
KNOCK OUT POT, V-873, CRU NO. 3, LENGTH: 18 FT ; DIAMETER: 9 FT A/N:	D754				
KNOCK OUT POT, V-934, DCU, LENGTH: 25 FT ; DIAMETER: 12 FT A/N:	D755				
KNOCK OUT POT, V-951, HGU NO. 1, LENGTH: 40 FT ; DIAMETER: 10 FT A/N:	D756				

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

\*\* 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
<b>Process 21: AIR POLLUTION CONTROL</b>					
KNOCK OUT POT, V-1018, HCU, LENGTH: 29 FT ; DIAMETER: 14 FT 6 IN A/N:	D757				
KNOCK OUT POT, V-1431,ALKYLATION UNIT, LENGTH: 35 FT ; DIAMETER: 11 FT A/N:	D758				
KNOCK OUT POT, V-1472, HTU NO. 3, LENGTH: 23 FT 8 IN; DIAMETER: 9 FT 3 IN A/N:	D759				
KNOCK OUT POT, V-1764, HTU-4, HEIGHT: 36 FT ; DIAMETER: 13 FT A/N:	D172				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1419				H23.5
<b>System 2: FUME SCRUBBERS</b>					S13.4, S18.3
SCRUBBER, V-146/V-154, HEIGHT: 25 FT 3 IN; DIAMETER: 6 FT A/N: 470257	C761				C8.3, D90.6
SCRUBBER, V-673, CAUSTIC, HEIGHT: 25 FT 6 IN; DIAMETER: 6 FT A/N: 470257	C762				C8.3, D90.6
KNOCK OUT POT, V-671, NORTH, HEIGHT: 25 FT 3 IN; DIAMETER: 6 FT A/N: 470257	D763				

\* (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
<b>Process 21: AIR POLLUTION CONTROL</b>					
KNOCK OUT POT, V-672, SOUTH, HEIGHT: 25 FT 3 IN; DIAMETER: 6 FT A/N: 470257	D1087				
DRUM, ACID WASH WATER, V-1214, HEIGHT: 8 FT ; DIAMETER: 2 FT 6 IN A/N: 470257	C1638				
DRUM, ACID WASH WATER, V-250, HEIGHT: 8 FT ; DIAMETER: 2 FT 6 IN A/N: 470257	C1639				
<b>System 3: REFINERY VAPOR RECOVERY COMPRESSORS SYSTEM</b>					S11.3, S13.4, S15.11, S18.1
COMPRESSOR, C-68, INGERSOLL-RAND, TWO-STAGE, 350 H.P. A/N:	D641				
COMPRESSOR, C-69, INGERSOLL-RAND, TWO-STAGE, 350 H.P. A/N:	D642				H23.4
COMPRESSOR, C-104, WORTHINGTON, TWO-STAGE, 900 H.P. A/N:	D643				
COMPRESSOR, C-105, WORTHINGTON, TWO-STAGE, 900 H.P, SPARE FOR C-104 A/N:	D644				

\* (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
<b>Process 21: AIR POLLUTION CONTROL</b>					
DRUM, CONDENSATE ACCUMULATOR, V-305, LENGTH: 12 FT ; DIAMETER: 3 FT A/N:	D1303				
POT, V-556, CONDENSATE POT #4, HEIGHT: 6 FT ; DIAMETER: 3 FT A/N:	D886				
DRUM, SUCTION, V-1135, LENGTH: 22 FT 6 IN; DIAMETER: 9 FT A/N:	D887				
DRUM, SOUR WATER FLASH DRUM AND BACK UP DEA SKIM, V-1490, LENGTH: 30 FT ; DIAMETER: 12 FT A/N:	D1615				
DRUM, DEA SKIM, V-1139, SPARE, LENGTH: 26 FT ; DIAMETER: 8 FT A/N:	D1316				
POT, V-1865, CONDENSATE POT #1, HEIGHT: 8 FT ; DIAMETER: 4 FT A/N:	D890				
POT, V-1866, CONDENSATE POT #2, HEIGHT: 8 FT ; DIAMETER: 4 FT A/N:	D891				
POT, V-1867, CONDENSATE POT #3, HEIGHT: 8 FT ; DIAMETER: 4 FT A/N:	D892				
POT, V-1868, CONDENSATE POT #5, HEIGHT: 8 FT ; DIAMETER: 4 FT A/N:	D893				
POT, V-1871, CONDENSATE POT #6, HEIGHT: 8 FT ; DIAMETER: 4 FT A/N:	D894				

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

\*\* 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
<b>Process 21: AIR POLLUTION CONTROL</b>					
POT, V-1872, CONDENSATE POT #7, HEIGHT: 8 FT ; DIAMETER: 4 FT A/N:	D895				
POT, V-1873, CONDENSATE POT #8, HEIGHT: 8 FT ; DIAMETER: 4 FT A/N:	D896				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1477				H23.5
<b>Process 22: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES</b>					
RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS	E1487				H23.12
RULE 219 EXEMPT EQUIPMENT, REFRIGERATION UNITS	E1488				H23.12
RULE 219 EXEMPT EQUIPMENT, COOLING TOWERS	E1489				H23.13
RULE 219 EXEMPT EQUIPMENT, LAMINATING EQUIPMENT, LOW USE OR EMISSIONS	E1491			<b>VOC: (9) [RULE 1168, 10-3-2003; RULE 1168, 1-7-2005; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]</b>	H23.27
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E1492			<b>VOC: (9) [RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]</b>	H23.14
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E1493			<b>VOC: (9) [RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]</b>	K67.4
RULE 219 EXEMPT EQUIPMENT, FIRE EXTINGUISHING EQUIPMENT USING HALONS	E1494				H23.15

- |   |   |
|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (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
<b>Process 22: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES</b>					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E1499			VOC: (9) [RULE 1107, 1-6-2006; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	H23.27
<b>Process 23: ISOMERIZATION</b>					
<b>System 1: BUTANE ISOMERIZATION</b>					
VESSEL, BUTANE FEED COALESCER, V-2252, LENGTH: 8 FT ; DIAMETER: 4 FT A/N: 470311	D1514				
DRYER, V-2253/2254, BUTANE, 2 TOTAL, LENGTH: 22 FT ; DIAMETER: 4 FT A/N: 470311	D1515				
DRYER, V-55/56, MAKE UP GAS, 2 TOTAL, LENGTH: 14 FT ; DIAMETER: 4 FT A/N: 470311	D1516				
KNOCK OUT POT, V-2257, MAKE UP GAS, LENGTH: 7 FT 6 IN; DIAMETER: 2 FT A/N: 470311	D1517				
VESSEL, REGENERANT COALESCER, V-2258, LENGTH: 6 FT ; DIAMETER: 2 FT A/N: 470311	D1518				
TANK, SURGE, V-2259, FEED, LENGTH: 15 FT ; DIAMETER: 5 FT A/N: 470311	D1519				
SCRUBBER, V-2262, NET GAS, LENGTH: 37 FT ; DIAMETER: 78 FT A/N: 470311	D1520				

- \* (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
<b>Process 23: ISOMERIZATION</b>					
TANK, DEGASSING, V-2263, CAUSTIC, LENGTH: 10 FT ; DIAMETER: 2 FT 6 IN A/N: 470311	D1521				
VESSEL, STABILIZER, V-2260, LENGTH: 6 FT 8 IN; DIAMETER: 66 FT A/N: 470311	D1522				
VESSEL, STABILIZER RECEIVER, V-2261, LENGTH: 12 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: 470311	D1523				
VESSEL, DIB OVERHEAD ACCUMULATOR, V-0012, LENGTH: 19 FT ; DIAMETER: 7 FT 6 IN A/N: 470311	D1524				
REACTOR, V-604, HEIGHT: 59 FT 6 IN; DIAMETER: 3 FT A/N: 470311	D1067				
REACTOR, V-605, HEIGHT: 12 FT ; DIAMETER: 5 FT A/N: 470311	D978				
COLUMN, DIB, V-1041, HEIGHT: 185 FT ; DIAMETER: 7 FT 6 IN A/N: 470311	D275				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470311	D1562				H23.16

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

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

**FACILITY PERMIT TO OPERATE  
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  
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 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1	1	1	1
D3	34	4	7
D4	1	1	1
D5	2	1	2
D6	2	1	2
D7	2	1	2
D8	2	1	2
D9	3	1	3
D10	4	2	1
D11	4	2	1
D12	16	2	10
D13	16	2	10
D14	17	2	10
D15	5	2	1
D16	5	2	1
D17	5	2	1
D18	5	2	1
D19	8	2	1
D20	6	2	1
D24	6	2	1
D25	6	2	1
D26	6	2	1
D27	7	2	1
D28	7	2	1
D29	7	2	1
D30	7	2	1
D31	7	2	1
D32	9	2	2
D33	9	2	2
D41	13	2	8
D45	13	2	8
D46	13	2	8
D47	13	2	8
D49	13	2	8
S50	25	3	3

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D52	10	2	3
D53	11	2	6
D54	10	2	3
D56	10	2	3
D58	10	2	3
D60	10	2	3
D62	10	2	3
D63	11	2	6
D65	11	2	6
D66	78	12	8
D67	78	12	8
D68	11	2	6
D76	11	2	7
D77	12	2	7
D78	17	3	1
D79	18	3	1
D80	18	3	1
D81	18	3	1
D82	18	3	1
D83	18	3	1
D84	18	3	1
D85	18	3	1
D86	19	3	1
D87	20	3	1
D89	24	3	3
D90	25	3	3
D91	25	3	3
D92	24	3	3
D93	20	3	2
D94	21	3	2
D95	21	3	2
D96	22	3	2
D97	22	3	2
D99	25	3	4
D100	25	3	4

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D102	57	8	1
D103	27	3	5
D104	26	3	4
D105	26	3	4
D106	35	4	7
D107	26	3	5
D112	27	3	9
D114	28	4	1
D115	28	4	1
D117	29	4	1
D120	29	4	2
D121	30	4	3
D122	30	4	3
D123	31	4	3
D129	31	4	3
D130	30	4	3
D131	30	4	3
D132	31	4	3
D134	31	4	3
D140	31	4	3
D146	32	4	4
D147	32	4	5
D148	32	4	5
D149	32	4	5
D153	33	4	5
D155	33	4	5
D156	33	4	5
D157	33	4	6
D158	33	4	6
D159	32	4	5
D160	34	4	7
D161	34	4	7
D162	34	4	7
D163	35	4	7
D164	35	4	7

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D165	35	4	7
D167	35	4	7
D168	34	4	7
D169	36	4	7
D170	36	4	7
D172	130	21	1
D173	36	4	7
D174	36	4	7
D176	36	4	7
D188	36	4	7
D192	38	4	9
D194	39	5	2
D196	39	5	2
D197	40	5	3
D198	40	5	3
D199	40	5	3
D200	40	5	3
D201	40	5	3
D203	40	5	3
D209	41	5	3
D210	41	5	3
D214	43	5	4
D215	44	5	4
D216	43	5	4
D217	43	5	4
D218	42	5	4
D219	44	5	5
D220	45	5	5
D221	45	5	5
D222	45	5	5
D223	45	5	5
D224	45	5	5
D225	45	5	5
D226	45	5	5
D227	46	5	5

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D229	46	5	5
C232	78	14	1
D244	34	4	7
D245	57	8	1
D247	46	5	6
D248	47	5	6
D249	47	5	6
D250	48	5	6
D251	48	5	6
D275	135	23	1
D276	49	6	1
D305	49	6	1
D307	49	6	1
D311	128	19	5
D317	49	6	3
D319	49	6	3
D320	49	6	3
D321	50	6	3
D323	50	6	3
D333	50	6	3
D335	50	6	3
D340	52	8	1
D341	53	8	1
D342	53	8	1
D344	53	8	1
D345	53	8	1
D346	53	8	1
D347	54	8	1
D348	54	8	1
D349	54	8	1
D350	54	8	1
D351	54	8	1
D352	54	8	1
D355	55	8	1
D356	55	8	1

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D357	55	8	1
D358	55	8	1
D359	55	8	1
D364	55	8	1
D371	52	8	1
D372	52	8	1
D373	52	8	1
D374	53	8	1
D375	54	8	1
D376	54	8	1
D377	56	8	1
D384	57	8	2
D385	58	8	2
D386	58	8	2
D387	59	8	2
D388	59	8	2
D390	60	9	1
D391	60	9	1
D392	60	9	1
D393	60	9	1
D394	61	9	1
D395	61	9	1
D396	61	9	1
D397	61	9	1
D399	61	9	1
D400	61	9	1
D401	61	9	1
D402	61	9	1
D403	62	9	1
D404	62	9	1
D405	62	9	1
D406	62	9	1
D407	62	9	1
D408	62	9	1
D409	62	9	1

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D410	62	9	1
D411	63	9	1
D413	63	9	1
D414	63	9	1
D415	63	9	1
D416	63	9	1
D417	63	9	1
D418	64	9	1
D419	64	9	1
D420	64	9	1
D421	64	9	1
D422	64	9	1
D423	64	9	1
D424	64	9	1
D425	64	9	1
D431	65	9	1
D432	65	9	1
D434	66	9	2
D435	66	9	2
D436	67	9	2
D437	67	9	2
D439	68	9	3
D440	67	9	3
D442	67	9	3
D445	67	9	2
D449	67	9	3
D450	67	9	3
D453	68	11	1
D454	68	11	1
D457	68	11	1
D458	69	12	1
D459	69	12	1
D460	69	12	1
D461	69	12	1
D462	70	12	1

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D463	70	12	1
D464	70	12	1
D465	70	12	1
D466	69	12	1
D467	70	12	1
D469	72	12	1
D471	71	12	1
C472	71	12	1
C473	71	12	1
D498	75	12	2
D502	36	4	7
D505	78	14	1
D507	79	14	2
D513	79	14	3
D515	81	14	9
D520	81	15	1
D521	81	15	1
D523	81	15	1
D524	81	15	1
D526	128	19	4
D527	101	15	4
D528	101	15	4
D531	82	15	1
D533	82	15	1
D534	82	15	1
D543	82	15	1
D544	82	15	1
D546	82	15	1
D547	82	15	1
D548	83	15	1
D549	83	15	1
D550	83	15	1
D551	83	15	1
D552	83	15	1
D553	83	15	1

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D554	83	15	1
D555	84	15	1
D556	84	15	1
D557	84	15	1
D558	84	15	1
D559	84	15	1
D560	84	15	1
D561	84	15	1
D562	85	15	1
D563	85	15	1
D564	85	15	1
D565	85	15	1
D566	85	15	1
D567	85	15	1
D568	95	15	1
D569	85	15	1
D571	86	15	1
D572	86	15	1
D573	86	15	1
D574	86	15	1
D575	86	15	1
D576	86	15	1
D577	86	15	1
D578	86	15	1
D579	87	15	1
D581	87	15	1
D582	87	15	1
D583	87	15	1
D584	87	15	1
D585	87	15	1
D586	95	15	1
D587	87	15	1
D588	88	15	1
D589	88	15	1
D591	88	15	1

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D592	88	15	1
D593	118	15	7
D594	88	15	1
D595	88	15	1
D596	89	15	1
D597	89	15	1
D598	94	15	1
D599	89	15	1
D600	89	15	1
D602	89	15	1
D603	89	15	1
D604	90	15	1
D605	90	15	1
D606	90	15	1
D607	90	15	1
D608	90	15	1
D609	91	15	1
D610	91	15	1
D611	91	15	1
D612	91	15	1
D613	115	15	7
D614	116	15	7
D615	91	15	1
D616	91	15	1
D617	117	15	7
D618	113	15	7
D619	92	15	1
D620	92	15	1
D621	113	15	7
D622	92	15	1
D623	92	15	1
D624	92	15	1
D625	92	15	1
D626	93	15	1
D627	93	15	1

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D628	93	15	1
D629	93	15	1
D630	114	15	7
D631	93	15	1
D632	95	15	1
D633	93	15	1
D634	94	15	1
D635	96	15	1
D636	94	15	1
D637	94	15	1
D639	94	15	1
D640	81	15	1
D641	131	21	3
D642	131	21	3
D643	131	21	3
D644	131	21	3
D647	96	15	2
D648	101	15	5
D649	107	15	5
D650	102	15	5
D651	111	15	5
D652	103	15	5
D653	104	15	5
D654	109	15	5
D655	110	15	5
D656	105	15	5
D657	73	12	2
D658	112	15	5
D659	106	15	5
D660	108	15	5
D662	96	15	3
D663	97	15	3
D664	97	15	3
D665	97	15	3
D666	97	15	3

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D667	97	15	3
D669	97	15	3
D670	98	15	3
D671	98	15	3
D672	98	15	3
D673	98	15	3
D674	98	15	3
D675	98	15	3
D676	99	15	3
D677	99	15	3
D678	99	15	3
D679	99	15	3
D680	99	15	3
D681	99	15	3
D682	100	15	3
D683	100	15	3
D684	100	15	3
D685	100	15	3
D686	100	15	3
D688	74	12	2
D689	75	12	2
S692	59	8	2
D693	75	12	2
D696	74	12	2
D697	76	12	3
D698	76	12	3
C699	76	12	3
D700	76	12	4
D701	76	12	4
C702	76	12	4
D703	72	12	1
D709	72	12	1
D713	118	17	1
D714	119	17	1
D722	125	18	0

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D723	126	18	0
D724	126	18	0
D725	126	18	0
D728	127	19	1
D734	127	19	1
C747	129	21	1
C748	129	21	1
D749	22	3	2
D750	129	21	1
D751	129	21	1
D752	129	21	1
D753	129	21	1
D754	129	21	1
D755	129	21	1
D756	129	21	1
D757	130	21	1
D758	130	21	1
D759	130	21	1
C761	130	21	2
C762	130	21	2
D763	130	21	2
C764	3	1	3
C768	9	2	2
D770	37	4	8
C771	37	4	8
C773	44	5	4
C775	47	5	6
D777	51	6	4
C778	51	6	4
D780	49	6	1
D781	49	6	1
C784	58	8	2
C786	59	8	2
C788	60	8	2
D790	80	14	4

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

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D798	80	14	5
D807	72	12	1
D808	72	12	1
D809	72	12	1
D810	123	17	2
C811	123	17	2
D812	124	17	3
C813	125	17	3
S874	126	18	0
D886	132	21	3
D887	132	21	3
D888	127	19	3
D889	127	19	3
D890	132	21	3
D891	132	21	3
D892	132	21	3
D893	132	21	3
D894	132	21	3
D895	133	21	3
D896	133	21	3
D898	1	1	1
D900	6	2	1
D901	8	2	1
D904	8	2	1
D906	6	2	1
D907	10	2	3
D908	18	3	1
D909	20	3	1
D910	19	3	1
D912	19	3	1
D913	20	3	1
D915	18	3	1
D916	23	3	2
D917	23	3	2
D918	20	3	1

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

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D919	22	3	2
D922	49	6	1
D923	49	6	1
D928	55	8	1
D930	56	8	1
D932	56	8	1
D933	56	8	1
D934	56	8	1
D949	63	9	1
D950	63	9	1
D953	65	9	1
D954	65	9	1
D959	66	9	1
D960	65	9	1
D961	65	9	1
D969	8	2	1
D973	123	17	2
D973	125	17	3
D976	38	5	1
D977	38	5	1
D978	135	23	1
D979	38	5	1
D980	38	5	1
D982	94	15	1
S987	9	2	2
S989	37	4	8
S990	44	5	4
S992	47	5	6
S993	52	6	4
S994	58	8	2
S995	60	8	2
D998	74	12	2
D1001	74	12	2
D1002	74	12	2
D1022	75	12	2

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

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1023	75	12	2
S1028	126	18	0
D1040	80	14	5
D1061	38	5	1
D1067	135	23	1
D1071	38	5	1
D1078	107	15	5
D1080	65	9	1
D1081	65	9	1
D1082	65	9	1
D1087	131	21	2
D1088	7	2	1
D1093	15	2	9
D1094	15	2	9
D1095	128	19	4
C1096	128	19	4
D1100	119	17	1
D1101	119	17	1
D1102	119	17	1
D1103	119	17	1
D1104	120	17	1
D1112	36	4	7
D1120	41	5	3
D1121	46	5	5
D1122	52	6	4
D1123	120	17	1
D1125	1	1	1
D1126	1	1	1
D1127	1	1	1
D1128	1	1	1
D1129	1	1	1
D1131	2	1	1
D1132	4	2	1
D1133	4	2	1
D1134	4	2	1

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

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1135	4	2	1
D1136	5	2	1
D1137	5	2	1
D1141	5	2	1
D1143	5	2	1
D1145	6	2	1
D1147	6	2	1
D1149	7	2	1
D1151	7	2	1
D1152	11	2	6
D1154	10	2	3
D1155	12	2	8
D1156	12	2	8
D1157	12	2	8
D1158	12	2	8
D1159	13	2	8
D1160	12	2	8
D1161	14	2	8
D1162	14	2	8
D1164	14	2	8
D1165	14	2	8
D1170	15	2	9
D1173	15	2	9
D1174	16	2	9
D1175	16	2	9
D1176	16	2	9
D1177	16	2	9
D1178	16	2	9
D1180	28	4	1
D1182	28	4	1
D1183	28	4	1
D1184	29	4	1
D1187	31	4	3
D1188	31	4	3
D1189	32	4	5

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

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1191	33	4	5
D1194	33	4	5
D1195	34	4	7
D1197	39	5	3
D1198	40	5	3
D1199	40	5	3
D1200	40	5	3
D1203	41	5	3
D1204	41	5	3
D1205	41	5	3
D1206	41	5	3
D1207	41	5	3
D1208	44	5	5
D1209	45	5	5
D1210	45	5	5
D1212	46	5	5
D1213	46	5	5
D1217	48	6	1
D1255	50	6	3
D1256	50	6	3
D1257	50	6	3
D1258	50	6	3
D1259	53	8	1
D1260	53	8	1
D1265	55	8	1
D1266	56	8	1
D1267	17	3	1
D1268	17	3	1
D1269	17	3	1
D1271	19	3	1
D1272	19	3	1
D1273	19	3	1
D1275	19	3	1
D1280	19	3	1
D1283	21	3	2

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

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1284	21	3	2
D1285	22	3	2
D1287	23	3	2
D1288	23	3	2
D1289	23	3	2
D1292	26	3	4
D1293	26	3	5
D1294	26	3	5
D1295	26	3	5
D1296	26	3	5
D1297	27	3	5
D1298	67	9	2
D1301	68	11	1
D1303	132	21	3
D1304	71	12	1
D1305	73	12	1
D1306	73	12	1
D1307	73	12	1
D1308	73	12	1
D1316	132	21	3
D1320	127	19	2
D1321	127	19	2
D1326	34	4	7
D1332	29	4	1
D1333	31	4	3
D1334	35	4	7
D1335	35	4	7
D1336	36	4	7
D1337	38	5	1
D1338	39	5	1
D1339	50	6	3
D1340	56	8	1
D1341	56	8	1
D1342	56	8	1
D1343	29	4	1

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

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1350	11	2	6
D1351	28	4	1
D1354	2	1	1
D1355	2	1	2
S1356	3	1	3
D1357	8	2	1
D1359	10	2	3
D1361	11	2	6
D1362	112	15	5
D1363	114	15	7
D1365	20	3	1
D1366	23	3	2
D1367	12	2	7
D1380	38	4	9
D1381	39	5	1
D1384	46	5	5
D1392	66	9	1
D1399	76	12	3
D1415	124	17	2
D1416	126	18	0
D1419	130	21	1
D1425	125	17	3
D1438	12	2	8
D1443	26	3	4
D1444	27	3	5
D1446	29	4	1
D1447	31	4	3
D1448	33	4	5
D1449	37	4	7
D1451	42	5	3
D1453	50	6	3
D1454	57	8	1
D1455	67	9	2
D1456	68	9	3
D1458	68	11	1

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

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1459	73	12	1
D1460	75	12	2
D1461	76	12	4
D1465	79	14	2
D1466	79	14	3
D1467	80	14	4
D1469	81	14	9
D1470	96	15	1
D1471	96	15	2
D1472	100	15	3
D1473	127	19	1
D1477	133	21	3
D1478	3	1	4
D1479	3	1	4
D1480	77	12	7
D1481	77	12	7
D1482	77	12	7
D1483	77	12	7
D1484	77	12	7
D1485	77	12	7
E1487	133	22	0
E1488	133	22	0
E1489	133	22	0
E1491	133	22	0
E1492	133	22	0
E1493	133	22	0
E1494	133	22	0
D1495	73	12	1
D1496	75	12	2
E1499	134	22	0
D1500	95	15	1
D1501	41	5	3
D1502	100	15	3
D1503	35	4	7
D1504	66	9	1

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

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1505	66	9	1
D1506	66	9	1
D1507	66	9	1
D1508	28	4	1
D1509	66	9	1
D1510	28	4	1
D1511	30	4	3
D1512	30	4	3
D1513	30	4	3
D1514	134	23	1
D1515	134	23	1
D1516	134	23	1
D1517	134	23	1
D1518	134	23	1
D1519	134	23	1
D1520	134	23	1
D1521	135	23	1
D1522	135	23	1
D1523	135	23	1
D1524	135	23	1
D1525	42	5	3
D1526	42	5	3
D1527	42	5	3
D1530	57	8	1
D1531	57	8	1
D1532	21	3	2
D1533	112	15	6
C1536	124	17	2
C1538	125	17	3
D1553	80	14	5
D1555	95	15	1
D1556	128	19	3
D1557	17	2	10
D1558	17	2	10
D1559	17	2	10

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

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1560	17	2	10
D1561	78	12	8
D1562	135	23	1
D1566	37	4	7
D1567	8	2	1
D1572	128	19	4
D1573	27	3	8
C1574	27	3	8
D1597	20	3	1
D1598	20	3	1
D1615	132	21	3
D1616	8	2	1
D1617	120	17	1
D1618	121	17	1
C1638	131	21	2
C1639	131	21	2
D1645	121	17	1
D1646	122	17	1
D1648	123	17	2
D1651	125	17	3
D1659	122	17	1
D1664	25	3	3
D1668	32	4	5
D1669	32	4	5
D1682	4	1	4
D1683	77	12	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]

F24.1 Accidental release prevention requirements of Section 112(r)(7):

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

## **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:**

**[40CFR 68 - Accidental Release Prevention, 5-24-1996]**

## **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]**

F34.1 The operator shall not sell refinery gas containing sulfur compounds in excess of 40 ppmv, calculated as hydrogen sulfide, averaged over 4-hour period.

**[RULE 431.1, 6-12-1998]**

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

40CFR79

40CFR80

**[40CFR 79, 7-1-1999; 40CFR 80, 7-1-1999]**

F52.2 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]**

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

40CFR60 Subpart A

40CFR61 Subpart A

40CFR63 Subpart A

## 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:**

**[40CFR 60 Subpart A, 6-13-2007; 40CFR 61 Subpart A, 5-16-2007; 40CFR 63 Subpart A, 5-16-2007]**

F52.4 This facility is subject to the applicable requirements of the following rules or regulation(s):

Consent Decree Civil No. H-01-0978, 3-21-2001

**[ 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.

### PROCESS CONDITIONS

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

Contaminant	Rule	Rule/Subpart
Benzene	40CFR61, SUBPART	FF

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

[Processes subject to this condition : 1, 2, 3, 4, 5, 6, 8, 9, 11, 12, 15]

### SYSTEM CONDITIONS

S1.1 The operator shall limit the loading rate to no more than 1262500 barrel(s) in any one year.

## 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:**

For the purpose of this condition, loading rate shall be defined as the combined loading rate of D790 in Process 14, System 4 and D1040 in Process 14, System 5, and shall be recorded by shipping records.

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

[Systems subject to this condition : Process 14, System 4 , 5]

S2.1 The operator shall limit emissions from this system as follows

CONTAMINANT	EMISSIONS LIMIT
VOC	Less than 2.5 lbs/mmscf of hydrogen produced

**[RULE 1189, 1-21-2000]**

[Systems subject to this condition : Process 6, System 1 , 3]

S7.1 The following conditions shall apply to all coke handling and related devices from this system:

The operator shall drive all outgoing petroleum coke trucks, whether filled or empty, through the truck wash system in order to thoroughly wash any residual coke off the exterior of the trucks.

The operator shall clean or wet down the ground area below the conveyors to prevent airborne dust.

The operator shall wash exterior conveyors and return belts, overhead structures and ground area down to the coke laden water return system to avoid accumulation of coke dust.

## **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 1158, 6-11-1999**; RULE 1158, 7-11-2008]

[Systems subject to this condition : Process 2, System 8]

S7.2 The following conditions shall apply to all coke handling and related devices from this system:

The operator shall drive all outgoing petroleum coke trucks, whether filled or empty, through the truck wash system in order to thoroughly wash any residual coke off the exterior of the trucks.

The operator shall clean or wet down the ground area below the conveyors to prevent airborne dust.

The operator shall wash exterior conveyors and return belts, overhead structures and ground area down to the coke laden water return system to avoid accumulation of coke dust.

The operator shall drain raw coke from the coker pit before loading to the conveyor hopper to minimize spillage of coke from elevated inclined conveyors.

[**RULE 1158, 6-11-1999**; RULE 1158, 7-11-2008]

[Systems subject to this condition : Process 2, System 9]

S11.1 The operator shall comply with all applicable mitigation measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the AQMD Certified Final Environmental Impact Report dated 21-mar-1994 for this facility.

This condition shall only apply to equipment listed in Section H of this facility permit.

[CA PRC CEQA, 11-23-1970]

## 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 6, System 1]

S11.2 The operator shall comply with all applicable mitigation measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the AQMD Certified Final Environmental Impact Report dated 15-oct-2001 for this facility.

This condition shall only apply to equipment listed in Section H of this facility permit.

[CA PRC CEQA, 11-23-1970]

[Systems subject to this condition : Process 4, System 3 , 7]

S11.3 The operator shall comply with all applicable mitigation measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the AQMD Certified Final Environmental Impact Report dated 04-10-2009 for this facility.

This condition shall only apply to equipment listed in Section H of this facility permit.

[CA PRC CEQA, 11-23-1970]

[Systems subject to this condition : Process 2, System 1; Process 8, System 1; Process 17, System 4; Process 21, System 3]

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

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	QQQ

## 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:**

**[40CFR 60 Subpart QQQ, 10-17-2000]**

[Systems subject to this condition : Process 4, System 7; Process 6, System 3; Process 12, System 1 , 2; Process 23, 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
PM	District Rule	1158

**[RULE 1158, 6-11-1999; RULE 1158, 7-11-2008]**

[Systems subject to this condition : Process 2, System 8 , 9]

S13.4 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 , 3 , 6 , 7 , 10; Process 3, System 1 , 2 , 4 , 5; Process 4, System 1 , 3 , 5 , 7 , 9; Process 5, System 1 , 3 , 5; Process 6, System 1 , 3; Process 8, System 1; Process 9, System 1 , 2 , 3; Process 12, System 8; Process 19, System 3; Process 21, System 1 , 2 , 3 , 4]

S13.5 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart

## 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:**

VOC | District Rule | 1176

**[RULE 1176, 9-13-1996]**

[Systems subject to this condition : Process 12, System 1, 2, 3, 4, 7; Process 19, System 4]

S13.6 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1149
VOC	District Rule	463

**[RULE 1149, 7-14-1995; RULE 1149, 5-2-2008; RULE 463, 5-6-2005]**

[Systems subject to this condition : Process 15, System 3]

S13.7 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
VOC	District Rule	1178
VOC	District Rule	1149

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

[Systems subject to this condition : Process 15, System 1, 2, 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:**

S13.8 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	461

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

[Systems subject to this condition : Process 19, System 1 , 2]

S13.9 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
VOC	District Rule	1178
VOC	District Rule	1149

For Rule 463 applicability, only subdivision (d) in the March 11,1994 amendment, or equivalent requirements in the future amendments, shall apply to domed external floating roof tanks. This does not preclude any requirements specified in Rule 1178

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

[Systems subject to this condition : Process 15, System 5]

S15.1 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 emergency vent gases shall be directed to a blowdown flare system.

This process/system shall not be operated unless the refinery 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]**

[Systems subject to this condition : Process 15, System 3]

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

All emergency vent gases shall be directed to the refinery flares (process 21, system 1) or flare gas recovery system (process 21, system 4) which may also include DCU Blowdown Compressor C-137 (device D68) except Devices IDs D898, D20, D910, D1268, D1269, D1280, D93, D94, D96, D1283, D1284, D1288, D1292, D219, D226, D1212, D275, D1256, D375, D928, D1267 & D916 that vent to the atmosphere.

This process/system shall not be operated unless the blowdown 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(b)(2)-Offset, 5-10-1996]**

[Systems subject to this condition : Process 1, System 1, 2; Process 2, System 1, 3, 6, 10; Process 3, System 1, 2, 5; Process 4, System 1, 3, 5, 7, 9; Process 5, System 1, 3, 5; Process 6, System 1, 3; Process 8, System 1; Process 9, System 1, 2, 3; Process 12, System 8; Process 19, System 3; Process 21, System 4]

S15.3 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 a vapor recovery system (process 21, system 3) consisting of compressors, D641, D642, D643, and/or D644, which can be operated independently to maintain a system vacuum that efficiently collects all vented gases or the flare gas recovery system (process 21, system 4).

This process/system shall not be operated unless the vapor recovery system (process 21, system 3) or flare gas recovery system (process 21, system 4) 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(b)(2)-Offset, 5-10-1996]**

[Systems subject to this condition : Process 1, System 2; Process 2, System 3, 6; Process 3, System 2, 4; Process 4, System 1, 3, 5, 7; Process 5, System 1, 3, 5; Process 6, System 1; Process 8, System 1; Process 9, System 2; Process 21, System 4]

S15.5 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 a vapor recovery system consisting of compressors, D641, 642, 643, and/or 644, which can be operated independently to maintain a system vacuum that efficiently collects all vented gases, except devices D305, 432, 1504-1507, 1514-1524 that vent to the flare system.

This process/system shall not be operated unless the vapor recovery 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(b)(2)-Offset, 5-10-1996]**

[Systems subject to this condition : Process 9, System 1; Process 23, System 1]

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 a vapor recovery system consisting of compressors, D641, D642, D643, and/or D644, which can be operated independently to maintain a system vacuum that efficiently collects all vented gases.

This process/system shall not be operated unless the blowdown vapor recovery 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(b)(2)-Offset, 5-10-1996]**

[Systems subject to this condition : Process 12, System 7; Process 14, System 4 , 5]

S15.7 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 to the fume scrubber system (P21, S2), and then to the boiler system (P18) with at least one of four boilers (D722-5) in operation.

This process/system shall not be operated unless the above air pollution control 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(b)(2)-Offset, 5-10-1996]**

[Systems subject to this condition : Process 14, System 1; Process 15, System 4]

S15.8 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 flare system.

This process/system shall not be operated unless the flare(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(b)(2)-Offset, 5-10-1996]**

[Systems subject to this condition : Process 14, System 2 , 3]

S15.9 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 a vapor recovery system (process 21 system 3) consisting of compressors, D641, D642, D643, and/or D644, which can be operated independently to maintain a system vacuum that efficiently collects all vented gases, or the flare gas recovery system ( process 21, system 4) except Device D1151 that vents to the atmosphere.

This process/system shall not be operated unless the vapor recovery system(process 21, system3) or flare gas recovery system ( process 21, system 4) 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(b)(2)-Offset, 5-10-1996]**

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

S15.10 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases under normal operating conditions shall be directed to the amine absorber(s) located in this system.

This process/system shall not be operated unless the absorber(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(b)(2)-Offset, 5-10-1996]**

## **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 2, System 1; Process 4, System 7; Process 8, System 1]

S15.11 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases under normal operating conditions shall be directed to the fuel gas treating system(s) (Process 12, System 8 or Process 4, System 9).

This process/system shall not be operated unless the fuel 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(b)(2)-Offset, 5-10-1996]**

[Systems subject to this condition : Process 2, System 6; Process 21, System 3 , 4]

S15.12 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases under normal operating conditions shall be directed to the FCCU gas treating system.

This process/system shall not be operated unless the FCCU gas treating 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(b)(2)-Offset, 5-10-1996]**

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

S15.13 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 sour gases under normal operating conditions shall be directed to the fuel gas treating system (Process 4, System 9) or to the scrubber located in Process 8, System 1.

This process/system shall not be operated unless the fuel gas treating system or the scrubber 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(b)(2)-Offset, 5-10-1996]**

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

- 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:

## **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:**

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

Delayed Coking Unit (DCU) (Process: 2, System: 1, 3, 6 & 10)

Fluid Catalytic Cracking Unit (FCCU) (Process: 3, System: 1, 2, 4 & 5)

Hydrotreating Units (Process: 4, System: 1, 3, 5, 7 & 9)

Catalytic Reforming Units (Process: 5, System: 1, 3 & 5)

Hydrogen Generation Units (Process: 6, System: 1 & 3)

Hydrocracking Unit (Process: 8, System: 1)

Alkylation Unit (Process: 9, System: 1, 2 & 3)

Treating/Stripping Units (Process: 12, System: 1 & 7)

Loading/Unloading (Process: 14, System: 4 & 5)

Isomerization Unit (Process: 23, System: 1)

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

[Systems subject to this condition : Process 21, System 3]

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 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:**

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

Delayed Coking Unit (DCU) (Process: 2, System: 1, 3, 6 & 10)

Fluid Catalytic Cracking Unit (FCCU) (Process: 3, System: 1, 2, 4 & 5)

Hydrotreating Units (Process: 4, System: 1, 3, 5, 7 & 9)

Catalytic Reforming Units (Process: 5, System: 1, 3 & 5)

Hydrogen Generation Units (Process: 6, System: 1 & 3)

Hydrocracking Unit (Process: 8, System: 1)

Alkylation Unit (Process: 9, System: 1, 2 & 3)

Fuel Gas Treating System (Process: 12, System: 8)

Loading and Unloading (Process: 14, System: 2 & 3)

Pressurized Storage Tanks (Process: 15, System: 3)

Fuel Gas Mix System (Process: 19, System: 3)

Isomerization Unit (Process: 23, System: 1)

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

[Systems subject to this condition : Process 21, System 1]

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:

## **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:**

Inorganic Chemical Loading and Unloading (Process: 14, System: 1)

Miscellaneous Storage Tanks (Process: 15, System: 4)

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

[Systems subject to this condition : Process 21, System 2]

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:

DCU Blowdown Recovery System (Process: 2, System: 6)

Refinery Vapor Recovery System (Process: 21, System: 3)

Flare Gas Recovery System (Process: 21, System: 4)

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

[Systems subject to this condition : Process 4, System 9; Process 12, System 8]

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:

FCCU Recovery System (Process: 3, System: 1)

FCCU Cracking Section (Process: 3, System: 2)

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

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

## **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:**

S18.6 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 Unit (Process: 1, System: 1 & 2)

Delayed Coking Unit (DCU) (Process: 2, System: 1, 3, 6 & 10)

Fluid Catalytic Cracking Unit (FCCU) (Process: 3, System: 1, 2, 4 & 5)

Hydrotreating Units (Process: 4, System: 1, 3, 5, 7 & 9)

Catalytic Reforming Units (Process: 5, System: 1, 3 & 5)

Hydrogen Generation Units (Process: 6, System: 1 & 3)

Hydrocracking Unit (Process: 8, System: 1)

Alkylation Unit (Process: 9, System: 1, 2 & 3)

Treating/Stripping Units (Process: 12, System: 1 & 7)

Loading/Unloading (Process: 14, System: 4 & 5)

Isomerization Unit (Process: 23, System: 1)

**[RULE 1118, 11-4-2005; RULE 1303(a)(1)-BACT, 5-10-1996]**

[Systems subject to this condition : Process 21, System 4]

S31.1 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 347559, 347560, 347564, 366048, 366083, 376616, 376622, 376623, 376624, 376625, 376627, 376628, 381228, 435139, 457927, 501287 & 501288:

## **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 open-ended valves shall be equipped with cap, blind flange, plug, or a second valve.

All pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

All sampling connections shall be closed-purge, closed-loop, or closed-vent system.

All new valves in VOC service shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available.

If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator may revert to a quarterly inspection program with the approval of the executive officer. This condition does not apply to leakless valves.

All components are subject to District Rule 1173 and 40CFR60 Subpart GGG.

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

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The operator shall also submit a complete, as built, piping and instrumentation diagram(s) and copies of requisition data sheets for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.

All process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR60 Subpart QQQ.

## **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 new components in VOC service as defined in Rule 1173, except valves and flanges, shall be inspected quarterly using EPA reference Method 21. All new valves and flanges in VOC service except those specifically exempted by Rule 1173 shall be inspected monthly using EPA Method 21.

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation.

Components shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempt by Rule 1173.

All new components in VOC service, a 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 14 days of detection.

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

[Systems subject to this condition : Process 2, System 1; Process 3, System 1; Process 4, System 1, 3, 7; Process 5, System 1, 3, 5; Process 6, System 1; Process 8, System 1; Process 9, System 1; Process 15, System 3; Process 23, System 1]

- S31.2 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 501291, 494382 & 472872:

## **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 new valves and major components in VOC service as defined by Rule 1173, except those specifically exempted by Rule 1173 and those in heavy liquid service as defined in Rule 1173, shall be distinctly identified from other components through their tag numbers (e.g. numbers ending in the letter "N"), and shall be noted in the records.

All open-ended valves shall be equipped with cap, blind flange, plug, or a second valve.

All pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

All process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR60 Subpart QQQ.

All sampling connections shall be closed-purge, closed-loop, or closed-vent system.

All components are subject to District Rule 1173 and 40CFR 60 Subpart GGGa.

All new components in VOC service as defined in Rule 1173, except valves and flanges, shall be inspected quarterly using EPA reference Method 21. All new valves and flanges in VOC service except those specifically exempted by Rule 1173 shall be inspected monthly using EPA Method 21.

All new components in VOC service, a 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 14 days of detection.

All new valves in VOC service shall be leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available.

## **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:**

If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator may revert to a quarterly inspection program with the approval of the executive officer. This condition does not apply to leakless valves.

The operator shall keep records of the monthly inspection (and quarterly where applicable), subsequent repair, and re-inspection, in a manner approved by the District.

The operator shall provide to the District no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The operator shall also submit a complete, as built, piping and instrumentation diagram(s) and copies of requisition data sheets for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation.

Components shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempt by Rule 1173.

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

[Systems subject to this condition : Process 21, System 4]

- S31.3 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 470262, 470291, 484368 & 484369:

## **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 open-ended valves shall be equipped with cap, blind flange, plug, or a second valve.

All pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

All sampling connections shall be closed-purge, closed-loop, or closed-vent system.

All new valves in VOC service shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available.

If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator may revert to a quarterly inspection program with the approval of the Executive Officer. This condition does not apply to leakless valves.

All components are subject to District Rule 1173 and 40CFR 60 Subpart GGG.

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

All process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR 60 Subpart QQQ.

All new components in VOC service as defined in Rule 1173, except valves and flanges, shall be inspected quarterly using EPA reference Method 21. All new valves and flanges in VOC service except those specifically exempted by Rule 1173 shall be inspected monthly using EPA Method 21.

For the purpose of this condition, leakless valve shall be defined as any valve

## 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:**

equipped with sealed bellow or equivalent as approved in writing by the District prior to installation.

Components shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempt by Rule 1173.

All new components in VOC service, a 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 14 days of detection.

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

[Systems subject to this condition : Process 1, System 4; Process 12, System 7; Process 17, System 4]

S42.1 The operator shall not operate the FCCU unless the operator complies with the emission limits of the following Rule:

Contaminant	Rule	Rule/Subpart
PM10	District Rule	1105.1
NH3	District Rule	1105.1

## 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:**

If the operator fails to comply with any of the terms and conditions listed below, the operator shall be subject to the compliance deadlines as specified in Rule 1105.1(d)(1).

1. Award contract(s) to construct and install the control technology by April 28, 2006.
2. Commence construction phase of the control technology permitted by AQMD for compliance with Rule 1105.1(d)(1) by the later of May 1, 2006 or within 30 days of receiving permit. These dates may be extended in writing by the Executive Officer upon a request by Equilon if the CEQA document is not finalized by April 30, 2006. Such extension(s) shall not be for a period more than five months after the original deadline listed in this paragraph.
3. Start operation of the control technology permitted to ensure compliance with Rule 1105.1 (d)(1) by April 30, 2007.
4. Comply with Rule 1105.1 (d)(1) requirements no later than June 30, 2007.

**[RULE 1105.1, 11-7-2003]**

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

### DEVICE CONDITIONS

#### A. Emission Limits

A63.2 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 136 LBS PER DAY

## 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:**

PM10	Less than or equal to 26 LBS PER DAY
ROG	Less than or equal to 26 LBS PER DAY
SOX	Less than or equal to 86368 LBS IN ANY ONE YEAR

The operator shall calculate the emission limit(s) of CO based on the AQMD certified continuous monitor pursuant to Rule 218. This monitoring system shall have the capability to show the cumulative daily emissions.

The operator shall calculate the emission limit(s) of SOx by using daily emission data reported to the AQMD pursuant to Regulation XX, for any 365-day period to demonstrate exemption from PSD requirements.

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

[Devices subject to this condition : D32, D132]

A63.3 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 543 LBS PER DAY

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from equipment D810 and D812.

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

[Devices subject to this condition : D810, D812]

A63.4 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT

## 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:**

NOX	Less than or equal to 583 TONS IN ANY ONE YEAR
SOX	Less than or equal to 430 TONS IN ANY ONE YEAR

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from equipment D112, D120, D146, D214, D215, D216, D217, D218, D722, D723, D724, D725, D770, D810, D812 & D1122.

The operator shall calculate the emission limit(s) of NO<sub>x</sub> and SO<sub>x</sub> based on the certified continuous monitor, 365-day period, to demonstrate exemption from PSD requirements. This condition applies only after Clean Fuel Phase 3 fuels are in production.

**[RULE 1703 - PSD Analysis, 10-7-1988]**

[Devices subject to this condition : D112, D120, D146, D214, D215, D216, D217, D218, D722, D723, D724, D725, D770, D810, D812, D1122]

A63.6 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
Visible emissions	Less than or equal to 10 Percent opacity

**[RULE 1158, 6-11-1999; RULE 1158, 7-11-2008]**

[Devices subject to this condition : D41, D45, D46, D47, D49, D1093, D1094, D1155, D1156, D1157, D1158, D1159, D1160, D1161, D1162, D1164, D1165, D1170, D1173, D1174, D1175, D1176, D1177, D1178, D1438]

A63.7 The operator shall limit emissions 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:**

CONTAMINANT	EMISSIONS LIMIT
Visible emissions	Less than or equal to 30 Percent opacity

Pursuant to 40CFR60.8(c), emissions in excess of the level of the applicable emission limit (40CFR60.102(a)(2)) during periods of startup, shutdown and malfunction shall not be considered a violation of the applicable emission limit (40CFR60.102(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 J, 6-24-2008; CONSENT DECREE, 3-21-2001]**

[Devices subject to this condition : D96]

A63.10 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 123 LBS PER DAY
PM	Less than or equal to 78 LBS PER DAY
ROG	Less than or equal to 67 LBS PER DAY
SOX	Less than or equal to 88493 LBS IN ANY ONE YEAR

The operator shall calculate the emission limit(s) of CO based on the AQMD certified continuous monitor pursuant to Rule 218. This monitoring system shall have the capability to show the cumulative daily emissions.

The operator shall calculate the emission limit(s) of SOx by using daily emission data reported to the AQMD pursuant to Regulation XX, for any 365-day period to demonstrate exemption from PSD 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:**

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

[Devices subject to this condition : D9]

A99.17 The 35 PPM CO emission limit(s) shall not apply during the following periods:.

- a) Up to 2 hours during a heater shutdown, OR
- b) The time that the heater process outlet temperature reading is less than 680 degree F during a heater shutdown/startup.

However, the daily emission rate of 123 lbs/day specified in condition A63.10 shall apply at all times.

For the purposes of this condition, a heater shutdown/startup shall be defined as when the fuel gas to the heater drops below 15 MSCFH..

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

[Devices subject to this condition : D9]

A195.1 The 5 PPMV NH3 emission limit(s) is averaged over 60 minutes at 15 percent O2 dry.

## **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 operator shall calculate and continuously record the NH<sub>3</sub> slip concentration using the following:  $NH_3(ppmv) = [a - b * c / 1E6] * 1E6 / b$ , where a = NH<sub>3</sub> injection rate (lb/hr) / 17 (lb/lbmole), b = dry exhaust gas flow rate (lb/hr) / 29 (lb/lbmole), and c = change in measured NO<sub>x</sub> across the SCR (ppmv at 15 percent O<sub>2</sub>). The operator shall install and maintain a NO<sub>x</sub> analyzer to measure the SCR inlet NO<sub>x</sub> ppm accurate to within plus or minus 5 percent calibrated at least once every 12 months.

The operator shall use the method described above or another alternative method approved by the Executive Officer.

The ammonia slip calculation procedures described above shall not be used for compliance determination for emission information determination without corroborative data using an approved reference test method for the determination of ammonia.

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

[Devices subject to this condition : C1536, C1538]

A229.1 The 0.1 lbs/MM Btu emission limit is calculated by an annual average CEMS data.

For the purpose of this condition, the emission limit is for NO<sub>x</sub> emission limit.

**[ CONSENT DECREE, 3-21-2001 ]**

[Devices subject to this condition : D89, D90]

A305.1 Whenever this equipment is in operation, the SCR serving this equipment, C764, is not required to be in operation, but may be operated at any control efficiency provided that the emission concentrations being monitored by the certified CEMS serving this equipment is below the valid upper range specified in the approved CEMS plan.

## **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 2012, 5-6-2005]**

[Devices subject to this condition : D9]

A327.1 For the purpose of determining compliance with District Rule 475, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

**[RULE 475, 10-8-1976; RULE 475, 8-7-1978]**

[Devices subject to this condition : D810, D812]

#### **B. Material/Fuel Type Limits**

B22.1 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.5 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D543, D549, D568, D582, D583, D586, D587, D588, D591, D605, D609, D632, D635, D647, D657, D1555]

B22.2 The operator shall not use this equipment with materials having a(n) true vapor pressure of 1.5 psia or greater under actual operating conditions.

**[RULE 462, 5-14-1999]**

[Devices subject to this condition : D515]

B22.3 The operator shall only use this equipment with materials having a(n) true vapor pressure of 5.7 psia or less under actual operating conditions.

## **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(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D639]

B22.4 The operator shall not use this equipment with materials having a(n) true vapor pressure of 10 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D547, D550, D551]

B22.8 The operator shall not use this equipment with materials having a(n) true vapor pressure of 11 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D557, D561, D564, D654, D982, D1078]

B22.9 The operator shall not use this equipment with materials having a(n) true vapor pressure of 1.7 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D602, D608]

B22.10 The operator shall not use this equipment with materials having a(n) true vapor pressure of 9.15 psia or greater under actual operating conditions.

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

## **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 : D595]

B22.11 The operator shall not use this equipment with materials having a(n) true vapor pressure of 6.6 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D606, D607]

B22.12 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.1 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D581]

B27.1 The operator shall not use materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 03/04/2005.

[RULE 1401, 3-7-2008]

[Devices subject to this condition : D1573]

B59.1 The operator shall only use the following material(s) in this device :

Fuel gas. The term "fuel gas" shall be defined as either refinery gas, or vaporized LPG, or natural gas, or any combination thereof.

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

## **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 : D251]

B59.2 The operator shall only use the following material(s) in this device :

Perchloroethylene

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

[Devices subject to this condition : D1533]

B59.3 The operator shall only use the following material(s) in this device :

AMMONIA

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

[Devices subject to this condition : D311]

B59.4 The operator shall only use the following material(s) in this device :

Crude Oil, Light Cycle Oil, Gas Oil, Diesel

**[RULE 1303, 5-10-1996]**

[Devices subject to this condition : D613, D617, D630]

B59.5 The operator shall only use the following material(s) in 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:**

Crude Oil, Diesel Oil

**[RULE 1303, 5-10-1996]**

[Devices subject to this condition : D618, D621]

B59.8 The operator shall only use the following material(s) in this device :

Heavy Crude Oil

**[RULE 1303, 5-10-1996]**

[Devices subject to this condition : D614]

B59.9 The operator shall only use the following material(s) in this device :

Gasoline

**[RULE 1303, 5-10-1996]**

[Devices subject to this condition : D593]

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

Compound	ppm by volume
H2S greater than	160

## 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 H2S concentration limit shall be based on a rolling 3-hour averaging period

**[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]**

[Devices subject to this condition : D9, D32, D33, D89, D90, D91, D92, D112, D120, D146, D157, D158, D194, D196, D214, D215, D216, D217, D218, D247, D248, D249, D250, D251, D384, D385, D386, D387, D388, D722, D723, D724, D725, D770, D777, D1122]

B61.2 The operator shall only use diesel fuel containing the following specified compounds:

Compound	weight percent
Sulfur compounds less than	0.05

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

[Devices subject to this condition : D713, D714, D1100, D1101, D1102, D1103, D1104, D1123]

B61.4 The operator shall not use fresh feed containing the following specified compounds:

Compound	weight percent
Total sulfur greater than	0.3

**[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]**

[Devices subject to this condition : D96]

## 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:**

B61.5 The operator shall not use any fuel containing the following specified compounds:

Compound	weight percent
Total sulfur greater than	0.8

The sulfur concentration limit shall be based on a daily average

**[40CFR 60 Subpart GG, 2-24-2006]**

[Devices subject to this condition : D810, D812]

B61.6 The operator shall not use diesel fuel containing the following specified compounds:

Compound	ppm by weight
Sulfur less than or equal to	15

[RULE 1470, 6-1-2007; **RULE 431.2, 5-4-1990**; RULE 431.2, 9-15-2000]

[Devices subject to this condition : D1617, D1618, D1645, D1646, D1659]

B61.9 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

## **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:**

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

[Devices subject to this condition : D810, D812]

#### **C. Throughput or Operating Parameter Limits**

C1.1 The operator shall limit the material processed to no more than 276000 lb(s)/hr.

For the purpose of this condition, material processed shall be defined as steam produced on an average daily basis from equipment ID: D722, D723, D724 & D725 when two turbines, D810 & D812, and the CO boiler, D112, are in operation.

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

[Devices subject to this condition : D722, D723, D724, D725]

C1.2 The operator shall limit the throughput to no more than 1000 gallon(s) per year.

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

[Devices subject to this condition : D1120, D1121]

C1.3 The operator shall limit the loading rate to no more than 20000 gallon(s) per day.

For the purpose of this condition, loading rate shall be defined as the throughput recorded by the shipping records.

**[RULE 462, 5-14-1999]**

## **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 : D515]

- C1.4 The operator shall limit the throughput to no more than 425000 barrel(s) in any one calendar month.

The operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way (increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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]**

[Devices subject to this condition : D602, D608]

- C1.5 The operator shall limit the throughput to no more than 600,000 barrel(s) in any one calendar month.

## **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 operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way(increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings..

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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]**

[Devices subject to this condition : D595]

C1.7 The operator shall limit the throughput to no more than 168885 barrel(s) in any one year.

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

[Devices subject to this condition : D550]

## **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:**

- C1.8 The operator shall limit the throughput to no more than 152083 barrel(s) in any one month.

The operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way(increasing)volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

In the event of a failure of a component of the ATLGS, the throughput shall be determined by utilizing the one-hour average from the previous 30 days during the period that data was not available.

During routine maintenance or manual gauging, the throughput shall be determined by utilizing the one-hour average from the previous 30 days during the period that data was not available.

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]**

[Devices subject to this condition : D561, D564]

- C1.12 The operator shall limit the unloading rate to no more than 30000 gallon(s) per month.

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

[Devices subject to this condition : D728, D1321]

## **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:**

C1.15 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 RECLAIM large source.

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

[Devices subject to this condition : D91, D194, D196]

C1.17 The operator shall limit the operating time to no more than 199 hour(s) in any one year.

[RULE 1110.2, 2-1-2008; **RULE 1304(c)-Offset Exemption, 6-14-1996**; RULE 1470, 6-1-2007]

[Devices subject to this condition : D713, D714, D1100, D1101, D1102, D1103, D1104, D1123]

C1.18 The operator shall limit the throughput to no more than 375000 barrel(s) in any one calendar month.

## **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 operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way (increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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]**

[Devices subject to this condition : D654]

C1.19 The operator shall limit the number of turnovers to no more than 130 in any one year.

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

[Devices subject to this condition : D639]

## **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:**

C1.21 The operator shall limit the number of turnovers to no more than 12.5 in any one year.

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

[Devices subject to this condition : D523]

C1.22 The operator shall limit the number of turnovers to no more than 26 in any one year.

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

[Devices subject to this condition : D524]

C1.23 The operator shall limit the number of turnovers to no more than 183 in any one year.

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

[Devices subject to this condition : D562, D563]

C1.24 The operator shall limit the throughput to no more than 5.475e+06 barrel(s) in any one year.

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

[Devices subject to this condition : D688]

C1.25 The operator shall limit the throughput to no more than 3e+06 barrel(s) in any one year.

## **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(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D657]

C1.26 The operator shall limit the throughput to no more than 72083 barrel(s) in any one month.

The operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way(increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

In the event of a failure of a component of the ATLGS, the throughput shall be determined by utilizing the one-hour average from the previous 30 days during the period that data was not available.

During routine maintenance or manual gauging, the throughput shall be determined by utilizing the one-hour average from the previous 30 days during the period that data was not available.

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]**

[Devices subject to this condition : D557]

C1.27 The operator shall limit the throughput to no more than 274651 barrel(s) in any one year.

## **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(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D546]

C1.28 The operator shall limit the throughput to no more than 2.4e+06 barrel(s) in any one year.

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

[Devices subject to this condition : D1500]

C1.29 The operator shall limit the throughput to no more than 200000 barrel(s) in any one calendar month.

## **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 operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system (ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way(increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8 %, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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]**

[Devices subject to this condition : D589, D600]

- C1.30 The operator shall limit the throughput to no more than 500000 barrel(s) in any one calendar month.

## **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 operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way (increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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]**

[Devices subject to this condition : D624]

- C1.31 The operator shall limit the throughput to no more than 450000 barrel(s) in any one calendar month.

## **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 operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way (increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8% , whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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]**

[Devices subject to this condition : D652]

- C1.32 The operator shall limit the throughput to no more than 350000 barrel(s) in any one calendar month.

## **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 operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way (increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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]**

[Devices subject to this condition : D655, D1078]

- C1.33 The operator shall limit the throughput to no more than 650000 barrel(s) in any one calendar month.

## **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 operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way (increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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]**

[Devices subject to this condition : D648, D658]

C1.34 The operator shall limit the throughput to no more than 12000 gallon(s) per year.

The operator shall use the purchase invoices to determine the throughput of stored liquid.

**[RULE 1401, 3-7-2008]**

## **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 : D1533]

- C1.35 The operator shall limit the throughput to no more than 300,000 barrel(s) in any one calendar month.

The operator shall utilize an automatic tank level gauging device to determine throughput. The automatic level gauge (tank liquid level) will be manually recorded every 4 hours during the time that product movement occurs and at the start and the end of each product movement. The liquid volume shall be calculated using the tank liquid level records and the tank strapping tables. The throughput in barrels shall be calculated the sum of total one-way (increasing) volume movements on a monthly basis.

The operator shall keep monthly records on the throughput and the vapor pressure for each type of stored product.

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

[Devices subject to this condition : D653]

- C1.36 The operator shall limit the throughput to no more than 350,000 barrel(s) in any one calendar month.

## **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 operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way (increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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 : D659]

- C1.37 The operator shall limit the throughput to no more than 900,000 barrel(s) in any one calendar month.

## **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 operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way(increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings..

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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]**

[Devices subject to this condition : D606, D607]

C1.40 The operator shall limit the throughput to no more than 600,000 barrel(s) in any one month.

## **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 operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way(increasing)volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

In the event of a failure of a component of the ATLGS, the throughput shall be determined by utilizing the one-hour average from the previous 30 days during the period that data was not available.

During routine maintenance or manual gauging, the throughput shall be determined by utilizing the one-hour average from the previous 30 days during the period that data was not available.

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]**

[Devices subject to this condition : D982]

C1.41 The operator shall limit the throughput to no more than 400,000 barrel(s) in any one calendar month.

## **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 operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way (increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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 : D649]

- C1.42 The operator shall limit the throughput to no more than 300,000 barrel(s) in any one calendar month.

## **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 operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way (increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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 : D630]

C1.43 The operator shall limit the maintenance and testing to no more than 50 hour(s) in any one year.

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

## 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)-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 1470, 6-1-2007]

[Devices subject to this condition : D1617, D1618, D1645, D1646, D1659]

C1.44 The operator shall limit the maintenance and testing to no more than 5 hour(s) in any one 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 : D1123, D1617, D1618, D1645, D1646, D1659]

C1.45 The operator shall limit the operating time to no more than 199 hour(s) in any one year.

[RULE 1110.2, 2-1-2008; **RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1470, 6-1-2007]

[Devices subject to this condition : D1617, D1618, D1645, D1646, D1659]

C1.46 The operator shall limit the loading rate to no more than 912500 barrel(s) of Pentane in any one year.

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

[Devices subject to this condition : D1040]

C1.47 The operator shall limit the throughput to no more than 350,000 barrel(s) in any one calendar month.

## **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 operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way (increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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 : D613, D618, D621]

C1.48 The operator shall limit the maintenance and testing to no more than 34 hour(s) in any one year.

The purpose of this condition is to ensure compliance with requirements of National Fire Protection Association (NFPA) 25 standards.

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

## **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 1470, 6-1-2007]

[Devices subject to this condition : D1123]

- C1.49 The operator shall limit the throughput to no more than 152,167 barrel(s) in any one calendar month.

This condition shall only apply when this tank is storing product having a vapor pressure of 0.1 psia or lower.

The operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way (increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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

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

[Devices subject to this condition : D547, D551]

C1.51 The operator shall limit the throughput to no more than 14,074 barrel(s) in any one calendar month.

This condition shall only apply when this tank is storing product of vapor pressure of 0.1 psia or greater. If this tank is storing product of vapor pressure of 0.1 psia or lower, refer to condition C1.49 for throughput limit.

The operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way (increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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

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

[Devices subject to this condition : D547, D551]

C1.53 The operator shall limit the throughput to no more than 608,333 barrel(s) in any one calendar month.

The operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way (increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days ..

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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 : D593]

## **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:**

C1.54 The operator shall limit the throughput to no more than 500,000 barrel(s) in any one calendar month.

The operator shall measure and record the liquid volume of the tank using an automatic tank level gauging system(ATLGS). The ATLGS shall measure the tank liquid level and calculate the liquid volume using the tank strapping tables. The volume measurements shall be recorded electronically once every 15 minutes.

The operator shall calculate the throughput in barrels using the total one-way (increasing) volume movement on a monthly basis. The calculation will be based on the sum of the increasing volume readings.

The ATLGS installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLGS differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLGS shall be repaired and back to service within 10 days.

In the event of a failure or routine maintenance of the ATLGS, the ATLGS shall be repaired and put back into service within 10 days of the time that the ATLGS failed or was removed from service for maintenance. While the ATLGS is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLGS went out of service.

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 : D614, D617]

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.

## **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 operator shall use an explosimeter or equivalent device to monitor the hydrocarbon concentration in the vapor space above the floating roof device twice a year to a 4 to 8 month interval.

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

[Devices subject to this condition : D659, D660]

- C6.3 The operator shall use this equipment in such a manner that the differential pressure being monitored, as indicated below, does not exceed 4 inches HG.

To comply with this condition, the operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the filters.

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

[Devices subject to this condition : C1574]

- C6.4 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 an explosimeter or equivalent device to monitor the hydrocarbon concentration in the vapor space above the floating roof device on a semi-annual basis.

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

[Devices subject to this condition : D593, D613, D614, D617, D618, D621, D630]

- C8.2 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1200 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:**

This condition shall only apply when waste gases are being incinerated.

To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the firebox or in the ductwork immediately downstream from the firebox.

The measuring device or gauge shall be accurate to within plus or minus 10 percent. It shall be calibrated once every 12 months.

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

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

[Devices subject to this condition : D722, D723, D724, D725]

- C8.3 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 20 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the caustic scrubbing solution.

The operator shall determine and record the parameter being monitored daily.

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

[Devices subject to this condition : C761, C762]

- C177.1 The operator shall set and maintain the fuel injection timing of the engine at 4 degrees retarded relative to standard timing.

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

## **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 : D713]

#### **D. Monitoring/Testing Requirements**

D12.1 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature across the SCR bed.

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

[Devices subject to this condition : C764, C768, C771, C773, C775, C778, C784, C786, C788]

D12.2 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 : D713, D714, D1100, D1101, D1102, D1103, D1104, D1123]

D12.3 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the water-to-fuel ratio of the cogeneration system.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 475, 10-8-1976; RULE 475, 8-7-1978; 40CFR 60 Subpart GG, 2-24-2006]**

[Devices subject to this condition : D810, D812]

## **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:**

D12.4 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.

The continuous monitoring system shall include EXACT CHAR alarms.  
CONDITION PARAMETER NOT SET UP

**[RULE 1118, 11-4-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 60  
Subpart A, 6-13-2007]**

[Devices subject to this condition : C747, C748]

D12.6 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the the total hourly throughput recorded of injected ammonia.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

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

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

[Devices subject to this condition : C1536, C1538]

D12.7 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature of the exhaust at the inlet to the SCR reactor.

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**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 5 percent. It shall be calibrated once every 12 months.

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

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

[Devices subject to this condition : C1536, C1538]

D12.8 The operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed in inches of water column.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

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

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

[Devices subject to this condition : C1536, C1538]

D12.13 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

**[RULE 1110.2, 2-1-2008; RULE 1470, 6-1-2007; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D1617, D1618, D1645, D1646, D1659]

D28.3 The operator shall conduct source test(s) in accordance with the following specifications:

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

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

The test shall be conducted to confirm the emission limits of this equipment as specified in Condition A63.2 for device D32 and Condition A63.10 for device D9.

The test shall be conducted to determine and report the mass emission rate in pound per hour for ROG, PM10 and CO.

Source test shall be conducted when this equipment is operating at 80 percent or greater of the permitted maximum rated capacity.

The test shall be conducted to confirm the CO emission concentration limit of 35 ppm, corrected to 3 percent oxygen, dry basis.

The test shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up.

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

The test shall be conducted at least once every three years for ROG, PM10 and CO emissions.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D9, D32]

D28.4 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted at least annually.

The test shall be conducted when the SCR is in use to determine the NH<sub>3</sub> emissions at the outlet.

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

[Devices subject to this condition : C764, C768, C771, C773, C775, C778, C784, C786, C788]

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 annually.

The test shall be conducted when the equipment is operating under normal conditions.

Source test results shall be submitted to the District no later than 60 days after the source test was conducted

Source test results shall include the following parameters: FCCU feed rate; catalyst recirculation rate; coke burn rate; oxygen content of exhaust gases; exhaust flow rate; exhaust gas moisture content; the flue gas temperature at the outlet of the ESP; and the average current, voltage, and spark rate at each of the ESP fields

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 404, 2-7-1986; RULE 405, 2-7-1986; CONSENT DECREE, 3-21-2001]**

[Devices subject to this condition : D96]

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

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

**The operator shall comply with the terms and conditions set forth 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 equipment is operating under normal conditions.

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

[Devices subject to this condition : D810, D812]

D29.3 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 equipment being vented by the SCR are operating under normal conditions.

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

[Devices subject to this condition : C786]

D29.5 The operator shall conduct source test(s) for the pollutant(s) identified below.

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

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NH3 emissions	District method 207.1 or EPA method 17	1 hour	Outlet of the SCR serving this equipment

The test(s) shall be conducted at least once each calendar quarter during the first 12 months of operation and at least annually thereafter. The NOx concentration, as determined by the CEMS, shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable, a test shall be conducted to determine the NOx emissions using District Method 100.1 measured over a 60 minute averaging time period.

The test shall be conducted to demonstrate compliance with Rule 1303 concentration limit.

The test shall be conducted when the equipment is operating at 80 percent load or greater.

The test shall be conducted and the results submitted to the AQMD permitting engineer within 45 days after the test date.

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

[Devices subject to this condition : C1536, C1538]

D29.6 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 of the filter
PM10 emissions	Approved District method	1 hour	Outlet of the filter

## 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 test shall be conducted initially and annually if the equipment is utilized for more than 30 days in a calendar year.

The test(s) shall be conducted within 120 days after achieving maximum production rate, but no later than 180 days after initial start-up.

The test shall be conducted when this equipment is operating at least 80 percent of the maximum capacity. Report of the test and operating condition of the equipment shall be submitted to the District within 60 days after the test..

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

The operator shall submit a test protocol to the District at least 60 days prior to the initial testing. The initial and annual tests shall be conducted according to the approved test protocol or any subsequently approved revisions

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

[Devices subject to this condition : C1574]

D29.7 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
NOX emissions	District method 100.1	1 hour	Outlet of the SCR
PM emissions	Approved District method	District-approved averaging time	Outlet of the SCR
NH3 emissions	District method 207.1 and 5.3 or EPA method	1 hour	Outlet of the SCR

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

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

The test shall be conducted after AQMD approval of the source test protocol, but no later than 180 days after the issuance of the permit. The AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the test shall record the fuel flow rate(CFH), the flue gas flowrate.

The test shall be conducted in accordance with AQMD approved source test protocol. The protocol shall be submitted to the AQMD no later than 45 days before the proposed test date and shall be approved by the AQMD before test commences. The test protocol shall include the proposed operating conditions of the SCR during the test, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

The test shall be conducted when the heater(s) , which this SCR is serving, is (are) operating at loads of 80 percent or greater of the permitted maximum rated capacity.

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

[Devices subject to this condition : C771, C773, C775, C778]

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

CO concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

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

[Devices subject to this condition : C811, C813]

## **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:**

D82.2 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

Oxygen concentration in percent volume

**[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]**

[Devices subject to this condition : D96]

D90.2 The operator shall periodically monitor the pH of the caustic solution according to the following specifications:

The operator shall monitor once every week.

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

[Devices subject to this condition : D798]

D90.3 The operator shall periodically monitor the pH of the caustic solution whenever the scrubber is in operation according to the following specifications:

The operator shall monitor once every day.

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

[Devices subject to this condition : C232]

D90.4 The operator shall periodically monitor the VOC concentration at the outlet of the last carbon according to the following specifications:

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

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

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

The operator shall monitor once every day.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 61 Subpart FF, 12-4-2003; 40CFR 63 Subpart CC, 6-23-2003]**

[Devices subject to this condition : C472, C473, C1096]

D90.5 The operator shall continuously monitor the VOC concentration at the outlet of the last carbon adsorber according to the following specifications:

The operator shall use a continuous emission monitoring system (CEMS) to monitor the parameter.

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

The operator shall monitor the VOC concentration utilizing a District approved Organic Analyzer once per day during the CEMS breakdown or maintenance periods.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 63 Subpart CC, 6-23-2003]**

[Devices subject to this condition : C699, C702]

D90.6 The operator shall periodically sample the caustic scrubbing solution at the inlet of the scrubber for caustic concentration analysis according to the following specifications:

The operator shall sample, analyze, and record once per day the strength of the caustic (NaOH) solution which shall not be less than 3 percent.

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

## **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 : C761, C762]

D90.7 The operator shall continuously monitor the H<sub>2</sub>S concentration in the fuel gases before being burned in this device according to the following specifications:

The operator shall use Gas Chromatograph 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 H<sub>2</sub>S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H<sub>2</sub>S in the fuel gas being burned in this device.

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

[Devices subject to this condition : D9, D32, D33, D89, D90, D91, D92, D112, D120, D146, D157, D158, D194, D196, D214, D215, D216, D217, D218, D247, D248, D249, D250, D251, D384, D385, D386, D387, D388, D722, D723, D724, D725, D770, D777, D810, D812, D1122]

D90.8 The operator shall continuously monitor the opacity at the stack according to the following specifications:

The operator shall use an opacity meter to monitor the parameter.

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

**[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]**

[Devices subject to this condition : D96]

## **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:**

D90.10 The operator shall continuously monitor the sulfur concentration in the fuel gases being burned in this device according to the following specifications:

The operator shall monitor the sulfur concentration in the fuel by utilizing the SO<sub>x</sub> emission data from the certified RECLAIM SO<sub>x</sub> CEMS to calculate the sulfur concentration in the fuel as specified in the alternative monitoring plan which received EPA approval on June 23, 1998.

**[40CFR 60 Subpart GG, 2-24-2006]**

[Devices subject to this condition : D810, D812]

D90.16 The operator shall periodically monitor the H<sub>2</sub>S concentration in the fuel gases before being burned in this device according to the following specifications:

The Alternative Monitoring Plan (AMP) approved by the United States Environmental Protection Agency (USEPA) on December 4, 2002 for the periodic monitoring and reporting of H<sub>2</sub>S concentration for the PSA Purge Gas stream to the reformer heater H-42/43.

The operator shall conduct annual source testing of the PSA purge gas and daily detector tube sampling at the outlet of the first Zinc Oxide bed to confirm that the concentration of H<sub>2</sub>S does not exceed 0-1 ppmv.

In addition, the operator shall also comply with all other requirements of the AMP issued by the USEPA on December 4, 2002 for reformer heater H-42/43.

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

**[40CFR 60 Subpart A, 6-13-2007; 40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition : D777, D1122]

## **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:**

D90.17 The operator shall periodically monitor the H2S concentration in the fuel gases before being burned in this device according to the following specifications:

The Alternative Monitoring Plan (AMP) approved by the United States Environmental Protection Agency (USEPA) on June 23, 2004 for the periodic monitoring and reporting of H2S concentration for the Merichem Off-Gas Fuel stream to the boiler.

The operator shall conduct daily drager tube sampling of the Merichem Off-Gas Fuel stream to confirm that the concentration of H2S does not exceed 0-1 ppmv.

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

**[40CFR 60 Subpart A, 6-13-2007; 40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition : D722, D723, D724, D725]

D90.18 The operator shall periodically monitor the vapor pressure of the material stored in this storage tank according to the following specifications:

The operator shall determine the true vapor pressure by one of the following methods: 1) sample and test the materials stored, 2) derive the vapor pressure using engineering calculations, or 3) maintain on file a copy of the Material Safety Data Sheet (MSDS) of the material stored.

Records of material stored, and their MSDS if applicable, shall be retained for a period of five years and made available to the Executive Officer upon request.

**[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]**

[Devices subject to this condition : D543, D547, D549, D550, D551, D557, D561, D564, D568, D582, D583, D586, D587, D588, D595, D602, D605, D606, D607, D608, D609, D632, D635, D639, D647, D654, D657, D982, D1078, D1555]

## **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:**

D90.19 The operator shall monitor the throughput of this storage tank according to the following specifications:

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously measure and record the liquid surface level movement. The throughput, in barrels, shall be calculated using the following equation:  $0.14 \times D \times D \times L$ , where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way liquid surface level travel in feet per month. For the purpose of this condition, continuous recording is defined as once per hour.

Alternatively, for tanks which do not have an ATLG device, the throughput shall be derived by using engineering calculations using parameters obtained from process records, shipping invoices, manual tank level gauging, etc.

Records of throughput shall be retained for a period of five years and made available to the Executive Officer upon request.

**[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]**

[Devices subject to this condition : D546, D550, D648, D649, D657, D688, D1120, D1121, D1500]

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]**

[Devices subject to this condition : D713, D714]

D322.2 The operator shall perform annual inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

## **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:**

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

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

[Devices subject to this condition : C1574]

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

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

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

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

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

## **FACILITY PERMIT TO OPERATE 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 : D41, D45, D46, D47, D49, D1093, D1094, D1155, D1156, D1157, D1158, D1159, D1160, D1161, D1162, D1164, D1165, D1170, D1173, D1174, D1175, D1176, D1177, D1178, D1283, D1284, D1287, D1288, D1438, D1532, C1574]

## **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 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 : C747, C748]

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 CO emission limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

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

[Devices subject to this condition : D32, D33, D89, D90, D91, D112, D120, D146, D157, D158, D194, D196, D214, D218, D247, D248, D251, D384, D386, D387, D388, D722, D723, D724, D725, D770, D777, D810, D812, D1122]

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 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 : D92, D215, D216, D217, D249, D250, D385]

## **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:**

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

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 461, 6-3-2005; RULE 461, 3-7-2008]**

[Devices subject to this condition : D734, D1320]

#### **E. Equipment Operation/Construction Requirements**

E51.2 The following condition number(s) shall not apply if any of the requirements stated below are met:

Condition Number E 71- 4

Requirement number 1: The gas turbine is in the start-up mode.

Requirement number 2: Device ID C1536 (Selective Catalytic Reduction) is in full operation

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

[Devices subject to this condition : D810]

E51.4 The following condition number(s) shall not apply if any of the requirements stated below are met:

## **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:**

Condition Number E 71- 4

Requirement number 1: The gas turbine is in the start-up mode.

Requirement number 2: Device ID C1538 (Selective Catalytic Reduction) is in full operation

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

[Devices subject to this condition : D812]

E54.3 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C788 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: The heater is in either start-up or shutdown mode.

Requirement number 2: The SCR inlet temperature is less than 550 Deg F.

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

[Devices subject to this condition : D388]

E54.4 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C786 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: The heater is in either start-up or shutdown mode.

Requirement number 2: The SCR inlet temperature is less than 550 Deg F.

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

## **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 : D386, D387]

E54.5 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C784 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: The heater is in either start-up or shutdown mode.

Requirement number 2: The SCR inlet temperature is less than 550 Deg F.

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

[Devices subject to this condition : D384, D385]

E54.6 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C775 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: The heater is in either start-up or shutdown mode.

Requirement number 2: The SCR inlet temperature is less than 550 Deg F.

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

[Devices subject to this condition : D247, D248, D249]

E54.7 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

## **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:**

Device ID: C771 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: The heater is in either start-up or shutdown mode.

Requirement number 2: The SCR inlet temperature is less than 550 Deg F.

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

[Devices subject to this condition : D770]

E54.8 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C778 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: The furnace is in either start-up or shutdown mode.

Requirement number 2: The SCR inlet temperature is less than 550 Deg F.

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

[Devices subject to this condition : D777]

E54.9 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C768 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: The heater is in either start-up or shutdown mode.

Requirement number 2: The SCR inlet temperature is less than 550 Deg F.

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

## **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 : D33]

E54.10 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C778 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: The boiler is in either start-up or shutdown mode.

Requirement number 2: The SCR inlet temperature is less than 550 Deg F.

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

[Devices subject to this condition : D1122]

E54.13 The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

Device ID: C788 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: Bypass is allowed for activities directly related to repair, maintenance, and the resetting of the damper following a stack damper trip

Requirement number 2: The CEMS shall be fully operational and certified to the levels of emissions with and without bypass

Requirement number 3: Total periods of bypass do not exceed 240 hours per year

Requirement number 4: The operator shall submit an annual report to the District with a summary of the number of hours the SCR was bypassed, and the description of the reason for each bypass. The annual report is due March 1 of each year

**[RULE 2012, 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:**

[Devices subject to this condition : D388]

E54.14 The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

Device ID: C786 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: Bypass is allowed for activities directly related to repair, maintenance, and the resetting of the damper following a stack damper trip

Requirement number 2: The CEMS shall be fully operational and certified to the levels of emissions with and without bypass

Requirement number 3: Total periods of bypass do not exceed 240 hours per year

Requirement number 4: The operator shall submit an annual report to the District with a summary of the number of hours the SCR was bypassed, and the description of the reason for each bypass. The annual report is due March 1 of each year

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

[Devices subject to this condition : D386, D387]

E54.15 The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

## **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:**

Device ID: C784 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: Bypass is allowed for activities directly related to repair, maintenance, and the resetting of the damper following a stack damper trip

Requirement number 2: The CEMS shall be fully operational and certified to the levels of emissions with and without bypass

Requirement number 3: Total periods of bypass do not exceed 240 hours per year

Requirement number 4: The operator shall submit an annual report to the District with a summary of the number of hours the SCR was bypassed, and the description of the reason for each bypass. The annual report is due March 1 of each year

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

[Devices subject to this condition : D384, D385]

E54.16 The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

Device ID: C775 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: Bypass is allowed for activities directly related to repair, maintenance, and the resetting of the damper following a stack damper trip

Requirement number 2: The CEMS shall be fully operational and certified to the levels of emissions with and without bypass

Requirement number 3: Total periods of bypass do not exceed 240 hours per year

Requirement number 4: The operator shall submit an annual report to the District with a summary of the number of hours the SCR was bypassed, and the description of the reason for each bypass. The annual report is due March 1 of each year

## **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 2012, 5-6-2005]**

[Devices subject to this condition : D247, D248, D249]

E54.17 The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

Device ID: C768 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: Bypass is allowed for activities directly related to repair, maintenance, and the resetting of the damper following a stack damper trip

Requirement number 2: The CEMS shall be fully operational and certified to the levels of emissions with and without bypass

Requirement number 3: Total periods of bypass do not exceed 240 hours per year

Requirement number 4: The operator shall submit an annual report to the District with a summary of the number of hours the SCR was bypassed, and the description of the reason for each bypass. The annual report is due March 1 of each year

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

[Devices subject to this condition : D33]

E57.1 The operator shall vent this equipment to scrubber C232 whenever scrubbers C761 and C762 are shutdown for breakdown or maintenance.

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

[Devices subject to this condition : D505]

## **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:**

E71.1 The operator shall only use this equipment for holding excess storm water, or holding separator effluent water in the event of mechanical problems or upset conditions in the final effluent treating units. It may also be used for surge storage of fresh water during plant water well outage. This equipment shall be completely emptied as soon as possible after receipt of effluent water.

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

[Devices subject to this condition : D688]

E71.3 The operator shall only use this equipment to process the sludge from Equipment ID D469 (TK-6002/6003).

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

[Devices subject to this condition : D703]

E71.4 The operator shall only operate this equipment if the water injection is in full operation.

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

[Devices subject to this condition : D810, D812]

E71.5 The operator shall only use this equipment if the pH of the caustic solution in this equipment is maintained at equal or greater than 10.

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

[Devices subject to this condition : C232]

## **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:**

E71.6 The operator shall only use this equipment for loading spent caustic solution having pH equal or greater than 10.

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

[Devices subject to this condition : D798]

E71.7 The operator shall only inject anhydrous ammonia into this equipment if the flue gas inlet temperature to this equipment is 550 degrees F or higher.

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

[Devices subject to this condition : C764, C768, C771, C773, C775, C778, C784, C786, C788]

E71.8 The operator shall only use this equipment for processing storm and rain water run-off.

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

[Devices subject to this condition : D697, D700]

E71.10 The operator shall only use this equipment for storing waste water discharged from laboratory operations.

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

[Devices subject to this condition : D1095]

E71.11 The operator shall only operate this equipment if the caustic solution is maintained at a minimum height of 1 FT.

## **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]**

[Devices subject to this condition : C232]

- E71.12 The operator shall only limit the product deliveries to this equipment to no more than 61 trucks per year. The operator shall use the purchases invoices and other records to demonstrate compliance with the number of truck deliveries of Ammonia.

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

[Devices subject to this condition : D311]

- E71.13 The operator shall not operate this equipment if V-822 (D1287) Catalyst Loading Pot is in operation.

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

[Devices subject to this condition : D1573]

- E73.1 Notwithstanding the requirements of Section E conditions, the operator may, at his discretion, choose not to use ammonia injection if any of the following requirement(s) are met:

The inlet exhaust temperature to the SCR reactor is 450 degrees F or less

condition E71.4 is met

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

[Devices subject to this condition : C1536, C1538]

## **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:**

E102.1 The operator shall discharge dust collected in this equipment only into closed containers.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]**

[Devices subject to this condition : C1574]

E131.1 The operator shall maintain a vapor-tight seal between the adaptor and compartment hatch when loading fresh or spent acid.

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

[Devices subject to this condition : D505]

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 hydrocarbon monitor reading indicates a concentration of 500 ppmv at the outlet of the last carbon adsorber. The 500 ppmv refers to VOC concentration.

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

[Devices subject to this condition : C472, C473, C699, C702, C1096]

E179.1 For the purpose of the following condition number(s), continuously record shall be defined as once every hour and shall be calculated upon average of the continuous monitoring for that hour.

Condition Number D 12- 6

Condition Number D 12- 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:**

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 5-6-2005]**

[Devices subject to this condition : C1536, C1538]

E179.2 For the purpose of the following condition number(s), continuously record shall be defined as once every month and shall be calculated upon average of the continuous monitoring for that month.

Condition Number D 12- 8

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 5-6-2005]**

[Devices subject to this condition : C1536, C1538]

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 Subpart A of the 40CFR60

**[40CFR 60 Subpart A, 6-13-2007]**

[Devices subject to this condition : C747, C748]

E193.5 The operator shall operate and maintain this equipment according to the following requirements:

To maintain the PM10 average daily value to 26 lbs or below from this equipment H-101 (D32), the DCU Propane Vaporizer E-1465 (D1616-P2S1) will only operate when the DCU Sponge Oil Absorber V-910 (D1143-P2S1) is in operation

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

[Devices subject to this condition : D32]

E313.1 This device is classified as a non-operated major SOx and NOx source as defined under Rules 2011 and 2012 and shall not be operated unless the Facility Permit holder provides written notification to the Executive Officer 30 days prior to starting operation. In order to maintain the non-operational classification, the Facility Permit holder shall:

(a) Remove a section of the fuel feed line(s) to the device and place a blind flange on both ends of the fuel feed line(s); and

(b) Remove all burners.

Removal of parts or components solely to qualify the device for non-operated classification pursuant to this condition, or replacement of the same removed parts or components resulting in the device no longer being classified as non-operated shall not be deemed to affect the potential to emit within the meanings of Rule 2005, Regulation XIII and Regulation XXX.

**[RULE 2011, 5-6-2005; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D91, D194, D196, D251]

E315.1 Once this device is operated, it shall no longer be classified as non-operational. This device shall also meet the monitoring requirements of Rules 2011 and 2012, subparagraph (c)(2)(A) or (c)(2)(B) no later than 30 calendar days after the start of operation except as provided in Rule 2011, paragraph (c)(11) and Rule 2012, paragraph (c)(10).

**[RULE 2011, 5-6-2005; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D91, D194, D196, D251]

## **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:**

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

This equipment shall not be operated unless the vapor recovery system/carbon adsorber is in full use and has a valid permit to receive vent gases from this equipment.

All vent gases from the vacuum trucks used in transferring bottom sludges of this equipment shall be directed to the vapor recovery system or carbon adsorber.

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

[Devices subject to this condition : D469]

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

All vent gases under normal operating conditions shall be directed to a vapor recovery system consisting of compressors, D641, D642, D643, and/or D644, which can be operated independently to maintain a system vacuum that efficiently collects all vented gases.

This equipment shall not be operated unless the vapor recovery 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(b)(2)-Offset, 5-10-1996]**

## **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 : D458, D459, D460, D461, D462, D466, D467, D520, D521, D526, D531, D533, D534, D544, D546, D547, D548, D550, D551, D552, D553, D554, D555, D556, D557, D558, D559, D560, D561, D562, D563, D564, D565, D566, D567, D569, D571, D572, D573, D574, D575, D576, D577, D578, D579, D584, D585, D589, D592, D594, D595, D596, D597, D598, D599, D600, D602, D603, D604, D606, D607, D608, D611, D615, D616, D619, D620, D622, D623, D624, D625, D626, D627, D628, D631, D633, D634, D636, D637, D639, D640, D807, D808, D809, D982, D998, D1001, D1002, D1500]

E336.3 The operator shall vent the vent gases from this equipment as follows:

All vent gases under normal operating conditions shall be directed to the DCU Blowdown Recovery system.

This equipment shall not be operated unless the above vapor recovery 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(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D20]

## **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:**

E440.1 The operator shall operate and maintain this equipment according to the following specifications:

The requirement of condition E336.2 does not apply when the commodity being stored in this equipment is only Metropolitan Water or water supplied by the Los Angeles Department of Water and Power for the sole purpose of supplying water for the refinery firewater system and the operator demonstrate that the tank has been degassed pursuant to Rule 1149 and the hydrocarbon vapor pressure at storage condition does not exceed 0.1 psia as determined by SCAQMD Method 25.3

The following equation will use the results of SCAQMD Method 25.3 to convert from ppm to psia:  $P(\text{voc}) = (\text{ppm}/1000000) \times P_t$ ; where  $P_t = \text{atmospheric pressure} = 14.7 \text{ psia}$

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

[Devices subject to this condition : D552, D553]

E440.2 The operator shall operate and maintain this equipment according to the following specifications:

The operator shall notify the primary SCAQMD inspector for the refinery in writing and by e-mail (Refinery\_Compliance@aqmd.gov) whenever (1) the commodity is switched from water to organic liquid, (2) the commodity is switched from organic liquid to water and (3) water or organic liquid is introduced into an empty tank. The notification shall be made within 5 days of any changes in commodity as described above and shall include the vapor pressure of liquid at storage condition expressed in the unit of psia

**[RULE 1178, 4-7-2006; 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:**

[Devices subject to this condition : D552, D553]

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

The operator shall maintain the SCR bypass stack dampers for heaters D214, D215, D216 and D217 at a fully closed position such that no emissions will be exhausted through the bypass stacks whenever fuel is supplied to the heaters.

The operator shall install and maintain damper limit switches or other equivalent device to accurately indicate the fully closed position of the SCR bypass stack dampers.

The operator shall record the position of the dampers at least once every 15 minutes and any time the damper position changes.

The operator shall install and maintain an automatic fuel shutoff system to cut off the fuel supply to this device whenever any of the bypass stack dampers is not in the fully closed position.

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

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

[Devices subject to this condition : D214, D215, D216, D217]

#### **H. Applicable Rules**

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

Contaminant	Rule	Rule/Subpart
<hr/>		

## 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:

VOC	40CFR60, SUBPART	Kb
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**[40CFR 60 Subpart Kb, 10-15-2003]**

[Devices subject to this condition : D469, D524, D593, D598, D613, D614, D617, D630, D648, D982, D1001, D1002, D1078]

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

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	Ka

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

[Devices subject to this condition : D581]

H23.3 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, 6-24-2008; CONSENT DECREE, 3-21-2001]**

[Devices subject to this condition : D9, D32, D33, D89, D90, D91, D92, D112, D120, D146, D157, D158, D194, D196, D214, D215, D216, D217, D218, D247, D248, D249, D250, D251, D384, D385, D386, D387, D388, D722, D723, D724, D725, D770, D777]

## 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:**

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

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	GGG

**[40CFR 60 Subpart GGG, 6-2-2008]**

[Devices subject to this condition : D68, D140, D156, D176, D333, D377, D642, D901, D918, D1082, D1194, D1338]

H23.5 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 : D1354, D1355, D1357, D1359, D1361, D1362, D1363, D1366, D1367, D1384, D1399, D1415, D1416, D1419, D1425, D1443, D1444, D1451, D1454, D1459, D1460, D1461, D1465, D1466, D1467, D1469, D1470, D1471, D1472, D1473, D1477, D1553, D1556, D1557, D1561]

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

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	K

## 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:**

**[40CFR 60 Subpart K, 10-17-2000]**

[Devices subject to this condition : D634]

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

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	K
Benzene	40CFR61, SUBPART	FF

**[40CFR 60 Subpart K, 10-17-2000; 40CFR 61 Subpart FF, 12-4-2003]**

[Devices subject to this condition : D633]

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

Contaminant	Rule	Rule/Subpart
Refrigerants	District Rule	1415

[RULE 1415, 10-14-1994]

[Devices subject to this condition : E1487, E1488]

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

Contaminant	Rule	Rule/Subpart
Chromium, Hexavalent	District Rule	1404

## 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 1404, 4-6-1990]

[Devices subject to this condition : E1489]

H23.14 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 : E1492]

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

Contaminant	Rule	Rule/Subpart
Halon	District Rule	1418

[RULE 1418, 9-10-1999]

[Devices subject to this condition : E1494]

H23.16 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

## 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, 2-6-2009; 40CFR 60 Subpart GGG, 6-2-2008]**

[Devices subject to this condition : D922, D923, D1365, D1380, D1381, D1392, D1446, D1447, D1448, D1449, D1453, D1455, D1456, D1458, D1562, D1682, D1683]

H23.17 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	QQQ

**[40CFR 60 Subpart QQQ, 10-17-2000]**

[Devices subject to this condition : D1495, D1496]

H23.18 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
NOX	40CFR60, SUBPART	GG
H2S	40CFR60, SUBPART	J
SOX	40CFR60, SUBPART	GG
CO	District Rule	1134

**[RULE 1134, 8-8-1997; 40CFR 60 Subpart GG, 2-24-2006; 40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition : D810, D812]

## 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:**

H23.25 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	District Rule	1178

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

[Devices subject to this condition : D657, D688, D1001, D1002]

H23.27 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	109

**[RULE 109, 5-2-2003]**

[Devices subject to this condition : E1491, E1499]

H23.29 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
NOX	40CFR60, SUBPART	Db
H2S	40CFR60, SUBPART	J

## 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:**

**[40CFR 60 Subpart Db, 1-28-2009; 40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition : D1122]

H23.30 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	465

**[RULE 465, 8-13-1999]**

[Devices subject to this condition : D1558, D1559, D1560]

H23.31 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1178
VOC	District Rule	463

For Rule 463 applicability, only subdivision (d) in the March 11,1994 amendment, or equivalent requirements in the future amendments, shall apply to domed external floating roof tanks. This does not preclude any requirements specified in Rule 1178

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

[Devices subject to this condition : D648]

H23.32 This equipment is subject to the applicable requirements of the following rules or regulations:

## 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:**

Contaminant	Rule	Rule/Subpart
CO	40CFR60, SUBPART	J
PM	40CFR60, SUBPART	J
Visible Emissions	40CFR60, SUBPART	J
SOX	40CFR60, SUBPART	J

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

[Devices subject to this condition : D96]

H23.33 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	District Rule	1178
VOC	40CFR60, SUBPART	Kb

For Rule 463 applicability, only subdivision (d) in the March 11, 1994 amendment, or equivalent requirements in the future amendments, shall apply to domed external floating roof tanks. This does not preclude any requirements specified in Rule 1178.

**[RULE 1149, 7-14-1995; RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 463, 5-6-2005; 40CFR 60 Subpart Kb, 10-15-2003]**

[Devices subject to this condition : D561, D564, D639, D659]

## 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:**

H23.36 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM	District Rule	1470

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D1617, D1618, D1645, D1646, D1659]

H23.38 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 : C747, C748]

H23.40 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Benzene	40CFR61, SUBPART	FF

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

## **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 : D458, D459, D460, D461, D462, D463, D464, D465, D466, D467, D469, D471, C472, C473, D526, D544, D546, D562, D563, D565, D567, D572, D573, D575, D576, D577, D578, D579, D608, D611, D623, D625, D626, D627, D628, D633, D639, D703, D709, D1095, C1096, D1304, D1480, D1481, D1482, D1483, D1484, D1485]

#### **I. Administrative**

- II.1 The operator shall comply with all the requirements of the conditions and compliance schedule as specified in the Variance, Case No. 4982-77, 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).

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

[Devices subject to this condition : C747, C748]

## **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:**

I296.1 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the annual emissions increase for the first 12 months of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the start of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

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

[Devices subject to this condition : D9, D1617, D1618, D1645, D1646]

#### **J. Rule 461**

J109.1 The operator shall use, except for diesel transfer, the phase I vapor recovery system in full operation whenever this equipment is in use. This system shall be installed, operated and maintained to meet all CARB certification requirements.

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

[Devices subject to this condition : D728, D1321]

J110.1 The operator shall use, except for diesel transfer, the phase II vapor recovery system in full operation whenever gasoline from this equipment is dispensed to motor vehicles as defined in Rule 461. This system shall be installed, operated and maintained to meet all CARB certification requirements.

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

[Devices subject to this condition : D734, D1320]

J119.1 A CARB certified pressure/vacuum relief valve shall be installed on the tank vent stack and shall be set as specified in G-70-116

## **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 461, 6-3-2005; RULE 461, 3-7-2008]**

[Devices subject to this condition : D728, D1321]

#### **K. Record Keeping/Reporting**

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The date of operation, the elapsed time in hours, and the reason for operation.

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

[Devices subject to this condition : D713, D714, D1100, D1101, D1102, D1103, D1104, D1123]

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 3004(a)(4)-Periodic Monitoring, 12-12-1997; 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:**

[Devices subject to this condition : D520, D521, D531, D533, D534, D543, D544, D546, D548, D549, D554, D555, D556, D558, D559, D560, D562, D563, D565, D566, D567, D568, D569, D571, D572, D573, D575, D576, D577, D578, D579, D581, D582, D583, D584, D585, D586, D587, D588, D591, D592, D594, D596, D597, D598, D599, D603, D604, D605, D609, D610, D611, D612, D615, D616, D619, D620, D622, D623, D625, D626, D627, D628, D629, D631, D632, D633, D634, D635, D636, D637, D640, D647, D648, D649, D650, D651, D652, D653, D654, D655, D656, D658, D1001, D1002, D1095, D1500, D1555]

K67.4 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.

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

[Devices subject to this condition : E1493]

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

## **FACILITY PERMIT TO OPERATE 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:**

Throughput in barrels per calendar month

Vapor pressure of stored liquid in psia

Other records that may be required to comply with the applicable requirements of District Rules 463 and 1178

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

[Devices subject to this condition : D557, D561, D564, D595, D606, D607, D982]

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

Hydrocarbon concentration measurements done in the vapor space above the floating roof of the tank

Throughput in barrels per calendar month

Vapor pressure of stored liquid in psia

Other records that may be required to comply with the applicable requirements of District Rules 463 and 1178

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

[Devices subject to this condition : D659, D660]

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

Material Stored (Ammonia)

The purchase invoices to determine the truck deliveries of ammonia.

## **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)(1), 12-12-1997]**

[Devices subject to this condition : D311]

K67.11 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 in psia, when the tank is not storing firewater.

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

[Devices subject to this condition : D552, D553]

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

Throughput in barrels per calendar month

Commodity/product stored and time period of its storage

Actual vapor pressure of stored liquid in psia, of each commodity/product stored

Hydrocarbon concentration measurements done in the vapor space above the floating roof of the tank

Other records that may be required to comply with the applicable requirements of District Rules 463, 1149 and 1178, 40CFR60, Subpart Kb, and 40CFR63, Subpart CC

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

[Devices subject to this condition : D630]

## 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:**

K67.13 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

An engine operating log shall be maintained which on a monthly basis shall include manual and automatic operation and shall list all engine operations in each of the following areas:

- A. Emergency use hours of operation
- B. Maintenance and testing hours
- C. Other operating hours(describe the reason for operation)

In addition, each time the engine is started manually, the log shall include the date of operation and the timer reading in hours at the beginning and end of operation. The log shall be kept for a minimum of three calendar years prior to the current year and made available to the District personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year

[RULE 1110.2, 2-1-2008; **RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1470, 6-1-2007]

[Devices subject to this condition : D1617, D1618, D1645, D1646, D1659]

K67.15 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

Hydrocarbon concentration measurements done in the vapor space above the floating roof of the tank

Other records that may be required to comply with the applicable requirements of District Rules 463, 1149 and 1178

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

[Devices subject to this condition : D593, D613, D614, D617, D618, D621]

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

Throughput in barrels per calendar month or per year as required in the throughput condition

Commodity/product stored and time period of its storage

Actual vapor pressure of stored liquid in psia, of each commodity/product stored

Other records that may be required to comply with the applicable requirements of District Rules 463 ,1149 and 1178

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

[Devices subject to this condition : D547, D551]

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

Throughput of stored liquid.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D1533]

## **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:**

K171.2 The operator shall provide to the District the following items:

Final drawings and/or specifications of the geodesic dome cover to be installed/constructed shall be submitted to the District within 30 days after its construction

**[RULE 1178, 4-7-2006]**

[Devices subject to this condition : D651, D658]

K171.3 The operator shall provide to the District the following items:

Final drawings and/or specifications of the internal floating roof to be installed/constructed shall be submitted to the District within 30 days after its construction

**[RULE 1178, 4-7-2006]**

[Devices subject to this condition : D593, D613, D614, D617, D618, D621]