

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

TABLE OF CONTENTS

Section	Description	Revision #	Date Issued
A	Facility Information	DRAFT	06/04/2009
B	RECLAIM Annual Emission Allocation	DRAFT	06/04/2009
C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	DRAFT	06/04/2009
E	Administrative Conditions	DRAFT	06/04/2009
F	RECLAIM Monitoring and Source Testing Requirements	DRAFT	06/04/2009
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	DRAFT	06/04/2009
H	Permit To Construct and Temporary Permit to Operate	DRAFT	06/04/2009
I	Compliance Plans & Schedules	DRAFT	06/04/2009
J	Air Toxics	DRAFT	06/04/2009
K	Title V Administration	DRAFT	06/04/2009
Appendix			
A	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	DRAFT	06/04/2009
B	Rule Emission Limits	DRAFT	06/04/2009

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: TESORO REFINING AND MARKETING CO

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744-2914

MAILING ADDRESS: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744-2914

RESPONSIBLE OFFICIAL: DAVID W REED

TITLE: VICE PRESIDENT, REFINING

TELEPHONE NUMBER: (310) 522-6441

CONTACT PERSON: ROYANN WINCHESTER

TITLE: STAFF ENGINEER

TELEPHONE NUMBER: (310) 522-6125

TITLE V PERMIT ISSUED:

TITLE V PERMIT EXPIRATION DATE:

TITLE V	RECLAIM
YES	NOx: YES SOx: YES CYCLE: 1 ZONE: COASTAL

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

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

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

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

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year		Zone	NOx RTC Initially Allocated	NOx RTC ¹ Holding as of 06/04/09 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
Begin (month/year)	End				
7/2006	6 /2007	Coastal	0	49577	0
1/2007	12/2007	Coastal	750170	0	0
7/2006	6 /2007	Inland	0	21395	0
1/2007	12/2007	Inland	0	0	0
7/2007	6 /2008	Coastal	0	0	0
1/2008	12/2008	Coastal	750170	0	0
7/2007	6 /2008	Inland	0	69424	0
1/2008	12/2008	Inland	0	12498	0
7/2008	6 /2009	Coastal	0	544892	0
1/2009	12/2009	Coastal	750170	447837	0
7/2008	6 /2009	Inland	0	314042	0
7/2009	6 /2010	Coastal	0	318712	0
1/2010	12/2010	Coastal	750170	706011	0
7/2009	6 /2010	Inland	0	13890	0
7/2010	6 /2011	Coastal	0	308331	0
1/2011	12/2011	Coastal	750170	673936	0
7/2010	6 /2011	Inland	0	13438	0

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (f)(1) of Rule 2002.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

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

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

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RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year		Zone	NO _x RTC Initially Allocated	NO _x RTC ¹ Holding as of 06/04/09 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
Begin (month/year)	End				
7/2011	6 /2012	Coastal	0	295626	0
1/2012	12/2012	Coastal	750170	673936	0
7/2011	6 /2012	Inland	0	15310	0
7/2012	6 /2013	Coastal	0	295626	0
1/2013	12/2013	Coastal	750170	673936	0
7/2012	6 /2013	Inland	0	15310	0
7/2013	6 /2014	Coastal	0	295626	0
1/2014	12/2014	Coastal	750170	673936	0
7/2013	6 /2014	Inland	0	15310	0
7/2014	6 /2015	Coastal	0	295626	0
1/2015	12/2015	Coastal	750170	673936	0
7/2014	6 /2015	Inland	0	15310	0
7/2015	6 /2016	Coastal	0	295626	0
1/2016	12/2016	Coastal	750170	673936	0
7/2015	6 /2016	Inland	0	15310	0
7/2016	6 /2017	Coastal	0	295626	0
1/2017	12/2017	Coastal	750170	673936	0

Footnotes:

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

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RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year		Zone	NO _x RTC Initially Allocated	NO _x RTC ¹ Holding as of 06/04/09 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
Begin (month/year)	End				
7/2016	6 /2017	Inland	0	15310	0
7/2017	6 /2018	Coastal	0	295626	0
1/2018	12/2018	Coastal	750170	673936	0
7/2017	6 /2018	Inland	0	15310	0
7/2018	6 /2019	Coastal	0	295626	0
1/2019	12/2019	Coastal	750170	673936	0
7/2018	6 /2019	Inland	0	15310	0
7/2019	6 /2020	Coastal	0	295626	0
1/2020	12/2020	Coastal	750170	673936	0
7/2019	6 /2020	Inland	0	15310	0
7/2020	6 /2021	Coastal	0	295626	0
1/2021	12/2021	Coastal	750170	673936	0
7/2020	6 /2021	Inland	0	15310	0
7/2021	6 /2022	Coastal	0	295626	0
1/2022	12/2022	Coastal	750170	673936	0
7/2021	6 /2022	Inland	0	15310	0
7/2022	6 /2023	Coastal	0	295626	0

Footnotes:

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

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RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year		Zone	NO _x RTC Initially Allocated	NO _x RTC ¹ Holding as of 06/04/09 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
Begin (month/year)	End				
1/2023	12/2023	Coastal	750170	673936	0
7/2022	6 /2023	Inland	0	15310	0
7/2023	6 /2024	Coastal	0	295626	0
1/2024	12/2024	Coastal	750170	673936	0
7/2023	6 /2024	Inland	0	15310	0

Footnotes:

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

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

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

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

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

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year		Zone	SO _x RTC Initially Allocated	SO _x RTC ¹ Holding as of 06/04/09 (pounds)	Non-Tradable ² Credits (NTCs) (pounds)
Begin (month/year)	End				
1/2007	12/2007	Coastal	381905	0	
7/2007	6 /2008	Coastal	0	0	
1/2008	12/2008	Coastal	381905	403	
7/2008	6 /2009	Coastal	0	500953	
1/2009	12/2009	Coastal	381905	271905	
7/2009	6 /2010	Coastal	0	500953	
1/2010	12/2010	Coastal	381905	271805	
7/2010	6 /2011	Coastal	0	500953	
1/2011	12/2011	Coastal	381905	371905	
7/2011	6 /2012	Coastal	0	500953	
1/2012	12/2012	Coastal	381905	371905	
7/2012	6 /2013	Coastal	0	500953	
1/2013	12/2013	Coastal	381905	371905	
7/2013	6 /2014	Coastal	0	500953	
1/2014	12/2014	Coastal	381905	371905	
7/2014	6 /2015	Coastal	0	500953	
1/2015	12/2015	Coastal	381905	371905	

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010 (b). The most recent total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (h)(2) of Rule 2002.

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SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

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

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

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RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

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Begin (month/year)	End				
7/2015	6 /2016	Coastal	0	500953	
1/2016	12/2016	Coastal	381905	371905	
7/2016	6 /2017	Coastal	0	500953	
1/2017	12/2017	Coastal	381905	371905	
7/2017	6 /2018	Coastal	0	500953	
1/2018	12/2018	Coastal	381905	371905	
7/2018	6 /2019	Coastal	0	500953	
1/2019	12/2019	Coastal	381905	371905	
7/2019	6 /2020	Coastal	0	500953	
1/2020	12/2020	Coastal	381905	371905	
7/2020	6 /2021	Coastal	0	500953	
1/2021	12/2021	Coastal	381905	371905	
7/2021	6 /2022	Coastal	0	500953	
1/2022	12/2022	Coastal	381905	371905	
7/2022	6 /2023	Coastal	0	500953	
1/2023	12/2023	Coastal	381905	371905	
7/2023	6 /2024	Coastal	0	500953	

Footnotes:

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

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

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

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year		Zone	SO _x RTC Initially Allocated	SO _x RTC ¹ Holding as of 06/04/09 (pounds)	Non-Tradable ² Credits (NTCs) (pounds)
Begin (month/year)	End				
1/2024	12/2024	Coastal	381905	371905	

Footnotes:

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

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

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

Year		Zone	NOx RTC Starting Allocation (pounds)	Non-Tradable Credits(NTCs) (pounds)
Begin	End			
1/1994	12/1994	Coastal	3077340	248242

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

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Year		Zone	SOx RTC Starting Allocation (pounds)	Non-Tradable Credits(NTCs) (pounds)
Begin	End			
1/1994	12/1994	Coastal	1589708	0

**FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO**

SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : CRUDE DISTILLATION					P13.1
System 1 : CRUDE DISTILLATION UNIT					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				
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				
DRUM, DECOKING QUENCH, V-1389, HEIGHT: 12 FT 6 IN; DIAMETER: 6 FT 6 IN A/N: 469239	D1131				

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : CRUDE DISTILLATION					P13.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469239	D1354			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.5
System 2 : LIGHT ENDS FRACTIONATION					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
System 3 : CRUDE DISTILLATION HEATER					
HEATER, CRUDE, H-1, PROCESS GAS, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 175 MMBTU/HR WITH A/N:	D9	D76 D77 C764	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] ; PM: (9) [RULE 404,2-7-1986]	B61.1, D90.7, D328.1, E54.1, E54.11, 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
Process 1 : CRUDE DISTILLATION					P13.1
BURNER. , REFINERY GAS, WITH LOW NOX BURNER, 175 MMBTU/HR					
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			
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
System 1 : DELAYED COKING UNIT (DCU)					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				

* (1)(1A)(1B) Denotes RECLAIM emission factor (2)(2A)(2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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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
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
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				
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				

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 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
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				H23.16
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				

* (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
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Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
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				
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				

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 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
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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
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
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			PM: (9) [RULE 405,2-7-1986]	
COMPRESSOR, OVERHEAD, C-145 A/N:	D901				H23.4
VESSEL, H-100/101, FUEL GAS, 2 TOTAL A/N:	D904				

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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
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
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				H23.16
HEAT EXCHANGER, PROPANE VAPORIZER E-1465 A/N:	B1616				
COLUMN, DEETHANIZER, FC-113 (V-909), HEIGHT: 98 FT 10 IN; DIAMETER: 8 FT 6 IN A/N:	D19				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1357			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.5
System 2 : DCU HEATERS					
HEATER, H-101, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 218.4 MMBTU/HR WITH A/N: 470266	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: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986]	A63.2, B61.1, D28.3, D90.7, D328.1, E193.5, H23.3

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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
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
BURNER, REFINERY GAS, JOHN ZINK, MODEL PSMR-10, WITH LOW NOX BURNER, 80 TOTAL; 218.4 MMBTU/HR					
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: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986]	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			
System 3 : MEROX TREATING UNIT FOR DCU					S13.4, S15.2, S15.3
VESSEL, CAUSTIC PREWASH, FC-600 (V-881), HEIGHT: 20 FT; DIAMETER: 5 FT 6 IN A/N: 469263	D52				

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
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			HAP: (10) [40CFR 63 Subpart CC, #2,6-23-2003]	
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			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.5

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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
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
System 6 : DCU BLOWDOWN RECOVERY SYSTEM					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			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.5

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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
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
System 7 : DECOKING VENT GAS DISPOSAL					S13.4
DRUM, DCU DECOKING QUENCH, V-938, HEIGHT: 12 FT; DIAMETER: 5 FT A/N: 469266	D76	D9 D33			
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
System 8 : COKE HANDLING, SCREENING AND LOADING					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

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Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
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
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

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Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
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
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

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Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
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
System 9 : COKE HANDLING					S7.2, S13.3
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

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Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
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
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

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
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
System 10 : VACUUM DISTILLATION					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				
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			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.5

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 (3) Denotes RECLAIM concentration limit
 (5)(5A)(5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
 (2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
System 1 : FCCU RECOVERY SECTION					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				
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				

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 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
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				
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			HAP: (10) [40CFR 63 Subpart CC, #2,6-23-2003]	

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 (4) Denotes BACT emission limit
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Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
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				
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				

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
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			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.16
System 2 : FCCU CRACKING SECTION					S13.4, S15.2, S15.3, S15.12
FRACTIONATOR, V-386, WITH PRV TO ATMOSPHERE, HEIGHT: 62 FT; DIAMETER: 16 FT A/N:	D93				
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]	

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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
Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
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
REGENERATOR, V-404, HEIGHT: 42 FT 6 IN; DIAMETER: 42 FT WITH A/N:	D96	C1575 C1576 C1577	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: 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] ; PM: (9) [RULE 404,2- 7-1986;RULE 405,2-7-1986]	A63.7, A99.1, B61.4, D29.1, D82.2, D90.8, H23.32
BLOWER, B-19, COMBUSTION AIR, 4500 HP	D98				

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 (2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
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Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
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				
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				

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 (7) Denotes NSR applicability limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
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
System 3 : FCCU HEATERS					
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: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986]	B61.1, D90.7, D328.2, H23.3
HEATER, H-3, REFINERY GAS, 94.7 MMBTU/HR WITH A/N: 470270	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

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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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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
BURNER, REFINERY GAS, JOHN ZINK, MODEL HEVD-14, WITH LOW NOX BURNER, 52 TOTAL; 94.7 MMBTU/HR					
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

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 (5)(5A)(5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
 (2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
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Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
BOILER, BO-1, CO WASTE HEAT, REFINERY GAS, 300 MMBTU/HR A/N:	D112	S51 C1575 C1576 C1577	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, D90.7, H23.3
STACK, CO BOILER A/N:	S51	D112 C1575 C1576 C1577			
System 4 : FCCU NAPHTHA TREATING					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				
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			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.5

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Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
System 5 : FCCU GAS TREATING					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				
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			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	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
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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
System 8 : FCCU CATALYST ADDITIVE LOADER					
VESSEL, CATALYST, V-2340, GRACE DAVISON, 6 CUFT VOLUME, LENGTH: 2 FT 3 IN; DIAMETER: 2 FT A/N: 469277	D1573			PM: (9) [RULE 404,2-7-1986;RULE 405,2-7-1986]	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
Process 4 : HYDROTREATING					P13.1
System 1 : HYDROTREATING UNIT NO. 1					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				

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 (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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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Process 4 : HYDROTREATING					P13.1
VESSEL, SEPARATOR, HIGH PRESSURE, V-622, HEIGHT: 16 FT 6 IN; DIAMETER: 6 FT WITH A/N: 470275 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				
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				

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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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					P13.1
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			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.16
System 2 : HYDROTREATING UNIT NO. 1 HEATERS					
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**	CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986]	A63.4, B61.1, D90.7, D328.1, H23.3
System 3 : HYDROTREATING UNIT NO. 2					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:	D121				
COLUMN, H2S STRIPPER, V-726, H2S, HEIGHT: 49 FT; DIAMETER: 6 FT A/N:	D130				

* (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
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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
Process 4 : HYDROTREATING					P13.1
ACCUMULATOR, V-727, STRIPPER OVERHEAD, HEIGHT: 12 FT; DIAMETER: 3 FT 6 IN A/N:	D131				
DRUM, INHIBITOR BLENDING, V-729, HEIGHT: 5 FT; DIAMETER: 3 FT 6 IN A/N:	D122				
REACTOR, HYDROTREATER REACTOR NO.2, V-740, HEIGHT: 21 FT 9 IN; DIAMETER: 7 FT 6 IN A/N:	D123				
VESSEL, SEPARATOR, HIGH PRESSURE, V-725, HEIGHT: 20 FT 9 IN; DIAMETER: 6 FT 6 IN A/N:	D129				
DRUM, CHARGE, V-1474, NAPHTHA, HEIGHT: 30 FT; DIAMETER: 12 FT A/N:	D134				
COMPRESSOR, RECIPROCATING, C-72, HYDROTREATER BOOSTER/RECYCLE GAS A/N:	D140				H23.4
SCRUBBER, V-812, SEP GAS, LENGTH: 4 FT 4 IN; DIAMETER: 1 FT 6 IN A/N:	D1187				
DRUM, LIQUID RECEIVER, V-814, LENGTH: 3 FT; DIAMETER: 1 FT A/N:	D1188				

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 (4) Denotes BACT emission limit
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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
Process 4 : HYDROTREATING					P13.1
VESSEL, DEGASSING, V-728, HEIGHT: 7 FT; DIAMETER: 3 FT A/N:	D132				
DRUM, DECOKING QUENCH, V-15 A/N:	D1333	D194 D216 D217			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1447			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.16
System 4 : HYDROTREATING UNIT NO. 2 HEATERS					
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: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986]	A63.4, B61.1, D90.7, D328.1, H23.3
System 5 : HYDROTREATING UNIT NO. 3					S13.4, S15.2, S15.3, S15.13
VESSEL, SEPARATOR, HIGH PRESSURE, V-767, HEIGHT: 71 FT; DIAMETER: 6 FT 6 IN A/N:	D147				
DRUM, V-773, SOUR WATER, LENGTH: 26 FT 6 IN; DIAMETER: 4 FT 6 IN A/N:	D159				
DRUM, SURGE, V-774, CONDENSATE, HEIGHT: 9 FT 6 IN; DIAMETER: 3 FT 6 IN A/N:	D148				

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 (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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					P13.1
REACTOR, V-768/769, 2 TOTAL, HEIGHT: 28 FT; DIAMETER: 7 FT A/N:	D1189				
VESSEL, SEPARATOR, LOW PRESSURE, V-770, HEIGHT: 25 FT 6 IN; DIAMETER: 4 FT 6 IN A/N:	D149				
ACCUMULATOR, V-771, H2S STRIPPER OVERHEAD, LENGTH: 26 FT 6 IN; DIAMETER: 2 FT 6 IN A/N:	D1191				
DRUM, CHARGE, V-1471, DIESEL, HEIGHT: 17 FT 6 IN; DIAMETER: 8 FT 6 IN A/N:	D153				
COLUMN, STRIPPER, V-1475, H2S, HEIGHT: 86 FT 6 IN; DIAMETER: 7 FT A/N:	D155				
COMPRESSOR, C-86, RECYCLE GAS A/N:	D1194				H23.4
COMPRESSOR, C-77, MAKEUP GAS A/N:	D156				H23.4
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1448			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.16

* (1)(1A)(1B) Denotes RECLAIM emission factor
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 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					P13.1
System 6 : HYDROTREATING UNIT NO. 3 HEATERS					
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: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986]	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: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986]	B61.1, D90.7, D328.1, H23.3
System 7 : FCCU FEED HYDRODESULFURIZATION UNIT NO. 4					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:	D1195				
REACTOR, V-1741, HEIGHT: 31 FT 11 IN; DIAMETER: 12 FT 7 IN A/N:	D1326				

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 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
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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
Process 4 : HYDROTREATING					P13.1
COLUMN, H2S STRIPPER, V-1755, HEIGHT: 59 FT 6 IN; DIAMETER: 10 FT 6 IN A/N:	D160				
FRACTIONATOR, V-1757, HEIGHT: 70 FT 6 IN; DIAMETER: 8 FT 6 IN A/N:	D168				
COLUMN, STRIPPER, V-867, HEIGHT: 22 FT 8 IN; DIAMETER: 3 FT 6 IN A/N:	D244				
VESSEL, DRIER, V-1374, LAGO PRODUCT, HEIGHT: 36 FT 6 IN; DIAMETER: 9 FT A/N:	D3				
ABSORBER, AMINE, V-1759, HEIGHT: 49 FT 9 IN; DIAMETER: 2 FT A/N:	D161				
ABSORBER, AMINE, V-1761, HEIGHT: 58 FT; DIAMETER: 4 FT A/N:	D162				
DRUM, SURGE, V-1751, FEED, HEIGHT: 43 FT; DIAMETER: 13 FT 6 IN A/N:	D163				
VESSEL, SEPARATOR, LOW PRESSURE, V-1753, HEIGHT: 30 FT 6 IN; DIAMETER: 8 FT 10 IN A/N:	D165				

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Process 4 : HYDROTREATING					P13.1
DRUM, V-1816, WWS REBOILER CONDENSATE A/N:	D1334				
DRUM, V-1684, OFFGAS DCU CONDITIONER A/N:	D1335				
ACCUMULATOR, V-2161, STRIPPER OVERHEAD A/N:	D106				
ACCUMULATOR, V-1758, FRACTIONATOR OVERHEAD, HEIGHT: 12 FT; DIAMETER: 4 FT 6 IN A/N:	D167			HAP: (10) [40CFR 63 Subpart CC, #2,6-23-2003]	
KNOCK OUT POT, V-1760, AMINE ABSORBER FEED, HEIGHT: 10 FT; DIAMETER: 3 FT A/N:	D169				
KNOCK OUT POT, V-1762, AMINE ABSORBER OVERHEAD, HEIGHT: 10 FT; DIAMETER: 3 FT A/N:	D170				
DRUM, V-1765, WASH WATER, LENGTH: 13 FT 6 IN; DIAMETER: 5 FT 6 IN A/N:	D173				
DRUM, FLASH, V-1766, SOUR WATER, HEIGHT: 17 FT; DIAMETER: 5 FT 6 IN A/N:	D174				

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 (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					P13.1
DRUM, V-1815, WWS CONDENSATE A/N:	D1336				
COMPRESSOR, C-134, RECYCLE GAS, 3000 HP A/N:	D176				H23.4
VESSEL, SEPARATOR, V-2049, HOT HIGH PRESSURE, HEIGHT: 18 FT; DIAMETER: 7 FT 6 IN A/N:	D1112				
DRUM, V-1814, WWS, HEIGHT: 30 FT 9 IN; DIAMETER: 12 FT A/N:	D502				
COLUMN, STRIPPER, V-1813, WASH WATER A/N:	D188				
FILTER, FEED, V-1808/09, 2 TOTAL, HEIGHT: 6 FT 9 IN; DIAMETER: 3 FT 6 IN A/N:	D1566				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1449			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.16
System 8 : FCCU FEED HYDRODESULFURIZATION UNIT NO. 4 HEATERS					
HEATER, H-41, REFINERY GAS, WITH LOW NOX BURNER, 63.2 MMBTU/HR WITH A/N: 469929	D770	C771	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 12 PPMV (4) [RULE 2005,4-20-2001;RULE 2005,5-6-2005] ; PM: (9) [RULE 404,2-7-1986]	A63.4, B61.1, D90.7, D328.1, E54.7, H23.3

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 (5)(5A)(5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
 (2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					P13.1
BURNER, REFINERY GAS, WITH LOW NOX BURNER, 63.2 MMBTU/HR				PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981]	
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			
System 9 : FUEL GAS TREATING SYSTEM					S13.4, S15.2, S18.4
TOWER, V-598, GAS WASH, HEIGHT: 69 FT; DIAMETER: 5 FT A/N:	D192				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1380				H23.16

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					P13.1
System 1 : BENSAT					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				
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

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					P13.1
System 2 : CATALYTIC REFORMING UNIT NO. 1 HEATERS					
HEATER, H-11, PROCESS GAS, WITH LOW NOX BURNER, 81 MMBTU/HR WITH A/N: 469957 BURNER, REFINERY GAS, JOHN ZINK, PSFPG-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, PSFPG-30A AND PSFPG-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

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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					P13.1
System 3 : CATALYTIC REFORMING UNIT NO. 2					S11.2, S13.4, S15.2, S15.3, S31.1
REACTOR, NO. 1, V-735, HEIGHT: 14 FT; DIAMETER: 12 FT 6 IN A/N: 469959	D1197			HAP: (10) [40CFR 63 Subpart UUU, #1,4-20-2006]	
REACTOR, NO. 2, V-736, HEIGHT: 21 FT; DIAMETER: 12 FT 6 IN A/N: 469959	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: 469959	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: 469959	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: 469959	D197				
COLUMN, DEBUTANIZER, V-741, HEIGHT: 75 FT; DIAMETER: 7 FT A/N: 469959	D198				
VESSEL, RECEIVER, V-742, DEBUTANIZER PRODUCT, LENGTH: 20 FT; DIAMETER: 5 FT A/N: 469959	D199				
COLUMN, SPLITTER, V-743, HEIGHT: 72 FT 6 IN; DIAMETER: 8 FT A/N: 469959	D200				

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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					P13.1
VESSEL, RECEIVER, V-744, SPLITTER PRODUCT, LENGTH: 20 FT; DIAMETER: 5 FT A/N: 469959	D201				
DRUM, HALIDE, V-746/747, 2 TOTAL, INJECTION CHEMICAL, HEIGHT: 5 FT; DIAMETER: 1 FT 6 IN A/N: 469959	D203				
STORAGE TANK, FIXED ROOF, PERCHLOROETHYLENE, 300 GALS; WIDTH: 4 FT; HEIGHT: 3 FT 6 IN; LENGTH: 3 FT 6 IN A/N: 469959	D1120				C1.2, D90.19
DRUM, SURGE, V-2071, FEED PREP, HEAVY NAPHTHA, HEIGHT: 15 FT; DIAMETER: 6 FT A/N: 469959	D1203				
TOWER, FEED PREP, V-732, HEIGHT: 87 FT; DIAMETER: 13 FT A/N:	D1204				
TOWER, SIDE SPLITTER, V-733, HEIGHT: 29 FT; DIAMETER: 6 FT A/N: 469959	D1205				
POT, V-1992, SPLITTER REBOILER CONDENSATE, HEIGHT: 6 FT; DIAMETER: 3 FT A/N: 469959	D1206				

* (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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					P13.1
DRUM, V-2005, SPLITTER WATER DRAW, HEIGHT: 5 FT; DIAMETER: 1 FT 6 IN A/N: 469959	D1207				
COMPRESSOR, C-73, RECYCLE GAS, CENTRIFUGAL, (VH-504) A/N:	D209				
ACCUMULATOR, V-734, FEED PREP OVERHEAD, HEIGHT: 37 FT; DIAMETER: 7 FT A/N: 469959	D210				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469959	D1451			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.5
System 4 : CATALYTIC REFORMING UNIT NO. 2 HEATERS					
HEATER, H-510, REFINERY GAS, WITH LOW NOX BURNER, 60 MMBTU/HR WITH A/N: 469960	D218		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] ; PM: (9) [RULE 404,2-7-1986]	A63.4, B61.1, D90.7, D328.1, H23.3
BURNER, 6 BURNERS, REFINERY GAS, WITH LOW NOX BURNER, 60 MMBTU/HR					

* (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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					P13.1
HEATER, H-501A, PROCESS GAS, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 31.4 MMBTU/HR WITH A/N: BURNER, 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, E54.2, E54.12, H23.3
HEATER, H-501B, PROCESS GAS, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 31.4 MMBTU/HR WITH A/N: BURNER, 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, E54.2, E54.12, H23.3
HEATER, H-502, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 55.8 MMBTU/HR WITH A/N: 469962	D214	C773 S990	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] ; PM: (9) [RULE 404,2-7-1986]	A63.4, B61.1, D90.7, D328.1, E54.2, E54.12, 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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					P13.1
BURNER, REFINERY GAS, WITH LOW NOX BURNER, 55.8 MMBTU/HR					
HEATER, H-503/504, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 36.1 MMBTU/HR WITH A/N: 469964	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, E54.2, E54.12, H23.3
BURNER, REFINERY GAS, WITH LOW NOX BURNER, 36.1 MMBTU/HR					
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			

* (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

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
Process 5 : CATALYTIC REFORMING					P13.1
System 5 : CATALYTIC REFORMING UNIT NO. 3					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]	
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				

* (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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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					P13.1
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				
VESSEL, DEPENTANIZER COLUMN RECEIVER, V-868, LENGTH: 20 FT; DIAMETER: 8 FT A/N: 470287	D227				
STORAGE TANK, FIXED ROOF, 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]	H23.16

* (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
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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
Process 5 : CATALYTIC REFORMING					P13.1
System 6 : CATALYTIC REFORMING UNIT NO. 3 HEATERS					
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: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986]	B61.1, D90.7, D328.1, E54.6, E54.16, H23.3
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: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986]	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	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

* (1)(1A)(1B) Denotes RECLAIM emission factor (2)(2A)(2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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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
Process 5 : CATALYTIC REFORMING					P13.1
BURNER, REFINERY GAS, MCGILL, MODEL PSRGR-7, WITH LOW NOX BURNER, 28.5 MMBTU/HR					
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			
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

* (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

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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
Process 5 : CATALYTIC REFORMING					P13.1
HEATER, H-204, REFINERY GAS, 69 MMBTU/HR WITH A/N: 469987	D251		NOX: LARGE 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, C1.15, D90.7, D328.1, H23.3
BURNER, REFINERY GAS, JOHN ZINK, MODEL SMR-20, 4 TOTAL, WITH LOW NOX BURNER, 69 MMBTU/HR					
Process 6 : HYDROGEN GENERATION					P13.1
System 1 : HYDROGEN GENERATION UNIT NO. 1					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				
COLUMN, WASHING/STRIPPING, V-1042, HEIGHT: 68 FT; DIAMETER: 7 FT 6 IN A/N: 470288	D276				
COMPRESSOR, C-82 A/N: 470288	D922				
COMPRESSOR, C-83, DCU OFF GAS A/N: 470288	D923				

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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 6 : HYDROGEN GENERATION					P13.1
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				
System 3 : HYDROGEN GENERATION UNIT NO. 2					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				
REACTOR, ZINC OXIDE, V-1784/1785, 2 TOTAL A/N: 469989	D321				
REACTOR, HIGH TEMP/SHIFT, V-1786 A/N: 469989	D323				

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

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Process 6 : HYDROGEN GENERATION					P13.1
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

* (1)(1A)(1B) Denotes RECLAIM emission factor
 (2)(2A)(2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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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
Process 6 : HYDROGEN GENERATION					P13.1
System 4 : HYDROGEN GENERATION UNIT NO. 2 HEATERS					
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 2005,4-20-2001;RULE 2005,5-6-2005] ; NOX: 0.1 LBS/MMBTU (8) [40CFR 60 Subpart Db,11-16-2006] PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986]	B61.1, D90.7, D90.16, E54.8, H23.29
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.)
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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
Process 6 : HYDROGEN GENERATION					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: 12 PPMV (4) [RULE 2005,4-20-2001;RULE 2005,5-6-2005] ; NOX: 0.1 LBS/MMBTU (8) [40CFR 60 Subpart Db,11-16-2006] 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			
Process 8 : HYDROCRACKING					P13.1
System 1 : HYDROCRACKING UNIT					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				

* (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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : HYDROCRACKING					P13.1
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				
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				

* (1)(1A)(1B) Denotes RECLAIM emission factor
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 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
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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
Process 8 : HYDROCRACKING					P13.1
ACCUMULATOR, V-1005, FRACTIONATOR OVERHEAD, LENGTH: 18 FT; DIAMETER: 7 FT A/N:	D346			HAP: (10) [40CFR 63 Subpart CC, #2,6-23-2003]	
ABSORBER, V-1006, LEAN OIL, HEIGHT: 50 FT; DIAMETER: 3 FT A/N:	D374				
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				

* (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
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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
Process 8 : HYDROCRACKING					P13.1
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				
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				

* (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
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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
Process 8 : HYDROCRACKING					P13.1
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				
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				

* (1)(1A)(1B) Denotes RECLAIM emission factor
 (2)(2A)(2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : HYDROCRACKING					P13.1
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				
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			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.5

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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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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : HYDROCRACKING					P13.1
System 2 : HYDROCRACKING HEATERS					
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**	CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986]	B61.1, D90.7, D328.1, E54.5, E54.15, H23.3
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	C784	D384 D385 S994		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT,5-10-1996]	D12.1, D28.4, E71.7

* (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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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : HYDROCRACKING					P13.1
INJECTOR, AMMONIA, WITH AMMONIA INJECTION					
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: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986]	B61.1, D90.7, D328.1, E54.4, E54.14, H23.3
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: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986]	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	C786	D386 D387 S692		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT,5-10-1996]	D12.1, D28.4, D29.3, E71.7

* (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
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Process 8 : HYDROCRACKING					P13.1
INJECTOR, AMMONIA, WITH AMMONIA INJECTION					
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: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986]	B61.1, D90.7, D328.1, E54.3, E54.13, H23.3
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			

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 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (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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Process 9 : ALKYLATION					P13.1
System 1 : ALKYLATION UNIT					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				
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				

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Process 9 : ALKYLATION					P13.1
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				
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				

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Process 9 : ALKYLATION					P13.1
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				
ACCUMULATOR, V-1428, DEPROPANIZER OVERHEAD, LENGTH: 15 FT; DIAMETER: 6 FT A/N: 470290	D411				

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 (4) Denotes BACT emission limit
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 (6) Denotes air toxic control rule limit
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Process 9 : ALKYLATION					P13.1
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				

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 (6) Denotes air toxic control rule limit
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Process 9 : ALKYLATION					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				

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Process 9 : ALKYLATION					P13.1
ACCUMULATOR, V-1444, ALKY DEBUTANIZER OVERHEAD, LENGTH: 15 FT; DIAMETER: 4 FT 6 IN A/N: 470290	D425				
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				

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Process 9 : ALKYLATION					P13.1
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
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			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.16

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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Process 9 : ALKYLATION					P13.1
System 2 : MIXED BUTANE TREATING UNIT					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				
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			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.16

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Process 9 : ALKYLATION					P13.1
System 3 : ALKYLATION FEED TREATMENT UNIT					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		HAP: (10) [40CFR 63 Subpart CC, #1,6-23-2003]	
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
Process 11 : IN-LINE GASOLINE BLENDING					P13.1
System 1 : IN-LINE GASOLINE BLENDING UNIT					
TANK, TK-95, CORROSION INHIBITOR, WITH NITROGEN BLANKET, 4000 GALS; DIAMETER: 6 FT 4 IN; HEIGHT: 17 FT 3 IN A/N: 470004	D453				

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Process 11 : IN-LINE GASOLINE BLENDING					P13.1
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
Process 12 : TREATING /STRIPPING					P13.1
System 1 : HCOD TREATING UNIT					S13.2, S13.5
TANK, HOLDING, TK-7001, COKER BLOWDOWN, HEIGHT: 32 FT; DIAMETER: 40 FT A/N:	D466			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	H23.40

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 12 : TREATING /STRIPPING					P13.1
OIL WATER SEPARATOR, V-1743, COKER SLOP WATER CPI, 300 GPM A/N:	D460			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	H23.40
OIL WATER SEPARATOR, V-1768, SLOP WATER CPI, 300 GPM A/N:	D461			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	H23.40
FLOATATION UNIT, V-1168, IGFU SOUTH, 700 GPM CAPACITY A/N:	D458			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	H23.40
FLOATATION UNIT, V-1166, IGFU NORTH, 300 GPM CAPACITY A/N:	D459			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	H23.40

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Process 12 : TREATING /STRIPPING					P13.1
AIR FLOATATION UNIT, DISSOLVED AIR FLOATATION (DAF), TK-158, EFFLUENT WATER DAF, HEIGHT: 11 FT 4 IN; DIAMETER: 45 FT A/N:	D463	C472 C473		BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003] VOC: 500 PPMV (5) [RULE 1176,9-13-1996]	H23.40
TANK, SURGE, TK-159A, DAF EFFLUENT, HEIGHT: 10 FT; DIAMETER: 16 FT A/N:	D464	C472 C473		BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003] VOC: 500 PPMV (5) [RULE 1176,9-13-1996]	H23.40
TANK, TK-149, CPI OIL SLUDGE, HEIGHT: 9 FT; DIAMETER: 9 FT A/N:	D462			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40

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 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (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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Process 12 : TREATING /STRIPPING					P13.1
TANK, FLOCCULATION, TK-267, HEIGHT: 14 FT; DIAMETER: 12 FT A/N:	D465	C472 C473		BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003] VOC: 500 PPMV (5) [RULE 1176,9-13-1996]	H23.40
TANK, COLLECTION, TK-148, OILY SLUDGE, 100 BBL A/N:	D467			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40
TANK, NO. 47, DAF FLOAT, 2000 GALS; DIAMETER: 6 FT 4 IN; HEIGHT: 8 FT 8 IN A/N:	D471	C472 C473		BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003] VOC: 500 PPMV (5) [RULE 1176,9-13-1996]	H23.40

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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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Process 12 : TREATING /STRIPPING					P13.1
VESEL, V-1748, DAF AIR PRESSURIZATION, WITH NITROGEN BLANKET A/N:	D1304			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	H23.40
ADSORBER, SP-2C/D, ACTIVATED CARBON, CONNECTED IN SERIES, EACH 55-GALLON DRUM A/N:	C472	D463 D464 D465 D471		BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 50 PPMV (8A) [CONSENT DECREE,3-21-2001] VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	D90.4, E153.1, H23.40
ADSORBER, SP-2E/F, ACTIVATED CARBON (SPARE), CONNECTED IN SERIES, EACH 55-GALLON DRUM A/N:	C473	D463 D464 D465 D471		BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 50 PPMV (8A) [CONSENT DECREE,3-21-2001] VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	D90.4, E153.1, H23.40

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Process 12 : TREATING /STRIPPING					P13.1
TANK, COLLECTION, TK-6002/6003, SLUDGE, 2 TOTAL, 6000 BBL A/N:	D469			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 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:	D709			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	H23.40
OIL WATER SEPARATOR, V-1745, FILTRATE CPI, 150 GPM A/N:	D703			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003] ; VOC: 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			HAP: (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			HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003]	E336.2

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Process 12 : TREATING /STRIPPING					P13.1
SUMP, UNDERGROUND, FIXED COVER, PUMP STATION, TK-125C, WATER DRAW COLLECTION, 3000 BBL A/N: 470008	D809			HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003]	E336.2
TANK, VTK-01, IGFU POLYMER, WITH NITROGEN BLANKET, 2100 GALS A/N:	D1305				
TANK, VTK-02, PEROXIDE, WITH NITROGEN BLANKET, 7000 GALS A/N:	D1306				
TANK, VTK-03, DAF POLYMER, WITH NITROGEN BLANKET, 2100 GALS A/N:	D1307				
TANK, V-56X-MKT, HYDROGEN PEROXIDE, WITH NITROGEN BLANKET, 7000 GALS A/N:	D1308				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1459				H23.5
DRAIN SYSTEM COMPONENT A/N:	D1495			HAP: (10) [40CFR 63 Subpart CC, #4,6-23-2003]	H23.17

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Process 12 : TREATING /STRIPPING					P13.1
System 2 : LCOD TREATING UNIT					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			HAP: (10) [40CFR 63 Subpart CC, #2,6-23-2003]	B22.1, C1.25, D90.18, D90.19, H23.25
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	D688			HAP: (10) [40CFR 63 Subpart CC, #2,6-23-2003]	C1.24, D90.19, E71.1, H23.25

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 12 : TREATING /STRIPPING					P13.1
PRIMARY SEAL, CATEGORY A, WIPER TYPE					
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
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]	

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Process 12 : TREATING /STRIPPING					P13.1
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
System 3 : OIL/WATER SEPARATOR NO. 7					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

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Process 12 : TREATING /STRIPPING					P13.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470014	D1399				H23.5
System 4 : OIL/WATER SEPARATOR NO. 8					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
System 8 : FUEL GAS TREATING SYSTEM					S13.4, S15.2, S18.4
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				

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Process 12 : TREATING /STRIPPING					P13.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470016	D1561				H23.5
Process 14 : LOADING AND UNLOADING					
System 1 : INORGANIC CHEMICAL LOADING AND UNLOADING					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
System 2 : TWO-POSITION PROPANE TRUCK LOADING					S15.8
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				

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Process 14 : LOADING AND UNLOADING					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470018	D1465				H23.5
System 3 : TWO-POSITION BUTANE LOADING/UNLOADING					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
System 4 : BUTANE TANK CAR LOADING/UNLOADING SYSTEM					S1.1, S15.6
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				

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Process 14 : LOADING AND UNLOADING					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470020	D1467				H23.5
System 5 : LPG/SPENT CAUSTIC LOADING/UNLOADING SYSTEM					
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
System 9 : ONE-POSITION DIESEL LOADING					
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

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 (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
System 1 : FIXED ROOF STORAGE TANKS					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: 470026	D524			VOC: 500 PPMV (8) [40CFR 60 Subpart Kb,10-15-2003]	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
STORAGE TANK, FIXED ROOF, NO. 2515, 2551 BBL; DIAMETER: 40 FT; HEIGHT: 12 FT A/N: 470035	D531				E336.2, K67.2

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 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (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

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Process 15 : STORAGE TANKS					P13.1
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, 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			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 7501, WASTEWATER SLUDGE, WITH A MIXER, 7423 BBL; DIAMETER: 34 FT 8 IN; HEIGHT: 30 FT 3 IN A/N: 470040	D546			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	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: 470041	D547				B22.4, C1.7, D90.18, D90.19, E336.2
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

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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
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
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: 470049	D551				B22.4, C1.7, D90.18, D90.19, E336.2
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
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

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 (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
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Process 15 : STORAGE TANKS					P13.1
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
STORAGE TANK, FIXED ROOF, NO. 13510, BRINE WATER, 13500 BBL; DIAMETER: 52 FT 9 IN; HEIGHT: 35 FT 6 IN A/N:	D562			VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.33, H23.40, K67.2

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 (4) Denotes BACT emission limit
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Process 15 : STORAGE TANKS					P13.1
STORAGE TANK, FIXED ROOF, NO. 13511, 13475 BBL; DIAMETER: 52 FT 2 IN; HEIGHT: 35 FT 1 IN A/N:	D563			VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.33, 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			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 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			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 13525, 13425 BBL; DIAMETER: 52 FT 3 IN; HEIGHT: 35 FT A/N: 470076	D569				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 13528, 13239 BBL; DIAMETER: 52 FT; HEIGHT: 35 FT A/N: 470077	D571			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, K67.2

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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Process 15 : STORAGE TANKS					P13.1
STORAGE TANK, FIXED ROOF, NO. 13529, 13500 BBL; DIAMETER: 52 FT 4 IN; HEIGHT: 35 FT A/N: 470078	D572			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 13530, 13225 BBL; DIAMETER: 52 FT; HEIGHT: 35 FT A/N: 470081	D573			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 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			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 25015, 25000 BBL; DIAMETER: 71 FT 10 IN; HEIGHT: 35 FT 1 IN A/N: 470083	D576			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 25017, 25753 BBL; DIAMETER: 71 FT 1 IN; HEIGHT: 71 FT A/N: 470084	D577			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40, K67.2

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
STORAGE TANK, FIXED ROOF, NO. 25018, 25340 BBL; DIAMETER: 71 FT 1 IN; HEIGHT: 35 FT 1 IN A/N: 470085	D578			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 25019, 25000 BBL; DIAMETER: 71 FT; HEIGHT: 35 FT A/N: 470086	D579			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 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			HAP: (10) [40CFR 63 Subpart CC, #2,6-23-2003]	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			HAP: (10) [40CFR 63 Subpart CC, #2,6-23-2003]	B22.1, D90.18, K67.2
STORAGE TANK, FIXED ROOF, NO. 80035, 80000 BBL; DIAMETER: 117 FT; HEIGHT: 41 FT A/N: 470289	D584				E336.2, K67.2

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 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
STORAGE TANK, FIXED ROOF, NO. 80036, 80000 BBL; DIAMETER: 117 FT; HEIGHT: 41 FT A/N: 470289	D585				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			HAP: (10) [40CFR 63 Subpart CC, #2,6-23-2003]	B22.1, D90.18, K67.2
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

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Process 15 : STORAGE TANKS					P13.1
STORAGE TANK, FIXED ROOF, NO. 80045, WITH A MIXER, 80000 BBL; DIAMETER: 117 FT; HEIGHT: 42 FT A/N: 470097	D593				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
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

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Process 15 : STORAGE TANKS					P13.1
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				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
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			HAP: (10) [40CFR 63 Subpart CC, #2,6-23-2003]	B22.1, D90.18, K67.2

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
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				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			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	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			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	B22.9, C1.4, D90.18, E336.2, H23.40
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. 80069, 79836 BBL; DIAMETER: 117 FT; HEIGHT: 41 FT 10 IN A/N: 470114	D611			BENZENE: (10); VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	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
Process 15 : STORAGE TANKS					P13.1
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. 80071, 79774 BBL; DIAMETER: 117 FT; HEIGHT: 41 FT 9 IN A/N: 470116	D613				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80072, 79965 BBL; DIAMETER: 117 FT; HEIGHT: 41 FT 10 IN A/N: 470117	D614				E336.2, 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				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				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80075, 79812 BBL; DIAMETER: 117 FT; HEIGHT: 41 FT 10 IN A/N: 470120	D617				E336.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 80077, 79973 BBL; DIAMETER: 117 FT; HEIGHT: 41 FT 9 IN A/N: 470122	D619				E336.2, K67.2

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 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
STORAGE TANK, FIXED ROOF, NO. 80078, WITH INTERNAL HEATING COILS, 79864 BBL; DIAMETER: 117 FT; HEIGHT: 41 FT 10 IN A/N: 470123	D620				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			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	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			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40, K67.2

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 (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
Process 15 : STORAGE TANKS					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			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 80085, WITH A MIXER AND INTERNAL HEATING COILS, 80175 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 9 IN A/N: 470130	D627			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 80087, WITH INTERNAL HEATING COILS AND A MIXER, 80175 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 10 IN A/N: 470131	D628			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.40, K67.2
STORAGE TANK, FIXED ROOF, NO. 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			HAP: (10) [40CFR 63 Subpart CC, #2,6-23-2003]	K67.2
STORAGE TANK, FIXED ROOF, NO. 80091, 80000 BBL; DIAMETER: 117 FT; HEIGHT: 41 FT A/N: 470289	D631				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
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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
STORAGE TANK, FIXED ROOF, NO. 80219, 80131 BBL; DIAMETER: 117 FT 1 IN; HEIGHT: 41 FT 9 IN A/N: 470136	D633			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E336.2, H23.10, H23.40, K67.2
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			VOC: 500 PPMV (8) [40CFR 60 Subpart Kb,10-15-2003]	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

* (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
Process 15 : STORAGE TANKS					P13.1
STORAGE TANK, FIXED ROOF, NO. 20426, WITH OIL SKIMMER, HEIGHT: 40 FT; DIAMETER: 60 FT A/N: 470145	D639			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	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				B22.8, C1.40, D90.18, E336.2, H23.1, K67.8
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				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

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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
Process 15 : STORAGE TANKS					P13.1
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				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				B22.1, D90.18, K67.2
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				B22.1, D90.18, K67.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470149	D1470				H23.5
System 2 : EXTERNAL FLOATING ROOF STORAGE TANKS					S13.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 76000, WITH A MIXER, 76000 BBL; DIAMETER: 115 FT; HEIGHT: 41 FT WITH A/N: 470150	D647			HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003]	B22.1, D90.18, K67.2

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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
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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
FLOATING ROOF, PONTOON, RIVETED SHELL PRIMARY SEAL					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470150	D1471				H23.5
System 3 : PRESSURIZED STORAGE TANKS					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				
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				

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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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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
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				
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				

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 (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
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				
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				

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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

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Process 15 : STORAGE TANKS					P13.1
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				
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				

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 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
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				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470207	D1472				H23.5
System 4 : FRESH/SPENT H2SO4 STORAGE TANKS					S15.7
STORAGE TANK, FIXED ROOF, NO. 4010, 4000 BBL; DIAMETER: 36 FT; HEIGHT: 22 FT A/N: 470211	D527	C1638 C1639			
STORAGE TANK, FIXED ROOF, NO. 4011, 4000 BBL; DIAMETER: 36 FT; HEIGHT: 22 FT A/N: 470212	D528	C1638 C1639			
System 5 : DOMED EXTERNAL FLOATING ROOF STORAGE TANKS					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	D648			HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003]	C1.33, D90.19, H23.1, H23.31, 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
Process 15 : STORAGE TANKS					P13.1
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					
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	D650			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	H23.40, K67.2

* (1)(1A)(1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5)(5A)(5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
 (2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See Section J for NESHAP/MACT requirements
 ** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
SECONDARY SEAL, CATEGORY A, WIPER TYPE GUIDEPOLE, GASKETED COVER, UNSLOTTED					
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			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	C1.31, 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
Process 15 : STORAGE TANKS					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			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	C1.35, H23.40, K67.2
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	D656			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	H23.40, K67.2

* (1)(1A)(1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5)(5A)(5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
 (2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See Section J for NESHAP/MACT requirements
 ** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
PRIMARY SEAL, CATEGORY A, METALLIC SHOE SECONDARY SEAL, CATEGORY A, WIPER TYPE GUIDEPOLE, GASKETED COVER, UNSLOTTED					
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 125002, ALKYLATE, WITH TWO MIXERS, 125000 BBL; DIAMETER: 150 FT; HEIGHT: 40 FT WITH A/N: FLOATING ROOF, PONTOON, WELDED SHELL PRIMARY SEAL, CATEGORY A, METALLIC SHOE SECONDARY SEAL, CATEGORY A, WIPER TYPE	D659			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	C1.32, H23.1
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 125004, ALKYLATE, 125000 BBL; DIAMETER: 134 FT; HEIGHT: 50 FT WITH A/N: 470219	D1078			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	B22.8, C1.32, D90.18, H23.1, 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
Process 15 : STORAGE TANKS					P13.1
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					
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 80210, WITH A MIXER, 80000 BBL; DIAMETER: 120 FT; HEIGHT: 60 FT WITH A/N: 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]	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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 125003, MTBE, WITH TWO MIXERS, 125000 BBL; DIAMETER: 150 FT; HEIGHT: 40 FT WITH A/N: FLOATING ROOF, PONTOON, WELDED SHELL PRIMARY SEAL, CATEGORY A, METALLIC SHOE SECONDARY SEAL, CATEGORY A, WIPER TYPE	D660			HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003]	H23.40, K67.2
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	D654			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	B22.8, C1.18, D90.18, 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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
SECONDARY SEAL, CATEGORY A, WIPER TYPE GUIDEPOLE, GASKETED COVER, UNSLOTTED					
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			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	C1.32, H23.40, 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
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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					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			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	H23.40, K67.2, K171.2
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	D658			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	C1.33, H23.40, 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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
FLOATING ROOF, PONTOON, WELDED SHELL PRIMARY SEAL, CATEGORY A, METALLIC SHOE SECONDARY SEAL, CATEGORY A, WIPER TYPE GUIDEPOLE, GASKETED COVER, UNSLOTTED					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1362				H23.5
System 7 : INTERNAL FLOATING ROOF TANKS					S13.7
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 80068, WITH A MIXER AND INTERNAL HEATING COILS, 76800 BBL; DIAMETER: 117 FT; HEIGHT: 44 FT WITH A/N: 476396 FLOATING ROOF, PONTOON, WELDED SHELL PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D610			HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003]	B59.4, C1.42, C6.4, H23.1, K67.12

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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
SECONDARY SEAL, CATEGORY A, MULTIPLE WIPERS, RIM MOUNTED					
STORAGE TANK, FIXED 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				B59.5, C1.47, C6.4, K67.15, K171.3
STORAGE TANK, FIXED 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	D621				B59.5, C1.47, C6.4, 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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
SECONDARY SEAL, CATEGORY A, MULTIPLE WIPERS, RIM MOUNTED					
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:	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.)
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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 17 : ELECTRIC GENERATION					
System 1 : EMERGENCY INTERNAL COMBUSTION ENGINES					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, VOLVO-PENTA, MODEL TD61, PORTABLE, 146 HP A/N: 470224	D713		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, C177.1, D12.2, D135.1, K67.1
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, DIESEL FUEL, DETROIT, MODEL RO40300, 4 CYLINDERS, FOUR CYCLE, NATURALLY ASPIRATED, 99 HP A/N: 470227	D719		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]	B61.6, C1.43, C1.44, C1.45, D12.13, H23.36, K67.13
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

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 17 : ELECTRIC GENERATION					
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 2011,5-6-2005] ; 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
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

* (1)(1A)(1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5)(5A)(5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
 (2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See Section J for NESHAP/MACT requirements
 ** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 17 : ELECTRIC GENERATION					
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
 (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
Process 17 : ELECTRIC GENERATION					
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]	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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 17 : ELECTRIC GENERATION					
				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]	
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]	B61.6, C1.43, C1.44, C1.45, D12.13, H23.36, I296.1, 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
Process 17 : ELECTRIC GENERATION					
				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]	
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); NOX: 469 LBS/1000 GAL DIESEL (1); NOX + ROG: 4.9 GRAM/BHP-HR DIESEL (4); PM: (9); PM10: 0.15 GRAM/BHP-HR DIESEL (4) SOX: 6.24 LBS/1000 GAL DIESEL (1)	B61.6, C1.43, C1.44, C1.45, D12.13, H23.36, K67.13
System 2 : COGENERATION UNIT A					
TURBINE, A, NATURAL GAS, REFINERY GAS, UNITED TECHNOLOGIES, MODEL FT4, WITH WATER INJECTION, 392 MMBTU/HR WITH A/N: 470302 GENERATOR, ELECTRIC, 30 MW	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: 11 LBS/HR (5A) [RULE 475,10-8-1976 RULE 475,8-7-1978] ; PM: 0.01 GRAINS/SCF (5) [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, E51.2, 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
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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 17 : ELECTRIC GENERATION					
BOILER, WASTE HEAT RECOVERY, UNFIRED INJECTOR, WATER INJECTION MIST ELIMINATOR, DOLLINGER, OE-158-300					
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				
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 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

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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 17 : ELECTRIC GENERATION					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470302	D1415				H23.5
System 3 : COGENERATION UNIT 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: 11 LBS/HR (5A) [RULE 475,10-8-1976 RULE 475,8-7-1978] ; PM: 0.01 GRAINS/SCF (5) [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, E51.4, E71.4, H23.18
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			

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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 17 : ELECTRIC GENERATION					
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 A/N: 470305 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
Process 18 : STEAM GENERATION					
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

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 18 : STEAM GENERATION					
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, D90.18, 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

* (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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 19 : MISCELLANEOUS					
System 1 : FUEL STORAGE & DISPENSING					S13.8
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
System 2 : FUEL STORAGE & DISPENSING					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
System 3 : FUEL GAS MIX SYSTEM					S13.4, S15.2
DRUM, V-536, SOUTH FUEL GAS MIX, LENGTH: 40 FT; DIAMETER: 10 FT A/N: 470245	D888				

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 19 : MISCELLANEOUS					
DRUM, V-1222, NORTH FUEL GAS MIX, LENGTH: 33 FT; DIAMETER: 12 FT A/N: 470245	D889				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470245	D1556				H23.5
System 4 : SUMPS					S13.5
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:	D1095	C1096		BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (5) [RULE 1176,9-13-1996] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	E71.10, H23.40, K67.2
ADSORBER, (AND STANDBY), 2 TOTAL, EACH CONTAINING 80 LBS OF ACTIVATED CARBON A/N:	C1096	D1095		BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003] ; VOC: 50 PPMV (8A) [CONSENT DECREE,3-21-2001]	D90.4, E153.1, H23.40
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1572				

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 19 : MISCELLANEOUS					
System 5 : AMMONIA STORAGE					
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
Process 21 : AIR POLLUTION CONTROL					
System 1 : REFINERY FLARE					
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				

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 21 : AIR POLLUTION CONTROL					
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				
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				

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 21 : AIR POLLUTION CONTROL					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1419				H23.5
System 2 : FUME SCRUBBERS					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				
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	D527 D528			
DRUM, ACID WASH WATER, V-250, HEIGHT: 8 FT; DIAMETER: 2 FT 6 IN A/N: 470257	C1639	D527 D528			
System 3 : REFINERY VAPOR RECOVERY COMPRESSORS SYSTEM					S13.4, S15.11, S18.1
COMPRESSOR, C-68, INGERSOLL-RAND, TWO-STAGE, 350 H.P. A/N: 476520	D641				

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 21 : AIR POLLUTION CONTROL					
COMPRESSOR, C-69, INGERSOLL-RAND, TWO-STAGE, 350 H.P. A/N: 476520	D642				H23.4
COMPRESSOR, C-104, WORTHINGTON, TWO-STAGE, 900 H.P. A/N: 476520	D643				
COMPRESSOR, C-105, WORTHINGTON, TWO-STAGE, 900 H.P, SPARE FOR C-104 A/N: 476520	D644				
DRUM, CONDENSATE ACCUMULATOR, V-305, LENGTH: 12 FT; DIAMETER: 3 FT A/N: 476520	D1303				
POT, V-556, CONDENSATE POT #4, HEIGHT: 6 FT; DIAMETER: 3 FT A/N: 476520	D886				
DRUM, SUCTION, V-1135, LENGTH: 22 FT 6 IN; DIAMETER: 9 FT A/N: 476520	D887				
DRUM, DEA SKIM, V-1490, LENGTH: 30 FT; DIAMETER: 12 FT A/N: 476520	D1615				
DRUM, DEA SKIM, V-1139, SPARE, LENGTH: 26 FT; DIAMETER: 8 FT A/N: 476520	D1316				
POT, V-1865, CONDENSATE POT #1, HEIGHT: 8 FT; DIAMETER: 4 FT A/N: 476520	D890				

* (1)(1A)(1B) Denotes RECLAIM emission factor
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 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 21 : AIR POLLUTION CONTROL					
POT, V-1866, CONDENSATE POT #2, HEIGHT: 8 FT; DIAMETER: 4 FT A/N: 476520	D891				
POT, V-1867, CONDENSATE POT #3, HEIGHT: 8 FT; DIAMETER: 4 FT A/N: 476520	D892				
POT, V-1868, CONDENSATE POT #5, HEIGHT: 8 FT; DIAMETER: 4 FT A/N: 476520	D893				
POT, V-1871, CONDENSATE POT #6, HEIGHT: 8 FT; DIAMETER: 4 FT A/N: 476520	D894				
POT, V-1872, CONDENSATE POT #7, HEIGHT: 8 FT; DIAMETER: 4 FT A/N: 476520	D895				
POT, V-1873, CONSENSATE POT #8, HEIGHT: 8 FT; DIAMETER: 4 FT A/N: 476520	D896				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 476520	D1477				H23.5
Process 22 : R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS	E1487				H23.12
RULE 219 EXEMPT EQUIPMENT, REFRIGERATION UNITS	E1488				H23.12

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 (5)(5A)(5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
 (10) See Section J for NESHAP/MACT requirements

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 22 : R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, COOLING TOWERS	E1489				H23.13
RULE 219 EXEMPT EQUIPMENT, LAMINATING EQUIPMENT, LOW USE OR EMISSIONS	E1491			VOC: (9) [RULE 1168,10-3-2003;RULE 1168,1-7-2005;RULE 1171,11-7-2003;RULE 1171,2-4-2008]	H23.27
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E1492			VOC: (9) [RULE 1171,11-7-2003;RULE 1171,2-4-2008]	H23.14
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E1493			VOC: (9) [RULE 1113,11-8-1996;RULE 1113,7-4-2007;RULE 1171,11-7-2003;RULE 1171,2-4-2008]	K67.4
RULE 219 EXEMPT EQUIPMENT, FIRE EXTINGUISHING EQUIPMENT USING HALONS	E1494				H23.15
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E1499			VOC: (9) [RULE 1107,1-6-2006;RULE 1171,11-7-2003;RULE 1171,2-4-2008]	H23.27

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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 23 : ISOMERIZATION					
System 1 : BUTANE ISOMERIZATION					S13.2, S15.5, S31.1
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 (2)(2A)(2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 23 : ISOMERIZATION					
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 TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D3	35	4	7
D4	1	1	1
D5	2	1	2
D6	2	1	2
D7	2	1	2
D8	2	1	2
D9	2	1	3
D10	3	2	1
D11	4	2	1
D12	17	2	10
D13	17	2	10
D14	17	2	10
D15	4	2	1
D16	5	2	1
D17	5	2	1
D18	5	2	1
D19	8	2	1
D20	5	2	1
D24	6	2	1
D25	6	2	1
D26	6	2	1
D27	6	2	1
D28	7	2	1
D29	7	2	1
D30	7	2	1
D31	7	2	1
D32	8	2	2
D33	9	2	2
D41	13	2	8
D45	13	2	8
D46	14	2	8
D47	14	2	8
D49	13	2	8
S50	25	3	3
S51	26	3	3
D52	9	2	3

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
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	82	12	8
D67	82	12	8
D68	11	2	6
D76	12	2	7
D77	12	2	7
D78	18	3	1
D79	18	3	1
D80	18	3	1
D81	19	3	1
D82	19	3	1
D83	19	3	1
D84	19	3	1
D85	19	3	1
D86	19	3	1
D87	21	3	1
D89	24	3	3
D90	25	3	3
D91	25	3	3
D92	24	3	3
D93	21	3	2
D94	21	3	2
D95	21	3	2
D96	22	3	2
D97	23	3	2
D98	22	3	2
D99	26	3	4
D100	26	3	4
D102	59	8	1

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D103	27	3	5
D104	26	3	4
D105	26	3	4
D106	36	4	7
D107	27	3	5
D112	26	3	3
D114	29	4	1
D115	29	4	1
D117	29	4	1
D120	30	4	2
D121	30	4	3
D122	31	4	3
D123	31	4	3
D129	31	4	3
D130	30	4	3
D131	31	4	3
D132	32	4	3
D134	31	4	3
D140	31	4	3
D146	32	4	4
D147	32	4	5
D148	32	4	5
D149	33	4	5
D153	33	4	5
D155	33	4	5
D156	33	4	5
D157	34	4	6
D158	34	4	6
D159	32	4	5
D160	35	4	7
D161	35	4	7
D162	35	4	7
D163	35	4	7
D165	35	4	7
D167	36	4	7
D168	35	4	7

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D169	36	4	7
D170	36	4	7
D172	132	21	1
D173	36	4	7
D174	36	4	7
D176	37	4	7
D188	37	4	7
D192	38	4	9
D194	40	5	2
D196	40	5	2
D197	41	5	3
D198	41	5	3
D199	41	5	3
D200	41	5	3
D201	42	5	3
D203	42	5	3
D209	43	5	3
D210	43	5	3
D214	44	5	4
D215	45	5	4
D216	44	5	4
D217	44	5	4
D218	43	5	4
D219	46	5	5
D220	46	5	5
D221	46	5	5
D222	46	5	5
D223	46	5	5
D224	47	5	5
D225	47	5	5
D226	47	5	5
D227	47	5	5
D229	47	5	5
C232	83	14	1
D244	35	4	7
D245	59	8	1

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D247	48	5	6
D248	48	5	6
D249	48	5	6
D250	49	5	6
D251	50	5	6
D275	138	23	1
D276	50	6	1
D305	51	6	1
D307	51	6	1
D311	131	19	5
D317	51	6	3
D319	51	6	3
D320	51	6	3
D321	51	6	3
D323	51	6	3
D333	52	6	3
D335	52	6	3
D340	55	8	1
D341	55	8	1
D342	55	8	1
D344	55	8	1
D345	55	8	1
D346	56	8	1
D347	56	8	1
D348	56	8	1
D349	56	8	1
D350	56	8	1
D351	56	8	1
D352	57	8	1
D355	57	8	1
D356	57	8	1
D357	57	8	1
D358	57	8	1
D359	58	8	1
D364	58	8	1
D371	54	8	1

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D372	54	8	1
D373	55	8	1
D374	56	8	1
D375	56	8	1
D376	57	8	1
D377	59	8	1
D384	60	8	2
D385	60	8	2
D386	61	8	2
D387	61	8	2
D388	62	8	2
D390	63	9	1
D391	63	9	1
D392	63	9	1
D393	63	9	1
D394	63	9	1
D395	63	9	1
D396	63	9	1
D397	64	9	1
D399	64	9	1
D400	64	9	1
D401	64	9	1
D402	64	9	1
D403	64	9	1
D404	64	9	1
D405	65	9	1
D406	65	9	1
D407	65	9	1
D408	65	9	1
D409	65	9	1
D410	65	9	1
D411	65	9	1
D413	66	9	1
D414	66	9	1
D415	66	9	1
D416	66	9	1

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D417	66	9	1
D418	67	9	1
D419	67	9	1
D420	67	9	1
D421	67	9	1
D422	67	9	1
D423	67	9	1
D424	67	9	1
D425	68	9	1
D431	68	9	1
D432	68	9	1
D434	70	9	2
D435	70	9	2
D436	70	9	2
D437	70	9	2
D439	71	9	3
D440	71	9	3
D442	71	9	3
D445	70	9	2
D449	71	9	3
D450	71	9	3
D453	71	11	1
D454	72	11	1
D457	72	11	1
D458	73	12	1
D459	73	12	1
D460	73	12	1
D461	73	12	1
D462	74	12	1
D463	74	12	1
D464	74	12	1
D465	75	12	1
D466	72	12	1
D467	75	12	1
D469	77	12	1
D471	75	12	1

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
C472	76	12	1
C473	76	12	1
D498	80	12	2
D502	37	4	7
D505	83	14	1
D507	83	14	2
D513	84	14	3
D515	85	14	9
D520	86	15	1
D521	86	15	1
D523	86	15	1
D524	86	15	1
D526	130	19	4
D527	107	15	4
D528	107	15	4
D531	86	15	1
D533	87	15	1
D534	87	15	1
D543	87	15	1
D544	87	15	1
D546	87	15	1
D547	87	15	1
D548	87	15	1
D549	88	15	1
D550	88	15	1
D551	88	15	1
D552	88	15	1
D553	88	15	1
D554	88	15	1
D555	88	15	1
D556	89	15	1
D557	89	15	1
D558	89	15	1
D559	89	15	1
D560	89	15	1
D561	89	15	1

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D562	89	15	1
D563	90	15	1
D564	90	15	1
D565	90	15	1
D566	90	15	1
D567	90	15	1
D568	101	15	1
D569	90	15	1
D571	90	15	1
D572	91	15	1
D573	91	15	1
D574	91	15	1
D575	91	15	1
D576	91	15	1
D577	91	15	1
D578	92	15	1
D579	92	15	1
D581	92	15	1
D582	92	15	1
D583	92	15	1
D584	92	15	1
D585	93	15	1
D586	102	15	1
D587	93	15	1
D588	93	15	1
D589	93	15	1
D591	93	15	1
D592	93	15	1
D593	94	15	1
D594	94	15	1
D595	94	15	1
D596	94	15	1
D597	94	15	1
D598	100	15	1
D599	94	15	1
D600	95	15	1

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D602	95	15	1
D603	95	15	1
D604	95	15	1
D605	95	15	1
D606	96	15	1
D607	96	15	1

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D608	96	15	1
D609	96	15	1
D610	116	15	7
D611	96	15	1
D612	97	15	1
D613	97	15	1
D614	97	15	1
D615	97	15	1
D616	97	15	1
D617	97	15	1
D618	117	15	7
D619	97	15	1
D620	98	15	1
D621	117	15	7
D622	98	15	1
D623	98	15	1
D624	98	15	1
D625	98	15	1
D626	99	15	1
D627	99	15	1
D628	99	15	1
D629	99	15	1
D630	118	15	7
D631	99	15	1
D632	102	15	1
D633	100	15	1
D634	100	15	1

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D635	102	15	1
D636	100	15	1
D637	100	15	1
D639	101	15	1
D640	86	15	1
D641	133	21	3
D642	134	21	3
D643	134	21	3
D644	134	21	3
D647	102	15	2
D648	107	15	5
D649	112	15	5
D650	108	15	5
D651	115	15	5
D652	109	15	5
D653	110	15	5
D654	113	15	5
D655	114	15	5
D656	110	15	5
D657	79	12	2
D658	115	15	5
D659	111	15	5
D660	113	15	5
D662	103	15	3
D663	103	15	3
D664	103	15	3
D665	103	15	3
D666	104	15	3
D667	104	15	3
D669	104	15	3
D670	104	15	3
D671	104	15	3
D672	104	15	3
D673	105	15	3
D674	105	15	3
D675	105	15	3

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D676	105	15	3
D677	105	15	3
D678	105	15	3
D679	106	15	3
D680	106	15	3
D681	106	15	3
D682	106	15	3
D683	106	15	3
D684	106	15	3
D685	107	15	3
D686	107	15	3
D688	79	12	2
D689	81	12	2
S692	62	8	2
D693	81	12	2
D696	80	12	2
D697	81	12	3
D698	81	12	3
C699	81	12	3
D700	82	12	4
D701	82	12	4
C702	82	12	4
D703	77	12	1
D709	77	12	1
D713	119	17	1
D714	119	17	1
D719	119	17	1
D722	127	18	0
D723	128	18	0
D724	128	18	0
D725	128	18	0
D728	129	19	1
D734	129	19	1
C747	131	21	1
C748	131	21	1
D749	23	3	2

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D750	131	21	1
D751	132	21	1
D752	131	21	1
D753	131	21	1
D754	132	21	1
D755	132	21	1
D756	132	21	1
D757	132	21	1
D758	132	21	1
D759	132	21	1
C761	133	21	2
C762	133	21	2
D763	133	21	2
C764	3	1	3
C768	9	2	2
D770	37	4	8
C771	38	4	8
C773	45	5	4
C775	49	5	6
D777	53	6	4
C778	53	6	4
D780	51	6	1
D781	51	6	1
C784	60	8	2
C786	61	8	2
C788	62	8	2
D790	84	14	4
D798	85	14	5
D807	77	12	1
D808	77	12	1
D809	78	12	1
D810	124	17	2
C811	125	17	2
D812	126	17	3
C813	126	17	3
S874	128	18	0

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D886	134	21	3
D887	134	21	3
D888	129	19	3
D889	130	19	3
D890	134	21	3
D891	135	21	3
D892	135	21	3
D893	135	21	3
D894	135	21	3
D895	135	21	3
D896	135	21	3
D898	1	1	1
D900	6	2	1
D901	7	2	1
D904	7	2	1
D906	6	2	1
D907	10	2	3
D908	18	3	1
D909	20	3	1
D910	20	3	1
D912	20	3	1
D913	20	3	1
D915	18	3	1
D916	23	3	2
D917	24	3	2
D918	21	3	1
D919	23	3	2
D922	50	6	1
D923	50	6	1
D928	57	8	1
D930	58	8	1
D932	58	8	1
D933	58	8	1
D934	58	8	1
D949	66	9	1
D950	66	9	1

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D953	68	9	1
D954	68	9	1
D959	69	9	1
D960	68	9	1
D961	68	9	1
D969	8	2	1
D973	125	17	2
D973	127	17	3
D976	39	5	1
D977	39	5	1
D978	138	23	1
D979	39	5	1
D980	39	5	1
D982	101	15	1
S987	9	2	2
S989	38	4	8
S990	45	5	4
S992	49	5	6
S993	54	6	4
S994	61	8	2
S995	62	8	2
D998	80	12	2
D1001	79	12	2
D1002	79	12	2
D1022	80	12	2
D1023	80	12	2
S1028	128	18	0
D1040	85	14	5
D1061	39	5	1
D1067	138	23	1
D1071	39	5	1
D1078	111	15	5
D1080	68	9	1
D1081	69	9	1
D1082	69	9	1
D1087	133	21	2

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1088	7	2	1
D1093	15	2	9
D1094	16	2	9
D1095	130	19	4
C1096	130	19	4
D1100	119	17	1
D1101	120	17	1
D1102	120	17	1
D1103	120	17	1
D1104	120	17	1
D1112	37	4	7
D1120	42	5	3
D1121	47	5	5
D1122	54	6	4
D1123	121	17	1
D1125	1	1	1
D1126	1	1	1
D1127	1	1	1
D1128	1	1	1
D1129	1	1	1
D1131	1	1	1
D1132	3	2	1
D1133	4	2	1
D1134	4	2	1
D1135	4	2	1
D1136	4	2	1
D1137	4	2	1
D1141	4	2	1
D1143	5	2	1
D1145	5	2	1
D1147	5	2	1
D1149	6	2	1
D1151	7	2	1
D1152	11	2	6
D1154	10	2	3
D1155	12	2	8

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1156	12	2	8
D1157	13	2	8
D1158	13	2	8
D1159	13	2	8
D1160	12	2	8
D1161	14	2	8
D1162	14	2	8
D1164	14	2	8
D1165	15	2	8
D1170	15	2	9
D1173	16	2	9
D1174	16	2	9
D1175	16	2	9
D1176	16	2	9
D1177	16	2	9
D1178	17	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	33	4	5
D1191	33	4	5
D1194	33	4	5
D1195	34	4	7
D1197	41	5	3
D1198	41	5	3
D1199	41	5	3
D1200	41	5	3
D1203	42	5	3
D1204	42	5	3
D1205	42	5	3
D1206	42	5	3
D1207	43	5	3
D1208	46	5	5

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1209	46	5	5
D1210	46	5	5
D1212	47	5	5
D1213	47	5	5
D1217	50	6	1
D1255	52	6	3
D1256	52	6	3
D1257	52	6	3
D1258	52	6	3
D1259	55	8	1
D1260	55	8	1
D1265	58	8	1
D1266	58	8	1
D1267	18	3	1
D1268	18	3	1
D1269	18	3	1
D1271	19	3	1
D1272	20	3	1
D1273	20	3	1
D1275	20	3	1
D1280	20	3	1
D1283	22	3	2
D1284	22	3	2
D1285	23	3	2
D1287	23	3	2
D1288	23	3	2
D1289	23	3	2
D1292	26	3	4
D1293	27	3	5
D1294	27	3	5
D1295	27	3	5
D1296	27	3	5
D1297	27	3	5
D1298	70	9	2
D1301	72	11	1
D1303	134	21	3

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1304	76	12	1
D1305	78	12	1
D1306	78	12	1
D1307	78	12	1
D1308	78	12	1
D1316	134	21	3
D1320	129	19	2
D1321	129	19	2
D1326	34	4	7
D1332	30	4	1
D1333	32	4	3
D1334	36	4	7
D1335	36	4	7
D1336	37	4	7
D1337	39	5	1

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1338	39	5	1
D1339	52	6	3
D1340	59	8	1
D1341	59	8	1
D1342	59	8	1
D1343	30	4	1
D1350	11	2	6
D1351	29	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	116	15	5
D1363	118	15	7
D1365	21	3	1
D1366	24	3	2

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1367	12	2	7
D1380	38	4	9
D1381	39	5	1
D1384	47	5	5
D1392	69	9	1
D1399	82	12	3
D1415	126	17	2
D1416	128	18	0
D1419	133	21	1
D1425	127	17	3
D1438	12	2	8
D1443	26	3	4
D1444	27	3	5
D1446	30	4	1
D1447	32	4	3
D1448	33	4	5
D1449	37	4	7
D1451	43	5	3
D1453	52	6	3
D1454	59	8	1
D1455	70	9	2
D1456	71	9	3
D1458	72	11	1
D1459	78	12	1
D1460	81	12	2
D1461	82	12	4
D1465	84	14	2
D1466	84	14	3
D1467	85	14	4
D1469	85	14	9
D1470	102	15	1
D1471	103	15	2
D1472	107	15	3
D1473	129	19	1
D1477	135	21	3
E1487	135	22	0

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
E1488	135	22	0
E1489	136	22	0
E1491	136	22	0
E1492	136	22	0
E1493	136	22	0
E1494	136	22	0
D1495	78	12	1
D1496	81	12	2
E1499	136	22	0
D1500	101	15	1
D1504	69	9	1
D1505	69	9	1
D1506	69	9	1
D1507	69	9	1
D1508	28	4	1
D1509	69	9	1
D1510	29	4	1
D1514	137	23	1
D1515	137	23	1
D1516	137	23	1
D1517	137	23	1
D1518	137	23	1
D1519	137	23	1
D1520	137	23	1
D1521	138	23	1
D1522	138	23	1
D1523	138	23	1
D1524	138	23	1
D1530	59	8	1
D1531	59	8	1
D1532	22	3	2
C1536	125	17	2
C1538	127	17	3
D1553	85	14	5
D1555	101	15	1
D1556	130	19	3

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1557	17	2	10
D1558	17	2	10
D1559	17	2	10
D1560	17	2	10
D1561	83	12	8
D1562	138	23	1
D1566	37	4	7
D1567	8	2	1
D1572	130	19	4
D1573	28	3	8
C1574	28	3	8
D1597	21	3	1
D1598	21	3	1
D1615	134	21	3
B1616	8	2	1
D1617	121	17	1
D1618	122	17	1
C1638	133	21	2
C1639	133	21	2
D1645	122	17	1
D1646	123	17	1
D1648	125	17	2
D1651	126	17	3
D1659	124	17	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:

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.

[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.

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

40CFR79
40CFR80
California Code of Regulations, Title 13, Division 3, Chapter 5

[40CFR 79, 7-1-1999; 40CFR 80, 7-1-1999; CCR Title 13, 9-24-1999]

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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.

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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.

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 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]

[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; Process 5, System 3]

- 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 8, System 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:

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

[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 , 4; Process 12, System 5 , 8; Process 19, System 3; Process 21, System 1 , 2 , 3 , 4]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

Contaminant	Rule	Rule/Subpart
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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

All emergency vent gases shall be directed to a 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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

S15.3 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).

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

S15.6 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, 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.

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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]

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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:

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

Crude Distillation 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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

S18.2 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:

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- S18.3 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:

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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:

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.

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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 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 12, System 7; Process 15, System 3; Process 23, System 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:

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

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 GGG.

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.

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.

FACILITY PERMIT TO OPERATE TESORO 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, 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]

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

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).

- a. Award contract(s) to construct and install the control technology by April 28, 2006.
- b. 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.
- c. Start operation of the control technology permitted to ensure compliance with Rule 1105.1 (d)(1) by April 30, 2007.
- d. 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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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
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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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
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 NOx and SOx 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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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, D1171, D1172, D1173, D1174, D1175, D1176, D1177, D1178, D1179, D1438]

A63.7 The operator shall limit emissions from this equipment as follows:

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

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

[Devices subject to this condition : D96]

A99.1 The 2 lbs/ton PM emission limit(s) shall not apply before 12/31/2006.

[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:

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

The operator shall calculate and continuously record the NH₃ slip concentration using the following: $NH_3(ppmv) = [a - b * c / 1E6] * 1E6 / b$, where a = NH₃ injection rate (lb/hr) / 17 (lb/lbmole), b = dry exhaust gas flow rate (lb/hr) / 29 (lb/lbmole), and c = change in measured NO_x across the SCR (ppmvd at 15 percent O₂). The operator shall install and maintain a NO_x analyzer to measure the SCR inlet NO_x 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_x emission limit

[CONSENT DECREE, 3-21-2001]

[Devices subject to this condition : D89, D90]

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 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.

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 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]

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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]

[Devices subject to this condition : D251]

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

AMMONIA

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

[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 : D610, D630]

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

Crude Oil

[RULE 1303, 5-10-1996]

[Devices subject to this condition : D618, D621]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

Compound	ppm by volume
H2S greater than	160

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

[40CFR 60 Subpart J, 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 volume
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 : D719, D1617, D1618, D1645, D1646, D1659]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

B61.9 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

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- C1.3 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]

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.5 The operator shall limit the throughput to no more than 600,000 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]

[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 : D547, D550, D551]

FACILITY PERMIT TO OPERATE TESORO 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]

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, 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:

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.

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]

C1.24 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.

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

[Devices subject to this condition : D657]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.26 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.

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.29 The operator shall limit the throughput to no more than 200000 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 : D589, D600]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.30 The operator shall limit the throughput to no more than 500000 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 : D624]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.31 The operator shall limit the throughput to no more than 450000 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 : D652]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.32 The operator shall limit the throughput to no more than 350000 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 : D655, D659, D1078]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.33 The operator shall limit the throughput to no more than 650000 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 : D648, D658]

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.37 The operator shall limit the throughput to no more than 900,000 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. 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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.40 The operator shall limit the throughput to no more than 600,000 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 : D982]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.42 The operator shall limit the throughput to no more than 300,000 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 : D610, 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.

[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 : D719, D1617, D1618, D1645, D1646, D1659]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.44 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 : D719, 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 : D719, 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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.47 The operator shall limit the throughput to no more than 350,000 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 : 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.

[**RULE 1470, 6-1-2007**]

[Devices subject to this condition : D1123]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 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 : D610, 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.

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

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

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

[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]

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- D12.3 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]

- 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

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

[Devices subject to this condition : 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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- D12.7 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.

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 : D719, D1617, D1618, D1645, D1646, D1659]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

The test shall be conducted to confirm the emission limits of this equipment as specified in Condition 63.

The test shall be conducted to determine and report the mass emission rate in pound per hour for NO_x, SO_x, ROG 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 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 : 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 NH₃ emissions at the outlet.

This condition shall become effective when the initial Title V permit is issued to the facility.

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

The test(s) shall be conducted at least 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

This condition shall become effective when the initial Title V permit is issued to the facility.

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D29.2 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 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

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

[Devices subject to this condition : C786]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D29.5 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
NH3 emissions	District method 207.1 and 5.3 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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D29.6 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

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D29.7 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 17	1 hour	Outlet of the SCR

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D82.1 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]

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

The operator shall monitor once every day.

This condition shall become effective when the initial Title V permit is issued to the facility.

[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.

This condition shall become effective when the initial Title V permit is issued to the facility.

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- D90.6 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

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

[Devices subject to this condition : C761, C762]

- D90.7 The operator shall continuously monitor the H₂S 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 H₂S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H₂S in the fuel gas being burned in this device.

[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_x emission data from the certified RECLAIM SO_x 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 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 December 4, 2002 for the periodic monitoring and reporting of H₂S 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 H₂S 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, 5-16-2007; 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, 5-16-2007; 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

[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 : 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, D723, 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

[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, D547, D550, D551, D648, 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.

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

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

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

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

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

This condition shall become effective when the initial Title V permit is issued to the facility.

[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, D1171, D1172, D1173, D1174, D1175, D1176, D1177, D1178, D1179, 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

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

[Devices subject to this condition : D9, D32, D33, D89, D90, D91, D120, D146, D157, D158, D194, D196, D214, D218, D247, D248, D251, D384, D386, D387, D388, D722, D723, D724, D725, D770, 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

[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]

- 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

[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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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:

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, 12-5-2003; RULE 2012, 1-7-2005]

[Devices subject to this condition : D812]

E54.1 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C764 [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 : D9]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- E54.2 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C773 [SELECTIVE CATALYTIC REDUCTION SYSTEM]

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 : D214, D215, D216, D217]

- 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]

[Devices subject to this condition : D386, D387]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 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:

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 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]

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- E54.11 The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

Device ID: C764 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: The District shall be notified at least 72 hours before the planned bypass.

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 maintenance (scheduled or unscheduled) work performed for each bypass.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D9]

- E54.12 The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

Device ID: C773 [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 : D214, D215, D216, D217]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 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]

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- E54.15 The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

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

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D247, D248, D249]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 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]

- 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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- E71.3 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]
- 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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E71.10 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.

[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.

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

[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.

This condition shall become effective when the initial Title V permit is issued to the facility.

[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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 12-5-2003; RULE 2012, 1-7-2005]

[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:

- 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, 12-5-2003; RULE 2012, 1-7-2005]

[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, 4-9-1993]

[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(B1616-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]

[Devices subject to this condition : D32]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E313.1 This device is classified as a non-operated major SO_x and NO_x 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]

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]

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

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.

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.

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

[Devices subject to this condition : D469]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E336.2 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]

[Devices subject to this condition : D462, 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, D589, D592, D593, D594, D595, D596, D597, D598, D599, D600, D602, D603, D604, D606, D607, D608, D611, D613, D614, D615, D616, D617, 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]

[Devices subject to this condition : D552, D553]

H. Applicable Rules

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	Kb

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

[Devices subject to this condition : D469, D524, D598, D610, D630, D648, D659, 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]

FACILITY PERMIT TO OPERATE TESORO 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, 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

[40CFR 60 Subpart K, 10-17-2000]

[Devices subject to this condition : D634]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

H23.10 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

[RULE 1404, 4-6-1990]

[Devices subject to this condition : E1489]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

H23.14 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

[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; 40CFR 60 Subpart GGG, 6-2-2008]

[Devices subject to this condition : D1143, D1365, D1380, D1381, D1384, D1392, D1446, D1447, D1448, D1449, D1453, D1455, D1456, D1458, D1562, D1567]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

H23.17 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

[40CFR 60 Subpart Db, 11-16-2006; 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:

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

[Devices subject to this condition : D648]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

H23.32 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
CO	40CFR60, SUBPART	J
PM	40CFR60, SUBPART	J
Visible Emissions	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, D562, D563, D564, 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:

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 : D719, 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]

[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, D648, D649, D650, D651, D652, D653, D654, D655, D656, D658, D660, D703, D709, D1078, D1095, C1096, D1304]

I. Administrative

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- I1.1 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]

- 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 prorated annual emissions increase for the first compliance year 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 first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : 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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 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

[**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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

K67.2 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

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

[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, D593, D594, D596, D597, D598, D599, D603, D604, D605, D609, D611, D612, D613, D614, D615, D616, D617, 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, D660, 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

K67.8 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

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

This condition shall become effective when the initial Title V permit is issued to the facility.

[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]

K67.10 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.

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

[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.

This condition shall become effective when the initial Title V permit is issued to the facility.

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

[Devices subject to this condition : D552, D553]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

K67.12 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

This condition shall become effective when the initial Title V permit is issued to the facility.

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

[Devices subject to this condition : D610, D630]

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 : D719, D1617, D1618, D1645, D1646, D1659]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

K67.15 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

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

[Devices subject to this condition : D618, D621]

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 : D618, D621]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION E: ADMINISTRATIVE CONDITIONS

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

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
 - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
 - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
 - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]
5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least: [204]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION E: ADMINISTRATIVE CONDITIONS

- a. Three years for a facility not subject to Title V; or
 - b. Five years for a facility subject to Title V.
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
- a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134, 204]
 - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
 - c. For a large NO_x source, compliance with a RECLAIM concentration limit shall be measured over a continuous 60 minutes for that source; [2012]
 - d. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
 - e. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO₂) and be averaged over 15 consecutive minutes; [407]
 - f. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO₂) at standard conditions and averaged over 15 consecutive minutes. [409]
 - g. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O₂) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. All equipment operating under the RECLAIM program shall comply concurrently with all provisions of AQMD Rules and Regulations, except those listed in Table 1 of Rule 2001 for NO_x RECLAIM sources and Table 2 of Rule 2001 for SO_x RECLAIM sources. Those provisions listed in Tables 1 or 2 shall not apply to NO_x or SO_x emissions after the date the facility has demonstrated compliance with all monitoring and reporting requirements of Rules 2011 or 2012, as applicable. Provisions of the listed AQMD rules in Tables 1 or 2 which have initial implementation dates in 1994 shall not apply to a RECLAIM NO_x or SO_x source, respectively. [2001]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION E: ADMINISTRATIVE CONDITIONS

9. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
 - a. Brief description of the equipment tested.
 - b. Brief process description, including maximum and normal operating temperatures, pressures, through-put, etc.
 - c. Operating conditions under which the test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
 - f. Description of calibration and quality assurance procedures.
 - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (no conflict of interest).

10. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD Rules or equipment-specific conditions. The report shall contain the following information: [204]
 - a. The results of the source test.
 - b. Brief description of the equipment tested.
 - c. Operating conditions under which test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Field and laboratory data forms, strip charts and analyses.
 - f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION E: ADMINISTRATIVE CONDITIONS

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

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

I. NO_x Monitoring Conditions

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

1. Install, maintain, and operate an AQMD certified direct or time-shared monitoring device or an approved alternative monitoring device for each major NO_x source to continuously measure the concentration of NO_x emissions and all other applicable variables specified in Rule 2012, Table 2012-1 and Rule 2012, Appendix A, Table 2-A to determine the NO_x emissions rate from each source. The time-sharing of CEMS among NO_x sources may be allowed by the Executive Officer in accordance with the requirements for time sharing specified in Appendix A. [2012]
2. Install, maintain, and operate a totalizing fuel meter approved by the Executive Officer for each major source. [2012]
3. If the facility is operating existing CEMS and fuel meters, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect prior to October 15, 1993 until the CEMS is certified pursuant to Rule 2012. [2012]
4. Use valid data collected by an AQMD certified or provisionally certified CEMS in proper operation that meets all the requirements of Appendix A of Rule 2012, unless final certification of the CEMS is denied, to determine mass emissions for all purposes, including, but not limited to, determining: [2012]
 - a. compliance with the annual Allocation;
 - b. excess emissions;
 - c. the amount of penalties; and
 - d. fees.
5. Follow missing data procedures as specified in Rule 2012 Appendix A whenever valid data is not available or collected to determine mass emissions for all purposes, including, but not limited to, determining: [2012]
 - a. compliance with the annual Allocation;
 - b. excess emissions;
 - c. the amount of penalties; and
 - d. fees.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

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

1. Install, maintain, and operate a totalizing fuel meter and any device specified by the Executive Officer as necessary to determine monthly fuel usage or other applicable variables specified in Rule 2012, Appendix A, Table 3-A. The sharing of totalizing fuel meter may be allowed by the Executive Officer if the fuel meter serves large sources which have the same emission factor, concentration limit, or emission rate. The sharing of totalizing fuel meters shall not be allowed for large sources which are required to comply with an annual heat input limit. [2012]
2. Comply at all times with the specified NO_x concentration limit in PPM measured over any continuous 60 minutes for that source or establish an equipment-specific emission rate that is reliable, accurate, representative of that sources emissions, and in accordance with the requirements specified in Rule 2012, Appendix A, Chapter 5. [2012]

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

1. Install, maintain, and operate a totalizing fuel meter or any device approved by the Executive Officer to measure quarterly fuel usage or other applicable variables specified in Rule 2012, Table 2012-1, and Rule 2012, Appendix A, Table 4-A. The sharing of totalizing fuel meters may be allowed by the Executive Officer if the fuel meter serves process units which have the same emission factor or emission rate. The sharing of totalizing meter shall not be allowed for process units which are required to comply with an annual heat input limit. [2012]

II. NO_x Source Testing and Tune-up Conditions

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

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

III. SO_x Monitoring Conditions

D. The Operator of a SO_x Major Source, as defined in Rule 2011, shall, as applicable:

1. Install, maintain, and operate an AQMD certified direct or time-shared monitoring device or an approved alternative monitoring device for each major SO_x source to continuously measure the concentration of SO_x emissions or fuel sulfur content and all other applicable variables specified in Rule 2011, Table 2011-1 and Rule 2011, Appendix A, Table 2-A to determine the SO_x emissions rate from each source. The time-sharing of CEMS among SO_x sources may be allowed by the Executive Officer in accordance with the requirements for time sharing specified in Appendix A. [2011]
2. Install, maintain, and operate a totalizing fuel meter approved by the Executive Officer for each major source. [2011]
3. If the facility is operating existing CEMS and fuel meters, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect prior to October 15, 1993 until the CEMS is certified pursuant to Rule 2011. [2011]
4. Use valid data collected by an AQMD certified or provisionally certified CEMS in proper operation that meets all the requirements of Appendix A of Rule 2011, unless final certification of the CEMS is denied, to determine mass emissions for all purposes, including, but not limited to, determining: [2011]
 - a. compliance with the annual Allocation;
 - b. excess emissions;
 - c. the amount of penalties; and
 - d. fees.
5. Follow missing data procedures as specified in Rule 2011 Appendix A whenever valid data is not available or collected to determine mass emissions for all purposes, including, but not limited to, determining: [2011]
 - a. compliance with the annual Allocation;
 - b. excess emissions;
 - c. the amount of penalties; and

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

d. fees.

E. The Operator of a SO_x Process Unit, as defined in Rule 2011, shall, as applicable:

1. Install, maintain, and operate a totalizing fuel meter or any device approved by the Executive Officer to measure quarterly fuel usage or other applicable variables specified in Rule 2011, Table 2011-1, and Rule 2011, Appendix A, Table 3-A. The sharing of totalizing meters shall be allowed for process units except those using fuels with different sulfur contents. [2011]

IV. SO_x Source Testing Conditions

1. The operator shall conduct all required SO_x source testing in compliance with an AQMD-approved source test protocol. [2011]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

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

I. Recordkeeping Requirements for all RECLAIM Sources

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

II. Reporting Requirements for all RECLAIM Sources

1. The operator shall submit a quarterly certification of emissions including the facility's total NO_x or SO_x emissions, whichever is applicable, for the quarter within 30 days after the end of the first three quarters and 60 days after the end of the fourth quarter of a compliance year. [2011 & 2012]

NO_x Reporting Requirements

- A. The Operator of a NO_x Major Source, as defined in Rule 2012, shall, as applicable:
 1. No later than 12 months after entry into the RECLAIM program or after the initial operation of a new major source, whichever is later, install, maintain, and operate a reporting device to electronically report everyday to the AQMD central station for each major NO_x source, the total daily mass emissions of NO_x and daily status codes. Such data

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

shall be transmitted by 5:00 p.m. of the following day. If the facility experiences a power, computer, or other system failure that prevents the submittal of the daily report, the Facility Permit holder shall be granted 24 hours extension to submit the report. [2012]

2. Calculate NO_x emissions pursuant to missing data procedures set forth in Appendix A, Chapter 2 of Rule 2012 if the Facility Permit holder fails to meet the deadline for submitting the daily report. [2012]
 3. Submit an electronic report within 15 days following the end of each month totaling NO_x emissions from all major NO_x sources during the month. [2012]
 4. For those facilities with existing CEMS and fuel meters as of October 15, 1993, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect until the CEMS is certified pursuant to Rule 2011 and/or Rule 2012, as applicable. [2012]
- B. The Operator of a NO_x Large Source, as defined in Rule 2012, shall:
1. Install, maintain and operate a modem or any reporting device approved by the Executive Officer to report, to the AQMD, the total monthly NO_x mass emissions from each large NO_x source. The Operator shall comply with this requirement within 12 months of the date of entry to the RECLAIM Program. Such data shall be reported within 15 days after the end of each calendar month. [2012]
- C. The Operator of a NO_x Process Unit, as defined in Rule 2012, shall:
1. Electronically report the calculated quarterly NO_x emissions for each NO_x process unit. The Operator shall comply with this requirement within 12 months of the date of entry to the RECLAIM Program. [2012]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

SOx Reporting Requirements

D. The Operator of a SOx Major Source, as defined in Rule 2011, shall, as applicable:

1. No later than 12 months after entry into the RECLAIM program or after the initial operation of a new major source, whichever is later, install, maintain, and operate a reporting device to electronically report everyday to the AQMD central station for each major SOx source, the total daily mass emissions of SOx and daily status codes. Such data shall be transmitted by 5:00 p.m. of the following day. If the facility experiences a power, computer, or other system failure that prevents the submittal of the daily report, the Facility Permit holder shall be granted 24 hours extension to submit the report. [2011]
2. Calculate SOx emissions pursuant to missing data procedures set forth in Appendix A, Chapter 2 of Rule 2011 if the Facility Permit holder fails to meet the deadline for submitting the daily report. [2011]
3. Submit an electronic report within 15 days following the end of each month totaling SOX emissions from all major SOx sources during the month. [2011]
4. For those facilities with existing CEMS and fuel meters as of October 15, 1993, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect until the CEMS is certified pursuant to Rule 2011 and/or Rule 2012, as applicable. [2011]

E. The Operator of a SOx Process Unit, as defined in Rule 2011, shall:

1. Electronically report the calculated quarterly SOx emissions for each SOx process unit. [2011]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : CRUDE DISTILLATION					P13.1
System 3 : CRUDE DISTILLATION HEATER					
HEATER, CRUDE, H-1, PROCESS GAS, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 198.98 MMBTU/HR WITH A/N: 470259 † Permit to Construct Issued: 05/13/99 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: 2000 PPMV (5A) [RULE 407,4-2-1982] ; CO: 35 PPMV (5) [RULE 1303(a)(1)-BACT,5-10-1996] ; PM: (9) [RULE 404,2-7-1986] PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981]	A63.10, A305.1, B61.1, D28.3, D90.7, D328.1, H23.3, I296.1
System 4 : CRUDE DESALTER					S31.1
VESSEL, DESALTER, V-2183, FIRST STAGE, HEIGHT: 20 FT; DIAMETER: 16 FT A/N: 470262 † Permit to Construct Issued: 08/04/00	D1478				
VESSEL, DESALTER, V-2184, SECOND STAGE, HEIGHT: 20 FT; DIAMETER: 16 FT A/N: 470262 † Permit to Construct Issued: 08/04/00	D1479				

- * (1) 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) 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.

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
System 1 : DELAYED COKING UNIT (DCU)					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: 475638 Permit to Construct Issued: 11/29/07	D10				
COLUMN, STRIPPER, FC-106 (V-902), LIGHT GAS-OIL, HEIGHT: 25 FT; DIAMETER: 4 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D1132				
COLUMN, STRIPPER, FC-107 (V-903), INTERMEDIATE GAS-OIL, HEIGHT: 25 FT; DIAMETER: 4 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D1133				
COLUMN, STRIPPER, FC-108 (V-904), HEAVY GAS-OIL, HEIGHT: 25 FT; DIAMETER: 4 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D1134				
DRUM, FLASH, FC-131 (V-927), FRESH FEED, LENGTH: 33 FT; DIAMETER: 15 FT A/N: 475638 Permit to Construct Issued: 11/29/07	D11				

- * (1) Denotes RECLAIM emission factor
- (2) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
DRUM, SURGE, FC-135 (V-931), LGO, HEIGHT: 16 FT; DIAMETER: 3 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D1135				
VESSEL, DESALTER, FC-137 (V-933), LENGTH: 90 FT; DIAMETER: 12 FT A/N: 475638 Permit to Construct Issued: 11/29/07	D1136				
DRUM, COKER HEATER SURGE, FC-146 (V-901), HEIGHT: 18 FT 6 IN; DIAMETER: 16 FT A/N: 475638 Permit to Construct Issued: 11/29/07	D1137				
SUMP, GLAND OIL, WIDTH: 5 FT; DEPTH: 7 FT; LENGTH: 5 FT A/N: 475638 Permit to Construct Issued: 11/29/07	D1141				
ACCUMULATOR, FRACTIONATOR OVERHEAD, FC-109 (V-905), LENGTH: 36 FT; DIAMETER: 10 FT A/N: 475638 Permit to Construct Issued: 11/29/07	D15				
SCRUBBER, COMPRESSOR SUCTION, FC-110 (V-906), HEIGHT: 8 FT; DIAMETER: 7 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D16				

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| <ul style="list-style-type: none"> * (1) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
ACCUMULATOR, FIRST STAGE DISCHARGE, FC-111 (V-907), LENGTH: 10 FT; DIAMETER: 5 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D17				
ACCUMULATOR, SECOND STAGE DISCHARGE, FC-112 (V-908), LENGTH: 10 FT; DIAMETER: 4 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D18				
ABSORBER, SPONGE OIL, FC-114 (V-910), HEIGHT: 57 FT 6 IN; DIAMETER: 3 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D1143				H23.16
VESSEL, WATER COALESCER, FC-148 (V-943), LENGTH: 8 FT; DIAMETER: 2 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D1145				
DRUM, COKE, FC-100-103 (V-895-898), 4 TOTAL, HEIGHT: 68 FT; DIAMETER: 26 FT A/N: 475638 Permit to Construct Issued: 11/29/07	D20			PM: (9) [RULE 405,2-7-1986]	E336.3

- * (1) Denotes RECLAIM emission factor (2) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
ACCUMULATOR, FC-126 (V-922), COKE DRUM CONDENSATE, LENGTH: 15 FT; DIAMETER: 5 FT A/N: 475638 Permit to Construct Issued: 11/29/07	D1147				
COLUMN, DEBUTANIZER, FC-115 (V-911), HEIGHT: 85 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D906				
ACCUMULATOR, DEBUTANIZER OVERHEAD, FC-116 (V-912), LENGTH: 19 FT; DIAMETER: 6 FT A/N: 475638 Permit to Construct Issued: 11/29/07	D24				
COLUMN, DEPROPANIZER, FC-117 (V-913), HEIGHT: 93 FT 1 IN; DIAMETER: 5 FT A/N: 475638 Permit to Construct Issued: 11/29/07	D25				
ACCUMULATOR, DEPROPANIZER OVERHEAD, FC-118 (V-914), LENGTH: 11 FT; DIAMETER: 4 FT 4 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D900				
COLUMN, SPLITTER, FC-119 (V-915), NAPHTHA, HEIGHT: 84 FT 1 IN; DIAMETER: 7 FT A/N: 475638 Permit to Construct Issued: 11/29/07	D26				

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
ACCUMULATOR, NAPHTHA SPLITTER OVERHEAD, FC-120 (V-916), HEIGHT: 14 FT; DIAMETER: 5 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D27				
SCRUBBER, V-917, SPONGE OIL ABSORBER GAS, HEIGHT: 8 FT; DIAMETER: 3 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D1149				
ABSORBER, AMINE, FC-122 (V-918), RESIDUE GAS, HEIGHT: 40 FT; DIAMETER: 3 FT A/N: 475638 Permit to Construct Issued: 11/29/07	D28				
SCRUBBER, RESIDUE GAS, FC-123 (V-919), HEIGHT: 8 FT; DIAMETER: 3 FT A/N: 475638 Permit to Construct Issued: 11/29/07	D1088				
ABSORBER, AMINE, FC-124 (V-920), PROPANE/PROPYLENE, HEIGHT: 30 FT; DIAMETER: 5 FT A/N: 475638 Permit to Construct Issued: 11/29/07	D29				
VESSEL, SEPARATOR, FC-130 (V-926), AMINE, LENGTH: 10 FT; DIAMETER: 3 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D30				

- * (1) Denotes RECLAIM emission factor
- (2) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
DRUM, FLASH, FC-147 (V-942), RICH AMINE, LENGTH: 15 FT; DIAMETER: 8 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D31				
PIT, COKE, WITH FOUR COKE DRUM CHUTES, WIDTH: 36 FT; HEIGHT: 21 FT; LENGTH: 585 FT A/N: 475638 Permit to Construct Issued: 11/29/07	D1151			PM: (9) [RULE 405,2-7-1986]	
COMPRESSOR, OVERHEAD, C-145 A/N: 475638 Permit to Construct Issued: 11/29/07	D901				H23.4
VESSEL, H-100/101, FUEL GAS, 2 TOTAL A/N: 475638 Permit to Construct Issued: 11/29/07	D904				
COMPRESSOR, C-87 A/N: 475638 Permit to Construct Issued: 11/29/07	D969				
DRUM, RICH OIL FLASH DRUM, V-2332, LENGTH: 10 FT; DIAMETER: 3 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D1567				E336.2, H23.16
HEAT EXCHANGER, PROPANE VAPORIZER E-1465 A/N: 475638 Permit to Construct Issued: 11/29/07	B1616				

- * (1) Denotes RECLAIM emission factor (2) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
COLUMN, DEETHANIZER, FC-113 (V-909), HEIGHT: 98 FT 10 IN; DIAMETER: 8 FT 6 IN A/N: 475638 Permit to Construct Issued: 11/29/07	D19				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 475638 Permit to Construct Issued: 11/29/07	D1357			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.5
System 6 : DCU BLOWDOWN RECOVERY SYSTEM					S13.4, S15.2, S15.3, S15.11
ACCUMULATOR, BLOWDOWN, FC-127 (V-923), LENGTH: 20 FT; DIAMETER: 10 FT A/N: 472871 Permit to Construct Issued: 11/29/07	D53				
VESSEL, BLOWDOWN CONTACTOR, FC-128 (V-924), HEIGHT: 40 FT; DIAMETER: 16 FT A/N: 472871 Permit to Construct Issued: 11/29/07	D1152				
KNOCK OUT POT, DISCHARGE, V-1400, HEIGHT: 7 FT 8 IN; DIAMETER: 3 FT A/N: 472871 Permit to Construct Issued: 11/29/07	D63				
DRUM, FLARE SEAL, V-1613, LENGTH: 19 FT 6 IN; DIAMETER: 6 FT A/N: 472871 Permit to Construct Issued: 11/29/07	D65				

- * (1) Denotes RECLAIM emission factor
- (2) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
COMPRESSOR, C-137, BLOWDOWN, ALSO SERVES AS FLARE GAS RECOVERY COMPRESSOR AS NEEDED A/N: 472871 Permit to Construct Issued: 11/29/07	D68				H23.4
DRUM, V-1613, DCU FLARE SEAL, HEIGHT: 25 FT; DIAMETER: 5 FT A/N: 472871 Permit to Construct Issued: 11/29/07	D1350				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 472871 Permit to Construct Issued: 11/29/07	D1361			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.5
System 8 : COKE HANDLING, SCREENING AND LOADING					S7.1, S13.3
HOPPER, RECEIVING, QQ-942, PETROLEUM COKE, PORTABLE A/N: 475398 Permit to Construct Issued: 01/29/08	D1155			PM: (9) [RULE 405,2-7-1986]	A63.6, D323.1
STORAGE BUILDING, PETROLEUM COKE BARN A/N: 475398 Permit to Construct Issued: 01/29/08	D1438			PM: (9) [RULE 405,2-7-1986]	A63.6, D323.1
FEEDER, SPREADER, QQ-943, PORTABLE, PETROLEUM COKE A/N: 475398 Permit to Construct Issued: 01/29/08	D1160			PM: (9) [RULE 405,2-7-1986]	A63.6, D323.1

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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
CONVEYOR, BELT, QQ-944, PETROLEUM COKE, PORTABLE A/N: 475398 Permit to Construct Issued: 01/29/08	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: 475398 Permit to Construct Issued: 01/29/08	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: 475398 Permit to Construct Issued: 01/29/08	D1158			PM: (9) [RULE 405,2-7-1986]	A63.6, D323.1
CONVEYOR, BELT, QQ-952, PETROLEUM COKE, TUBE ENCLOSED WITH FIXED DISCHARGE, 90 FEET LONG A/N: 475398 Permit to Construct Issued: 01/29/08	D1159			PM: (9) [RULE 405,2-7-1986]	A63.6, D323.1
HOPPER, SCREEN FEED, QQ-972-75, 4 TOTAL, PETROLEUM COKE, EACH 60 TONS A/N: 475398 Permit to Construct Issued: 01/29/08	D34			PM: (9) [RULE 405,2-7-1986]	A63.6, D323.1

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| <ul style="list-style-type: none"> * (1) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) Denotes RECLAIM emission rate (4) Denotes BACT emission limit (6) Denotes air toxic control rule limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) (10) See Section J for NESHAP/MACT requirements |
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
CONVEYOR, BELT, QQ-968-971, 4 TOTAL, PETROLEUM COKE, COVERED, EACH 14 FEET LONG A/N: 475398 Permit to Construct Issued: 01/29/08	D41			PM: (9) [RULE 405,2-7-1986]	A63.6, D323.1
SCREEN, CLASSIFYING, QQ-964/965, PETROLEUM COKE, 2 TOTAL, DOUBLE-DECK VIBRATING TYPE, WIDTH: 8 FT; LENGTH: 20 FT A/N: 475398 Permit to Construct Issued: 01/29/08	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 40 FT LONG A/N: 475398 Permit to Construct Issued: 01/29/08	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: 475398 Permit to Construct Issued: 01/29/08	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: 475398 Permit to Construct Issued: 01/29/08	D47			PM: (9) [RULE 405,2-7-1986]	A63.6, D323.1

- * (1) Denotes RECLAIM emission factor
- (2) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit
- (4) Denotes BACT emission limit
- (5)(5A)(5B) Denotes command and control emission limit
- (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit
- (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					P13.1
HOPPER, RAIL CAR /TRUCK LOADING, QQ-945, PETROLEUM COKE, THREE 45 TON CAPACITY SECTIONS WITH A/N: 475398 Permit to Construct Issued: 01/29/08 LOADING ARM, RAIL CAR, TANK TRUCK, 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: 475398 Permit to Construct Issued: 01/29/08	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: 475398 Permit to Construct Issued: 01/29/08	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: 475398 Permit to Construct Issued: 01/29/08	D1165			PM: (9) [RULE 405,2-7-1986]	A63.6, D323.1

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| <p>* (1) Denotes RECLAIM emission factor
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 (5)(5A)(5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
 (10) See Section J for NESHAP/MACT requirements</p> |
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
System 1 : FCCU RECOVERY SECTION					S13.4, S15.2, S15.12, S31.1
ABSORBER, V-406, HEIGHT: 64 FT 4 IN; DIAMETER: 4 FT 6 IN A/N: 472873 Permit to Construct Issued: 11/29/07	D78				
TOWER, SPLITTER, HEAVY NAPHTHA, V-407, HEIGHT: 47 FT; DIAMETER: 5 FT 6 IN A/N: 472873 Permit to Construct Issued: 11/29/07	D1267				
TOWER, RERUN, V-408, HEIGHT: 82 FT; DIAMETER: 7 FT A/N: 472873 Permit to Construct Issued: 11/29/07	D1268				
TOWER, SPLITTER, LIGHT NAPHTHA, V-409, HEIGHT: 60 FT; DIAMETER: 8 FT 6 IN A/N: 472873 Permit to Construct Issued: 11/29/07	D1269				
COLUMN, DEPROPANIZER, V-410, HEIGHT: 80 FT; DIAMETER: 6 FT A/N: 472873 Permit to Construct Issued: 11/29/07	D908				
ACCUMULATOR, V-413, HEIGHT: 10 FT; DIAMETER: 5 FT A/N: 472873 Permit to Construct Issued: 11/29/07	D79				
DRUM, V-414, RERUN REFLUX A/N: 472873 Permit to Construct Issued: 11/29/07	D915				

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| <ul style="list-style-type: none"> * (1) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
ACCUMULATOR, V-415, SPLITTER TOWER REFLUX, HEIGHT: 19 FT; DIAMETER: 5 FT 7 IN A/N: 472873 Permit to Construct Issued: 11/29/07	D80				
ACCUMULATOR, V-416, DEPROPANIZER TOWER REFLUX, LENGTH: 19 FT; DIAMETER: 6 FT 6 IN A/N: 472873 Permit to Construct Issued: 11/29/07	D81				
DRUM, DRYING, LOW PRESSURE, V-419, HEIGHT: 20 FT; DIAMETER: 10 FT A/N: 472873 Permit to Construct Issued: 11/29/07	D82				
VESSEL, SURGE, V-423, AVGAS CHARGE, HEIGHT: 19 FT; DIAMETER: 7 FT 7 IN A/N: 472873 Permit to Construct Issued: 11/29/07	D84				
DRUM, DRYING, V-424, RERUN TOWER GAS, HEIGHT: 10 FT; DIAMETER: 3 FT 6 IN A/N: 472873 Permit to Construct Issued: 11/29/07	D85				
KNOCK OUT POT, FLARE, V-431, LENGTH: 13 FT; DIAMETER: 6 FT A/N: 472873 Permit to Construct Issued: 11/29/07	D1271				

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
DRUM, PRESSURE RELIEVING SEAL, V-432, HEIGHT: 43 FT; DIAMETER: 4 FT 4 IN A/N: 472873 Permit to Construct Issued: 11/29/07	D86			HAP: (10) [40CFR 63 Subpart CC, #2,6-23-2003]	
POT, DEETHANIZER WATER DRAIN, V-547, HEIGHT: 6 FT; DIAMETER: 1 FT 6 IN A/N: 472873 Permit to Construct Issued: 11/29/07	D1273				
DRUM, WATER DRAW-OFF, V-675, LENGTH: 4 FT 8 IN; DIAMETER: 4 FT A/N: 472873 Permit to Construct Issued: 11/29/07	D1275				
KNOCK OUT POT, VAPOR RECOVERY, V-676, LENGTH: 4 FT 4 IN; DIAMETER: 2 FT A/N: 472873 Permit to Construct Issued: 11/29/07	D1272				
KNOCK OUT POT, V-1100, NAPHTHA, LENGTH: 12 FT 6 IN; DIAMETER: 3 FT A/N: 472873 Permit to Construct Issued: 11/29/07	D912				
TOWER, DEBUTANIZER, V-1547, HEIGHT: 100 FT 6 IN; DIAMETER: 7 FT A/N: 472873 Permit to Construct Issued: 11/29/07	D1280				

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
COLUMN, DEETHANIZER, V-1548, HEIGHT: 12 FT 6 IN; DIAMETER: 6 FT A/N: 472873 Permit to Construct Issued: 11/29/07	D910				
ACCUMULATOR, V-1549, DEBUTANIZER REFLUX, HEIGHT: 20 FT; DIAMETER: 7 FT A/N: 472873 Permit to Construct Issued: 11/29/07	D913				
KNOCK OUT POT, V-1789, PROPANE/PROPYLENE, HEIGHT: 8 FT 6 IN; DIAMETER: 24 FT A/N: 472873 Permit to Construct Issued: 11/29/07	D909				
COMPRESSOR, RERUN TOWER GAS, C-43/44, 2 TOTAL, 4 CYLINDERS A/N: 472873 Permit to Construct Issued: 11/29/07	D87				
COMPRESSOR, C-142, WET GAS A/N: 472873 Permit to Construct Issued: 11/29/07	D918				H23.4
VESSEL, SEPARATOR, HIGH PRESSURE, V-2343, LENGTH: 22 FT; DIAMETER: 8 FT A/N: 472873 Permit to Construct Issued: 11/29/07	D1597				
VESSEL, SEPARATOR, SOUR WATER FLASH , V-2344, LENGTH: 25 FT; DIAMETER: 8 FT 6 IN A/N: 472873 Permit to Construct Issued: 11/29/07	D1598				

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| <ul style="list-style-type: none"> * (1) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 472873 Permit to Construct Issued: 11/29/07	D1365			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.16
System 2 : FCCU CRACKING SECTION					S13.4, S15.2, S15.3, S15.12
REGENERATOR, V-404, WITH DENOX ADDITIVE, HEIGHT: 42 FT 6 IN; DIAMETER: 42 FT WITH A/N: 470269 † Permit to Construct Issued: 02/07/07	D96	C1575 C1576 C1577	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: 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] ; PM: (9) [RULE 404,2-7-1986;RULE 405,2-7-1986]	A63.7, A99.1, A99.4, A99.5, A195.2, A195.3, A195.4, A195.5, A195.6, A195.8, B61.4, D28.8, D29.1, D82.2, D90.8, H23.32
BLOWER, B-19, COMBUSTION AIR, 4500 HP	D98				
REACTOR, V-405, HEIGHT: 38 FT 9 IN; DIAMETER: 27 FT A/N: 470269 † Permit to Construct Issued: 02/07/07	D97				

- * (1) Denotes RECLAIM emission factor
- (2) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
DRUM, CO-LOWNOX PROMOTER LOADING, V-1355, HEIGHT: 1 FT 8 IN; DIAMETER: 1 FT 6 IN A/N: 470269 † Permit to Construct Issued: 02/07/07	D1288			PM: (9) [RULE 405,2-7-1986]	D323.1
System 3 : FCCU HEATERS					
BOILER, BO-1, CO WASTE HEAT, REFINERY GAS, 300 MMBTU/HR WITH A/N: 470272 † Permit to Construct Issued: 08/03/02 BURNER, REFINERY GAS, BABCOCK WILCOX, WITH STEAM/CONDENSATE INJECTION, WITH LOW NOX BURNER, 6 TOTAL; 300 MMBTU/HR	D112	S51 C1575 C1576 C1577	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, D28.10, D90.7, H23.3, K171.1
STACK, CO BOILER A/N: 470272 † Permit to Construct Issued: 08/03/02	S51	D112 C1575 C1576 C1577			
System 6 : FCCU AIR POLLUTION CONTROL					S42.1
ELECTROSTATIC PRECIPITATOR, #3, SINGLE STAGE, ONE(1) CHAMBER, WITH 8 TRANSFORMER/RECTIFIER SETS, HAMON RESEARCH-COTTREL, 54 KVA WITH A/N: 470273 † Permit to Construct Issued: 04/27/06	C1575	S51 D96 D112 S1105		CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NH3: 10 PPMV (5) [RULE 1105.1,11-7-2003] ; PM: (9) [RULE 404,2-7-1986]	A195.2, C12.2, D29.8, D90.11, D90.12, D90.13, D90.14, D90.15, D323.3, E73.2, E193.2, E193.3, E193.4

- * (1) Denotes RECLAIM emission factor
- (2) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
HOPPER, CATALYST FINES, 4 TOTAL BIN, HOLDING, CATALYST FINES, 1 TOTAL AMMONIA INJECTION, GRID				RULE 405,2-7-1986 ; PM: 0.1 GRAINS/SCF (5C) [RULE 409,8-7-1981] ; PM10: 3.6 LBS/HR (5) [RULE 1105.1,11-7-2003] PM10: 2.8 LBS/1000 BBLS (5A) [RULE 1105.1,11-7-2003]	
ELECTROSTATIC PRECIPITATOR, #4, SINGLE STAGE, ONE(1) CHAMBER, WITH 8 TRANSFORMER/RECTIFIER SETS, HAMON RESEARCH-COTTREL, 54 KVA WITH A/N: 470273 † Permit to Construct Issued: 04/27/06	C1576	S51 D96 D112 S1105		CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NH3: 10 PPMV (5) [RULE 1105.1,11-7-2003] ; PM: (9) [RULE 404,2-7-1986] RULE 405,2-7-1986 ; PM: 0.1 GRAINS/SCF (5C) [RULE 409,8-7-1981] ; PM10: 3.5 LBS/HR (5) [RULE 1105.1,11-7-2003]	A195.2, C12.2, D29.8, D90.11, D90.12, D90.13, D90.14, D90.15, D323.3, E73.2, E193.2, E193.3, E193.4

- * (1) 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) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FLUID CATALYTIC CRACKING (FCCU)					P13.1
BIN, HOLDING, CATALYST FINES, 1 TOTAL					
AMMONIA INJECTION, GRID					
HEAT EXCHANGER, CATALYST FINES A/N: 470273 † Permit to Construct Issued: 04/27/06	D1580				
STACK, BY-PASS A/N: 470273 † Permit to Construct Issued: 04/27/06	S1105	C1575 C1576 C1577			
System 7 : AMMONIA INJECTION					
INJECTOR, AMMONIA INJECTION, (INTO THE FCCU REGENERATOR FLUE GAS) WITH INJECTION NOZZLES, WITH AMMONIA INJECTION A/N: CANCELED	C1124				
Process 4 : HYDROTREATING					P13.1
System 3 : HYDROTREATING UNIT NO. 2					S11.2, S13.4, S15.2, S15.3, S15.13, S31.1
REACTOR, 1ST STAGE MAIN, V-2237, LENGTH: 20 FT 3 IN; DIAMETER: 9 FT 6 IN A/N: 470276 † Permit to Construct Issued: 01/18/02	D1511				

- * (1) 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) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					P13.1
VESSEL, PRETREAT REACTOR, V-2143, LENGTH: 28 FT 6 IN; DIAMETER: 8 FT A/N: 470276 † Permit to Construct Issued: 01/18/02	D1512				
TOWER, STRIPPER, V-2238, HEIGHT: 20 FT 9 IN; DIAMETER: 6 FT 6 IN A/N: 470276 † Permit to Construct Issued: 01/18/02	D1513				
REACTOR, 2ND STAGE MAIN, V-740, HEIGHT: 21 FT 9 IN; DIAMETER: 7 FT 6 IN A/N: 470276 † Permit to Construct Issued: 01/18/02	D123				
VESSEL, HIGH PRESSURE SEPARATOR, V-725, HEIGHT: 20 FT 9 IN; DIAMETER: 6 FT 6 IN A/N: 470276 † Permit to Construct Issued: 01/18/02	D129				
System 7 : FCCU FEED HYDRODESULFURIZATION UNIT NO. 4					S11.2, S13.2, S13.4, S15.2, S15.3, S15.10, S31.1
COLUMN, H2S STRIPPER, V-1755, HEIGHT: 59 FT 6 IN; DIAMETER: 10 FT 6 IN A/N: 470277 † Permit to Construct Issued: 10/15/01	D160				

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| <ul style="list-style-type: none"> * (1) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) Denotes RECLAIM emission rate (4) Denotes BACT emission limit (6) Denotes air toxic control rule limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) (10) See Section J for NESHAP/MACT requirements |
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					P13.1
FRACTIONATOR, V-1757, HEIGHT: 70 FT 6 IN; DIAMETER: 8 FT 6 IN A/N: 470277 † Permit to Construct Issued: 10/15/01	D168				
COLUMN, STRIPPER, V-867, DIESEL, HEIGHT: 22 FT 8 IN; DIAMETER: 3 FT 6 IN A/N: 470277 † Permit to Construct Issued: 10/15/01	D244				
VESSEL, DRIER, V-1374, DIESEL PRODUCT, HEIGHT: 36 FT 6 IN; DIAMETER: 9 FT A/N: 470277 † Permit to Construct Issued: 10/15/01	D3				
ABSORBER, AMINE/COLD HIGH PRESSURE SEPARATOR, V-2231, HEIGHT: 42 FT; DIAMETER: 4 FT 7 IN A/N: 470277 † Permit to Construct Issued: 10/15/01	D164				
DRUM, FLASH, RICH AMINE, V-2234, HEIGHT: 15 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: 470277 † Permit to Construct Issued: 10/15/01	D1503				
System 9 : FUEL GAS TREATING SYSTEM					S13.4, S15.2, S18.4
TOWER, V-598, RECOVERED FLARE GAS WASH, HEIGHT: 69 FT; DIAMETER: 5 FT A/N: 472874 Permit to Construct Issued: 11/29/07	D192				

- * (1) Denotes RECLAIM emission factor
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- (3) Denotes RECLAIM concentration limit
- (4) Denotes BACT emission limit
- (5)(5A)(5B) Denotes command and control emission limit
- (6) Denotes air toxic control rule limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					P13.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 472874 Permit to Construct Issued: 11/29/07	D1380			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.16
Process 5 : CATALYTIC REFORMING					P13.1
System 3 : CATALYTIC REFORMING UNIT NO. 2					S11.2, S13.4, S15.2, S15.3, S31.1
VESSEL, V-2235, SULFUR GUARD BED, HEIGHT: 17 FT; DIAMETER: 6 FT A/N: 470283 † Permit to Construct Issued: 10/15/01	D1501				
TOWER, FEED PREP, V-732, HEIGHT: 87 FT; DIAMETER: 13 FT A/N: 470283 † Permit to Construct Issued: 10/15/01	D1204				
COMPRESSOR, C-73, RECYCLE GAS, CENTRIFUGAL, (VH-504) A/N: 470283 † Permit to Construct Issued: 10/15/01	D209				
ABSORBER, CARBON, V-2277, HYDROGEN CHLORIDE, DIAMETER: 5 FT 6 IN; HEIGHT: 18 FT A/N: 470284 † Permit to Construct Issued: 07/10/02	D1525			HAP: (10) [40CFR 63 Subpart UUU, #1,4-20-2006]	

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| <ul style="list-style-type: none"> * (1) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) 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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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					P13.1
KNOCK OUT POT, RECYCLE GAS CONDENSATE, V-2276; DIAMETER: 3 FT 6 IN; HEIGHT: 8 FT 6 IN A/N: 470284 † Permit to Construct Issued: 07/10/02	D1526				
HEAT EXCHANGER, NET GAS RECYCLE COOLING, E-1858, 2.2 MMBTU/HR DUTY A/N: 470284 † Permit to Construct Issued: 07/10/02	D1527				
System 4 : CATALYTIC REFORMING UNIT NO. 2 HEATERS					
HEATER, H-501A, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 31.4 MMBTU/HR WITH A/N: 470285 † Permit to Construct Issued: 09/06/02 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, D28.11, D90.7, D328.2, E54.2, E54.12, H23.3
HEATER, H-501B, REFINERY GAS, WITH LOW NOX BURNER, AIR PREHEATING, 31.4 MMBTU/HR WITH A/N: 470286 † Permit to Construct Issued: 09/06/02	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]	A63.4, B61.1, D28.11, D90.7, D328.2, E54.2, E54.12, H23.3

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| <ul style="list-style-type: none"> * (1) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B)Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					P13.1
BURNER, SIX BURNERS, JOHN ZINK MODEL NO. LM-116, REFINERY GAS, WITH LOW NOX BURNER, 31.4 MMBTU/HR				PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981]	
Process 8 : HYDROCRACKING					P13.1
System 1 : HYDROCRACKING UNIT					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: 493279 Permit to Construct Issued: 04/10/09	D371				
REACTOR, V-994, HEIGHT: 68 FT 10 IN; DIAMETER: 10 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D372				
REACTOR, V-995, HEIGHT: 74 FT 10 IN; DIAMETER: 8 FT 6 IN A/N: 493279 Permit to Construct Issued: 04/10/09	D373				
DRUM, SURGE, V-996, HEIGHT: 28 FT; DIAMETER: 11 FT 6 IN A/N: 493279 Permit to Construct Issued: 04/10/09	D340				

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| <ul style="list-style-type: none"> * (1) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) Denotes RECLAIM emission rate (4) Denotes BACT emission limit (6) Denotes air toxic control rule limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) (10) See Section J for NESHAP/MACT requirements |
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : HYDROCRACKING					P13.1
VESSEL, SEPARATOR, HIGH PRESSURE, V-997, HEIGHT: 34 FT; DIAMETER: 10 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D341				
VESSEL, SEPARATOR, LOW PRESSURE, V-998, HEIGHT: 26 FT; DIAMETER: 7 FT 6 IN A/N: 493279 Permit to Construct Issued: 04/10/09	D342				
FRACTIONATOR, V-1001, HEIGHT: 144 FT; DIAMETER: 15 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D344				
VESSEL, STRIPPER, V-1002, HEAVY NAPHTHA, HEIGHT: 33 FT 6 IN; DIAMETER: 6 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D345				
VESSEL, STRIPPER, V-1003, MEDIUM NAPHTHA, HEIGHT: 31 FT 6 IN; DIAMETER: 6 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D1259				
ACCUMULATOR, V-1004, FRACTIONATOR REFLUX, LENGTH: 22 FT 6 IN; DIAMETER: 9 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D1260				

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| <ul style="list-style-type: none"> * (1) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : HYDROCRACKING					P13.1
ACCUMULATOR, V-1005, FRACTIONATOR OVERHEAD, LENGTH: 18 FT; DIAMETER: 7 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D346			HAP: (10) [40CFR 63 Subpart CC, #2,6-23-2003]	
ABSORBER, V-1006, LEAN OIL, HEIGHT: 50 FT; DIAMETER: 3 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D374				
COLUMN, DEPROPANIZER, V-1007, HEIGHT: 106 FT; DIAMETER: 7 FT 6 IN A/N: 493279 Permit to Construct Issued: 04/10/09	D347				
DRUM, V-1008, DEPROPANIZER REFLUX, LENGTH: 13 FT 6 IN; DIAMETER: 4 FT 6 IN A/N: 493279 Permit to Construct Issued: 04/10/09	D348				
COLUMN, DEBUTANIZER, V-1009, HEIGHT: 93 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: 493279 Permit to Construct Issued: 04/10/09	D349				
DRUM, V-1010, DEBUTANIZER REFLUX, HEIGHT: 14 FT; DIAMETER: 5 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D350				

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : HYDROCRACKING					P13.1
DRUM, AMINE SCRUBBER FEED,V-2381, HEIGHT: 11 FT; DIAMETER: 4 FT 6 IN A/N: 493279 Permit to Construct Issued: 04/10/09	D1652				
SCRUBBER, V-1011, AMINE, HEIGHT: 51 FT; DIAMETER: 5 FT 6 IN A/N: 493279 Permit to Construct Issued: 04/10/09	D351				
DRUM, FLASH, V-1012, CONDENSATE, LENGTH: 10 FT; DIAMETER: 3 FT 6 IN A/N: 493279 Permit to Construct Issued: 04/10/09	D375				
DRUM, FRACTIONATOR COMPRESSOR SUCTION, V-1695, HEIGHT: 8 FT; DIAMETER: 5 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D352				
POT, V-1025, DEPROPANIZER REBOILER CONDENSATE, LENGTH: 12 FT; DIAMETER: 1 FT 5 IN A/N: 493279 Permit to Construct Issued: 04/10/09	D376				
POT, V-1026, DEBUTANIZER REBOILER CONDENSATE, LENGTH: 12 FT; DIAMETER: 1 FT 5 IN A/N: 493279 Permit to Construct Issued: 04/10/09	D928				

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|---|---|
| <ul style="list-style-type: none"> * (1) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B)Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : HYDROCRACKING					P13.1
VESSEL, SEPARATOR, V-2036, COKER GAS OIL, HEIGHT: 5 FT 2 IN; DIAMETER: 1 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D355				
VESSEL, SEPARATOR, V-1087, FCC GAS OIL SOLIDS, HEIGHT: 5 FT 2 IN; DIAMETER: 1 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D356				
VESSEL, COALESCER, V-1088, FCC GAS OIL, LENGTH: 10 FT; DIAMETER: 3 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D357				
VESSEL, COALESCER, V-1089, COKER GAS OIL, LENGTH: 10 FT; DIAMETER: 3 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D358				
VESSEL, EFFLUENT COALESCER, V-1090, LENGTH: 15 FT; DIAMETER: 5 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D1265				
DRUM, INJECTION, V-1122, DIMETHYL DISULFIDE, LENGTH: 10 FT; DIAMETER: 3 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D359				

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

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : HYDROCRACKING					P13.1
COMPRESSOR, C-93, RECYCLE GAS A/N: 493279 Permit to Construct Issued: 04/10/09	D364				
COMPRESSOR, FRACTIONATOR NO.1 & 2, C-94/95, 2 TOTAL, RECIPROCATING TYPE A/N: 493279 Permit to Construct Issued: 04/10/09	D930				
TOWER, DEA, V-1621, HEIGHT: 37 FT 6 IN; DIAMETER: 3 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D932				
KNOCK OUT POT, V-1622, LIQUID, HEIGHT: 7 FT 3 IN; DIAMETER: 1 FT 2 IN A/N: 493279 Permit to Construct Issued: 04/10/09	D1266				
MIST ELIMINATOR, V-1623, HEIGHT: 9 FT; DIAMETER: 2 FT 6 IN A/N: 493279 Permit to Construct Issued: 04/10/09	D933				
VESSEL, SEPARATOR, MEMBRANE, V-1624-38, 15 TOTAL, HEIGHT: 12 FT 5 IN; DIAMETER: 8 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D934				
COMPRESSOR, C-141, RECIPROCATING TYPE A/N: 493279 Permit to Construct Issued: 04/10/09	D377				H23.4

- * (1) Denotes RECLAIM emission factor
- (2) 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : HYDROCRACKING					P13.1
DRUM, SECOND STAGE CHARGE, V-1965, LENGTH: 10 FT; DIAMETER: 3 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D1340				
KNOCK OUT POT, LIQUID, V-1995, LENGTH: 10 FT; DIAMETER: 3 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D1341				
FILTER, V-1967, STRIPPED WATER, LENGTH: 10 FT; DIAMETER: 3 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D1342				
DRUM, SURGE, V-1966, WASH WATER, HEIGHT: 13 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: 493279 Permit to Construct Issued: 04/10/09	D1530				
DRUM, V-1972, FLASH, FOUL WATER, LENGTH: 10 FT; DIAMETER: 6 FT A/N: 493279 Permit to Construct Issued: 04/10/09	D1531				
COMPRESSOR, HYDROGEN, C-91/92, 2 TOTAL, RECIPROCATING TYPE A/N: 493279 Permit to Construct Issued: 04/10/09	D245				
COMPRESSOR, C-98 A/N: 493279 Permit to Construct Issued: 04/10/09	D102				

- * (1) Denotes RECLAIM emission factor (2) 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

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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
Process 8 : HYDROCRACKING					P13.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 493279 Permit to Construct Issued: 04/10/09	D1454			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.5
Process 12 : TREATING /STRIPPING					P13.1
System 7 : BRINE WATER TREATMENT					S13.5, S15.6, S31.1
DRUM, HEAT TREATING, V-2201, VENT TO ATMOSPHERE, HEIGHT: 20 FT; DIAMETER: 16 FT A/N: 470291 † Permit to Construct Issued: 08/04/00	D1480			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	H23.40
DRUM, HEAT TREATING, V-2202, VENT TO ATMOSPHERE, HEIGHT: 40 FT; DIAMETER: 12 FT A/N: 470291 † Permit to Construct Issued: 08/04/00	D1481			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; 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 † Permit to Construct Issued: 08/04/00	D1482			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	H23.40
VESSEL, CLARIFIER THICKENER, V-2007, HEIGHT: 16 FT; DIAMETER: 30 FT A/N: 470291 † Permit to Construct Issued: 08/04/00	D1483			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	H23.40

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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
Process 12 : TREATING /STRIPPING					P13.1
TANK, CLARIFIER EFFLUENT, TK-43, HEIGHT: 9 FT; DIAMETER: 6 FT A/N: 470291 † Permit to Construct Issued: 08/04/00	D1484			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; 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 † Permit to Construct Issued: 08/04/00	D1485			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	H23.40
Process 15 : STORAGE TANKS					P13.1
System 1 : FIXED ROOF STORAGE TANKS					S13.7
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 † Permit to Construct Issued: 08/04/00	D562			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	C1.23, E336.2, H23.33, H23.40
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 † Permit to Construct Issued: 08/04/00	D563			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	C1.23, E336.2, H23.33, H23.40

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FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
System 3 : PRESSURIZED STORAGE TANKS					S13.6, S15.1, S31.1
STORAGE TANK, SPHERE, 50000 BBL; DIAMETER: 82 FT A/N: 470296 † Permit to Construct Issued: 10/15/01	D1502				
System 5 : DOMED EXTERNAL FLOATING ROOF STORAGE TANKS					S13.9
STORAGE TANK, PONTOON, NO. 125002, ALKYLATE/GASOLINE, 125000 BBL; DIAMETER: 150 FT; HEIGHT: 40 FT WITH A/N: 470298 † Permit to Construct Issued: 10/05/04 DOME COVER, GEODESIC FLOATING ROOF, PONTOON, WELDED SHELL PRIMARY SEAL, CATEGORY A, METALLIC SHOE SECONDARY SEAL, CATEGORY A, WIPER TYPE GUIDEPOLE, GASKETED COVER, UNSLOTTED	D659			BENZENE: (10) [40CFR 61 Subpart FF_01,12-4-2003] ; HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003] ; VOC: 500 PPMV (8) [40CFR 61 Subpart FF,12-4-2003]	C1.36, C6.2, H23.33, K67.9, K171.2

- * (1) Denotes RECLAIM emission factor
- (2) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit
- (4) Denotes BACT emission limit
- (5)(5A)(5B) Denotes command and control emission limit
- (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit
- (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 80210, WITH A MIXER, 80000 BBL; DIAMETER: 120 FT; HEIGHT: 60 FT WITH A/N: 470299 † Permit to Construct Issued: 03/11/05 DOME COVER 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, K171.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 125003, WITH TWO MIXERS, 125000 BBL; DIAMETER: 150 FT; HEIGHT: 40 FT WITH A/N: 470300 † Permit to Construct Issued: 07/22/05 DOME COVER FLOATING ROOF, PONTOON, WELDED SHELL	D660			HAP: (10) [40CFR 63 Subpart CC, #3A,6-23-2003]	H23.40, K67.2, K171.2

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| <ul style="list-style-type: none"> * (1) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) 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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** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : STORAGE TANKS					P13.1
PRIMARY SEAL, CATEGORY A, METALLIC SHOE					
SECONDARY SEAL, CATEGORY A, WIPER TYPE					
System 6 : STORAGE TANKS, OTHERS					
STORAGE TANK, FIXED ROOF, NO. 1000, PERCHLOROETHYLENE, 1000 GALS; DIAMETER: 5 FT 4 IN; HEIGHT: 6 FT A/N: 470301 † Permit to Construct Issued: 02/14/03	D1533				B59.2, C1.34
Process 21 : AIR POLLUTION CONTROL					
System 1 : REFINERY FLARE					S13.4, S18.2
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: 472870 Permit to Construct Issued: 11/29/07	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: 472870 Permit to Construct Issued: 11/29/07	C748				D12.4, D323.2, E193.1, H23.38, I1.1

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

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 21 : AIR POLLUTION CONTROL					
KNOCK OUT POT, V-847, FLARE NO. 2, WITH INTERNAL LIQUID SEAL, LENGTH: 24 FT; DIAMETER: 12 FT A/N: 472870 Permit to Construct Issued: 11/29/07	D752				
KNOCK OUT POT, V-848, FLARE NO. 1, WITH INTERNAL LIQUID SEAL, LENGTH: 24 FT; DIAMETER: 12 FT A/N: 472870 Permit to Construct Issued: 11/29/07	D753				
KNOCK OUT POT, V-616, CRU-HTU NO. 1, LENGTH: 16 FT; DIAMETER: 8 FT A/N: 472870 Permit to Construct Issued: 11/29/07	D750				
KNOCK OUT POT, V-630, CRU-HTU NO. 2, LENGTH: 19 FT; DIAMETER: 6 FT A/N: 472870 Permit to Construct Issued: 11/29/07	D751				
KNOCK OUT POT, V-873, CRU NO. 3, LENGTH: 18 FT; DIAMETER: 9 FT A/N: 472870 Permit to Construct Issued: 11/29/07	D754				
KNOCK OUT POT, V-934, DCU, LENGTH: 25 FT; DIAMETER: 12 FT A/N: 472870 Permit to Construct Issued: 11/29/07	D755				

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| <ul style="list-style-type: none"> * (1) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) 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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** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 21 : AIR POLLUTION CONTROL					
KNOCK OUT POT, V-951, HGU NO. 1, LENGTH: 40 FT; DIAMETER: 10 FT A/N: 472870 Permit to Construct Issued: 11/29/07	D756				
KNOCK OUT POT, V-1018, HCU, LENGTH: 29 FT; DIAMETER: 14 FT 6 IN A/N: 472870 Permit to Construct Issued: 11/29/07	D757				
KNOCK OUT POT, V-1431, ALKYLATION UNIT, LENGTH: 35 FT; DIAMETER: 11 FT A/N: 472870 Permit to Construct Issued: 11/29/07	D758				
KNOCK OUT POT, V-1472, HTU NO. 3, LENGTH: 23 FT 8 IN; DIAMETER: 9 FT 3 IN A/N: 472870 Permit to Construct Issued: 11/29/07	D759				
KNOCK OUT POT, V-1764, HTU-4, HEIGHT: 36 FT; DIAMETER: 13 FT A/N: 472870 Permit to Construct Issued: 11/29/07	D172				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 472870 Permit to Construct Issued: 11/29/07	D1419			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.5

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| <ul style="list-style-type: none"> * (1) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) 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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** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 21 : AIR POLLUTION CONTROL					
System 4 : FLARE GAS RECOVERY SYSTEM					S13.4, S15.2, S15.3, S15.11, S18.6, S31.2
COMPRESSOR, C-167, LIQUID RING TYPE, DUAL SEALS WITH BARRIER FLUID SYSTEM, 60 MSCFH CAPACITY A/N: 494382 Permit to Construct Issued: 04/10/09	D1600				E73.3, H23.39
COMPRESSOR, C-168, LIQUID RING TYPE, DUAL SEALS WITH BARRIER FLUID SYSTEM, 60 MSCFH CAPACITY A/N: 494382 Permit to Construct Issued: 04/10/09	D1601				E73.3, H23.39
COMPRESSOR, C-169, LIQUID RING TYPE, DUAL SEALS WITH BARRIER FLUID SYSTEM, 60 MSCFH CAPACITY A/N: 494382 Permit to Construct Issued: 04/10/09	D1602				E73.3, H23.39
COMPRESSOR, C-170, LIQUID RING TYPE, DUAL SEALS WITH BARRIER FLUID SYSTEM, 60 MSCFH CAPACITY A/N: 494382 Permit to Construct Issued: 04/10/09	D1603				E73.3, H23.39
COMPRESSOR, C-171, LIQUID RING TYPE, DUAL SEALS WITH BARRIER FLUID SYSTEM, 60 MSCFH CAPACITY A/N: 494382 Permit to Construct Issued: 04/10/09	D1604				E73.3, H23.39

- * (1) 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) 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.

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 21 : AIR POLLUTION CONTROL					
VESSEL, COMPRESSOR LIQUID SEPARATOR, V-2358, HEIGHT: 20 FT; DIAMETER: 6 FT A/N: 494382 Permit to Construct Issued: 04/10/09	D1605				
VESSEL, COMPRESSOR LIQUID SEPARATOR, V-2359, HEIGHT: 20 FT; DIAMETER: 6 FT A/N: 494382 Permit to Construct Issued: 04/10/09	D1606				
KNOCK OUT POT, V-2360, HEIGHT: 4 FT; DIAMETER: 1 FT 6 IN A/N: 494382 Permit to Construct Issued: 04/10/09	D1607				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 494382 Permit to Construct Issued: 04/10/09	D1608			HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23.39

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|--|---|
| <ul style="list-style-type: none"> * (1) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) 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.

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

**FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO**

SECTION H: DEVICE ID INDEX

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
D3	23	4	7
D9	1	1	3
D10	2	2	1
D11	2	2	1
D15	3	2	1
D16	3	2	1
D17	4	2	1
D18	4	2	1
D19	8	2	1
D20	4	2	1
D24	5	2	1
D25	5	2	1
D26	5	2	1
D27	6	2	1
D28	6	2	1
D29	6	2	1
D30	6	2	1
D31	7	2	1
D34	10	2	8
D41	11	2	8
D45	11	2	8
D46	11	2	8
D47	11	2	8
D49	11	2	8
S51	18	3	3
D53	8	2	6
D63	8	2	6
D65	8	2	6
D68	9	2	6
D78	13	3	1
D79	13	3	1
D80	14	3	1
D81	14	3	1
D82	14	3	1
D84	14	3	1
D85	14	3	1

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
D86	15	3	1
D87	16	3	1
D96	17	3	2
D97	17	3	2
D98	17	3	2
D102	32	8	1
D112	18	3	3
D123	22	4	3
D129	22	4	3
D160	22	4	7
D164	23	4	7
D168	23	4	7
D172	39	21	1
D192	23	4	9
D209	24	5	3
D216	25	5	4
D217	25	5	4
D244	23	4	7
D245	32	8	1
D340	26	8	1
D341	27	8	1
D342	27	8	1
D344	27	8	1
D345	27	8	1
D346	28	8	1
D347	28	8	1
D348	28	8	1
D349	28	8	1
D350	28	8	1
D351	29	8	1
D352	29	8	1
D355	30	8	1
D356	30	8	1
D357	30	8	1
D358	30	8	1
D359	30	8	1

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
D364	31	8	1
D371	26	8	1
D372	26	8	1
D373	26	8	1
D374	28	8	1
D375	29	8	1
D376	29	8	1
D377	31	8	1
D562	34	15	1
D563	34	15	1
D649	36	15	5
D659	35	15	5
D660	36	15	5
C747	37	21	1
C748	37	21	1
D750	38	21	1
D751	38	21	1
D752	38	21	1
D753	38	21	1
D754	38	21	1
D755	38	21	1
D756	39	21	1
D757	39	21	1
D758	39	21	1
D759	39	21	1
D900	5	2	1
D901	7	2	1
D904	7	2	1
D906	5	2	1
D908	13	3	1
D909	16	3	1
D910	16	3	1
D912	15	3	1
D913	16	3	1
D915	13	3	1
D918	16	3	1

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
D928	29	8	1
D930	31	8	1
D932	31	8	1
D933	31	8	1
D934	31	8	1
D969	7	2	1
D1088	6	2	1
S1105	21	3	6
C1124	21	3	7
D1132	2	2	1
D1133	2	2	1
D1134	2	2	1
D1135	3	2	1
D1136	3	2	1
D1137	3	2	1
D1141	3	2	1
D1143	4	2	1
D1145	4	2	1
D1147	5	2	1
D1149	6	2	1
D1151	7	2	1
D1152	8	2	6
D1155	9	2	8
D1156	10	2	8
D1157	10	2	8
D1158	10	2	8
D1159	10	2	8
D1160	9	2	8
D1161	12	2	8
D1162	12	2	8
D1164	12	2	8
D1165	12	2	8
D1204	24	5	3
D1259	27	8	1
D1260	27	8	1
D1265	30	8	1

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
D1266	31	8	1
D1267	13	3	1
D1268	13	3	1
D1269	13	3	1
D1271	14	3	1
D1272	15	3	1
D1273	15	3	1
D1275	15	3	1
D1280	15	3	1
D1288	18	3	2
D1340	32	8	1
D1341	32	8	1
D1342	32	8	1
D1350	9	2	6
D1357	8	2	1
D1361	9	2	6
D1365	17	3	1
D1380	24	4	9
D1419	39	21	1
D1438	9	2	8
D1454	33	8	1
D1478	1	1	4
D1479	1	1	4
D1480	33	12	7
D1481	33	12	7
D1482	33	12	7
D1483	33	12	7
D1484	34	12	7
D1485	34	12	7
D1501	24	5	3
D1502	35	15	3
D1503	23	4	7
D1511	21	4	3
D1512	22	4	3
D1513	22	4	3
D1525	24	5	3

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
D1526	25	5	3
D1527	25	5	3
D1530	32	8	1
D1531	32	8	1
D1533	37	15	6
D1567	7	2	1
C1575	18	3	6
C1576	19	3	6
C1577	20	3	6
D1580	21	3	6
D1597	16	3	1
D1598	16	3	1
D1600	40	21	4
D1601	40	21	4
D1602	40	21	4
D1603	40	21	4
D1604	40	21	4
D1605	41	21	4
D1606	41	21	4
D1607	41	21	4
D1608	41	21	4
B1616	7	2	1
D1652	29	8	1

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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.

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

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

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

TABLE 1

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

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

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

- 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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

40CFR79
40CFR80
California Code of Regulations, Title 13, Division 3, Chapter 5

[40CFR 79, 7-1-1999; 40CFR 80, 7-1-1999; CCR Title 13, 9-24-1999]

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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.

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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.

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- 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]

[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; Process 5, System 3]

- 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 8, System 1]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

[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 , 4; Process 12, System 5 , 8; Process 19, System 3; Process 21, System 1 , 2 , 3 , 4]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

Contaminant	Rule	Rule/Subpart
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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

All emergency vent gases shall be directed to a 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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

S15.3 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).

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

S15.6 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, 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.

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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]

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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:

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

Crude Distillation 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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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:

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- 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:

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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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:

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.

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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 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 12, System 7; Process 15, System 3; Process 23, System 1]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

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 GGG.

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.

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.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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]

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

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).

- a. Award contract(s) to construct and install the control technology by April 28, 2006.
- b. 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.
- c. Start operation of the control technology permitted to ensure compliance with Rule 1105.1 (d)(1) by April 30, 2007.
- d. 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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A. Emission Limits

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

CONTAMINANT	EMISSIONS LIMIT
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 NOx and SOx 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, D216, D217]

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 : D34, D41, D45, D46, D47, D49, D1155, D1156, D1157, D1158, D1159, D1160, D1161, D1162, D1164, D1165, D1438]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A63.7 The operator shall limit emissions from this equipment as follows:

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

[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.

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

[Devices subject to this condition : D9]

A99.1 The 2 lbs/ton PM emission limit(s) shall not apply before 12/31/2006.

[CONSENT DECREE, 3-21-2001]

[Devices subject to this condition : D96]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- A99.4 The 3.6 Lbs/hr PM10 emission limit(s) shall only apply when the fresh feed to the FCCU is 30.9 thousand barrels per day or less.

For the purposes of this condition, PM10 emissions shall be defined as filterable PM10 collected on the cyclone exit, probe and filters of the applicable test methods referenced in the Rule.

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

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : D96]

- A99.5 The 2.8 lb/1000 bbl fresh feed PM10 emission limit(s) shall only apply when the fresh feed to the FCCU is 30.9 thousand barrels per day or more.

For the purposes of this condition, PM10 Emissions shall be defined as filterable PM10 collected on the cyclone exit, probe and filters of the applicable test methods referenced in the Rule..

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

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : D96]

- A195.2 The 10 PPMV NH3 emission limit(s) is averaged over consecutive 60 minutes at 3 percent O2 dry.

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : D96, C1575, C1576, C1577]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A195.3 The 51.9 PPMV NOX emission limit(s) is averaged over 365-day rolling and at 0% O₂.

For the purposes of this condition, this limit is a long term limit which applies at all times including during start-up, shutdown, malfunction and hydrotreater outages as well as operation of the FCCU with or without the CO Boiler operating..

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

[Devices subject to this condition : D96]

A195.4 The 36.2 PPMV SOX emission limit(s) is averaged over 365-day rolling at 0% O₂.

For the purposes of this condition, this limit is a long term limit which applies at all times including during start-up, shutdown, malfunction and hydrotreater outages as well as operation of the FCCU with or without the CO Boiler operating.

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

[Devices subject to this condition : D96]

A195.5 The 63.2 PPMV NOX emission limit(s) is averaged over 24-hour rolling at 0% O₂.

For the purposes of this condition, this limit shall apply when the FCCU and CO boiler are operating and does not apply during periods of start-up, shutdown, malfunction and hydrotreater outages.

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

[Devices subject to this condition : D96]

A195.6 The 88.6 PPMV NOX emission limit(s) is averaged over 24-hour rolling at 0% O₂.

For the purposes of this condition, this limit shall apply when only the FCCU is operating and does not apply during periods of start-up, shutdown, malfunction and hydrotreater outages.

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

[Devices subject to this condition : D96]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A195.8 The 69.1 PPMV SOX emission limit(s) is averaged over 7-day rolling at 0% O₂.

For the purposes of this condition, this limit shall apply when only the FCCU is operating and does not apply during periods of start-up, shutdown, malfunction and hydrotreater outages.

[CONSENT DECREE, 3-21-2001]

[Devices subject to this condition : D96]

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.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D9]

B. Material/Fuel Type Limits

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

Compound	ppm by volume
H2S greater than	160

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

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

[Devices subject to this condition : D9, D112, D216, D217]

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]

C. Throughput or Operating Parameter Limits

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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]

[Devices subject to this condition : D1533]

C1.36 The operator shall limit the throughput to no more than 350,000 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 : D659]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

C1.41 The operator shall limit the throughput to no more than 400,000 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 : D649]

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

The operator shall use 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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- C12.2 The operator shall use this equipment in such a manner that the ESP daily average voltage and secondary current (or total power input) being monitored as indicated below are greater than or equal to the average value in the most recent source test which demonstrated compliance with the emission limits.

The operator shall install and maintain a continuous monitoring and recording system to accurately measure and record the:

1. Total flue gas inlet temperature to ESPs
2. Total flue gas flow rate
3. Current across each ESP
4. Voltage across each ESP

at each ESP. In addition, the operator shall keep records, in a manner approved by the District, for each of these parameters.

If the daily average ESP total power input falls below the level measured in the most recent source test which demonstrated compliance with the emission limit, a source test shall be performed within 90 days at the new minimum daily average ESP total power level. The source test shall be performed according to the requirements specified in Permit Condition D29.8

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : C1575, C1576, C1577]

D. Monitoring/Testing Requirements

- 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

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

[Devices subject to this condition : C747, C748]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

The test shall be conducted to confirm the emission limits of this equipment as specified in Condition 63.

The test shall be conducted to determine and report the mass emission rate in pound per hour for NO_x, SO_x, ROG 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 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]

D28.8 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine emission rate of NO_x, SO_x, ROG, CO, PM and PM10. The operator shall submit a test protocol to the District at least 60 days prior to the initial testing. The initial and annual test shall be conducted according to the approved test protocol or any subsequently approved revisions. The 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 test shall be conducted after catalyst additive optimization tests are completed, and during the 12-month demonstration phase of the catalyst testing program.

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

[Devices subject to this condition : D96]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D28.10 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted before and after the boiler burner modification have been completed. The post-modification source test shall be conducted within 210 days of initial startup.

The test shall be conducted to determine emission rate of NO_x, SO_x, ROG and CO.

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

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

[Devices subject to this condition : D112]

D28.11 The operator shall conduct source test(s) in accordance with the following specifications:

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

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 determine and report the mass emission rate in pound per hour for NO_x, SO_x, ROG and CO.

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 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 : D216, D217]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

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

The test(s) shall be conducted at least 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

This condition shall become effective when the initial Title V permit is issued to the facility.

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D29.8 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
PM10 emissions	District Method 5.2 Modified with EPA Method 201A Cyclone (filterables compliance, condensables information)	District-approved averaging time	Combined Stack Outlet of the ESP's
PM10 emissions	District Method 5.2 (filterables compliance, condensables information)	District-approved averaging time	Combined Stack Outlet of the ESP's
PM10 emissions	District Method 5.2 with Previously Determined PM10 to PM Ratio Applied (filterables compliance, condensables information)	District-approved averaging time	Combined Stack Outlet of the ESP's
PM10 emissions	EPA Method 5 (filterables compliance) and District Method 5.2 (condensables information)	District-approved averaging time	Combined Stack Outlet of the ESP's
NH3 emissions	District method 207.1	1 hour	Combined Stack Outlet of the ESP's
NOX emissions	District method 100.1	1 hour	Combined Stack Outlet of the ESP's
CO emissions	District Method 100.1 or 10.1	1 hour	Combined Stack Outlet of the ESP's
VOC	District Method 25.1 or 25.3	1 hour	Combined Stack Outlet of the ESP's

The operator shall choose any of the PM10 test methods as indicated above to comply with Rule 1105.1 requirements and the test results of any of the selected test methods shall be used to determine compliance with Rules 404 and 405.

For the purpose of this condition filterable PM10 is the PM10 collected on the cyclone exit, probe, and

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

filter(s) of the applicable test methods referenced above. Condensable PM10 is the PM10 collected in the impingers of the applicable test methods referenced above

The test shall be conducted after AQMD approval of the source test protocol, but no later than 180 days after initial start-up of the new ESP's. The AQMD engineer shall be notified in writing of the date and time of the test at least 10 days prior to the test.

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 FCCU during the test, the identity of the test lab, a statement from the testing lab certifying that it meets the criteria of R-304, and a description of all sampling and analytical procedures.

The test shall be conducted at two different throughput ranges. The 1st throughput range when the FCCU is operating at 30.9 thousand barrels a day or less. The 2nd throughput range when the FCCU is operating at 30.9 thousand barrels per day or more.

The test(s) shall be conducted at least every year with the two different ranges after initial source test(s).

Source test results shall include the following parameters: FCCU feed rate in BPD; catalyst recirculation rate in BPD; catalyst inventory in the equipment; fresh catalyst feed; 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; ammonia injection rate prior to the ESPs(if applicable) and the average current in amps , voltage in volts and spark rate at each ESP field in use

A source test report shall be submitted to the District no later than 60 days after the source test was completed

[RULE 1105.1, 11-7-2003; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 404, 2-7-1986; RULE 405, 2-7-1986]

[Devices subject to this condition : C1575, C1576, C1577]

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- D90.7 The operator shall continuously monitor the H₂S 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 H₂S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H₂S in the fuel gas being burned in this device.

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

[Devices subject to this condition : D9, D112, D216, D217]

- 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 H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D90.11 The operator shall continuously monitor the temperature in degree F of the flue gas at the inlet to the ESP according to the following specifications:

The operator shall monitor once every 15 minutes.

The operator shall automatically record electronically the above parameter at least one measurement every hour. These records shall be maintained for at least five years and made available to AQMD personnel upon request

The continuous monitor shall be installed and operated whenever the ESP is operating

Monitoring and recording of this parameter shall not be required during periods of routine maintenance or malfunction of the monitoring and recording devices

The temperature monitor shall have a minimum range from 500 to 710 degrees F and be accurate to within plus or minus 5 percent and shall be calibrated at least once every 12 months

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : C1575, C1576, C1577]

D90.12 The operator shall continuously monitor the the flow rate in scfm of the flue gas at the inlet to the ESP according to the following specifications:

The operator shall monitor once every 15 minutes.

The operator shall automatically record electronically the above parameter at least one measurement every hour. These records shall be maintained for at least five years and made available to AQMD personnel upon request

The continuous monitor shall be installed and operated whenever the ESP is operating

Monitoring and recording of this parameter shall not be required during periods of routine maintenance or malfunction of the monitoring and recording devices

The flow rate monitor shall have a minimum range of 55,000 to 75,000 scfm and be accurate to within plus or minus 5 percent and shall be calibrated at least once every 12 months

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : C1575, C1576, C1577]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D90.13 The operator shall continuously monitor the voltage in volts across the ESP's T/R sets according to the following specifications:

The operator shall monitor once every 15 minutes.

The operator shall automatically record electronically the above parameter at least one measurement every hour. These records shall be maintained for at least five years and made available to AQMD personnel upon request

The continuous monitor shall be installed and operated whenever the ESP is operating

Monitoring and recording of this parameter shall not be required during periods of routine maintenance or malfunction of the monitoring and recording devices

The voltage monitor shall have a minimum range of 15 to 54 KV and be accurate to within plus or minus 5 percent and shall be calibrated at least once every 12 months

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : C1575, C1576, C1577]

D90.14 The operator shall continuously monitor the current in amperes across the ESP's T/R sets according to the following specifications:

The operator shall monitor once every 15 minutes.

The operator shall automatically record electronically the above parameter at least one measurement every hour. These records shall be maintained for at least five years and made available to AQMD personnel upon request

The continuous monitor shall be installed and operated whenever the ESP is operating

Monitoring and recording of this parameter shall not be required during periods of routine maintenance or malfunction of the monitoring and recording devices

The current monitor shall have a minimum range of 400 to 1867 Amps and be accurate to within plus or minus 5 percent and shall be calibrated at least once every 12 months

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : C1575, C1576, C1577]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D90.15 The operator shall continuously monitor the the NH₃ injection rate in scfh at the ESP inlet according to the following specifications:

The operator shall monitor once every 15 minutes.

The operator shall automatically record electronically the above parameter at least one measurement every hour. These records shall be maintained for at least five years and made available to AQMD personnel upon request

The continuous monitor shall be installed and operated whenever the ESP is operating

Monitoring and recording of this parameter shall not be required during periods of routine maintenance or malfunction of the monitoring and recording devices

The NH₃ injection rate monitor shall have a minimum range of 0 to 300 scfh and be accurate to within plus or minus 5 percent and shall be calibrated at least once every 12 months

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : C1575, C1576, C1577]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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.

This condition shall become effective when the initial Title V permit is issued to the facility.

[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 : D649]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

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

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

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

This condition shall become effective when the initial Title V permit is issued to the facility.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

[Devices subject to this condition : D34, D41, D45, D46, D47, D49, D1155, D1156, D1157, D1158, D1159, D1160, D1161, D1162, D1164, D1165, D1288, D1438]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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.

This condition shall become effective when the initial Title V permit is issued to the facility.

[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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D323.3 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 monthly basis, at least, unless the equipment did not operate during the entire monthly period. The routine monthly 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

[Devices subject to this condition : C1575, C1576, C1577]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

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

[Devices subject to this condition : D9]

- 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.

This condition shall become effective when the initial Title V permit is issued to the facility.

[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 : D216, D217]

E. Equipment Operation/Construction Requirements

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- E54.2 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C773 [SELECTIVE CATALYTIC REDUCTION SYSTEM]

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 : D216, D217]

- E54.12 The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

Device ID: C773 [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 : D216, D217]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- E73.2 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 filterable PM10 emissions to the atmosphere are: 3.6 lbs/hr when the feed rate to the FCCU is equal to or lower than 30.9 thousand barrels per day and 2.8 lbs per 1000 bbl fresh feed when the feed rate is greater than 30.9 thousand barrels per day

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : C1575, C1576, C1577]

- E73.3 Notwithstanding the requirements of Section E conditions, the operator is not required to use more than one flare gas recovery compressor if:

The load on the flare gas recovery system is not sufficient to require more than one flare gas recovery compressor to be online

[RULE 1118, 11-4-2005]

[Devices subject to this condition : D1600, D1601, D1602, D1603, D1604]

- 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, 4-9-1993]

[Devices subject to this condition : C747, C748]

- E193.2 The operator shall construct, operate, and maintain this equipment according to the following specifications:

The operator shall comply with all mitigations measures stipulated by the AQMD Certified Negative Declaration dated April 27, 2006

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : C1575, C1576, C1577]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

E193.3 The operator shall operate and maintain this equipment as follows:

Whenever the ESP system (Devices C1575, C1576 and C1577) is in operation and venting the FCCU Regenerator Catalyst fine exhaust, the operator shall maintain in operation a minimum of 2 of 3 ESP units , each with a minimum of 7 of 8 active transformer/rectifier sets.

The operator shall not operate the FCCU if emissions from the FCCU to the atmosphere exceed the following limits for filterable PM10: 3.6 lbs/hr when the fresh feed to the FCCU is equal to or less than 30.9 thousand barrels per day, and 2.8 lbs per 1000 bbl fresh feed when the feed rate is greater than 30.9 thousand barrels per day.

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : C1575, C1576, C1577]

E193.4 The operator shall operate and maintain this equipment according to the following requirements:

The operator shall discharge dust collected in the ESP's only into leak-free hoppers or closed container bins equipped with fabric sock filters. The dust from these hoppers shall be loaded into vacuum trucks which are leak-free.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

[Devices subject to this condition : C1575, C1576, C1577]

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]

[Devices subject to this condition : D562, D563, D1567]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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]

H. Applicable Rules

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, D112, D216, D217]

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, D377, D901, D918]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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 : D1357, D1361, D1419, D1454]

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

[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; 40CFR 60 Subpart GGG, 6-2-2008]

[Devices subject to this condition : D1143, D1365, D1380, D1567]

H23.32 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
CO	40CFR60, SUBPART	J
PM	40CFR60, SUBPART	J
Visible Emissions	40CFR60, SUBPART	J

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

[Devices subject to this condition : D96]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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 : D562, D563, D659]

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]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

H23.39 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	GGGa

[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; 40CFR 60 Subpart GGGa, 6-2-2008]

[Devices subject to this condition : D1600, D1601, D1602, D1603, D1604, D1608]

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]

[Devices subject to this condition : D562, D563, D660, D1480, D1481, D1482, D1483, D1484, D1485]

I. Administrative

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- I1.1 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]

- 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 prorated annual emissions increase for the first compliance year 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 first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : D9]

K. Record Keeping/Reporting

- K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Throughput and vapor pressure of stored liquid.

This condition shall become effective when the initial Title V permit is issued to the facility.

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

[Devices subject to this condition : D649, D660]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

This condition shall become effective when the initial Title V permit is issued to the facility.

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

[Devices subject to this condition : D659]

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

A test protocol shall be submitted to the District at least 30 days prior to the testing, and the test to be conducted according to the approved test protocol or any subsequently approved revisions.

Report of the pre-and post-modification tests and operating condition of the equipment shall be submitted to the District within 60 days after the post-modification test is completed.

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

[Devices subject to this condition : D112]

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 : D649, D659, D660]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION I: PLANS AND SCHEDULES

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

- a. The operator does not have to comply with NO_x or SO_x emission limits from rules identified in Table 1 or Table 2 of Rule 2001(j) which become effective after December 31, 1993.
- b. The operator does not have to comply with NO_x or SO_x emission limits from rules identified in Table 1 or Table 2 of Rule 2001(j) after the facility has received final certification of all monitoring and reporting requirements specified in Section F and Section G.

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

List of approved plans:

Application	Rule
474582	2002
476506	1173

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION J: AIR TOXICS [40CFR 61 Subpart FF_01 12-4-2003]

BENZENE WASTE OPERATIONS FROM PETROLEUM REFINERIES – “6BQ” COMPLIANCE OPTION

1. The operator shall comply with all applicable requirements of 40CFR61 Subpart FF including those requirements of 40CFR61 Subpart A.
2. The operator shall comply with treatment standards specified in §61.342(e) of 40CFR61 Subpart FF for 6 Mg/yr (6.6 tons/yr) benzene quantity (6 BQ) limit as follows:
 - a. §61.342(e)(1): The operator shall manage and treat all waste streams, with a flow-weighted annual average water content of less than 10 percent, in accordance with the requirements specified in §61.342(c)(1).
 - b. §61.342(e)(2): The operator shall manage and treat all waste streams (including remediation and process turnaround waste), with a flow-weighted annual average water content of 10 percent or greater, in such a manner that the total quantity of benzene in the treated and untreated aqueous waste streams is less than 6.0 Mg/yr. The benzene in each waste stream shall be quantified in accordance with §61.355(k).
3. For each stream that is treated to comply with §61.342(e)(1) or §61.342(e)(2), the operator shall comply with the treatment process standard specified in Section 61.348.
4. For waste management units, which are used to handle or treat waste streams that are treated as specified in §61.348 and/or recycled to a process, the operator shall comply with the following standards:
 - a. Tanks standards. *{61.343}*
 - b. Surface impoundments standards. *{61.344}*
 - c. Containers standards. *{61.345}*
 - d. Individual drain system standards. *{61.346}*
 - e. Oil-water separator standards. *{61.347}*
5. For each closed vent system and control device used to comply with standards in accordance with §61.343 through §61.348, the operator shall comply with the requirements of §61.349.
6. The operator shall comply with monitoring and associated recording requirements in §61.354.
7. The operator shall comply with applicable test methods and procedures in §61.355 for determining the total annual benzene quantity from facility waste.

FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO

SECTION J: AIR TOXICS
[40CFR 61 Subpart FF_01 12-4-2003]

8. The operator shall comply with reporting requirements in §61.357 and recordkeeping requirements in §61.356.
9. The operator shall comply with 40CFR63 Subpart CC requirements, which references to 40CFR61 Subpart FF for equipment subject to 40CFR60 Subpart QQQ or 40CFR63 Subpart CC. *{40CFR63 Subpart CC, Section 63.640(o)(1)}*

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION J: AIR TOXICS [40CFR 63 Subpart CC, #1 6-23-2003]

HAZARDOUS AIR POLLUTANTS FROM PETROLEUM REFINERIES - GROUP 1 EMISSION POINT (GROUP 1 MISCELLANEOUS PROCESS VENT - EXISTING/NEW SOURCE)

1. The operator shall comply with all applicable requirements of 40CFR63 Subpart CC including those requirements of 40CFR63 Subpart A specified in Table 6 of 40CFR63 Subpart CC.
2. The operator shall comply with the following control, monitoring, recordkeeping and reporting requirements:
 - a. Control Requirements: The operator shall reduce the organic hazardous air pollutants by 98% or to 20 parts per million by volume as specified in 40CFR63 Subpart CC, Section 63.643.
 - b. Monitoring Requirements:
 - The operator shall monitor the temperature in accordance with 40CFR63 Subpart CC, Section 63.644(a)(1) when an incinerator is used.
 - The operator shall monitor the presence of a pilot flame in accordance with 40CFR63 Subpart CC, Section 63.644(a)(2) when a flare is used.
 - c. Exemption from Monitoring Requirements: The operator is exempt from temperature monitoring requirements when a heater/boiler is used with the vent stream introduced into the flame zone of the heater/boiler as per 40CFR63 Subpart CC, Section 63.644(a)(3).
 - d. Recordkeeping and Reporting Requirements: The operator shall comply with applicable reporting and recordkeeping requirements of 40CFR63 Subpart CC, Section 63.654.

FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO

SECTION J: AIR TOXICS
[40CFR 63 Subpart CC, #2 6-23-2003]

HAZARDOUS AIR POLLUTANTS FROM PETROLEUM REFINERIES - GROUP 2
EMISSION POINTS (MISCELLANEOUS PROCESS VENT, STORAGE VESSEL, AND
WASTEWATER STREAM)

1. The operator shall make the determination for Group 2 emission point in accordance with the following regulations:

Emissions Point	Section	Group 2 Determination Criteria
Miscellaneous process vent	63.645(h)	Total organic compounds emission rate
Storage tank	63.654(i)(1)(iv)	Weight percent of total organic HAP
Wastewater stream	61.342(c)(2) or (c)(3)	Total annual benzene quantity

Record of any data, assumptions, and procedures used to make this determination shall be retained for five years.

2. The operator shall not reclassify a Group 2 emission point to a Group 1 emission point without first obtaining a valid permit from the AQMD.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION J: AIR TOXICS [40CFR 63 Subpart CC, #3A 6-23-2003]

HAZARDOUS AIR POLLUTANTS FROM PETROLEUM REFINERIES - GROUP 1
 EMISSION POINT (GROUP 1 STORAGE TANK - EXISTING SOURCE)

1. The operator shall comply with all applicable requirements of 40CFR63 Subparts CC including those requirements of 40CFR63 Subpart A specified in Table 6 of 40CFR63 Subpart CC.
2. The operator shall comply with applicable requirements of 40CFR63 Subpart CC by the following applicable compliance date:
 - August 18, 1998, for fixed roof storage tank. *{63.640(h)}*
 - August 18, 2005, or at the first degassing and cleaning activity after 8/18/1998, whichever is first, for floating roof storage tank. *{63.640(h)(4)}*
3. The operator shall comply with applicable control, monitoring, inspection, and recordkeeping requirements of 40CFR63 Subpart CC, which references to 40CFR63 Subpart G as follows:

40CFR63 Subpart CC	40CFR63 Subpart G
63.646(a)	<u>Control requirements:</u> <ol style="list-style-type: none"> a. Internal Floating Roof storage tanks shall be equipped with proper seals. <i>{63.119(b)(1) to (b)(4)}</i> b. External Floating Roof storage tank shall be equipped with proper seals. <i>{63.119(c)(1), (c)(3) & (c)(4)}</i> c. External Floating Roof converted to an Internal Floating Roof shall be equipped with proper seals. <i>{63.119(d)(1)}</i> d. Fixed roof storage tank shall be vented to a control system to reduce organic hazardous air pollutants emissions by 95%. <i>{63.119(e)(1) to (e)(5)}</i>

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**SECTION J: AIR TOXICS
 [40CFR 63 Subpart CC, #3A 6-23-2003]**

63.646(e)	<p><u>Testing and inspection requirements:</u></p> <p>a. Internal Floating Roof storage tank, single seal: Roof & seal shall be visually inspected yearly through manholes & roof hatches and Roof & seal shall be visually inspected when emptying/degassing the tank and at least every 10 years. {63.120(a)(2)(i) & (ii)}</p> <p>b. Internal Floating Roof storage tank, double seals:</p> <ul style="list-style-type: none"> • Roof & both seals shall be visually inspected when emptying/degassing and at least every 5 years {63.120(a)(3)(i)}, or • Roof & secondary seal shall be visually inspected yearly through manholes and roof hatches and <p>Roof & both seals shall be visually inspected when emptying/degassing and at least every 10 years. {63.120(a)(3)(ii) & (iii)}</p> <p>c. External Floating Roof storage tank, single seal: Gaps between vessel wall and primary seal shall be measured until the secondary seal is installed. {63.120(b)(1)(ii)}</p> <p>d. External Floating Roof, double seals:</p> <ul style="list-style-type: none"> • Gaps between vessel wall and primary seal shall be measured every 5 years during hydrostatic testing, {63.120(b)(1)(i)} • Gap between wall and secondary seal shall be measured yearly {63.120(b)(1)(iii)}, and <p>Roof, both seals & fittings shall be visually inspected when emptying/degassing (non specified frequency). {63.120(b)(10)}</p> <p>e. Fixed Roof Vent to Control System: Control system shall be tested one time for control efficiency demonstration and closed vent system shall be inspected annually. {63.120(d)(1) & (6)}</p>
63.654(i)(1)(i)	<p>The operator shall comply with recordkeeping requirements in Section 63.123.</p>

FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO

SECTION J: AIR TOXICS
[40CFR 63 Subpart CC, #3A 6-23-2003]

4. The operator shall comply with the reporting requirements specified in 40CFR63 Subpart CC, Section 63.654(e), (f) & (g).
5. The operator shall comply with other requirements specified in 40CFR63 Subpart CC, Section 63.646(f) as follows:
 - a. Cover or lid on an opening on a floating roof,
 - b. Rim space vents to be set when the roof is not floating or the pressure beneath the rim seal exceeds the manufacturer's recommended setting, and
 - c. Close automatic bleeder vents except when the roof is being floated off or is being landed on the roof leg supports.
6. The operator is exempt from deck fitting requirements; inspection; and recordkeeping requirements for gaskets, slotted membranes, and sleeve seals for existing floating roof storage tank as specified in 40CFR63 Subpart CC, Sections 63.646(c), 63.646(e), and 63.654(i)(1)(i), respectively.
7. The operator shall comply with 40CFR63 Subpart CC requirements for existing equipment that is subject to 40CFR60 Subpart K or Ka and 40CFR63 Subpart CC. *{40CFR63 Subpart CC, Section 63.640(n)}*
8. The operator shall comply with 40CFR60 Subpart Kb requirements for existing equipment that is subject to 40CFR60 Subpart Kb and 40CFR63 Subpart CC. *{40CFR63 Subpart CC, Section 63.640(n)}*

FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO

SECTION J: AIR TOXICS
[40CFR 63 Subpart CC, #4 6-23-2003]

HAZARDOUS AIR POLLUTANTS FROM PETROLEUM REFINERIES - GROUP 1
EMISSION POINT (GROUP 1 WASTEWATER STREAM - EXISTING/NEW SOURCE)

1. The operator shall comply with all applicable requirements of 40CFR63 Subparts CC including those requirements of 40CFR63 Subpart A specified in Table 6 of 40CFR63 Subpart CC.
2. The operator shall comply with applicable treatment standards, equipment standards, test methods, monitoring, reporting, and recordkeeping requirements of 40CFR63 Subpart CC, which references to 40CFR61 Subpart FF as follows:

40CFR63 Subpart CC	40CFR61 Subpart FF
63.647(a)	1. <u>Treatment Standards</u> : The operator shall demonstrate compliance with any one of the methods specified in Section 61.342(c), (d) or (e) of 60CFR61 Subpart FF.
63.647(a)	2. <u>Equipment Standards</u> : The operator shall comply with the following standards set forth for the equipment used in waste handling and storage including treatment process: <ol style="list-style-type: none"> a. Tanks and alternative standards for tanks. {61.343 & 61.351} b. Surface impoundments standards. {61.344} c. Containers standards. {61.345} d. Individual drain system standards. {61.346} e. Oil-water separator and alternative standards for oil-water separator. {61.347 & 61.352} f. Treatment process standards. {61.348} g. Closed-vent systems and control devices standards. {61.349} h. Allowance for delay of repair of equipment. {61.350}
63.647(a)	3. <u>Test Methods and Procedures</u> : The operator shall comply with applicable test methods and procedures in Section 61.355 in determining the total annual benzene quantity from facility waste.
63.647(c)	4. <u>Monitoring Requirements</u> : The operator shall comply with monitoring and associated recording requirements in Section 61.354.
63.654	5. <u>Reporting and Recordkeeping Requirements</u> : The operator shall comply with reporting and recordkeeping requirements in Sections 61.356 and 61.357.

FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO

SECTION J: AIR TOXICS
[40CFR 63 Subpart CC, #5A 6-23-2003]

HAZARDOUS AIR POLLUTANTS FROM PETROLEUM REFINERIES - EQUIPMENT
LEAK IN ORGANIC HAP SERVICE - EXISTING SOURCE

1. The operator shall comply with all applicable requirements of 40CFR63 Subpart CC including those requirements of 40CFR63 Subpart A specified in Table 6 of 40CFR63 Subpart CC.
2. The operator shall comply with applicable control, monitoring, inspection, and repair requirements of 40CFR63 Subpart CC, which references to 40CFR60 Subpart VV as follows:

40CFR63 Subpart CC	40CFR60 Subpart VV
63.648(a)	<ol style="list-style-type: none"> 1. <u>Control, Monitoring, Inspection, and Repair Requirements:</u> The operator shall comply with the following standards set forth for equipment used in volatile organic compounds service: <ol style="list-style-type: none"> a. Pumps in light liquid service. {60.482-2} b. Compressors. {60.482-3} c. Pressure relief devices in gas/vapor service. {60.482-4} d. Sampling connection systems. {60.482-5} e. Open-ended valves or lines. {60.482-6} f. Valves in gas/vapor and light liquid service. {60.482-7} g. Pumps and valves in heavy liquid service, pressure relief devices in light or heavy liquid service, and flanges and other connectors. {60.482-8} h. Allowance for delay of repair of equipment. {60.482-9} i. Closed vent systems and control devices. {60.482-10} 2. <u>Test Methods and Procedures:</u> The operator shall comply with applicable test methods and procedures in Section 60.485 in conducting performance tests and determining the presence of leaking sources.
63.648(b)	<ol style="list-style-type: none"> 3. <u>Allowance for Less Frequent Monitoring:</u> The operator shall comply with applicable requirements in Section 60.483-2 when electing to skip leak detection periods for valves.

**FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO**

**SECTION J: AIR TOXICS
[40CFR 63 Subpart CC, #5A 6-23-2003]**

40CFR63 Subpart CC	40CFR60 Subpart VV
63.654(d)(1)	4. <u>Recordkeeping and Reporting Requirements</u> : The operator shall comply with recordkeeping and semiannual reporting requirements in Sections 60.486 and 60.487, respectively.

3. The operator shall comply with 40CFR63 Subpart CC requirements for existing equipment that is subject to 40CFR60 or 40CFR61 as well as 40CFR63 Subpart CC. *{40CFR63 Subpart CC, Section 63.640(p)}*

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION J: AIR TOXICS [40CFR 63 Subpart UUU, #1 4-20-2006]

HAZARDOUS AIR POLLUTANTS FROM PETROLEUM REFINERIES: CATALYTIC REFORMING UNITS

1. The operator shall comply with the applicable general requirements of Sections 63.1 through 63.15 of Subpart A and Section 63.1570 of Subpart UUU.
2. The operator shall comply with the applicable notification, reporting, and recordkeeping requirement of Sections 63.1574, 63.1575, and 63.1576, respectively.
3. The operator shall prepare an operation, maintenance, and monitoring plan for each affected source as specified in Section 63.1574(f).
4. The operator shall submit all required reports, notifications, plans, submittals and other communications required by 40CFR63 Subpart A or Subpart UUU to the AQMD and, unless notified to the contrary by AQMD or US EPA, to US EPA Region IX, where applicable (see addresses in Sections E and K of this permit).
5. The operator shall submit to AQMD all plan applications (i.e. operation, maintenance, and monitoring plans) and applications for permits to construct and operate new equipment or equipment modifications, which are required by 40CFR63 Subpart A or Subpart UUU, as a Title V permit revision for the approval by the Executive Officer.
6. The operator shall comply with the following applicable standard(s) for CRU Process Vents:

Emission and Operating Limits for CRU Process Vents (§ 63.1566)

HAP Type	Emission Limitation	Operating Limit
Organic HAP * (§63.1566)	Reduce uncontrolled emissions of total organic compounds (TOC) or non-methane TOC by 98% by using a control device or to a concentration of 20 ppmv (dry basis as hexane), corrected to 3 percent oxygen, whichever is less stringent. For emissions vented to a boiler or process heater to comply with the percent reduction or concentration emission limitation, the vent stream must be introduced into the flame zone, or any other location that will achieve the percent reduction or concentration standard.	<u>Use of a thermal incinerator, boiler or process heater with a design heat input capacity less than 44 MW, or use of a boiler or process heater in which all vent streams are not introduced into the flame zone. Daily average concentration zone temperature must not fall below the limit established during the performance test.</u>

**Exempt for depressuring and purging operation with reactor vent pressure ≤ 5 psig per § 63.1566(a)(4)*

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION J: AIR TOXICS [40CFR 63 Subpart UUU, #1 4-20-2006]

Emission and Operating Limits for CRU Process Vents (§ 63.1567)

HAP Type	Emission Limitation**	Operating Limit**
Inorganic HAP (§63.1567)	Reduce uncontrolled emissions of HCl by 97% by weight or to a concentration of 10 ppmvd corrected to 3% O ₂ using a control device.	<p><u>Internal scrubbing system or no control device:</u> The daily average HCl concentration in the catalyst regenerator exhaust gas must not exceed the limit established during the performance test.</p> <p><u>Moving-bed gas-solid adsorption system (e.g., Chlorsorb™ System):</u> The daily average temperature of the gas entering or exiting the adsorption system must not exceed the limit established during the performance test; and the weekly average chloride level on the sorbent entering the adsorption system must not exceed the design or manufacturer's recommended limit (1.35 weight percent for the Chlorsorb™ System), and the weekly average chloride level on the sorbent leaving the adsorption system must not exceed the design or manufacturer's recommended limit (1.8 weight percent for the Chlorsorb™ System).</p>

***Emission and Operating Limits apply during coke burn-off and catalyst rejuvenation pursuant to §63.1567(a)(2).*

7. The operator shall comply with the following standard(s) for Bypass Lines:

Work Practice Standards for Bypass Lines (§ 63.1569)*

Work Practice Standard
Install a car-seal or lock- and-key device placed on the mechanism by which the bypass device flow position is controlled (e.g., valve handle, damper level) when the bypass device is in the closed position such that the bypass line valve cannot be opened without breaking the seal or removing the device

**Each bypass line that could vent an affected vent stream away from a control device used to comply with the requirements of this subpart.*

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**SECTION J: AIR TOXICS
 [40CFR 63 Subpart UUU, #1 4-20-2006]**

8. The operator shall comply with the following applicable initial and continuous compliance demonstration requirements.

Source Type	HAP Type	Initial Compliance	Continuous Compliance
CRU	Organic HAP	Compliance with all applicable requirements of § 63.1566(b) including installation of a continuous monitoring system, completion of a performance test, and establishment of a site-specific operating limit.	Compliance with all applicable requirements of § 63.1566(c) including demonstration of compliance with operating limit established in the performance test.
CRU	Inorganic HAP	Compliance with all applicable requirements of § 63.1567(b) including installation of a continuous monitoring system, completion of a performance test, and establishment of a site-specific operating limit.	Compliance with all applicable requirements of § 63.1567(c) including demonstration of compliance with operating limit established in the performance test.
Bypass Lines	HAP	Compliance with all applicable requirements of § 63.1569(b) including demonstration of initial compliance with the applicable work practice standard and submission of an operation, maintenance, and monitoring plan.	Compliance with all applicable requirements of § 63.1569(c) including demonstration of continuous compliance with the applicable work practice standard and with the procedures in the operation, maintenance, and monitoring plan.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION J: AIR TOXICS [40CFR 63 Subpart UUU, #2 4-20-2006]

HAZARDOUS AIR POLLUTANTS FROM PETROLEUM REFINERIES: CATALYTIC CRACKING UNITS

1. The operator shall comply with the applicable general requirements of Sections 63.1 through 63.15 of Subpart A and Section 63.1570 of Subpart UUU.
2. The operator shall comply with the applicable notification, reporting, and recordkeeping requirements of Sections 63.1574, 63.1575, and 63.1576, respectively.
3. The operator shall prepare an operation, maintenance, and monitoring plan for each affected source as specified in Section 63.1574(f).
4. The operator shall submit all required reports, notifications, plans, submittals and other communications required by 40CFR63 Subpart A or Subpart UUU to the AQMD and, unless notified to the contrary by AQMD or US EPA, to US EPA Region IX, where applicable (see addresses in Sections E and K of this permit).
5. The operator shall submit to AQMD all plan applications (i.e. operation, maintenance, and monitoring plans) and applications for permits to construct and operate new equipment or equipment modifications, which are required by 40CFR63 Subpart A or Subpart UUU, as a Title V permit revision for the approval by the Executive Officer.
6. The operator shall comply with the following standard(s) for FCCUs:

Emission and Operating Limits for Existing FCCUs (§63.1564 & §63.1565)

HAP Type	Emission Limitation	Operating Limit
Metal	1. PM emissions must not exceed 1.0 kg per 1,000 kg (1.0 lb/1,000 lb) of coke burn-off in the catalyst regenerator; 2. Opacity of emissions must not exceed 30 percent, except for one 6-minute average opacity reading in any 1-hour period.	na.
Organic	CO emissions must not exceed 500 ppmv (dry basis)	na.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION J: AIR TOXICS [40CFR 63 Subpart UUU, #2 4-20-2006]

7. The operator shall comply with the following standard(s) for Bypass Lines:

Work Practice Standards for Bypass Lines (§ 63.1569)*

Work Practice Standard
Install a car-seal or lock- and-key device placed on the mechanism by which the bypass device flow position is controlled (e.g., valve handle, damper level) when the bypass device is in the closed position such that the bypass line valve cannot be opened without breaking the seal or removing the device.

**Each bypass line that could vent an affected vent stream away from a control device used to comply with the requirements of this subpart.*

8. The operator shall comply with the following applicable initial and continuous compliance demonstration requirements:

Source Type	HAP Type	Initial Compliance	Continuous Compliance
FCCU	Metal HAP	Compliance with all applicable requirements of § 63.1564(b) including installation of a continuous opacity monitoring system and certification of compliance with the emission limits.	Compliance with all applicable requirements of § 63.1564(c) including demonstration of continuous compliance with the applicable Opacity and PM emission limits.
FCCU	Organic HAP	Compliance with all applicable requirements of § 63.1565(b) including installation of a continuous CO monitoring system and certification of compliance with the emission limit.	Compliance with all applicable requirements of § 63.1565(c) including demonstration of continuous compliance with the applicable CO emission limit.
Bypass Lines	HAP	Compliance with all applicable requirements of § 63.1569(b) including demonstration of initial compliance with the applicable work practice standard and submission of an operation, maintenance, and monitoring plan.	Compliance with all applicable requirements of § 63.1569(c) including demonstration of continuous compliance with the applicable work practice standard and with the procedures in the operation, maintenance, and monitoring plan.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION K: TITLE V Administration

GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

Permit Renewal and Expiration

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

(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

Duty to Provide Information

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

Payment of Fees

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

Reopening for Cause

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

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION K: TITLE V Administration

- (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
- (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

COMPLIANCE PROVISIONS

- 8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
 - (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
 - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

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

- 9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
 - (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
 - (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
 - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]
- 10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION K: TITLE V Administration

11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]
12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]
13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]
14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
 - (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
 - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
 - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
 - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
 - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
 - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION K: TITLE V Administration

commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION K: TITLE V Administration

EMERGENCY PROVISIONS

17. An emergency¹ constitutes an affirmative defense to an action brought for non-compliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
 - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
 - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
 - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
 - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - (B) The operator complies with the breakdown provisions of Rule 430 - Breakdown Provisions, or subdivision (i) of Rule 2004 - Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION K: TITLE V Administration

RECORDKEEPING PROVISIONS

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:
 - (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
 - (B) The date(s) analyses were performed;
 - (C) The company or entity that performed the analyses;
 - (D) The analytical techniques or methods used;
 - (E) The results of such analyses; and
 - (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]
20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]
21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

REPORTING PROVISIONS

22. The operator shall comply with the following requirements for prompt reporting of deviations:
 - (A) Breakdowns shall be reported as required by Rule 430 - Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.
 - (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION K: TITLE V Administration

- (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
 - (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;
 - (B) The compliance status during the reporting period;
 - (C) Whether compliance was continuous or intermittent;
 - (D) The method(s) used to determine compliance over the reporting period and currently, and
 - (E) Any other facts specifically required by the Executive Officer to determine compliance.
- The EPA copy of the certification shall be sent to: Director of the Air Division Attn: Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]
25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION K: TITLE V Administration

PERIODIC MONITORING

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

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION K: TITLE V Administration

FACILITY RULES

This facility is subject to the following rules and regulations:

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

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 109	5-2-2003	Federally enforceable
RULE 1105.1	11-7-2003	Federally enforceable
RULE 1107	1-6-2006	Non federally enforceable
RULE 1110.2	2-1-2008	Non federally enforceable
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	7-13-2007	Non federally enforceable
RULE 1118	11-4-2005	Federally enforceable
RULE 1118	2-13-1998	Non federally enforceable
RULE 1122	10-1-2004	Federally enforceable
RULE 1123	12-7-1990	Federally enforceable
RULE 1134	8-8-1997	Federally enforceable
RULE 1146	11-17-2000	Federally enforceable
RULE 1146	9-5-2008	Non federally enforceable
RULE 1149	5-2-2008	Non federally enforceable
RULE 1149	7-14-1995	Federally enforceable
RULE 1158	6-11-1999	Federally enforceable
RULE 1158	7-11-2008	Non federally enforceable
RULE 1168	1-7-2005	Non federally enforceable
RULE 1168	10-3-2003	Federally enforceable
RULE 1171	11-7-2003	Federally enforceable
RULE 1171	2-1-2008	Non federally enforceable
RULE 1173	2-6-2009	Non federally enforceable
RULE 1173	5-13-1994	Federally enforceable
RULE 1176	9-13-1996	Federally enforceable
RULE 1178	4-7-2006	Federally enforceable
RULE 118	12-7-1995	Non federally enforceable
RULE 1189	1-21-2000	Federally enforceable
RULE 1303	5-10-1996	Federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION K: TITLE V Administration

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(a)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1304(a)-Modeling and Offset Exemption	6-14-1996	Federally enforceable
RULE 1304(c)-Offset Exemption	6-14-1996	Federally enforceable
RULE 1401	12-7-1990	Non federally enforceable
RULE 1401	3-7-2008	Non federally enforceable
RULE 1402	3-4-2005	Non federally enforceable
RULE 1404	4-6-1990	Non federally enforceable
RULE 1415	10-14-1994	Non federally enforceable
RULE 1418	9-10-1999	Non federally enforceable
RULE 1470	6-1-2007	Non federally enforceable
RULE 1703 - PSD Analysis	10-7-1988	Federally enforceable
RULE 2004	4-6-2007	Non federally enforceable
RULE 2004	5-11-2001	Federally enforceable
RULE 2005	4-20-2001	Federally enforceable
RULE 2005	5-6-2005	Federally enforceable
RULE 2012	1-7-2005	Federally enforceable
RULE 2012	12-5-2003	Federally enforceable
RULE 2012	5-6-2005	Federally enforceable
RULE 204	10-8-1993	Federally enforceable
RULE 217	1-5-1990	Federally enforceable
RULE 219	7-11-2003	Non federally enforceable
RULE 219	9-4-1981	Federally enforceable
RULE 2202	2-6-2004	Non federally enforceable
RULE 3002	11-14-1997	Federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3003	3-16-2001	Non federally enforceable
RULE 3004	12-12-1997	Federally enforceable
RULE 3004(a)(10)(C)	12-12-1997	Federally enforceable
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable
RULE 3005	3-16-2001	Non federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 301	5-2-2008	Non federally enforceable
RULE 304	7-9-2004	Non federally enforceable

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION K: TITLE V Administration

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 402	5-7-1976	Non federally enforceable
RULE 403	12-11-1998	Federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 405	2-7-1986	Federally enforceable
RULE 407	4-2-1982	Federally enforceable
RULE 408	5-7-1976	Federally enforceable
RULE 409	8-7-1981	Federally enforceable
RULE 430	7-12-1996	Non federally enforceable
RULE 431.1	6-12-1998	Federally enforceable
RULE 431.2	5-4-1990	Federally enforceable
RULE 431.2	9-15-2000	Non federally enforceable
RULE 461	3-7-2008	Non federally enforceable
RULE 461	6-3-2005	Federally enforceable
RULE 462	5-14-1999	Federally enforceable
RULE 463	5-6-2005	Federally enforceable
RULE 465	8-13-1999	Federally enforceable
RULE 475	10-8-1976	Federally enforceable
RULE 475	8-7-1978	Non federally enforceable
40CFR 60 Subpart A	4-9-1993	Federally enforceable
40CFR 60 Subpart A	5-16-2007	Federally enforceable
40CFR 60 Subpart Db	11-16-2006	Federally enforceable
40CFR 60 Subpart GG	2-24-2006	Federally enforceable
40CFR 60 Subpart GGG	6-2-2008	Federally enforceable
40CFR 60 Subpart GGGa	6-2-2008	Federally enforceable
40CFR 60 Subpart J	6-24-2008	Federally enforceable
40CFR 60 Subpart K	10-17-2000	Federally enforceable
40CFR 60 Subpart Ka	12-14-2000	Federally enforceable
40CFR 60 Subpart Kb	10-15-2003	Federally enforceable
40CFR 60 Subpart QQQ	10-17-2000	Federally enforceable
40CFR 61 Subpart A	5-16-2007	Federally enforceable
40CFR 61 Subpart FF	12-4-2003	Federally enforceable
40CFR 61 Subpart FF_01	12-4-2003	Federally enforceable
40CFR 63 Subpart A	5-16-2007	Federally enforceable
40CFR 63 Subpart CC	5-25-2001	Federally enforceable
40CFR 63 Subpart CC	6-23-2003	Federally enforceable

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

SECTION K: TITLE V Administration

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
40CFR 63 Subpart CC, #1	6-23-2003	Federally enforceable
40CFR 63 Subpart CC, #2	6-23-2003	Federally enforceable
40CFR 63 Subpart CC, #3A	5-25-2001	Federally enforceable
40CFR 63 Subpart CC, #3A	6-23-2003	Federally enforceable
40CFR 63 Subpart CC, #4	6-23-2003	Federally enforceable
40CFR 63 Subpart CC, #5A	5-25-2001	Federally enforceable
40CFR 63 Subpart CC, #5A	6-23-2003	Federally enforceable
40CFR 63 Subpart CC, 12-19-2005 date is wrong	12-19-2005	Non federally enforceable
40CFR 63 Subpart UUU, #1	2-9-2005	Federally enforceable
40CFR 63 Subpart UUU, #1	4-11-2002	Federally enforceable
40CFR 63 Subpart UUU, #1	4-20-2006	Federally enforceable
40CFR 63 Subpart UUU, #2	2-9-2005	Federally enforceable
40CFR 63 Subpart UUU, #2	4-11-2002	Federally enforceable
40CFR 63 Subpart UUU, #2	4-20-2006	Federally enforceable
40CFR 68 - Accidental Release Prevention	5-24-1996	Federally enforceable
RULE 701	6-13-1997	Federally enforceable
40CFR 79	7-1-1999	Federally enforceable
40CFR 80	7-1-1999	Federally enforceable
CA PRC CEQA	11-23-1970	Non federally enforceable
CONSENT DECREE	3-21-2001	Federally enforceable
CCR Title 13	9-24-1999	Non federally enforceable

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

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

3. PORTABLE AIR COMPRESSORS, DIESEL
4. SMALL PORTABLE GENERATORS
5. SMALL FURNACES
6. OVENS
7. BUNSEN BURNERS
8. HOT PLATES
9. FURNACE LIGHTING TORCHES
10. OXYACETYLENE TORCHES
11. PORTABLE WELD MACHINES
12. WELDERS

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1107 1-6-2006]**

Except as otherwise provided in Rule 1107

(1) VOC Content of Coatings

A person shall not apply to metal parts and products subject to the provisions of this rule any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below:

VOC LIMITS								
Less Water and Less Exempt Compounds								
Effective Dates								
Coating	Air-Dried				Baked			
	gm/l		lb/gal		gm/l		lb/gal	
	Current	7/1/07	Current	7/1/07	Current	7/1/07	Current	7/1/07
General One-Component	275	275	2.3	2.3	275	275	2.3	2.3
General Multi-Component	340	340	2.8	2.8	275	275	2.3	2.3
Military Specification	340	340	2.8	2.8	275	275	2.3	2.3
Etching Filler	420	420	3.5	3.5	420	420	3.5	3.5
Solar-Absorbent	420	420	3.5	3.5	360	360	3.0	3.0
Heat-Resistant	420	420	3.5	3.5	360	360	3.0	3.0
Extreme High-Gloss	420	340	3.5	2.8	360	360	3.0	3.0
Metallic	420	420	3.5	3.5	420	420	3.5	3.5

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1107 1-6-2006]**

VOC LIMITS								
Less Water and Less Exempt Compounds								
Effective Dates, cont.								
Coating	Air-Dried				Baked			
	gm/l		lb/gal		gm/l		lb/gal	
	Current	7/1/07	Current	7/1/07	Current	7/1/07	Current	7/1/07
Extreme Performance	420	420	3.5	3.5	360	360	3.0	3.0
Prefabricated Architectural One-Component	420	275	3.5	2.3	275	275	2.3	2.3
Prefabricated Architectural Multi-Component	420	340	3.5	2.8	275	275	2.3	2.3
Touch Up	420	420	3.5	3.5	360	360	3.0	3.0
Repair	420	420	3.5	3.5	360	360	3.0	3.0
Silicone Release	420	420	3.5	3.5	420	420	3.5	3.5
High-Performance Architectural	420	420	3.5	3.5	420	420	3.5	3.5
Camouflage	420	420	3.5	3.5	420	420	3.5	3.5
Vacuum-Metalizing	420	420	3.5	3.5	420	420	3.5	3.5
Mold-Seal	420	420	3.5	3.5	420	420	3.5	3.5
High-Temperature	420	420	3.5	3.5	420	420	3.5	3.5
Electric-Insulating Varnish	420	420	3.5	3.5	420	420	3.5	3.5
Pan Backing	420	420	3.5	3.5	420	420	3.5	3.5
Pretreatment Coatings	420	420	3.5	3.5	420	420	3.5	3.5

- (2) A person shall not use VOC-containing materials which have a VOC content of more than 200 grams per liter of material for stripping any coating governed by this rule.

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1113 11-8-1996]**

- (1) Except as provided in paragraphs (c)(2), (c)(3), and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, or solicit the application of, any architectural coating which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, or manufacture, blend, or repackage such a coating for use within the District.
- (2) Except as provided in paragraphs (c)(3) and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, solicit the application of, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified.

TABLE OF STANDARDS

VOC LIMITS

**Grams of VOC Per Liter of Coating,
 Less Water And Less Exempt Compounds**

COATING	Limit*	Effective Date of Adoption	Effective 1/1/1998	Effective 1/1/1999	Effective 7/1/2001	Effective 1/1/2005	Effective 7/1/2008
Bond Breakers	350						
Clear Wood Finishes							
Varnish	350						
Sanding Sealers	350						
Lacquer	680		550			275	
Concrete-Curing Compounds	350						
Dry-Fog Coatings	400						
Fire-proofing Exterior Coatings	350	450		350			
Fire-Retardant Coatings							
Clear	650						
Pigmented	350						
Flats	250					100	
Graphic Arts (Sign) Coatings	500						50
Industrial Maintenance							

FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO

APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 11-8-1996]

Primers and Topcoats						
Alkyds	420					
Catalyzed Epoxy	420					
Bituminous Coatings	420					
Materials						
Inorganic Polymers	420					
Vinyl Chloride Polymers	420					
Chlorinated Rubber	420					
Acrylic Polymers	420					
Urethane Polymers	420					
Silicones	420					
Unique Vehicles	420					
Japans/Faux Finishing	350	700		350		
Coatings						
Magnesite Cement Coatings	600			450		
Mastic Coatings	300					
Metallic Pigmented Coatings	500					
Multi-Color Coatings	420		250			
Pigmented Lacquer	680		550		275	
Pre-Treatment Wash Primers	780					
Primers, Sealers, and	350					
Undercoaters						
Quick-Dry Enamels	400					
Roof Coatings	300					
Shellac						
Clear	730					
Pigmented	550					
Stains	350					
Swimming Pool Coatings						
Repair	650					
Other	340					
Traffic Coatings	250		150			
Waterproofing Sealers	400					
Wood Preservatives						
Below-Ground	350					
Other	350					

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards

**FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 11-8-1996]**

TABLE OF STANDARDS (cont.)

VOC LIMITS

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

**FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 7-13-2007]**

- (1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.
- (2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings, except anti-graffiti coatings, for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or of any rust-preventative coating for industrial use, unless such a rust preventative coating complies with the Industrial Maintenance Coating VOC limit specified in the Table of Standards.

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1113 7-13-2007]**

**TABLE OF STANDARDS
 VOC LIMITS**

**Grams of VOC Per Liter of Coating,
 Less Water and Less Exempt Compounds**

COATING CATEGORY	Ceiling Limit*	Current Limit	Effective Date					
			1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Bond Breakers	350							
Clear Wood Finishes	350					275		
Varnish	350					275		
Sanding Sealers	350					275		
Lacquer	680	550			275			
Clear Brushing Lacquer	680				275			
Concrete-Curing Compounds	350						100	
Concrete-Curing Compounds For Roadways and Bridges**	350							
Dry-Fog Coatings	400						150	
Fire-Proofing Exterior Coatings	450	350						
Fire-Retardant Coatings***								
Clear	650							
Pigmented	350							
Flats	250	100						50
Floor Coatings	420		100			50		
Graphic Arts (Sign) Coatings	500							
Industrial Maintenance (IM) Coatings	420			250		100		
High Temperature IM Coatings			420					
Zinc-Rich IM Primers	420		340			100		
Japans/Faux Finishing Coatings	700	350						
Magnesite Cement Coatings	600	450						
Mastic Coatings	300							
Metallic Pigmented Coatings	500							
Multi-Color Coatings	420	250						
Nonflat Coatings	250		150			50		
Nonflat High Gloss	250		150				50	

FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 7-13-2007]

COATING CATEGORY	Ceiling Limit*	Current Limit	Effective Date					
			1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Pigmented Lacquer	680	550			275			
Pre-Treatment Wash Primers	780		420					
Primers, Sealers, and Undercoaters	350		200			100		
Quick-Dry Enamels	400		250			150	50	
Quick-Dry Primers, Sealers, and Undercoaters	350		200			100		
Recycled Coatings			250					
Roof Coatings	300		250		50			
Roof Coatings, Aluminum	500				100			
Roof Primers, Bituminous	350		350					
Rust Preventative Coatings	420		400			100		
Shellac								
Clear	730							
Pigmented	550							
Specialty Primers	350					250	100	
Stains	350		250				100	
Stains, Interior	250							
Swimming Pool Coatings								
Repair	650		340					
Other	340							
Traffic Coatings	250	150					100	
Waterproofing Sealers	400		250			100		
Waterproofing	400					100		
Concrete/Masonry Sealers								
Wood Preservatives								
Below-Ground	350							
Other	350							

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.

** Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

*** The Fire-Retardant Coating category will be eliminated on January 1, 2007 and subsumed by the coating category for which they are formulated.

**FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 7-13-2007]**

**TABLE OF STANDARDS (cont.)
VOC LIMITS**

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1168 1-7-2005]**

- (1) Unless otherwise specified in paragraph (c)(2), a person shall not apply any adhesives, adhesive bonding primers, adhesive primers, or any other primer which have a VOC content in excess of 250 g/L less water and less exempt compounds.
- (2) A person shall not apply adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, or any other primer which have a VOC content in excess of the limits specified below:

VOC Limit*, Less Water and Less Exempt Compounds in Grams per Liter

Architectural Applications	Current VOC Limit*
Indoor Carpet Adhesives	50
Carpet Pad Adhesives	50
Outdoor Carpet Adhesives	150
Wood Flooring Adhesive	100
Rubber Floor Adhesives	60
Subfloor Adhesives	50
Ceramic Tile Adhesives	65
VCT and Asphalt Tile Adhesives	50
Dry Wall and Panel Adhesives	50
Cove Base Adhesives	50
Multipurpose Construction Adhesives	70
Structural Glazing Adhesives	100
Single Ply Roof Membrane Adhesives	250

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1168 1-7-2005]**

Specialty Applications	VOC Limits and Effective Dates**			
	Current VOC Limit*	1-1-05	7-1-05	1-1-07
PVC Welding	510			
CPVC Welding	490			
ABS Welding	400		325	
Plastic Cement Welding	350	250		
Adhesive Primer for Plastic	650		550	
Computer Diskette Manufacturing	350			
Contact Adhesive	80			
Special Purpose Contact Adhesive	250			
Tire Retread	100			
Adhesive Primer for Traffic Marking Tape	150			
Structural Wood Member Adhesive	140			
Sheet Applied Rubber Lining Operations	850			
Top and Trim Adhesive	540			250

** The specified limits remain in effect unless revised limits are listed in subsequent columns.

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1168 1-7-2005]**

For adhesives, adhesive bonding primers, or any other primer not regulated by the above two tables and applied to the following substrates, the following limits shall apply:

Substrate Specific Applications	Current VOC Limit*
Metal to Metal	30
Plastic Foams	50
Porous Material (except wood)	50
Wood	30
Fiberglass	80

If an adhesive is used to bond dissimilar substrates together the adhesive with the highest VOC content shall be allowed.

Sealants	Current VOC Limit*
Architectural	250
Marine Deck	760
Nonmembrane Roof	300
Roadway	250
Single-Ply Roof Membrane	450
Other	420

**FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 1168 1-7-2005]**

Sealant Primers	Current VOC Limit*
Architectural	
Non Porous	250
Porous	775
Modified Bituminous	500
Marine Deck	760
Other	750

* For low-solid adhesives or sealants the VOC limit is expressed in grams per liter of material as determined in paragraph (b)(32); for all other adhesives and sealants, VOC limits are expressed as grams of VOC per liter of adhesive or sealant less water and less exempt compounds as determined in paragraph (b)(31).

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1168 10-3-2003]**

- (1) Unless otherwise specified in paragraph (c)(2), a person shall not apply any adhesives, adhesive bonding primers, adhesive primers, or any other primer which have a VOC content in excess of 250 g/L less water and less exempt compounds.
- (2) A person shall not apply adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, or any other primer which have a VOC content in excess of the limits specified below:

VOC Limit*, Less Water and Less Exempt Compounds in Grams per Liter

Architectural Applications	Current VOC Limit
Indoor Carpet Adhesives	50
Carpet Pad Adhesives	50
Outdoor Carpet Adhesives	150
Wood Flooring Adhesive	100
Rubber Floor Adhesives	60
Subfloor Adhesives	50
Ceramic Tile Adhesives	65
VCT and Asphalt Tile Adhesives	50
Dry Wall and Panel Adhesives	50
Cove Base Adhesives	50
Multipurpose Construction Adhesives	70
Structural Glazing Adhesives	100
Single Ply Roof Membrane Adhesives	250

* For low-solid adhesives or sealants the VOC limit is expressed in grams per liter of material as determined in paragraph (b)(32); for all other adhesives and sealants, VOC limits are expressed as grams of VOC per liter of adhesive or sealant less water and less exempt compounds as determined in paragraph (b)(31).

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1168 10-3-2003]**

.Specialty Applications	VOC Limits and Effective Dates**			
	Current VOC Limit	6-7-02	1-1-03	1-1-05
PVC Welding	510			285
CPVC Welding	490			270
ABS Welding	400			
Plastic Cement Welding	350			250
Adhesive Primer for Plastic	650			250
Computer Diskette Manufacturing	350			
Contact Adhesive	250		80	
Special Purpose Contact Adhesive	250			
Tire Retread	100			
Adhesive Primer for Traffic Marking Tape	150			
Structural Wood Member Adhesive	140			
Sheet Applied Rubber Lining Operations	850			
Top and Trim Adhesive	250	540		250

** The specified limits remain in effect unless revised limits are listed in subsequent columns.

Substrate Specific Applications	Current VOC Limit
Metal to Metal	30
Plastic Foams	50
Porous Material (except wood)	50

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1168 10-3-2003]**

Substrate Specific Applications	Current VOC Limit
Wood	30
Fiberglass	80

If an adhesive is used to bond dissimilar substrates together the adhesive with the highest VOC content shall be allowed.

Sealants	Current VOC Limit
Architectural	250
Marine Deck	760
Nonmembrane Roof	300
Roadway	250
Single-Ply Roof Membrane	450
Other	420

Sealant Primers	Current VOC Limit
Architectural	
Non Porous	250
Porous	775
Modified Bituminous	500
Marine Deck	760
Other	750

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1171 11-7-2003]**

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	500 (4.2)
(iii) Medical Devices & Pharmaceuticals	800 (6.7)
(B) Repair and Maintenance Cleaning	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)
(iii) Medical Devices & Pharmaceuticals	
(A) Tools, Equipment, & Machinery	800 (6.7)
(B) General Work Surfaces	600 (5.0)

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1171 11-7-2003]**

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(C) Cleaning of Coatings or Adhesives Application Equipment	550 (4.6)
(D) Cleaning of Ink Application Equipment	
(i) General	25 (0.21)
(ii) Flexographic Printing	25 (0.21)
(iii) Gravure Printing	
(A) Publication	750 (6.3)
(B) Packaging	25 (0.21)
(iv) Lithographic or Letter Press Printing	
(A) Roller Wash – Step 1	600 (5.0)
(B) Roller Wash-Step 2, Blanket Wash, & On-Press Components	800 (6.7)
(C) Removable Press Components	25 (0.21)
(v) Screen Printing	750 (6.3)
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	800 (6.7)

**FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 11-7-2003]**

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(vii) Specialty Flexographic Printing	600 (5.0)
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1171 2-1-2008]**

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)		
(iii) Medical Devices & Pharmaceuticals	800 (6.7)		
(B) Repair and Maintenance Cleaning			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)		

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1171 2-1-2008]**

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals			
(A) Tools, Equipment, & Machinery	800 (6.7)		
(B) General Work Surfaces	600 (5.0)		
(C) Cleaning of Coatings or Adhesives Application Equipment	25 (0.21)		
(D) Cleaning of Ink Application Equipment			
(i) General	25 (0.21)		
(ii) Flexographic Printing	25 (0.21)		
(iii) Gravure Printing			
(A) Publication	100 (0.83)		
(B) Packaging	25 (0.21)		
(iv) Lithographic (Offset) or Letter Press Printing			
(A) Roller Wash, Blanket Wash, & On-Press Components			
(I) Newsprint	100 (0.83)		

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1171 2-1-2008]**

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(II) Other Substrates	500 (4.2)	100 (0.83)	
(B) Removable Press Components	25 (0.21)		
(v) Screen Printing	500 (4.2)	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	650 (5.4)	100 (0.83)
(vii) Specialty Flexographic Printing	100 (0.83)		
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)		

* The specified limits remain in effect unless revised limits are listed in subsequent columns.

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 404 2-7-1986]**

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a).

Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

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

TABLE 404(a)

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
25 or less	883 or less	450	0.196	900	31780	118	0.0515
30	1059	420	.183	1000	35310	113	.0493
35	1236	397	.173	1100	38850	109	.0476
40	1413	377	.165	1200	42380	106	.0463
45	1589	361	.158	1300	45910	102	.0445
50	1766	347	.152	1400	49440	100	.0437
60	2119	324	.141	1500	52970	97	.0424
70	2472	306	.134	1750	61800	92	.0402

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 404 2-7-1986]**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot	Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot
80	2825	291	.127	2000	70630	87	.0380
90	3178	279	.122	2250	79460	83	.0362
100	3531	267	.117	2500	88290	80	.0349
125	4414	246	.107	3000	105900	75	.0327
150	5297	230	.100	4000	141300	67	.0293
175	6180	217	.0947	5000	176600	62	.0271
200	7063	206	.0900	6000	211900	58	.0253
250	8829	190	.0830	8000	282500	52	.0227
300	10590	177	.0773	10000	353100	48	.0210
350	12360	167	.0730	15000	529700	41	.0179
400	14130	159	.0694	20000	706300	37	.0162
450	15890	152	.0664	25000	882900	34	.0148
500	17660	146	.0637	30000	1059000	32	.0140
600	21190	137	.0598	40000	1413000	28	.0122
700	24720	129	.0563	50000	1766000	26	.0114
800	28250	123	.0537	70000 or more	2472000 or more	23	.0100

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 405 2-7-1986]**

The operator shall not discharge into the atmosphere from this equipment, solid particulate matter including lead and lead compounds in excess of the rate shown in Table 405(a).

Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.

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

TABLE 405(a)

Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All Points of Process)		Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All points of Process)	
Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour
100 or less	220 or less	0.450	0.99	9000	19840	5.308	11.7
150	331	0.585	1.29	10000	22050	5.440	12.0
200	441	0.703	1.55	12500	27560	5.732	12.6
250	551	0.804	1.77	15000	33070	5.982	13.2
300	661	0.897	1.98	17500	38580	6.202	13.7
350	772	0.983	2.17	20000	44090	6.399	14.1
400	882	1.063	2.34	25000	55120	6.743	14.9
450	992	1.138	2.51	30000	66140	7.037	15.5
500	1102	1.209	2.67	35000	77160	7.296	16.1
600	1323	1.340	2.95	40000	88180	7.527	16.6
700	1543	1.461	3.22	45000	99210	7.738	17.1
800	1764	1.573	3.47	50000	110200	7.931	17.5
900	1984	1.678	3.70	60000	132300	8.277	18.2
1000	2205	1.777	3.92	70000	154300	8.582	18.9

**FACILITY PERMIT TO OPERATE
 TESORO REFINING AND MARKETING CO**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 405 2-7-1986]**

Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All Points of Process)		Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All points of Process)	
Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour
1250	2756	2.003	4.42	80000	176400	8.854	19.5
1500	3307	2.206	4.86	90000	198400	9.102	20.1
1750	3858	2.392	5.27	100000	220500	9.329	20.6
2000	4409	2.563	5.65	125000	275600	9.830	21.7
2250	4960	2.723	6.00	150000	330700	10.26	22.6
2500	5512	2.874	6.34	175000	385800	10.64	23.5
2750	6063	3.016	6.65	200000	440900	10.97	24.2
3000	6614	3.151	6.95	225000	496000	11.28	24.9
3250	7165	3.280	7.23	250000	551200	11.56	25.5
3600	7716	3.404	7.50	275000	606300	11.82	26.1
4000	8818	3.637	8.02	300000	661400	12.07	26.6
4500	9921	3.855	8.50	325000	716500	12.30	27.1
5000	11020	4.059	8.95	350000	771600	12.51	27.6
6000	13230	4.434	9.78	400000	881800	12.91	28.5
7000	15430	4.775	10.5	450000	992100	13.27	29.3
8000	17640	5.089	11.2	500000 or more	1102000 or more	13.60	30.0