



South Coast Air Quality Management District

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November 9, 2012

Ms. June Christman
Environmental Manager
Tesoro Refining and Marketing Company
2101 East Pacific Coast Hwy
Wilmington, CA 90744

SUBJECT: Revised Title V Facility Permit for Tesoro Refining and Marketing Company,
Wilmington Refinery (Facility ID #800436)

Dear Ms. Christman:

Please find attached the version of your Facility Permit for Tesoro Refinery located at 2101 East Pacific Coast Hwy, Wilmington. The attached revision includes the following sections:

- Title page (Revision #30)
- Table of contents (Revision #30)
- Section D (Revision #19)
- Section H (Revision #18)

The Facility Permit reflects the inclusion of the following applications approved for permits:

Section D, Permit-to- Construct & Operate —De Minimis Significant Revision

	A/N	Equipment	Device ID	Process	System	Permit Action
1	535086	Storage Tank 80009	D1719	15	2	Construct a New Stormwater External Floating Roof Tank.

A draft permit was issued for EPA’s 45-day review on September 7, 2012. No comment was received from EPA. This Title V permit revision is covered under application A/N 535087.

Please be advised that, pursuant to SCAQMD Rule 205, the Permit to Construct and Operate shall expire one year from the date of this letter unless an extension of time has been approved in writing by the Executive officer or the construction has been completed before the expiration date.

Section D, Permit-to- Operate (P/O)—Administrative Revisions

In addition to permit amendment described above, the enclosed section D contains the following administrative changes:

Process 21, System4- Flare Gas Recovery System

- A/N 501291 Conversion of Permit to Construct to Permit to Operate for connecting the pressure relief valves (PRV) from the new vessels V-1491 (D1663) and V-2380 (D1662) at the Refinery Vapor Recovery System and the new vessel V-2379 (D1661) at the Delayed Coking Unit
- A/N 494382 This previous P/C for connecting the PRV of new drum V-2381(D1652) of the Hydrocracking Unit is being issued under A/N 501291 and will be cancelled.
- A/N 472872 This previous P/C for constructing a new Flare Gas Recovery System to comply with District Rule 1118 is being issued under A/N 501291 and will be canceled.

Process 21, System 3- Refinery Vapor Recovery System

- A/N 530224 Conversion of Permit to Construct to Permit to Operate for connecting the vent gases from the Sweet Spent Caustic Storage Tank 742 (D1742).
- A/N 524238: This previous P/C for connecting the vent gases from the DAF tanks of HCOD treating unit equipment (D463, D464, D465, D471) is being issued under A/N 530224 and will be canceled.
- A/N 519210: This previous P/C for connecting the four caustic tanks which share the same manifold line (D1670, D1671, D1672, D1673) is being issued under A/N 530224 and will be canceled.
- A/N 501287: This previous P/C for replacing the existing DEA Skim Drum V-1490 (D1615), with a new Amine Flash Drum V-1491 (D1662); to replace existing vapor recovery discharge knock out drum V-305(D1303)with a new vapor recovery knock out drum V-2380 (D1663);to install three new pumps, each with a spare (for a total of 6 pumps) and to remove existing Naphtha Pump-Out Pump P- 3318 is being issued under A/N 530224 and will be canceled.

Process 21, System 1- Refinery Flare

- A/N 539336 Administration change to change the vessel number listed currently in the permit description of device D750 from V-616 to V-2369 due to identical replacement of the equipment.
- A/N 472870: This previous P/C for reconfiguring the flare header to connect to the flare gas recovery system is being issued under A/N 539336 and will be canceled.

Process 2, System 1- Delayed Coking Unit(DCU)

- A/N 501288 Conversion of Permit to Construct to Permit to Operate for replacing existing water coalescer V-943 (D1145), with a new larger coalescer V-2379 (D1661); and replacing the existing Fractionator Overhead Accumulator Sour Water Pump, P-1345, with a new Pump P-3436 and a spare pump P-3437.
- A/N 475638: This previous P/C for allowing the overhead accumulator V-905 (D15) to receive the new slop oil stream from the separator vessels V-2358 and V-2359 of the installed new flare gas recovery system is being issued under A/N 501288 and will be canceled.

Process 2, System 6- DCU Blowdown Recovery System

- A/N 520770 Conversion of Permit to Construct to Permit to Operate for adding a new steam condensate pot, V-X103 (D1684); adding a new blowdown contactor heat exchanger (steam heater), E-X101; adding a new condensate desuperheater, ME-X101; adding a new coke drum condensate injection, ME-X102;adding a new heavy blowdown oil (HBO) injection, ME-X103;and modifying the existing blowdown contactor, V-924 (D1152) by installing new hold down grid on top of packing, a new outlet nozzle bar screen, a new 6" nozzle for the HBO recycle stream; and a new wash oil internal spray distributor.
- A/N 472871: This previous P/C for disconnecting compressor C-105 as the spare for compressor C-137; additionally, C-137 is part of the flare recovery system (P21S4) by serving only as a spare compressor is being issued under A/N 520770 and will be canceled.

Process 4, System 9- Fuel Gas Treating System

- A/N 472874 Conversion of Permit to Construct to Permit to Operate for Conversion of Permit to Construct to Permit to Operate for modifying the flare gas treating tower V-598(D192) to treat the recovered gases from the new flare gas recovery system (P21S4).

Process 8, System 1- Hydrocracking Unit

- A/N 493279 Conversion of Permit to Construct to Permit to Operate for installing a new Amine Scrubber Feed knock out drum V-2381(D1652) to increase recovery of liquefied petroleum gas (LPG).

Process12, System 1- HCOD Treating Unit

- A/N 524237 Conversion of Permit to Construct to Permit to Operate for routing Dissolved Air Floatation (DAF) system tanks Tk-267 (D465) -Mix Tank, TK-158 (D463)- DAF, TK-47 (D471) -DAF Skim, and Tk-159A (D464)-DAF vents to the existing refinery vapor recovery system instead of connecting to carbon adsorbers C462 and C463 listed in this system. However, the existing carbon adsorbers remained in place and to be used as back-up control equipment.

Process 3, System 1- FCCU Recovery Section

A/N 472873 Conversion of Permit to Construct to Permit to Operate for modifying the Sour Water Flash Drum V-2344(D1598) to receive sour water stream purged from the new separator vessels V-2358 (D1605) and V-2359 (D1606) which were part of installed new flare gas recovery system.

Process 4, System 1- Hydrotreating Unit No.1

A/N 539333 Administration change to change the vessel number listed currently in the permit description of device D1184 from V-623 to V-2367 due to identical replacement of the equipment.

This Title V permit revision is covered under application A/N 539332.

Section H (Permit to Construct) – Minor Revision

	A/N	Equipment	Device ID	Process	System	Permit Action
1	532207	Fixed roof storage tank 80064 vented to vapor recovery system	D606	15	1	This modification involved storing Transmix gasoline product in addition to the current products.
2	535089	FCCU Recovery Section	D1718 and Multiple Devices	3	1	Modifying the FCCU Recovery section by replacing the existing Depropanizer Tower (V-410) in the FCCU Recovery Section (D908) with a functionally equivalent new Depropanizer Tower (V-410A).

The draft permits for the FCCU Recovery Unit and Tank 80064 were issued for EPA's 45-day review on June 29, 2012. No comment was received from EPA.

This Title V permit revision is covered under applications A/Ns 532205 and 535090.

Please review the attached sections carefully. Insert the enclosed sections into your Title V Facility Permit and discard the earlier version. Questions concerning changes to your permit should be directed to Ms. Sawsan Andrawis at (909) 396-2607.

Sincerely,



Jay Chen
Senior AQ Engineering Manager
Refinery and Waste Management Permitting
Engineering & Compliance

JC: TV: BC: SAA

Enclosure

cc: Gerardo C. Rios, U.S. EPA (via email to R9AirPermits_SC@epa.gov)
Edwin Pupka, Compliance, SCAQMD
Application Files
Central Permit File

