

Bay Area Air Quality Management District

375 Beale Street
San Francisco, CA 94105
(415) 749-5000

Proposed Permit Evaluation and Statement of Basis for RENEWAL of

MAJOR FACILITY REVIEW PERMIT "Revision 6" for Tesoro Refining and Marketing Company Facility # B2758 & B2759

Facility Address:

Martinez Refinery
150 Solano Way
Martinez, CA 94553

Amorco Terminal
1750 Marina Vista Way
Martinez, CA 94553

Mailing Address:

Martinez Refinery
150 Solano Way
Martinez, CA 94553

Application Engineer: Danny Nip
Site Engineer: Krishnan Balakrishnan

Application: 27668
July 2023

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Title V Statement of Basis

A. Background

This facility is subject to the Operating Permit requirements of Title V of the federal Clean Air Act, Part 70 of Title 40 of the Code of Federal Regulations (CFR), and Bay Area Air Quality Management District (BAAQMD) Regulation 2, Rule 6, Major Facility Review because it is a major facility as defined by BAAQMD Regulation 2-6-212. It is a major facility because it has the “potential to emit” (as defined by BAAQMD Regulation 2-6-218) more than 100 tons per year of a regulated air pollutant.

Major Facility Operating permits (Title V permits) must meet specifications contained in 40 CFR Part 70 as contained in BAAQMD Regulation 2, Rule 6. The permits must contain all “applicable requirements” (as defined in BAAQMD Regulation 2-6-202), monitoring requirements, recordkeeping requirements, and reporting requirements. The permit holders must submit reports of all monitoring at least every six months and compliance certifications at least every year.

In the Bay Area, state and Air District requirements are also applicable requirements and are included in the permit. These requirements can be federally enforceable or non-federally enforceable. All applicable requirements are contained in Sections I through VI of the permit.

Each facility in the Bay Area is assigned a facility identifier that consists of a letter and a 4-digit number. This identifier is also considered to be the identifier for the permit. The identifiers for these facilities are B2758 and B2759.

The Air District issued the initial Title V permit to these facilities on December 1, 2003. The permit has been reopened several times, as outlined below.

Revision 1: The Air District issued a reopened permit, Revision 1, that amended flare and Regulation 9-10 requirements, corrected errors, and incorporated some new sources and permit conditions on December 16, 2004. This reopening is generally referred to as “Revision 1”.

Revision 1.5: On October 8, 2004, the Environmental Protection Agency (EPA) sent a letter formally objecting to the permit because it did not include monitoring or a design review for the destruction efficiency of thermal oxidizers. The permit was revised to address EPA’s objection in a reopening of the permit that was proposed on February 1, 2005. The revised permit was issued on April 12, 2005. This reopening is generally referred to as “Revision 1.5”. There are no revisions designated 1.1, 1.2, 1.3 or 1.4.

Revision 2: EPA’s October 8, 2004 letter also included comments identifying a number of issues to be resolved in the Air District’s refinery Title V permits. (Note that EPA commented on five refineries in this letter. Not all comments concern this facility.) To address those deficiencies, the Air District proposed another reopening, generally referred to as “Revision 2”, and published it for public comment on April 15, 2005. In addition, some issues raised in the refinery’s appeal to the December 16, 2004 permit and some refinery comments on that permit were addressed.

Revision 3: On March 15, 2005, shortly before the Revision 2 reopening was proposed, EPA issued an Order directing the Air District to reopen the permit to address possible deficiencies that EPA had

identified based on petitions it received from the public to object to the permit. To address those possible deficiencies, the Air District proposed another reopening, generally referred to as Revision 3, in order to address the issues raised in the Order. The Air District proposed Revision 3 and published it for public comment on August 2, 2005. EPA and one other organization submitted comments. The Air District finalized Revision 2 and Revision 3 concurrently. The revised permit was issued on March 9, 2007.

Revision 4: During the time the Air District was addressing the issues of the Revision 2 reopening and the Revision 3 reopening, many permit applications were received from the facility. Revision 4 was a Significant Revision incorporating changes from all of these applications (listed in the statement of basis for that Revision). Revision 4 was the final permit revision prior to the 2008 permit renewal and forms the basis for the renewal submission. The revised permit was issued on March 20, 2008.

Revision 5: During the time the Air District was addressing the Revision 4 permit revision, many permit applications were received from the facility. Revision 5 was a Minor Revision incorporating changes from all of these applications (listed in the statement of basis for that Revision). Revision 5 was the final permit revision prior to this permit renewal and forms the basis for the renewal submission. The revised Revision 5 permit was issued on January 11, 2016.

Revision 6. This application is for a 5-year permit renewal, and will be designated "Revision 6". Although the current permit expired on June 27, 2016, it continues in force until the Air District takes final action on the permit renewal. The proposed permit shows all changes to the permit in strikeout/underline format. Details of proposed permit changes are listed in Section C of this document.

This statement of basis concerns only changes to the permit. A comprehensive statement of basis was prepared for the initial issuance of the permit and for each subsequent issuance (Revision 1, Revision 2, Revision 2/3, Revision 4 and Revision 5). These documents are considered to be the statement for basis for the entire permit. They are available on request.

Permit Applications

The following applications, approved since the Revision 5 permit was approved January 11, 2016, have been included in this renewed permit. Engineering Evaluations for these permit applications are included in Appendix D.

Application # (NSR/TV)	Revision Type	Project Description	Comments
23138/23139	Significant	S-1005 Hydrogen Plant Source Test Frequency Change of Conditions	Change of Conditions approved September 8, 2011
25718/25719	Minor	Grandfathered Limit Revisions for S-830 Wastewater Pond and S-977/S-980 Cooling Water Towers	Approved July 3, 2017 S-977 Removed from service August 30, 2022
26198/26199	Administrative	S-1025 Truck Rack Backpressure Monitoring for 8-33 Compliance	Approved June 17, 2015

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Application # (NSR/TV)	Revision Type	Project Description	Comments
26422/26423	Minor	NOx Box Revision for S-920	Approved June 25, 2015
26552	N/A	S-1510 Delayed Coker Steam Ejectors	Permit to Operate Granted November 13, 2014 S-1510 Removed from service October 14, 2022
26602/27668	Minor	Slop Oil System Operation Change Piping	Approved February 27, 2023
27030/27031	Minor	S-1517 Coker Flare Change in Conditions	Approved December 30, 2015
27054/27065	Minor	S-904 No 6 Boiler Burner Replacement	Approved March 13, 2020 S-904 Removed from service August 30, 2022
27309/27310	Minor	S-973 and S-974 3HDS Furnace Startup/Shutdown Duration Change in Conditions	Approved August 31, 2015 S-974 Removed from service August 30, 2022
27395/27396	Minor	S1550, S1551, S1553, S1558, S1559 Back-up Boilers	Permits to Operate Granted January 28, 2016 and April 17, 2018.
27564/27565	Minor	S-1411 Sulfuric Acid Plant Production Limit	Approved June 20, 2016 S-1411 Removed from service August 30, 2022
27791/27792	Minor	S-963 Alkylation Unit Gas Turbine Revised CAM Plan	Approved October 6, 2016 S-963 Removed from service per Application 28445
27799/27800	Minor	S-1555 Reformate Splitter Modification	Authority to Construct Granted November 8, 2017. Application Cancelled October 2019.
27990/27991	Minor	S-1526 Avon Wharf Berth 1A Project	Permit to Operate Granted June 27, 2017

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Application # (NSR/TV)	Revision Type	Project Description	Comments
28073/28104	Minor	S-901 FCCU CO Boiler Low NOx Burners	Permit to Operate Granted August 17, 2017 S-901 Removed from service August 30, 2022
28445/28446	Minor	S-963 Gas Turbine Replacement with Electric Motor	Permit to Operate Granted October 10, 2017
28553/28549	Minor	S-1572 No. 4 Gas Plant Emergency Generator	Permit to Operate Granted January 11, 2018
28916	n/a	Groundwater Remediation Change in Operation	Authority to Construct expired on August 22, 2021
29058/29059	Minor	Add Supplemental Gas Equipment to Flares	Permit to Operate Granted July 10, 2018
29278/29274	Minor	Administrative Change in Conditions 8077, 13605, 18372, 18539, 19199, 20099, 21053, 21100, 22070, 22150, 23129, 24649, 25476	Approved February 10, 2021
29401	n/a	New S802 FCCU Feed 'Biocrude' in Tank S709	Authority to Construct expired on November 5, 2021
29416/29417	Minor	Install Flare Gas H2S Treatment	Permit to Operate Granted October 1, 2018
30642/30783	Minor	Event Contractor Equipment Change in Conditions	Approved February 11, 2021
30729	Minor	S-1401 SRU Change of Condition	Approved April 29, 2021 S-1401 Removed from service August 30, 2022
30768/30769	Significant	Renewable Fuels Project	Authority to Construct Granted September 13, 2022
30806/30808	Minor	Facility-Wide Alternate NOx Compliance Plan	Permit to Operate Granted December 1, 2022

Application # (NSR/TV)	Revision Type	Project Description	Comments
30827/32023	Minor	S-1599 Emergency Diesel Generator for Surge Pond #2 Pump	Permit to Operate Granted March 15, 2021
31305/32023	Minor	A-1584 Portable Thermal Oxidizer to Control Vapors	Permit to Operate Granted October 25, 2022
31915/30769	Minor	S-1601 Aqueous Ammonia Tank Exemption	Certificate of Exemption Granted November 29, 2022
31991/30769	Minor	S-646 and S-647 Renewable Propane Tank	Certificate of Exemption Granted February 14, 2023
32029/32030	Significant	Tanks Applicability for TV Permit	Approved June 8, 2023

B. Facility Description

The Title V permit includes the Refinery and the Amorco Marine Terminal.

Prior to February 20, 2023, the Refinery was classified as an oil refinery or a petroleum refinery. An oil refinery is an intermediary between crude oil and a refined product. It takes crude oil and distills it under atmospheric pressure into its primary components: gases (light ends), gasolines, kerosene and diesels (middle distillates), heavy distillates, and heavy bottoms. The heavy bottoms go on to a vacuum distillation unit to be distilled again, this time under a vacuum, to further recover any light ends or middle distillates that did not get separated under atmospheric pressure; the heaviest bottoms continue on to a coker or an asphalt plant.

Other product components are processed by downstream units to be cleaned (hydrotreated), cracked (catalytic or hydrocracking), reformed (catalytic reforming), or alkylated (alkylation) to form gasolines and high-octane blending components, or to have sulfur or other impurities removed to make ultra-low sulfur diesel. Depending on the process units in a refinery and the crude oil input, an oil refinery can produce a wide range of salable products: many different grades of gasoline and gasoline blend stocks, several grades of diesel, kerosene, jet and aviation fuel, fuel oil, bunker fuels, waxes, solvents, sulfur, coke, asphalt, or chemical plant feedstocks.

A more detailed description of petroleum refinery processes and the resulting air emissions may be found in Chapter 5 of EPA's publication AP-42, Compilation of Air Pollutant Emission Factors. This document may be found at:

<http://www.epa.gov/ttn/chief/ap42/ch05/>

The principal sources of air emissions from petroleum refineries are:

- Combustion units (furnaces, boilers, and cogeneration facilities)
- FCC (Fluidized Catalytic Cracking)

- Storage tanks
- Fugitive emissions from pipe fittings, pumps, and compressors
- Sulfur plants
- Wastewater treatment facilities

Tesoro also owns and operates the following additional sources of air emissions:

- Ammonia Recovery Unit
- Sulfuric Acid Manufacturing Plant

As of February 20, 2023, the Refinery is no longer classified as an oil refinery or a petroleum refinery, but is now classified as a renewable fuels facility. Tesoro suspended refining of crude oil in April 2020 and began the process of obtaining all required permits to repurpose the existing refinery to discontinue refining of crude oil and switch to the production of fuels from alternative feedstock sources including biological-based oils (e.g., soybean oil and corn oil), rendered fats, used cooking oils, other vegetable oils, and alternative biologically derived feedstocks.

The transition to renewable fuels consists primarily of a change in production processes rather than a change in facilities (i.e., construction), as it uses existing refining equipment and transportation facilities. Many existing equipment have been repurposed and new equipment have been added to the process to accommodate the renewable feedstocks. Existing process units have been physically retrofitted with new equipment and a different reactor catalyst blend to operate as hydrodeoxygenation units, the principal process in creating renewable diesel and to operate as the diesel isomerization unit for isomerization (dewaxing, which improves renewable diesel's cold weather properties). New equipment added to the process include pretreatment unit, wastewater treatment equipment, and a sour water stripper thermal oxidizer. Tesoro is no longer using Amorco Marine Terminal to unload crude oil, but will be using it to load renewable diesel. In addition, various existing refinery units have been shut down as part of this transition.

The principal sources of air emissions from a renewable fuels facility are:

- Combustion units (furnaces, boilers, and cogeneration facilities)
- Storage tanks
- Fugitive emissions from pipe fittings, pumps, and compressors
- Wastewater treatment facilities

Tesoro is no longer permitted to operate the following sources of air emissions:

- FCC (Fluidized Catalytic Cracking)
- Sulfur plants
- Ammonia Recovery Unit
- Sulfuric Acid Manufacturing Plant

Combustion unit emissions are generally controlled through the use of burner technology, steam injection, or selective catalytic reduction. Storage tank emissions are controlled through the use of add on control and/or fitting loss control.

The total facility emissions are expected to decrease as a result of the Renewable Fuels Project because various high-polluting equipment, such as the FCCU, have been shut down and permits relinquished.

C. Permit Content

The legal and factual basis for the permit follows. The permit sections are described in the order presented in the permit.

I. Standard Conditions

This section contains administrative requirements and conditions that apply to all facilities. Many of these conditions derive from 40 CFR § 70.6, Permit Content, which dictates certain standard conditions that must be placed in the permit. The language that the Air District has developed for many of these requirements has been adopted into the BAAQMD Manual of Procedures, Volume II, Part 3, Section 4, and therefore must appear in the permit.

The standard conditions also contain references to BAAQMD Regulation 1 and Regulation 2. These are the Air District’s General Provisions and Permitting rules.

Changes to permit

Changes to Section I				
Item	Sources	Location	Change	Reason
1	All	Cover Page	Updated BAAQMD address	BAAQMD relocated
2	All	Cover Page	Changed facility name of Facility and Mailing Addresses	Tesoro’s request via Application 30769
3	All	Cover Page	Changed Responsible Official and Title	Tesoro’s request via Applications 30846 and 32097
4	All	Cover Page	Changed Facility Contact, Title, and Contact Information	Tesoro’s request via Application 30769
5	All	Cover Page	Changed Type of Facility, Primary SIC, and Product	Facility is no longer a petroleum refinery and has been converted to a renewable fuels facility via Application 30768.
6	All	I.A	Updated dates	Dates of amendments
7	All	I.F & I.J.2	Updated address	BAAQMD relocated
8	All	I.J.5 & I.J.6	Added standard conditions	New miscellaneous standard conditions

II. Equipment

This section of the permit lists all permitted, significant, exempt and contractor sources. Each source is identified by an S and a number (e.g., S24 or S-24).

Permitted sources are those sources that require a BAAQMD operating permit pursuant to Regulation 2-1-302. Significant sources are those sources that have a potential to emit of more than 2 tons of a “regulated air pollutant,” as defined in BAAQMD Rule 2-6-222, per year or 400 pounds of a “hazardous

air pollutant,” as defined in BAAQMD Rule 2-6-210, per year. Exempt sources are those sources that are exempt from permitting in accordance with an exemption in BAAQMD Regulation 2, Rule 1. The applicable exemption is listed for each exempt source. Contractor sources are those sources not owned or operated by the owner/operator of the Major Facility and are stationary sources because they have been located at the Major Facility for more than a 12-month period.

All abatement (control) devices that control permitted or exempt sources are listed. Each abatement device whose primary function is to reduce emissions is identified by an A and a number (e.g., A-24). If a source is also an abatement device, such as when an engine controls VOC emissions, it will be listed in the abatement device table but will have an “S” number. An abatement device may also be a source (such as a thermal oxidizer that burns fuel) of secondary emissions. If the primary function of a device is to control emissions, it is considered an abatement (or “A”) device. If the primary function of a device is a non-control function, the device is considered to be a source (or “S”). Flares are unique in that they are considered both a source and an abatement device. Flares are considered sources, subject to BAAQMD Regulation 12, Rules 11 and 12, and have source (or “S”) numbers. Flares are also abatement devices, as defined in Regulation 1-240, because the sole purpose of a flare is to reduce emissions associated with the vent gas sent to the flares. Consequently, the flares are, per Air District policy, included in both the permitted source and the abatement device tables.

The equipment section is considered to be part of the facility description. It contains information that is necessary for applicability determinations, such as fuel types, contents or sizes of tanks, etc. This information is part of the factual basis of the permit.

Each of the permitted sources has previously been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. These permits are issued in accordance with state law and the Air District’s regulations. The capacities in the permitted sources table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-403.

To improve the Equipment section, the permitted sources have been split into three additional tables. The first new table is for permitted sources that have been permitted pursuant to Regulation 2, Rule 2 New Source Review. The second new table lists the sources that have enforceable limits, but the emissions from these sources have not been evaluated pursuant to the requirements of Regulation 2, Rule 2 New Source Review. The third new table lists the Grandfathered sources. The significance of these different groups of sources is explained in the Section VI. Permit Conditions portion of this Statement of Basis.

Changes to permit

Following is a list of the changes in Section II Equipment List between the Revision 5 and the Renewal:

Changes to Section II				
Table II A1 - Permitted Sources – Golden Eagle Refinery				
Item	Source	Location	Change	Reason
1	n/a	Title	Updated facility name	Applications 30768/30769
2	S97	All	Removed source from table	Removed from service via Applications 30768/30769
3	S98	All	Removed source from table	Removed from service via Applications 30768/30769

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4	S99	All	Removed source from table	Removed from service via Applications 30768/30769
5	S100	All	Removed source from table	Applications 27990/27991
6	S108	All	Removed source from table	Applications 27990/27991
7	S115	All	Changed from grandfathered limit to firm limit.	Applications 30768/30769
8	S135	All	Removed source from table	Removed from service 2-2-2023
9	S315	All	Removed source from table	Source demolished
10	S318	All	Removed source from table	Source demolished
11	S323	Description	Updated storage material	Applications 30768/30769
12	S327	All	Removed source from table	Removed from service
13	S367	All	Removed source from table	Source demolished
14	S432	All	Removed source from table	Changed from S432 to S2013 via Applications 30768/30769
15	S513	All	Removed source from table	Source demolished
16	S529	All	Removed source from table	Source demolished
17	S530	All	Removed source from table	Source demolished
18	S587	All	Removed source from table	Source demolished
19	S588	All	Removed source from table	Source demolished
20	S590	All	Removed source from table	Removed from service via Applications 30768/30769
21	S598	All	Added source to table.	Changed from exempt to permitted via Applications 30768/30769
22	S601	Capacity	Established Firm Limit	Applications 30768/30769
23	S606	All	Removed source from table	Removed from service via Applications 30768/30769
24	S607	All	Removed source from table	Removed from service via Applications 30768/30769
25	S621	All	Added source to table.	Changed from exempt to permitted via Applications 30768/30769
26	S629	All	Removed source from table	Removed from service
27	S631	All	Removed source from table	Removed from service 4-4-2023
28	S637	Capacity	Updated Grandfathered Capacity	Detailed Grandfathered source evaluation in Application 27799.
29	S638	Capacity	Updated Grandfathered Capacity	Detailed Grandfathered source evaluation in Application 27799.
30	S639	Capacity	Updated Grandfathered Capacity	Detailed Grandfathered source evaluation in Application 27799.

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Changes to Section II				
31	S640	Capacity	Updated Grandfathered Capacity	Detailed Grandfathered source evaluation in Application 27799.
32	S641	Capacity	Updated Grandfathered Capacity	Detailed Grandfathered source evaluation in Application 27799.
33	S642	All	Removed source from table	Removed from service via Applications 30768/30769
34	S650	Description, Capacity, and Limit Basis	Updated storage material and established Firm Limit	Applications 30768/30769
35	S651	Description, Capacity, and Limit Basis	Updated storage material and established Firm Limit	Applications 30768/30769
36	S652	All	Added source to table.	Changed from exempt to permitted via Applications 30768/30769
37	S656	Description, Capacity, and Limit Basis	Established Firm Limit	Applications 30768/30769
38	S658	Description, Capacity, and Limit Basis	Established Firm Limit	Applications 30768/30769
39	S659	All	Removed source from table	Source demolished
40	S660	All	Removed source from table	Source demolished
41	S690	Limit Basis	Added "New Source Review"	S690 was subject to the requirements of Regulation 2, Rule 2 in NSR Application 11737
42	S692	Description, Capacity, and Limit Basis	Updated storage material and established Firm Limit	Applications 30768/30769
43	S695	All	Added source to table.	Changed from exempt to permitted via Applications 30768/30769
44	S699	All	Changed from grandfathered limit to firm limit.	Applications 30768/30769
45	S700	All	Changed from grandfathered limit to firm limit.	Applications 30768/30769
46	S706 S707 S708 S709	Capacity and Limit Basis	Corrected Capacity and added organic emissions limits	Detailed New Source Review evaluation in 1978 Application 26763.
47	S795	All	Removed source from table	Removed from service via Applications 30768/30769
48	S802	All	Removed source from table	Removed from service via Applications 30768/30769

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Changes to Section II				
49	S815	All	Removed source from table	Removed from service via Applications 30768/30769
50	S816	All	Removed source from table	Removed from service via Applications 30768/30769
51	S817	All	Removed source from table	Removed from service via Applications 30768/30769
52	S819	All	Established Firm Limit	Applications 30768/30769
53	S825	All	Removed source from table	Removed from service via Applications 30768/30769
54	S830	Capacity	Established Firm Limit	Applications 30768/30769
55	S831	Capacity	Established Firm Limit	Applications 30768/30769
56	S842	Capacity	Established Firm Limit	Applications 30768/30769
57	S846	Description, Capacity, and Limit Basis	Updated source description and established firm limit	Applications 30768/30769
58	S850	Description, Capacity, and Limit Basis	Updated source description and updated firm limit	Applications 30768/30769
59	S851	All	Removed source from table	Removed from service via Applications 30768/30769
60	S856	All	Removed source from table	Removed from service via Applications 30768/30769
61	S901	All	Removed source from table	Removed from service via Applications 30768/30769
62	S902	All	Removed source from table	Removed from service via Applications 30768/30769
63	S904	All	Removed source from table	Removed from service via Applications 30768/30769
64	S908	All	Removed source from table	Removed from service via Applications 30768/30769
65	S909	All	Removed source from table	Removed from service via Applications 30768/30769
66	S912	All	Removed source from table	Removed from service via Applications 30768/30769
67	S913	All	Removed source from table	Removed from service via Applications 30768/30769
68	S915	All	Removed source from table	Removed from service via Applications 30768/30769
69	S916	All	Removed source from table	Removed from service via Applications 30768/30769
70	S917	All	Removed source from table	Removed from service via Applications 30768/30769
71	S919, S920	Description,	Updated fuel type	Applications 30768/30769
72	S919	Capacity	Updated capacity for S919	Administrative

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Changes to Section II				
73	S921	All	Removed source from table	Removed from service via Applications 30768/30769
74	S922	All	Removed source from table	Removed from service via Applications 30768/30769
75	S927	All	Removed source from table	Removed from service via Applications 30768/30769
76	S928, S929, S930, S931, S932, S933, S934, S935, S937	Description	Updated fuel type	Applications 30768/30769
77	S950	All	Removed source from table	Removed from service via Applications 30768/30769
78	S951	All	Removed source from table	Removed from service via Applications 30768/30769
79	S955	All	Removed source from table	Removed from service via Applications 30768/30769
80	S956	All	Removed source from table	Removed from service via Applications 30768/30769
81	S957	All	Removed source from table	Removed from service via Applications 30768/30769
82	S958	All	Removed source from table	Removed from service via Applications 30768/30769
83	S959	All	Removed source from table	Removed from service via Applications 30768/30769
84	S960	All	Removed source from table	Removed from service via Applications 30768/30769
85	S963	All	Deleted source	Applications 28445/28446
86	S971	All	Removed source from table	Removed from service via Applications 30768/30769
87	S972	All	Removed source from table	Removed from service via Applications 30768/30769
88	S973	Description	Updated fuel type and stack description	Applications 30768/30769
89	S974	All	Removed source from table	Removed from service via Applications 30768/30769
90	S975	All	Removed source from table	Removed from service via Applications 30768/30769
91	S976	Capacity and Firm Basis	Established Firm Limit	Applications 30768/30769
92	S977	All	Removed source from table	Removed from service via Applications 30768/30769

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Changes to Section II				
93	S978	Capacity and Firm Basis	Established Firm Limit	Applications 30768/30769
94	S979	All	Removed source from table	Removed from service via Applications 30768/30769
95	S980	Description, Capacity, and Limit Basis	Updated description and established firm limit	Applications 30768/30769
96	S981	All	Removed source from table	Removed from service via Applications 30768/30769
97	S982	Description	Updated description	Applications 30768/30769
98	S983	All	Removed source from table	Removed from service via Applications 30768/30769
99	S985	Capacity and Firm Basis	Established Firm Limit	Applications 30768/30769
100	S987	All	Removed source from table	Removed from service via Applications 30768/30769
101	S988	All	Removed source from table	Removed from service via Applications 30768/30769
102	S990	All	Removed source from table	Removed from service 3-21-2023
103	S1001	All	Removed source from table	Removed from service via Applications 30768/30769
104	S1002	Description, Capacity, and Limit Basis	Updated description and updated firm limit	Applications 30768/30769
105	S1003	Description, Capacity, and Limit Basis	Updated description and updated firm limit	Applications 30768/30769
106	S1004	All	Removed source from table	Removed from service via Applications 30768/30769
107	S1006	All	Removed source from table	Removed from service via Applications 30768/30769
108	S1007	Description, Capacity, and Limit Basis	Updated description and updated firm limit	Applications 30768/30769
109	S1008	Description, Capacity, and Limit Basis	Updated description and updated firm limit	Applications 30768/30769
110	S1009	All	Removed source from table	Removed from service via Applications 30768/30769
111	S1013	All	Removed source from table	Removed from service via Applications 30768/30769
112	S1020	All	Removed source from table	Removed from service via Applications 30768/30769
113	S1025	Description and Capacity	Updated loading material and updated firm limit	Applications 30768/30769

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Changes to Section II				
114	S1040	All	Removed source from table	Removed from service via Applications 30768/30769
115	S1401	All	Removed source from table	Removed from service via Applications 30768/30769
116	S1404	All	Removed source from table	Removed from service via Applications 30768/30769
117	S1405	All	Removed source from table	Removed from service via Applications 30768/30769
118	S1411	All	Removed source from table	Removed from service via Applications 30768/30769
119	S1412	All	Removed source from table	Removed from service via Applications 30768/30769
120	S1413	All	Removed source from table	Removed from service via Applications 30768/30769
121	S1414	All	Removed source from table	Removed from service on 3-21-2023
122	S1415	All	Removed source from table	Removed from service via Applications 30768/30769
123	S1416	All	Removed source from table	Removed from service via Applications 30768/30769
124	S1418	All	Removed source from table	Removed from service on 3-21-2023
125	S1421	All	Removed source from table	Removed from service 4-4-2023
126	S1422	All	Removed source from table	Removed from service via Applications 30768/30769
127	S1463	All	Removed source from table	Removed from service via Applications 30768/30769
128	S1464	Description and Capacity	Updated storage material and updated firm limit	Applications 30768/30769
129	S1465	Description and Capacity	Updated storage material and updated firm limit	Applications 30768/30769
130	S1469	All	Removed source from table	Removed from service via Applications 30768/30769
131	S1470	All	Removed source from table	Removed from service via Applications 30768/30769
132	S1475	All	Removed source from table	Source removed from service and off site. (Tesoro 3/3/17 letter)
133	S1476	All	Removed source from table	Source removed from service and off site. (Tesoro 3/3/17 letter)
134	S1484	All	Removed source from table	Removed from service via Applications 30768/30769
135	S1496	All	Removed source from table	Removed from service via Applications 30768/30769

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Changes to Section II				
136	S1508	All	Removed source from table	Removed from service via Applications 30768/30769
137	S1509	All	Removed source from table	Removed from service via Applications 30768/30769
138	S1510	All	Removed source from table	Removed from service via Applications 30768/30769
139	S1511	Description	Updated description	Applications 30768/30769
140	S1512	Description	Updated description	Applications 30768/30769
141	S1513	All	Removed source from table	Removed from service via Applications 30768/30769
142	S1514	All	Removed source from table	Removed from service via Applications 30768/30769
143	S1515	All	Removed source from table	Removed from service via Applications 30768/30769
144	S1516	All	Removed source from table	Removed from service via Applications 30768/30769
145	S1517	Capacity	Revised flare purge and pilots limit	Applications 27030/27031
146	S1518	Capacity and Limit Basis	Changed limit from 50 hr/yr to 34 hr/yr and eplaced Condition 23811 with 22851	Consistent with other fire pump engines.
147	S1519	Capacity and Limit Basis	Changed limit from 50 hr/yr to 34 hr/yr and eplaced Condition 23811 with 22851	Consistent with other fire pump engines.
148	S1524	All	Removed source from table	Removed from service via Applications 30768/30769
149	S1526	Description, Capacity, and Limit Basis	Updated description and established firm limit	Applications 30768/30769
150	S1528	Capacity	Added Firm Limit	Condition 13605
151	S1549	Description	Removed specific diesel additive product name	Applications 29278/29274
152	S1550	Capacity	Added firing rate limit for all 5 backup boilers	Applications 27395/27396
153	S1551	Capacity	Added firing rate limit for all 5 backup boilers	Applications 27395/27396
154	S1553	Capacity	Added firing rate limit for all 5 backup boilers	Applications 27395/27396
155	S1557	Limit Basis	Corrected to Condition 23811	Condition 22850 was incorrect.
156	S1558	All	Added source	Applications 27395/27396
157	S1559	All	Added source	Applications 27395/27396
158	S1560	All	Added source	Applications 27990/27991; Tesoro 8/3/18 Comment #3. Applications 30768/30769
159	S1561	All	Added source	Applications 27990/27991

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Changes to Section II				
160	S1562	All	Added source	Applications 27990/27991
161	S1562	Capacity and Limit Basis	Changed limit from 50 hr/yr to 34 hr/yr and replaced Condition 23811 with 22851	Consistent with other fire pump engines.
162	S1563	All	Added source	Applications 27990/27991
163	S1563	Capacity and Limit Basis	Changed limit from 50 hr/yr to 34 hr/yr and replaced Condition 23811 with 22851	Consistent with other fire pump engines.
164	S1564	All	Added source	Applications 27990/27991
165	S1571	All	Added and removed source	Added via Applications 28336/28346 Removed from service via Applications 30768/30769
166	S1572	All	Added source	Applications 28553/28549
167	S1599	All	Added source	Applications 30827/32023
168	S1600	All	Added source	Applications 30768/30769
169	S2001	All	Added source	Applications 30768/30769
170	S2003	All	Added source	Applications 30768/30769
171	S2010	All	Added source	Applications 30768/30769
172	S2013	All	Added source	Applications 30768/30769
173	S2023	All	Added source	Applications 30768/30769
174	S2025	All	Added source	Applications 30768/30769
175	Various	Note 1	Updated note due to removed sources and change in operation.	Applications 30768/30769
176	S1013	Note 3	Deleted note	Removed from service via Applications 30768/30769
177	S1524	Note 4	Deleted note	Removed from service via Applications 30768/30769

Table II A2 – Permitted Sources Amarco Terminal

Item	Source	Location	Change	Reason
1	n/a	Title	Updated facility name	Applications 30768/30769
2	S55	All	Removed source from table	Changed from permitted to exempt via Applications 30768/30769
3	S57	Capacity and Limit Basis	Changed limit from 50 hr/yr to 34 hr/yr and replaced Condition 23811 with 22851	Consistent with other fire pump engines.

Table II B – Abatement Devices

Item	Device	Location	Change	Reason
1	n/a	Title	Updated facility name	Applications 30768/30769
2	A3	All	Removed device from table	Removed from service via Applications 30768/30769
3	A4	All	Removed device from table	Removed from service via Applications 30768/30769
4	A6	All	Removed device from table	S809 and A6 have been archived in 2004.

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Changes to Section II				
5	A12	Sources Controlled	Deleted S529, S530, S815, S816, S817	Sources demolished and Removed from service via Applications 30768/30769
6	A12	Operating Parameters	Updated fuel gas	Applications 30768/30769
7	A14	Description	Updated fuel gas system	Applications 30768/30769
8	A14	Sources Controlled	Deleted S100 Deleted S318 Deleted S327 Deleted S367 Deleted S432 Deleted S513 Deleted S1484	Applications 27990/27991; Source demolished Removed from service via Applications 30768/30769 Source demolished Removed from service via Applications 30768/30769 Source demolished Removed from service via Applications 30768/30769
9	A14	Limit	Revised POC limit for S1025	Applications 31305/32023
10	A14	All	Added row for S1560/A1560	Applications 27990/27991
11	A14	All	Deleted row for S1554	Applications 30768/30769
12	A30	All	Removed device from table	Removed from service via Applications 30768/30769
13	A31	Sources Controlled	Deleted S974	Removed from service via Applications 30768/30769
14	A31	Applicable Requirement	Corrected 8077-B2A to 8077-A2A	Applications 27309/27310
15	A31	Applicable Requirement	Corrected 8077-B2B to 8077-A2B	Applications 27309/27310
16	A31	Operating Parameters	Revised hours for startup and shutdown to 432hrs/12-mo	Applications 27309/27310
17	A31	Limit	Revised NOx limit to 130.5 lb/rolling 24 hours for S973. S974 is removed from service.	Applications 30768/30769
18	A31	Limit	Revised NOx limit to 2628 lb/rolling 12-month	Applications 27309/27310
19	A796	All	Removed device from table	Removed from service via Applications 30768/30769
20	A904	All	Removed device from table	Removed from service via Applications 30768/30769
21	A908	All	Removed device from table for S908 and S1470	Removed from service via Applications 30768/30769
22	A955	All	Removed device from table	Removed from service via Applications 30768/30769
23	A956	All	Removed device from table	Removed from service via Applications 30768/30769
24	A957	All	Removed device from table	Removed from service via Applications 30768/30769

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Changes to Section II				
25	A958	All	Removed device from table	Removed from service via Applications 30768/30769
26	A959	All	Removed device from table	Removed from service via Applications 30768/30769
27	A960	All	Removed device from table	Removed from service via Applications 30768/30769
28	A963	All	Deleted device	Applications 28445/28446
29	A1402	All	Removed device from table	Removed from service via Applications 30768/30769
30	A1403	All	Removed device from table	Removed from service via Applications 30768/30769
31	A1404	All	Removed device from table	Removed from service via Applications 30768/30769
32	A1417	All	Removed device from table	Removed from service via Applications 30768/30769
33	A1418	All	Removed device from table	Removed from service via Applications 30768/30769
34	A1421	All	Removed device from table	Removed from service via Applications 30768/30769
35	A1422	All	Removed device from table	Removed from service via Applications 30768/30769
36	A1431	All	Removed device from table	Removed from service via Applications 30768/30769
37	A1432	All	Removed device from table	Removed from service via Applications 30768/30769
38	A1433	All	Removed device from table	Removed from service 8-30-2022
39	A1511	Description	Updated description	Applications 30768/30769
40	A1512	Description	Updated description	Applications 30768/30769
41	A1514	All	Removed device from table	Removed from service via Applications 30768/30769
42	A1515	All	Removed device from table	Removed from service via Applications 30768/30769
43	A1524	All	Removed device from table	Removed from service via Applications 30768/30769
44	A1525	All	Removed device from table	Removed from service via Applications 30768/30769
45	A1526	All	Removed device from table	Removed from service via Applications 30768/30769
46	A1550	Operating Parameters	Revised the number of hours of operation without abatement	Applications 27395/27396
47	A1551	Operating Parameters	Revised the number of hours of operation without abatement	Applications 27395/27396
48	A1553	Operating Parameters	Revised the number of hours of operation without abatement	Applications 27395/27396
49	A1558	All	Added abatement device	Applications 27395/27396

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Changes to Section II				
50	A1559	All	Added abatement device	Applications 27395/27396
51	A1560	All	Added abatement device	Applications 27990/27991
52	A1583	All	Added abatement device	Applications 29416/29417
53	A1584	All	Added abatement device	Applications 31305/32023
54	A1584	Sources Controlled	Deleted S432, S1484, S1496, S1554	Applications 30768/30769
55	A1584	Sources Controlled	Deleted S327	Removed from service 10-14-2022
56	A2000	All	Added abatement device	Applications 30768/30769
57	A2001	All	Added abatement device	Applications 30768/30769
58	A2002	All	Added abatement device	Applications 30768/30769
59	S950	All	Removed device from table	Removed from service via Applications 30768/30769
60	S1013	All	Removed device from table	Removed from service via Applications 30768/30769
61	S1401	All	Removed device from table	Removed from service via Applications 30768/30769
62	S1411	All	Removed device from table	Removed from service via Applications 30768/30769
63	S1524	All	Removed device from table	Removed from service via Applications 30768/30769
Table II C1 – Sources Exempt From Permitting				
Item	Source	Location	Change	Reason
1	S2	All	Removed source from table	Demolished
2	S57	All	Removed source from table	Removed from service 3-21-2023
3	S126 S127	Capacity	Updated capacity	Applications 30768/30769
4	S198	All	Removed source from table	Demolished per Regulation 12-15 (Refinery Emissions Inventory)
5	S269	All	Removed source from table	Demolished
6	S271	All	Removed source from table	Demolished
7	S368	All	Removed source from table	Demolished
8	S369	All	Removed source from table	Removed from service
9	S377	All	Removed source from table	Demolished
10	S378	All	Removed source from table	Demolished
11	S406	All	Removed source from table	Removed from service
12	S429	Comment	Updated Exemption Citation	Applications 32029/32030
13	S494	Comment	Added Exemption Citation	Tesoro 8-3-18 Comment #6
14	S503	All	Removed source from table	Demolished
15	S517	Description and Comment	Added storage material and updated Exemption Citation	Applications 30768/30769

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Changes to Section II				
16	S598	All	Removed source from table	Changed from exempt to permitted via Applications 30768/30769
17	S620	Description and Comment	Added storage material and updated Exemption Citation	Applications 30768/30769
18	S621	All	Removed source from table	Changed from exempt to permitted via Applications 30768/30769
19	S622	Description and Comment	Added storage material and updated Exemption Citation	Applications 30768/30769
20	S648	Description	Added storage material	Applications 30768/30769
21	S649	Description	Added storage material	Applications 30768/30769
22	S652	All	Removed source from table	Changed from exempt to permitted via Applications 30768/30769
23	S662	All	Removed source from table	Removed from service via Applications 30768/30769
24	S666	Description	Added storage material	Applications 30768/30769
25	S667	Description	Added storage material	Applications 30768/30769
26	S668	Description	Added storage material	Applications 30768/30769
27	S669	Description	Added storage material	Applications 30768/30769
28	S670	Description	Added storage material	Applications 30768/30769
29	S695	All	Removed source from table	Changed from exempt to permitted via Applications 30768/30769
30	S804	All	Removed source from table	Removed from service via Applications 30768/30769
31	S822	All	Removed source from table	Removed from service via Applications 30768/30769
32	S834	All	Removed source from table	Removed from service via Applications 30768/30769
33	S853	All	Added and removed source	Correct omission. Source permitted in 1984 and included in the Permit to Operate Removed from service via Applications 30768/30769
34	S873	Description and Comment	Added storage material and updated Exemption Citation	Applications 30768/30769
35	S1024	All	Removed source from table	Removed from service
36	S1463	All	Added source to table	Applications 30768/30769
37	S1498	All	Removed source from table	Correction. Removed from service in 2009

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Changes to Section II				
38	S1543	All	Removed source from table	Removed from facility. Removal request rescinded by Tesoro in 2/26/2019 Comment # 11.
39	S1544	All	Removed source from table	Removed from facility. Removal request rescinded by Tesoro in 2/26/2019 Comment # 11.
40	S1545	All	Removed source from table	Removed from facility. Removal request rescinded by Tesoro in 2/26/2019 Comment # 11.
41	S1546	All	Removed source from table	Removed from facility. Removal request rescinded by Tesoro in 2/26/2019 Comment # 11.
42	S1547	All	Removed source from table	Removed from facility. Removal request rescinded by Tesoro in 2/26/2019 Comment # 11.
43	S1548	All	Removed source from table	Removed from facility. Removal request rescinded by Tesoro in 2/26/2019 Comment # 11.
44	S1552	All	Removed source from table	Transferred to Table II-A.1
45	S1554	All	Added source to table	Applications 30768/30769
46	S1567	All	Added source to table	Applications 27990/27991
47	S1568	All	Added source to table	Applications 27990/27991
48	S1601	All	Added source to table	Applications 30768/30769
49	S2002	All	Added source to table	Applications 30768/30769
50	S2004	All	Added source to table	Applications 30768/30769
51	S2005	All	Added source to table	Applications 30768/30769
52	S2006	All	Added source to table	Applications 30768/30769
53	S2007	All	Added source to table	Applications 30768/30769
54	S2008	All	Added source to table	Applications 30768/30769
55	S2009	All	Added source to table	Applications 30768/30769
56	S2011	All	Added source to table	Applications 30768/30769
57	S2012	All	Added source to table	Applications 30768/30769
58	S2014	All	Added source to table	Applications 30768/30769
59	S2015	All	Added source to table	Applications 30768/30769
60	S2016	All	Added source to table	Applications 30768/30769
61	S2017	All	Added source to table	Applications 30768/30769
62	S2018	All	Added source to table	Applications 30768/30769
63	S2019	All	Added source to table	Applications 30768/30769
64	S2022	All	Added source to table	Applications 30768/30769
65	S2024	All	Added source to table	Applications 30768/30769

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Changes to Section II				
66	S2026	All	Added source to table	Applications 30768/30769
67	S2028	All	Added source to table	Applications 30768/30769
68	S32120	All	Added source to table	New exempt tank added per Regulation 12-15 Calendar Year 2020 Emission Inventory
69	S32121	All	Added source to table	New exempt tank added per Regulation 12-15 Calendar Year 2020 Emission Inventory
70	S32122	All	Added source to table	New exempt tank added per Regulation 12-15 Calendar Year 2020 Emission Inventory
71	S32123	All	Added source to table	New exempt tank added per Regulation 12-15 Calendar Year 2020 Emission Inventory
72	S32124	All	Added source to table	New exempt tank added per Regulation 12-15 Calendar Year 2020 Emission Inventory
73	S32125	All	Added source to table	New exempt tank added per Regulation 12-15 Calendar Year 2020 Emission Inventory
74	S32126	All	Added source to table	New exempt tank added per Regulation 12-15 Calendar Year 2020 Emission Inventory
75	S32127	All	Added source to table	New exempt tank added per Regulation 12-15 Calendar Year 2020 Emission Inventory
76	S32128	All	Added source to table	New exempt tank added per Regulation 12-15 Calendar Year 2020 Emission Inventory
77	S32129	All	Added source to table	New exempt tank added per Regulation 12-15 Calendar Year 2020 Emission Inventory
78	S32132	All	Added source to table	New exempt tank added per Regulation 12-15 Calendar Year 2020 Emission Inventory
79	S32133	All	Added source to table	New exempt tank added per Regulation 12-15 Calendar Year 2020 Emission Inventory
80	S32134	All	Added source to table	New exempt tank added per Regulation 12-15 Calendar Year 2020 Emission Inventory
81	S32125	All	Added source to table	New exempt tank added per Regulation 12-15 Calendar Year 2020 Emission Inventory
Table II C2 – Sources Exempt From Permitting				
1	Added this new table listing for exempt sources under Plant #B2759 – Amorco Terminal			
Table II D – Sources Owned/Operated by Contractors				

Changes to Section II	
1	Added this new table listing contractor sources on site longer than 12-months

III. Generally Applicable Requirements

This section of the permit lists requirements that generally apply to all sources at a facility including insignificant sources and portable equipment that may not require an Air District permit. If a generally applicable requirement applies specifically to a source that is permitted or significant, the standard will also appear in Section IV and the monitoring for that requirement will appear in Sections IV and VII of the permit. Parts of this section apply to all facilities (e.g., particulate, architectural coating, odorous substance, and sandblasting standards). In addition, standards that apply to insignificant or unpermitted sources at a facility (e.g., refrigeration units that use more than 50 pounds of an ozone-depleting compound) are placed in this section.

Unpermitted sources are exempt from normal Air District permits pursuant to an exemption in BAAQMD Regulation 2, Rule 1. They may, however, be specifically described in a Title V permit if they are considered “significant sources” as defined in BAAQMD Rule 2-6-239.

Changes to permit:

Changes to Section III			
Item	Regulation	Change	Reason
1	Consent Decree	Added 2016 Consent Decree to Table III	Requested by EPA 12/5/2019 Comment Letter
2	BAAQMD 2-1	Rule date updated	New rule amendment
3	SIP 2-1	Rule date updated	New EPA approval FR date
4	BAAQMD 2-2	Rule date updated	New rule amendment
5	SIP 2-2	Rule date updated	New EPA approval FR date
6	BAAQMD 2-4	Rule date updated	New rule amendment
7	SIP 2-4	Rule date updated	New EPA approval FR date
8	BAAQMD 2-5	Rule date updated	New rule amendment
9	BAAQMD 2-6	Rule date updated	New rule amendment
10	BAAQMD 3	Rule date updated	New rule amendment
11	SIP Regulation 3	Deleted	Regulation 3 is not listed in the SIP approved BAAQMD Regulations on EPA website.
12	BAAQMD 5	Rule date updated	New rule amendment
13	BAAQMD 6	Rule date updated	New rule amendment
14	BAAQMD 6-1	Rule date updated	New rule amendment
15	BAAQMD 8-1	Rule date updated	New rule amendment
16	BAAQMD 8-2	Rule date updated	New rule amendment
17	BAAQMD 11-18	Added rule	New rule
18	BAAQMD 12-15	Added rule	New rule
19	CA H&S Code Section 93115	Added date	Correct Omission
20	CA H&S Code Section 93116	Added date	Correct Omission
21	40 CFR 61 Subpart M	Regulation date updated	New rule amendment
22	40 CFR 82 Subpart F	Regulation date updated	New rule amendment
23	40 CFR 82 Subpart H	Regulation date updated	New rule amendment

IV. Source-Specific Applicable Requirements

This section of the permit lists the applicable requirements that apply to permitted or significant sources. These applicable requirements are contained in tables that pertain to one or more sources that have the same requirements. The order of the requirements is:

- Air District Rules
- State Implementation Plan (SIP) Rules (if any) are listed following the corresponding District rules. SIP rules are Air District rules that have been approved by EPA for inclusion in the California State Implementation Plan. SIP rules are “federally enforceable” and a “Y” (yes) indication will appear in the “Federally Enforceable” column. If the SIP rule is the current Air District rule, separate citation of the SIP rule is not necessary and the “Federally Enforceable” column will have a “Y” for “yes”. If the SIP rule is not the current District rule, the SIP rule or the necessary portion of the SIP rule is

cited separately after the Air District rule. The SIP portion will be federally enforceable; the non-SIP version will not be federally enforceable, unless EPA has approved it through another program.

- Other Air District requirements, such as the Manual of Procedures, as appropriate.
- Federal requirements (other than SIP provisions)
- BAAQMD permit conditions. The text of BAAQMD permit conditions is found in Section VI of the permit.
- Federal permit conditions. The text of Federal permit conditions, if any, is found in Section VI of the permit.

Section IV of the permit contains citations to all of the applicable requirements. The text of the requirements is found in the regulations, which are readily available on the Air District or EPA websites, or in the permit conditions, which are found in Section VI of the permit. All monitoring requirements are cited in Section IV. Section VII is a cross-reference between the limits and monitoring requirements. A discussion of monitoring is included in Section C.VII of this permit evaluation/statement of basis.

Section IV and VII Organization

The following table summarizes the source category organization in Sections IV and VII.

Organization of Sections IV and VII		
Section	Subsection	Description
A		Sitewide
	A.1	Refinery
	A.2	Amorco Terminal
	A.3	Fenceline Monitoring
B		Process Units & Miscellaneous
C		Combustion
	C.1	Combustion – Boilers
	C.2	Combustion – Flares
	C.3	Combustion – Internal Combustion Engines (ICE)
	C.4	Combustion – Process Heaters and Furnaces
	C.5	Combustion – Gas Turbines
D		Organic Liquid Loading
E		Solids Handling
F		Organic Liquid Storage Tanks
	F.1	Sources Listing and Applicable Permit Conditions
	F.2	Tank Group Descriptions
	F.3	Tank Group Applicable Requirements
G		Wastewater Sources
H		Sulfur and Ammonia Processing
J		Miscellaneous Organic Sources
K		Abatement
L		Remediation
M		Refinery Emissions Cap Requirements

The only significant change to the permit organization is the addition of Section A.3, Fenceline Monitoring, and Section M, Refinery Emissions Cap Requirements. Section A.3 was added at the request

of EPA. Instead of showing the Emissions Cap Requirements in multiple locations, they will now be shown in Section M for all sources subject to the cap.

Complex applicability determinations

There are four complex applicability determinations below.

- A. Applicability of 40 CFR 63, Subpart DDDDD, Boiler MACT Requirements
- B. 40 CFR 64, Compliance Assurance Monitoring (CAM)
- C. Internal Combustion Engines Applicability
- D. Applicability of 40 CFR 63, Subpart FFFF, NESHAPS for Miscellaneous Organic Chemical (MON) Manufacturing Requirements

A. Applicability of 40 CFR 63, Subpart DDDDD, Boiler MACT Requirements

The Martinez refinery owns and operates boilers and process heaters subject to the requirements of 40 CFR 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, known as the Boiler MACT. The finalized rule for 40 CFR 63, Subpart DDDDD was published in the Federal Register on January 31, 2013. As documented in Tesoro’s Initial Notification for Affected Sources submitted to the BAAQMD February 10, 2012, there are 34 existing boilers and process heaters at the refinery that became subject to 40 CFR 63, Subpart DDDDD requirements effective January 31, 2016. In 2022, Tesoro notified the Air District to officially shut down 18 existing boilers and process heaters at the refinery and to surrender the permits to operate. There are only 16 existing boilers and process heaters at the refinery that are subject to 40 CFR 63, Subpart DDDDD. The following table summarizes the boiler and process heater equipment.

Emission Unit ID	Emission Unit Name (design and manufacturer name)	Size: Rated Heat Input Capacity (MMBtu/hr)	Fuels Used	Status
S-904	No. 6 Boiler, Riley Stoker	745 mmbtu/hr 6,789,000 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown
S-908	No. 3 Crude Heater (F8), Alco	220 mmbtu/hr 1,927,200 mmbtu/yr	Natural Gas, Refinery Fuel Gas	Shutdown
S-909	No. 1 Feed Prep Heater (F9), Alco	145 mmbtu/hr 1,270,200 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown
S-912	No. 1 Feed Prep Heater (F12), Born	135 mmbtu/hr 1,182,600 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown
S-913	No. 2 Feed Prep Heater (F13), Petro Chem	59 mmbtu/hr 516,840 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown
S-915	Platformer Intermediate Heater (F15), Braun	50 mmbtu/hr 438,000 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown
S-916	No. 1 HDS Heater (F16), Braun	55 mmbtu/hr 481,800 mmbtu/yr	Natural Gas, Refinery Fuel Gas	Shutdown
S-917	No. 1 HDS Prefract Reboiler (F17), Industrial Engineers	18 mmbtu/hr 157,680 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown

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Emission Unit ID	Emission Unit Name (design and manufacturer name)	Size: Rated Heat Input Capacity (MMBtu/hr)	Fuels Used	Status
S-919	No. 2 HDS Depent Reboiler (F19), Foster Wheeler	111 mmbtu/hr 972,360 mmbtu/yr	Fuel Gas, Natural Gas	Permitted
S-920	No. 2 HDS Charge Heater (F20), Foster Wheeler	63 mmbtu/hr 551,880 mmbtu/yr	Fuel Gas, Natural Gas	Permitted
S-921	No. 2 HDS Charge Heater (F21), Foster Wheeler	63 mmbtu/hr 551,880 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown
S-922	No. 5 Gas Debutanizer Reboiler (F22), Petro Chem	130 mmbtu/hr 1,138,800 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown
S-926	No. 2 Reformer Splitter Reboiler(F26) , Petro Chem	130 mmbtu/hr 1,138,800 mmbtu/yr	Fuel Gas, Natural Gas	Permitted
S-927	No. 2 Reformer Heat/Reheating (F27), Lummus	280 mmbtu/hr 2,452,800 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown
S-928	HDN Reactor A Heater (F28), Foster Wheeler	20 mmbtu/hr 175,200 mmbtu/yr	Fuel Gas, Natural Gas	Permitted
S-929	HDN Reactor B Heater (F29), Foster Wheeler	20 mmbtu/hr 175,200 mmbtu/yr	Fuel Gas, Natural Gas	Permitted
S-930	HDN Reactor C Heater (F30), Foster Wheeler	20 mmbtu/hr 175,200 mmbtu/yr	Fuel Gas, Natural Gas	Permitted
S-931	Hydrocracker Reactor 1 Heater (F31), Foster Wheeler	20 mmbtu/hr 175,200 mmbtu/yr	Fuel Gas, Natural Gas	Permitted
S-932	Hydrocracker Reactor 2 Heater (F32), Foster Wheeler	20 mmbtu/hr 175,200 mmbtu/yr	Fuel Gas, Natural Gas	Permitted
S-933	Hydrocracker Reactor 3 Heater (F33), Foster Wheeler	20 mmbtu/hr 175,200 mmbtu/yr	Fuel Gas, Natural Gas	Permitted
S-934	Hydrocracker Stabilizer Reboiler (F34), Foster Wheeler	135 mmbtu/hr 1,182,600 mmbtu/yr	Fuel Gas, Natural Gas	Permitted
S-935	Hydrocracker Splitter Reboiler (F35), Foster Wheeler	135 mmbtu/hr 1,182,600 mmbtu/yr	Fuel Gas, Natural Gas	Permitted
S-937	Hydrogen Plant Heater (F37), Selas	743 mmbtu/hr 6,508,680 mmbtu/yr	Fuel Gas, Natural Gas	Permitted
S-950	50 Unit Crude Heater (F50), Alcorn	440 mmbtu/hr 3,854,400 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown

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Emission Unit ID	Emission Unit Name (design and manufacturer name)	Size: Rated Heat Input Capacity (MMBtu/hr)	Fuels Used	Status
S-951	No. 2 Reformer Aux Reheater (F51), Optimized Process Furnaces	30 mmbtu/hr 131,400 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown
S-971	No. 3 Reformer UOP Furnace (F53), KTI	300 mmbtu/hr 2,628,000 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown
S-972	No. 3 Reformer Debutanizer Reboiler (F54), Foster Wheeler/KTI	45 mmbtu/hr 394,200 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown
S-973	No. 3 HDS Recycle Gas Heater (F55), Entec	110 mmbtu/hr 963,600 mmbtu/yr	Fuel Gas, Natural Gas	Permitted
S-974	No. 3 HDS Fract Feed Heater (F56), Entec	55 mmbtu/hr 481,800 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown
S-1106	No. 4 HDS Reactor Feed Heater (F72), Tulsa Heater	30 mmbtu/hr (24-hour average) 225.257 mmscf/yr	Natural Gas	Permitted
S-1412	Sulfuric Acid Mfg Plant Startup Heater, John Zink	17.1 mmbtu/hr 9000 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown
S-1470	No. 3 Crude Vacuum Distillation Heater (F71), Petro Chem	30 mmbtu/hr 262,800 mmbtu/yr	Refinery Fuel Gas, Natural Gas	Shutdown
S-1511	Delayed Coker Heater #1 (F78), John Zinc	230 mmbtu/hr 2,014,800 MMbtu/ consecutive 12 months	Natural gas, fuel gas	Permitted
S-1512	Delayed Coker Heater #2 (F79), John Zinc	230 mmbtu/hr 2,014,800 MMbtu/ consecutive 12 months	Natural gas, fuel gas	Permitted

40 CFR 63, Subpart DDDDD contains requirements and emission standards for boilers and process heaters burning a variety and/or mixture of solid, liquid and gaseous fuels. The fuels are delineated into subcategories in 63.7499. Since the refinery is no longer classified as a petroleum refinery, the fuel gas generated at the refinery is no longer refinery fuel gas by definition. Instead, the fuel gas generated at the refinery is expected to be "other gas 1 fuel" as defined in 40 CFR 63.7575. Upon startup, Tesoro will demonstrate that fuel gas combusted at the refinery qualifies as an "other gas 1 fuel," in accordance with procedures established in §63.7521(f) through (i) and according to the frequency listed in §63.7575(c) and maintain records of the results of the testing as outlined in §63.7555(g). Since all of the remaining permitted sources in the table above fire only natural gas or other gas 1 fuel, they are in Subcategory 63.7499(l), units designed to burn "gas 1 fuels." 63.7500(e) states that "Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in

Tables 1 and 2 or 11 through 13 to this subpart, or the operating limits in Table 4 to this subpart". Table 3, Work Practice Standards, is applicable and it requires a one-time energy assessment and periodic tune-ups for the units.

There are five process heaters or boilers at the refinery that are subject to a different applicability. Each is addressed below.

S-1550, S-1551, S-1553, S-1558 and S-1559 are 99 MMBtu/hr package boilers used infrequently at the Tesoro refinery, during periods when additional steam is required. Even though all five boilers are permitted as stationary sources, with emissions fully offset, they are portable units that are brought to the refinery when the need is anticipated (e.g., as part of the refinery turnaround planning effort). These boilers satisfy the definition of "Temporary boiler" in 40 CFR 63.7575:

Temporary boiler means any gaseous or liquid fuel boiler or process heater that is designed to, and is capable of, being carried or moved from one location to another by means of, for example, wheels, skids, carrying handles, dollies, trailers, or platforms. A boiler or process heater is not a temporary boiler or process heater if any one of the following conditions exists:

- (1) The equipment is attached to a foundation.
- (2) The boiler or process heater or a replacement remains at a location within the facility and performs the same or similar function for more than 12 consecutive months, unless the regulatory agency approves an extension. An extension may be granted by the regulating agency upon petition by the owner or operator of a unit specifying the basis for such a request. Any temporary boiler or process heater that replaces a temporary boiler or process heater at a location and performs the same or similar function will be included in calculating the consecutive time period.
- (3) The equipment is located at a seasonal facility and operates during the full annual operating period of the seasonal facility, remains at the facility for at least 2 years, and operates at that facility for at least 3 months each year.
- (4) The equipment is moved from one location to another within the facility but continues to perform the same or similar function and serve the same electricity, process heat, steam, and/or hot water system in an attempt to circumvent the residence time requirements of this definition.

S-1550, S-1551, S-1553, S-1558 and S-1559 are not subject to the requirements of 40 CFR 63, Subpart DDDDD pursuant to 63.7491(j):

§63.7491 Are any boilers or process heaters not subject to this subpart?

§63.7491(j) -Temporary boilers and process heaters as defined in this subpart.

B. 40 CFR 64, Compliance Assurance Monitoring (CAM)

The Compliance Assurance Monitoring (CAM) regulation in 40 CFR 64 was developed to provide assurance that facilities comply with applicable emissions limitations by adequately monitoring control devices. The CAM rule was effective on November 21, 1997. However, most facilities are not affected by CAM requirements until they submit applications for Title V permit renewal. As required, Tesoro provided an applicability analysis for CAM for both the Golden Eagle Refinery (now Martinez Refinery) and Amorco Terminal as part of the 2010 renewal application. Tesoro updated the CAM applicability determination as part of this renewal application.

CAM applies to a source of criteria pollutant or hazardous air pollutant (HAP) emissions if all the following requirements are met:

- The source is located at a major source for which a Title V permit is required; and
- The source is subject to a federally enforceable emission limitation or standard for a criteria pollutant or HAP; and
- The source uses a control device to comply with the federally enforceable emission limitation or standard; and
- The source has potential pre-control emissions of the regulated pollutant that are equal to or greater than the major source threshold for the pollutant (in BAAQMD, the major source thresholds are 100 tons per year for each criteria pollutant, 10 tons per year for a single HAP, and 25 tons per year for two or more HAPs); and
- The source is not otherwise exempt from CAM.

CAM exemptions are specified in 40 CFR 64.2(b)(1) – Exempt Emission Limitations or Standards. Exemptions that could reasonably apply to emission sources at the Martinez Refinery and Amorco Terminal are:

- 40 CFR 62(b)(1)(i) – Emission limitations or standards proposed by the Administrator after November 15, 1990, pursuant to section 111 or 112 of the ACT; or
- 40 CFR 62(b)(1)(vi) – Emission limitations or standards for which a Title V Permit specifies a continuous compliance determination method (a method, specified by the applicable standard or an applicable permit condition, which: (1) is used to determine compliance on a continuous basis, consistent with the averaging period established for the emission limitation or standard; and (2) Provides data either in units of the standard or correlated directly with the compliance limit).

Emission sources at Martinez Refinery and the Amorco Terminal were first evaluated by the following criteria to identify sources requiring further analysis for CAM applicability:

- The source is listed in the existing Title V Permit or will be added to the permit in this renewal application; and
- The source uses a control device to routinely control the emissions of a regulated pollutant (criteria pollutant or listed HAP).

Appendix C contains the Tesoro detailed CAM analysis for the emission sources that met these criteria. This analysis was completed in June 2016 and updated in March 2022. No emission sources were identified for the Amorco Terminal. The analysis identified one emission source at the Golden Eagle Refinery that is subject to CAM for oxides of nitrogen (NO_x). However, this source – S963 Alkylation Plant Turbine – was removed from service in 2017 (Applications 28445/28446).

During the review of the Proposed Renewed Permit in 2019, EPA commented on the CAM Plan for the S-802 FCCU PM emissions. Tesoro's initial FCCU CAM Plan asserted that PM emission monitoring was exempt from 40 CFR 64, pursuant to 64.2(1)(b)(vi), based on a continuous compliance demonstration using a Continuous Opacity Monitor System (COMS). EPA's comment identified the exemption requirement to provide the correlation between PM emissions and opacity. In response to the EPA comment, Tesoro was unable to provide the correlation and modified the CAM Plan to add the

continuous monitoring of the ESP transformer amperage. However, this source – S802 FCCU – was removed from service in 2022 as part of the Renewable Fuels Project (Applications 30768/30769).

C. Internal Combustion Engines Applicability

40 CFR 60, Subpart IIII,

40 CFR 60, Subpart JJJJ,

40 CFR 63, Subpart ZZZZ

California Air Toxic Control Measures

Tesoro, or its contractors, own and operate Internal Combustion Engines (aka “ICE”, “RICE” in the federal regulations, or just “Engines”), both portable and stationary sources. The stationary Engine requirements are detailed in Section IV-C.3 and VII-C.3 of the permit.

The following table summarizes the Tesoro engine applicability in the Title V permit.

Internal Combustion Engine Applicability Summary						
Sources	Design/Service	NSPS IIII	NSPS JJJJ	MACT ZZZZ	ATCM	Permit Table
S57	CI, Fire Pump	No	N/A	Existing, > 500HP Exempt per 63.6590 (b)(3)(iii)	In-Use	C.3.1
S952 S953 S954	SI, 4SRB	N/A	No	Existing, < 500HP	N/A	C.3.2
S1471 S1472 S1487	CI, Fire Pump	No	N/A	Existing, < 500HP	In-Use	C.3.4
S1488	CI, Fire Pump	No	N/A	New, > 500HP Exempt per 63.6590 (b)(1)(i)	In-Use	C.3.5
S1518 S1519	CI, Fire Pump	Yes (<)	N/A	New, < 500HP Comply with IIII per 63.6590(c)	New	C.3.6
S58 (>) S1552(<) S1561(>) S1559(<)	CI, Not Fire Pump	Yes (<&>)	N/A	New, < 500HP Comply with IIII per 63.6590(c)	New	C.3.7

Internal Combustion Engine Applicability Summary						
Sources	Design/Service	NSPS IIII	NSPS JJJJ	MACT ZZZZ	ATCM	Permit Table
S1557 S1572	CI, Not Fire Pump	Yes (>)	N/A	New, > 500HP Exempt per 63.6590 (b)(1)(i)	New	C.3.8
S1562 S1563	CI, Fire Pump	Yes (>)	N/A	New, > 500HP Exempt per 63.6590 (b)(1)(i)	New	C.3.9

CI=Compression Ignition; SI = Spark Ignition; 2SLB=2 Stroke Lean Burn; 4SRB=4 Stroke Rich Burn;
For NSPS Subpart IIII applicability: (<) =Model Year earlier than 2007; (>) =Model Year 2007 or later

The remainder of this determination explains how this summary table was developed.

Portable engines are all registered under the Statewide Portable Equipment Registration Program (California Code of Regulations Title 13, Division 3, Chapter 3, Article 5). These engines are exempt from permitting pursuant to Regulation 2-1-105. The portable engines fired on diesel fuel are subject to California Health and Safety Code Title 17, Section 93116, Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater. This requirement is specified in Table III, Generally Applicable Requirements.

The Stationary Engines owned or operated by Tesoro are summarized in the following table.

Source	Description	Year Constructed (Model Year)	HP	Other
S-57	Amorco Wharf Off-Shore Firewater Pump Engine	2001	700	CI, Emergency Diesel
S-58	Amorco Wharf Standby Generator Engine	2010(2010)	312	CI, Emergency Diesel
S-952	No 1 Gas Plant Compressor 4023 Engine	1938	300	NG, SI, 4SRB
S-953	No 1 Gas Plant Compressor 4024 Engine	1938	300	NG, SI, 4SRB
S-954	No 1 Gas Plant Compressor 4025 Engine	1938	300	NG, SI, 4SRB
S-1471	Landsend Firewater Pump Engine	1977	130	CI, Emergency Diesel
S-1472	Tract 4 North Firewater Pump Engine	1989	430	CI, Emergency Diesel
S-1487	Tank 38 Firewater Pump Engine	2003	420	CI, Emergency Diesel
S-1488	Canal Firewater Pump Engine	2003	538	CI, Emergency Diesel
S-1518	North Reservoir West Firewater Pump Engine	2007(2004)	360	CI, Emergency Diesel
S-1519	North Reservoir East Firewater Pump Engine	2007(2004)	360	CI, Emergency Diesel
S-1552	No 1 Pump Station Engine	2006(2006)	205	CI, Emergency Diesel

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Source	Description	Year Constructed (Model Year)	HP	Other
S-1557	Central Maintenance Building Standby Generator Engine	2014(2013)	762	CI, Emergency Diesel
S-1561	Avon Berth 1A Standby Generator Engine	2016(2015)	398	CI, Emergency Diesel
S-1562	Avon Berth 1A East Firewater Pump Engine	2016(2012)	700	CI, Emergency Diesel
S-1563	Avon Berth 1A West Firewater Pump Engine	2016(2012)	700	CI, Emergency Diesel
S-1572	No 4 Gas Plant Standby Generator Engine	2017(2010)	2722	CI, Emergency Diesel
S-1599	Emergency Standby Diesel Pump at Surge Pond 2	2021(2005)	325	CI, Emergency Diesel

CI=Compression Ignition; SI = Spark Ignition; NG = Natural Gas Fuel; 2SLB=2 Stroke Lean Burn; 4SRB=4 Stroke Rich Burn.

Model Year only show for engines that are subject to NSPS subpart IIII.

Requirements of the engine regulations are based on a variety of engine properties, including date of construction, power rating, emergency service and engine design.

The first step in this applicability determination is to assess the overall applicability and engine category by date of construction.

40 CFR 60 Subpart IIII applies to Compression Ignition engines that commenced construction after 7/11/2005 [§60.4200(a)(2)] and the engine was manufactured after 4/1/2006 (7/1/2006 for fire pump engines).

40 CFR 60 Subpart JJJJ applies to Spark Ignition engines that commenced construction after 7/12/2006 [§60.4230(a)(4)] and the engine was manufactured after 7/1/2007 (1/1/2008 for lean burn engines 500<=HP<1350, 7/1/2008 for engines < 500 HP, and 1/1/2009 for emergency engines > 25 HP).

40 CFR 63 Subpart ZZZZ applies to all Reciprocating Internal Combustion Engines (RICE) since Tesoro is a major source of HAPs. The RICE with a power rating greater than 500 HP is "Existing" if construction or reconstruction commenced before 12/19/2002 [§63.6590(a)(1)(i)]. The RICE with a power rating less than or equal to 500 HP is "Existing" if construction or reconstruction commenced before 6/12/2006 [§63.6590(a)(1)(ii)]. Otherwise, the RICE is "New".

The ATCM 93115.4(50) defines a "New" engine as one installed after 1/1/2005. Otherwise, the engine is an "In-Use" engine. The requirements for all New engines are contained in 93115.6(a). The requirements for all In-Use engines are contained in 93115.6(b). Pursuant to 93115.3(n), In-Use fire pump engines are exempt from the requirements of 93115(b)(3). In the 5/19/2011 Amendment to the ATCM, New fire pump engines are subject to the requirements of 93115.6(a)(4). In the previous version New fire pump engines were required to comply with either 93115.6(a)(3) or (a)(4).

A summary timeline of the regulatory applicability is shown in the following tables.

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SI Engines Rule	12/19/2002	6/12/2006	7/12/2006	
JJJJ	N/A	N/A	N/A	Applicable
ZZZZ >500HP	Existing	New	New	New
ZZZZ <500HP	Existing	Existing	New	New

CI Engines Rule	12/19/2002	1/1/2005	7/11/2005	6/12/2006	
IIII	N/A	N/A	N/A	Applicable	Applicable
ZZZZ >500HP	Existing	New	New	New	New
ZZZZ <500HP	Existing	Existing	Existing	Existing	New
ATCM	In-Use	In-Use	New	New	New

The overall applicability is summarized by source in the following table:

Engine Applicability/Category Summary						
Applicability/Category Date:			7/11/2005	7/12/2006	12/19/2002 6/12/2006(<)	1/1/2005
Source	Description	Year Constructed	NSPS 60-III (CI)	NSPS 60-JJJ (SI)	MACT 63-ZZZZ	ATCM (CI)
S-57	Amorco Wharf Off-Shore Firewater Pump Engine	2001	No	N/A	Existing	In-Use
S-58	Amorco Wharf Standby Generator Engine	2010	Yes	N/A	New	New
S-952	No 1 Gas Plant Compressor 4023 Engine	1938	N/A	No	Existing	N/A
S-953	No 1 Gas Plant Compressor 4024 Engine	1938	N/A	No	Existing	N/A
S-954	No 1 Gas Plant Compressor 4025 Engine	1938	N/A	No	Existing	N/A
S-1471	Landsend Firewater Pump Engine	1977	No	N/A	Existing	In-Use
S-1472	Tract 4 North Firewater Pump Engine	1989	No	N/A	Existing	In-Use
S-1487	Tank 38 Firewater Pump Engine	2003	No	N/A	Existing	In-Use
S-1488	Canal Firewater Pump Engine	2003	No	N/A	New	In-Use

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Engine Applicability/Category Summary						
Applicability/Category Date:			7/11/2005	7/12/2006	12/19/2002 6/12/2006(<)	1/1/2005
Source	Description	Year Constructed	NSPS 60-III (CI)	NSPS 60-JJJ (SI)	MACT 63-ZZZZ	ATCM (CI)
S-1518	North Reservoir West Firewater Pump Engine	2007	Yes	N/A	New	New
S-1519	North Reservoir East Firewater Pump Engine	2007	Yes	N/A	New	New
S-1552	No 1 Pump Station Engine	2006	Yes	N/A	New	New
S-1557	Central Maint Building Standby Generator Engine	2014	Yes	N/A	New	New
S-1561	Avon Berth 1A Standby Generator Engine	2016	Yes	N/A	New	New
S-1562	Avon Berth 1A East Firewater Pump Engine	2016	Yes	N/A	New	New
S-1563	Avon Berth 1A West Firewater Pump Engine	2016	Yes	N/A	New	New
S-1572	No 4 Gas Plant Standby Generator Engine	2017	Yes	N/A	New	New
S-1599	Emergency Standby Diesel Pump at Surge Pond 2	2021	Yes	N/A	New	New

"<" is the applicability date for engines less than or equal to 500 HP.

40 CFR 63 Subpart ZZZZ requirements also depend on engine power, design and service. The following table summarizes the criteria important for Subpart ZZZZ applicability.

Criteria for 40 CFR 63 Subpart ZZZZ Applicability				
Source	Description	New/Existing	HP	Design/Service
S-57	Amorco Wharf Off-Shore Firewater Pump Engine	Existing	>500	CI, Emergency, Firewater Pump
S-58	Amorco Wharf Standby Generator Engine	New	<500	CI, Emergency, Not a Firewater Pump
S-952	No 1 Gas Plant Compressor 4023 Engine	Existing	<500	SI, 4SRB
S-953	No 1 Gas Plant Compressor 4024 Engine	Existing	<500	SI, 4SRB
S-954	No 1 Gas Plant Compressor 4025 Engine	Existing	<500	SI, 4SRB
S-1471	Landsend Firewater Pump Engine	Existing	<500	CI, Emergency, Firewater Pump

Criteria for 40 CFR 63 Subpart ZZZZ Applicability				
Source	Description	New/Existing	HP	Design/Service
S-1472	Tract 4 North Firewater Pump Engine	Existing	<500	CI, Emergency, Firewater Pump
S-1487	Tank 38 Firewater Pump Engine	Existing	<500	CI, Emergency, Firewater Pump
S-1488	Canal Firewater Pump Engine	New	>500	CI, Emergency, Firewater Pump
S-1518	North Reservoir West Firewater Pump Engine	New	<500	CI, Emergency, Firewater Pump
S-1519	North Reservoir East Firewater Pump Engine	New	<500	CI, Emergency, Firewater Pump
S-1552	No 1 Pump Station Engine	New	<500	CI, Emergency, Not a Firewater Pump
S-1557	Central Maint Building Standby Generator Engine	New	>500	CI, Emergency, Not a Firewater Pump
S-1561	Avon Berth 1A Standby Generator Engine	New	<500	CI, Emergency, Not a Firewater Pump
S-1562	Avon Berth 1A East Firewater Pump Engine	New	>500	CI, Emergency, Firewater Pump
S-1563	Avon Berth 1A West Firewater Pump Engine	New	>500	CI, Emergency, Firewater Pump
S-1572	No 4 Gas Plant Standby Generator Engine	New	>500	CI, Emergency, Not a Firewater Pump
S-1599	Emergency Standby Diesel Pump at Surge Pond 2	New	<500	CI, Emergency, Not a Firewater Pump

CI=Compression Ignition; SI = Spark Ignition; 2SLB=2 Stroke Lean Burn; 4SRB=4 Stroke Rich Burn

The Spark Ignition (SI) engines are all continuous duty engines (i.e., not emergency standby engines) and were all constructed or reconstructed prior to the effective date of NSPS Subpart JJJJ. The ATCM does not apply to SI engines. There are two types of SI engines subject to MACT Subpart ZZZZ. The first type, S-952, S-953 and S-954, are 4-stroke rich burn (4SRB) engines less than 500 HP. The requirements for these engines are detailed in Tables IV-C.3.2 and VII-C.3.2. The second type are 2-stroke lean burn (2SLB) engines greater than 500 HP. Tesoro does not own or operate any engines of this type.

All of the Compression Ignition (CI) engines at Tesoro are in emergency standby service. Most are in firewater pump service. Two (S-1552 and S-1599) are in standby water pump service, but not in standby firewater pump service. Four engines are in emergency back-up generator service.

The Compression Ignition (CI) engines are first separated into the older engines in emergency firewater pump service. These were constructed or reconstructed before the applicability date of NSPS Subpart IIII, are "Existing" engines for MACT Subpart ZZZZ, and are "In-Use" engines for the ATCM. There are two types of engines in this category. The first type, S-1471, S-1472 and S-1487, are engines that have power ratings less than or equal to 500 HP. The requirements for these engines are detailed in Tables IV-C.3.4 and VII-C.3.4. The second type, S57, is an engine that has a power rating greater than 500 HP. Existing Emergency CI engines > 500 HP are exempt from the requirements MACT Subpart ZZZZ [§63.6590 (b)(3)(iii)]. The requirements for this engine are detailed in Tables IV-C.3.1 and VII-C.3.1.

The Compression Ignition (CI) engines are next separated into the newer engines in emergency firewater pump service. These were constructed or reconstructed after the applicability date of NSPS Subpart IIII, are "New" engines for MACT Subpart ZZZZ, and are "New" engines for the ATCM. There are two types of engines in this category. The first type, S-1518 and S-1519, are engines that have power ratings less than or equal to 500 HP. The requirements for these engines are detailed in Tables IV-C.3.6 and VII-C.3.6. The second type, S-1562 and S-1563, are engines that have power ratings greater than 500 HP. New CI engines >500 HP are exempt from the requirements MACT Subpart ZZZZ [§63.6590 (b)(1)(i)], except for initial notification. New CI engines >500 HP are exempt from the requirements MACT Subpart ZZZZ [§63.6590 (b)(1)(i)], except for initial notification. The requirements for these engines are detailed in Tables IV-C.3.9 and VII-C.3.9. The ATCM was amended May 19, 2011. The old version allowed new fire pumps to comply with either the requirements of 93115.6(a)(3) or (a)(4). The amendment only allows compliance with 93115.6(a)(4).

There is one other category of engine in emergency firewater pump service. This category is when the date of construction for an engine > 500 HP falls between 12/19/2002 and 1/1/2005. This engine is not subject to NSPS Subpart IIII, but is New for MACT Subpart ZZZZ and In-Use for the ATCM. S-1488 is the only engine in this category. New CI engines >500 HP are exempt from the requirements MACT Subpart ZZZZ [§63.6590 (b)(1)(i)], except for initial notification. The requirements for this engine are detailed in Tables IV-C.3.5 and VII-C.3.5.

The last Compression Ignition (CI) engines category are the emergency engines that are not in firewater pump service. These engines were all constructed after the effective date of NSPS Subpart IIII and are "New" engines for MACT Subpart ZZZZ and the ATCM. There are two types of engines in this category. The first type, S-58, S-1552, S-1561, and S-1599, are engines that have power ratings less than or equal to 500 HP. The requirements for these engines are detailed in Tables IV-C.3.7 and VII-C.3.7. The second type, S-1557 and S-1572, are engines that have power ratings greater than 500 HP. New CI engines > 500 HP are exempt from the requirements MACT Subpart ZZZZ [§63.6590 (b)(1)(i)], except for initial notification. The requirements for these engines are detailed in Tables IV-C.3.8 and VII-C.3.8.

These permit tables are summarized as follows:

Permit Engine Table Summary						
Permit Table	NSPS IIII (CI)	NSPS JJJJ (SI)	MACT ZZZZ			ATCM (CI)
			New/Existing	Power	Design/Service	
C.3.1	No	N/A	Existing	>500 HP	CI, Firewater	In-Use
C.3.2	N/A	No	Existing	<500 HP	SI, 4SRB	N/A
C.3.4	No	N/A	Existing	<500 HP	CI, Firewater	In-Use
C.3.5	No	N/A	New	>500 HP	CI, Firewater	In-Use
C.3.6	Yes	N/A	New	<500 HP	CI, Firewater	New
C.3.7	Yes	N/A	New	<500 HP	CI, Not Firewater	New
C.3.8	Yes	N/A	New	>500 HP	CI, Not Firewater	New
C.3.9	Yes	N/A	New	>500 HP	CI, Firewater	New

CI=Compression Ignition; SI = Spark Ignition; 2SLB=2 Stroke Lean Burn; 4SRB=4 Stroke Rich Burn

The significant requirements for the engines are addressed below.

The Tesoro No 1 Gas Plant engines S-952, S-953 and S-954 are existing SI 4SRB engines less than 500 HP. The requirements are detailed in Tables IV-C.3.2 and VII-C.3.2. For existing RICE with HP < 500, §63.6602 requires compliance with Table 2c. Table 2c, Part 11 requires the formaldehyde emissions of a 4SRB engine between 100 and 500 HP to be 10.3 ppmvd or less at 15% O₂.

The remaining Tesoro engines are emergency CI RICE. For older engines not subject to NSPS Subpart IIII, there are three types of engines subject to MACT ZZZZ. For Existing engines equal to or less than 500 HP, §63.6602 requires compliance with Table 2c. Table 2c, Part 1 for emergency stationary CI RICE requires engine oil and filter changes, air cleaner, hose and belt inspections at specified intervals. For new firewater pump engines greater than 500 HP, the engines do not have to meet the requirements of Subpart ZZZZ, except the initial notification requirements of §63.6645(f), per §63.6590(b)(1)(i). For existing firewater pump engines greater than 500 HP, the engines do not have to meet the requirements of Subpart ZZZZ, including the initial notification requirements, per §63.6590(b)(3)(iii).

For newer engines subject to NSPS Subpart IIII, there are three requirements. 60.4205(a) requires Table 1 emission standards for emergency engines that are model years earlier than 2007 that are not fire pumps. 60.4205(b) requires 40 CFR 89.112 and 89.113 emission standards for emergency engines that are model years 2007 and later that are not fire pumps. 60.4205(c) requires Table 4 emission standards for emergency engines that are fire pumps. The MACT ZZZZ requirements for these engines subject to NSPS IIII are limited or none. For engines less than 500 HP, the NSPS overlap applies: MACT Subpart ZZZZ 63.6590(c)(6) exempts New engines from the requirements of Subpart ZZZZ, requiring compliance with NSPS Subpart IIII. For New fire pump engines over 500 HP, the engines do not have to meet the requirements of Subpart ZZZZ or Subpart A, except for the initial notification requirements of 63.6645(f), per §63.6590(b)(1)(i). For New engines that are over 500 HP that are not fire pumps, 63.6600(c) applies, and this states the engines do not need to comply with the MACT ZZZZ emission or operating limitation tables.

The ATCM (section 93115, Title 17, CA Code of Regulations) requirements only apply to CI engines and are primarily directed at Diesel PM emissions. The approach is to limit the non-emergency operating hours of the engines. The non-emergency operating hour limits are dependent the PM emission factor, on whether the engine is In-use or New, and on whether the engine is a fire pump or not. New engine requirements are summarized in Table 1 of 93115.6(a)(3), limiting non-emergency operating hours from 100 hours/year (PM g/bhp-hr < 0.01) to 50 hours/year (PM g/bhp-hr < 0.15) (these operating hour limits can be further reduced if required to pass a toxic risk screen). Other emissions are required to meet the Off-Road CI Engine Certification Standards. Tesoro only operates In-Use Fire Pump engines. These In-Use engines are required to meet the non-emergency operational requirements of the NFPA 25 standard per 93115.3(n).

The following sources need an additional explanation.

S-58 Amorco Wharf Generator was inadvertently omitted from the Section C.3 tables. It was constructed in 2010, is subject to NSPS IIII (model year 2007 or later), is a New engine < 500 HP for MACT ZZZZ, and a New engine for the ATCM. Therefore, it was added to Tables IV-C.3.7 and VII-C.3.7.

S-57 Amorco Terminal Off-shore Firewater Pump was previously included in Table IV-C.3.1 for Firewater Pumps not subject to NSPS IIII, but subject to MACT ZZZZ as a New engine and the ATCM as an New engine. This applicability was based on the 5/1/2003 date the District Permit to Operate was granted. However, Tesoro records show that S-57 was constructed in 2001. This would make S-57 an Existing

engine for MACT ZZZZ and an In-Use engine for the ATCM. Therefore, Table IV-C.3.1 has been revised to correct the requirements of S-57.

S-1487 Tank 38 Firewater Pump Engine was previously included in Table IV-C.3.5 for Firewater Pumps not subject to NSPS IIII, but subject to MACT ZZZZ as a New engine and the ATCM as an In-Use engine. However, S-1487 is < 500 HP and was constructed in 2003. For an engine < 500 HP, this would make S-1487 an Existing engine for MACT ZZZZ. Therefore S-1487 was moved to Table C.3.4

S-1557 Generator was previously included in Table IV-C.3.8 as a New engine < 500 HP for MACT ZZZZ. However, S-1557 is a 762 HP engine. Therefore, Table IV-C.3.8 was revised to apply to MACT ZZZZ engines > 500 HP.

D. Applicability of 40 CFR 63, Subpart FFFF, NESHAPS for Miscellaneous Organic Chemical (MON) Manufacturing Requirements

Prior to the Renewable Fuels Project (“Project”), Tesoro was subject to refinery-specific regulations (e.g., 40 CFR 63 Subparts CC, UUU, and QQQ) and was therefore not subject to Subpart FFFF in accordance with §63.2435(b)(3). As part of the Project, the Source Industrial Classification Code has been updated from 2911 to 2869; Tesoro will conduct operations that meet the definition of miscellaneous organic chemical manufacturing process units (MCPU) and satisfies the criteria of §63.2435(b)(1-3).

Subpart FFFF applies to MCPUs that are located at or are part of a major source of HAP emissions. An MCPU includes a miscellaneous organic chemical manufacturing process and must meet the following criteria:

- (1) It manufactures any material or family of materials described in §63.2435(b)(1);
- (2) It processes, uses, or generates any of the organic HAP described in §63.2435(b)(2); and,
- (3) Except for certain process vents that are part of a chemical manufacturing process unit, as identified in §63.100(j)(4), the MCPU is not an affected source or part of an affected source under another subpart of 40 CFR part 63.

Affected facilities that are regulated by the rule include continuous process vents; batch process vents, process vents that emit hydrogen halide and halogen HAP or HAP metals, storage tanks, transfer racks, equipment leaks, wastewater systems, liquid streams in open systems within an MCPU, and heat exchange systems.

As part of the Project, existing process units have been physically retrofitted with new equipment and a different reactor catalyst blend to process alternative feedstock and to produce renewable fuels. The Project does not trigger reconstruction as defined in §63.2 because the fixed capital cost of the new components to operate the new source does not exceed 50 percent of the fixed capital cost that would be required to construct a comparable new source. Therefore, existing process units are subject to the requirements for an existing source because the source did not commence construction or reconstruction after April 4, 2002.

Subpart FFFF contains requirements for certain categories of chemicals that are subject to stringent requirements. These categories include halogenated vent streams (i.e., Cl₂, F₂, HCl, and HF), olefins (i.e., ethylene and propylene), polyolefins (i.e., polyethylene and polypropylene), and ethylene oxide. Marathon does not operate equipment that contains these chemicals in excess of the applicable threshold quantity for each category of chemical.

Evaluation of applicability of each class of equipment covered by the rule is provided below.

Continuous Process Vents

Subpart FFFF regulates continuous process vents, which include the point of discharge to the atmosphere (or the point of entry into a control device, if any) of a gas stream if the gas stream has the characteristics specified in §63.107(b) through (h), or meets the criteria in §63.107(i) except as identified within the definition of continuous process vents at Subpart FFFF. A gas stream that is routed to an operating fuel gas system does not meet the definition of continuous process vent because it meets the criteria of §63.107(h)(3).

For each continuous process vent, a source must either designate the vent as a Group 1 continuous process vent or determine the total resource effectiveness (TRE) index value as specified in §63.115(d) and §63.2460(b)(1-3). Emissions limits are specified in Table 1 to Subpart FFFF.

For many gaseous process vents at the source, Marathon will route the emissions to the fuel gas system for use as a fuel for heaters and boilers, thus exempting the gaseous stream from applicability as a continuous process vent, or route the emissions to the flare system. The flares are operated with a flare gas recovery system (FGRS) so that gases are recovered and routed to the fuel gas system. If the FGRS is unable to recover all process gases routed to it, the gases are combusted in the flare(s). Therefore, Marathon is subject to the requirements of Table 1 to 40 CFR 63 Subpart FFFF and will route the emissions through a closed vent system to a flare when the gas streams are considered continuous process vents.

A continuous process vent that is not considered a Group 1 process vent is considered a Group 2 process vent. Requirements for Group 2 process vents at existing sources are identified in Table 1 to Subpart FFFF and §63.2455. Marathon will be subject to the requirements for Group 2 process vents as applicable.

In addition to the requirements identified above, the rule enables for a source to designate a process vent as a maintenance vent if the vent is only used as a result of the startup, shutdown, maintenance, or inspection of equipment where equipment is emptied, depressurized, degassed, or placed into service. The requirements are listed at §63.2450(v). Marathon will be subject to the requirements of §63.2450(v) for any process vent designated as a maintenance vent.

The requirements for continuous process vents are detailed in Tables IV-C.3.2 and VII-C.3.2.

Storage Tanks

Subpart FFFF regulates storage tanks, which include any tank or other vessel that is used to store liquids that contain organic hazardous air pollutants (HAPs), and that has been assigned to an MCPU. The rule excludes certain equipment within the definition of storage tanks at §63.2550.

For purposes of Subpart FFFF, a group 1 storage tank at an existing source is any storage tank with a capacity of at least 10,000 gal that stores material with a maximum TVP of total HAP \geq 6.9 kPa (1.0 psia) contributed by organic HAP. Storage tanks that meet these criteria are required to utilize emissions controls and comply with the associated requirements for each type of control, as identified in Table 4 of Subpart FFFF.

Subpart FFFF also includes provisions for control devices used to comply with the emissions limits for a Group 1 storage tank. The emissions limits in Table 4 to 40 CFR 63 Subpart FFFF do not apply during periods of planned routine maintenance for the control device. Periods of planned maintenance for each control device, during which the control device does not meet the applicable emission limit, must not exceed 240 hours per year, though provisions for requesting an extension are allowed. Detailed requirements are specified at §63.2470(d).

A group 2 storage tank is any storage tank that does not meet the applicability criteria of group 1 storage tank; emissions controls for storage tanks that meet the group 2 criteria are not subject to control requirements for storage tanks for purposes of Subpart FFFF.

Subpart FFFF also includes requirements for group 1 storage tanks during shutdown operations (i.e., emptying and degassing of a storage tank) at §63.2470(f). Requirements generally include removal of liquid as much as practicable, routing emissions to a regulated control device until a target vapor space concentration is reached, and maintaining records.

§63.2535(c) of Subpart FFFF provides multiple compliance options for tanks that are also subject to 40 CFR 60 Subpart Kb. Marathon may utilize these crossover compliance options for a storage tank that is subject to both Subpart FFFF and 40 CFR 60 Subpart Kb.

The requirements for storage tanks are detailed in Tables IV-F.1 through F.3 and VII-F.1 through F.3.

Transfer Racks

Subpart FFFF contains requirements for transfer racks. A transfer rack includes the collection of loading arms and loading hoses, at a single loading rack, that is assigned to an MCPU and are used to fill tank trucks and/or rail cars with organic liquids that contain organic HAP. A transfer rack includes the associated pumps, meters, shutoff valves, relief valves, and other piping and valves. Unloading activities at transfer racks are not regulated by Subpart FFFF.

All transfer racks owned and operated by Marathon are subject to other regulations (e.g., 40 CFR 63 Subparts R and Y). Marathon only operates one transfer rack subject to Subpart FFFF when loading renewable diesel at S-1025, though it meets the definition of "Group 2 transfer rack" due to containing organic HAP with an average partial pressure of less than 1.5 psia (per definition at §63.2550). Controls are not be required for loading of renewable diesel under 40 CFR 63 Subpart FFFF.

The requirements for S-1025 are detailed in Tables IV-D.7 and VII-D.7.

Equipment Leaks

Subpart FFFF contains requirements for equipment leaks from equipment in organic HAP service (i.e., contains or contacts a fluid that is at least 5 wt% OHAP). Regulated equipment includes each pump, compressor, agitator, PRD, sampling connection system, open-ended valve or line, valve, connector, and instrumentation system in organic HAP service; and any control devices or systems used to comply with Table 6 to Subpart FFFF. As directed in Table 6 to Subpart FFFF and §63.2480, equipment leaks from equipment that is in OHAP service at an existing source are subject to requirements at one of the following: 40 CFR 63 Subpart H, 40 CFR 63 Subpart UU, or 40 CFR 65 Subpart F. Marathon has elected to comply with 40 CFR 63 Subpart UU.

Subpart FFFF also contains requirements for PRDs in OHAP gas or vapor service (e.g., relief valves or rupture disks). OHAP gas or vapor service includes streams in gas or vapor service while operating. A PRD that meets these criteria is covered by the requirements specified in §63.2480(e). Marathon will be subject to requirements for equipment leaks and PRDs in OHAP gas or vapor service in accordance with the requirements of Subpart FFFF for an existing source.

The requirements for equipment leaks are detailed in Tables IV-J.0, J.1, J.2 and VII-J.1, J.2.

Wastewater Systems

Subpart FFFF contains requirements at §63.2485 for wastewater streams and liquid streams in open systems within MCPUs. Wastewater means water that is discarded from an MCPU or control device through a point of determination and that contains either: an annual average concentration of regulated HAP of at least 5 parts per million weight (ppmw) and has an annual average flowrate of 0.02 liters per minute or greater; or an annual average concentration of regulated HAP of at least 10,000 ppmw at any flowrate. Wastewater means process wastewater or maintenance wastewater and includes exclusions within its definition at §63.2550.

As described in Table 7 to Subpart FFFF, process wastewater streams are subject to the requirements in §63.132 through 63.148 except as specified by Subpart FFFF. Applicability criteria for determining whether a process wastewater stream is considered a Group 1 or Group 2 wastewater stream is provided at §63.132(d) and §63.2485(c).

Subpart FFFF also regulates maintenance wastewater streams, which include wastewater generated by the draining of process fluid from components in the MCPU into an individual drain system in preparation for or during maintenance activities. Maintenance wastewater can be generated during planned and unplanned shutdowns and during periods not associated with a shutdown, and is subject to requirements for Group 1 or Group 2 streams as applicable. As described in Table 7 to Subpart FFFF, maintenance wastewater streams are subject to the requirements of §63.105 except as specified by Subpart FFFF.

Marathon does not anticipate that it will generate any Group 1 wastewater streams following completion of the project. Upon startup of the renewable fuels production, Marathon will determine if wastewater stream meets Group 1 or Group 2 applicability criteria.

The requirements for wastewater systems are detailed in Tables IV-G.7 through G.11 and VII-G.7 through G.11.

Heat Exchange Systems

Subpart FFFF contains requirements at §63.2490 for heat exchange systems within MCPUs. Per the definition at §63.2550, a heat exchange system consists of a cooling tower, all MCPU heat exchangers that are in organic HAP service that serviced by that cooling tower, and all water lines to and from these MCPU heat exchangers. Marathon operates six cooling towers that meet these applicability criteria and are subject to the requirements of this rule.

Cooling towers are subject to the requirements of Table 10 to 40 CFR 63 Subpart FFFF. Marathon has elected to comply with the requirements in §63.2490(d) as specified in Table 10.b to 40 CFR 63 Subpart FFFF. This includes monitoring the cooling water for leaks of total strippable hydrocarbons per

§63.2490(d)(1) and repairing any leaks according to §63.2490(d)(2-3), unless the repair is delayed according to §63.2490(d)(4).

The requirements for cooling towers are detailed in Tables IV-E.4 and VII-E.4.

Process Flares

Subpart FFFF contains provisions that apply to any flare that is used to reduce organic HAP emissions by venting emissions through a closed-vent system to a flare. A regulated flare under Subpart FFFF is subject to the requirements of §63.2450(e)(2) and the requirements referenced therein. This allows for a source to elect to comply with the requirements of §63.982(b). §63.982(b) contains requirements for closed vent systems at §63.983 and flares at §63.987, which requires compliance with general flare provisions at §63.11(b). Alternatively, §63.2450(e)(5) allows for compliance with the provisions of §63.670 and §63.671 of 40 CFR 63 Subpart CC.

Marathon operates seven process flares and has elected to comply with the requirements of §63.2450(e)(5) for all flares in organic HAP service, i.e., flares will continue to be subject to and comply with requirements for petroleum refineries in 40 CFR 63 Subpart CC. S-943, Butane Tank 691 Safety Flare, is not subject to Subpart FFFF because it does not operate in organic HAP service.

The requirements for flares are detailed in Tables IV-C.2.1 through C.2.3 and VII-C.2.1 through C.2.3.

Changes to permit

The following substantive changes are being made to this section.

Changes to Section IV				
Item	Source	Location	Change	Reason
1	All Refinery	Table IV-A.1	Deleted SIP 8-5-328.1.2.	Parent citation 8-5-328.1 covers both 8-5-328.1.1 and 8-5-328.1.2.
2	All Refinery	Table IV-A.1	Added 61.357(a)(4)	Correct omission.
3	All Refinery	Table IV-A.1	Added 61.357(c)	Added reporting requirement if the total annual benzene quantity is less than 10 Mg/yr.
4	All Refinery	Table IV-A.1	Deleted 40 CFR 63, Subpart G	Applications 30768/30769 No longer subject to 63 Subpart CC.
5	All Refinery	Table IV-A.1	Deleted 40 CFR 63, Subpart CC	Applications 30768/30769 No longer classified as a petroleum refinery.
6	All Refinery	Table IV-A.1	Deleted 40 CFR 63, Subpart UUU	Applications 30768/30769 No longer classified as a petroleum refinery.

Proposed Permit Evaluation and Statement of Basis
Renewed Permit: Site B5728 & B5729, Tesoro Refining and Marketing Company
Martinez Refinery, 150 Solano Way and 1750 Marina Vista Way, Martinez, CA 94553

Changes to Section IV				
Item	Source	Location	Change	Reason
7	All Refinery	Table IV-A.1	Added 40 CFR 63, Subpart SS	Applications 30768/30769 Requirements for certain continuous process vents, flares, and tanks subject to 63 Subpart FFFF
8	All Refinery	Table IV-A.1	Added 40 CFR 63, Subpart WW	Applications 30768/30769 Requirements for tanks subject to 63 Subpart FFFF.
9	All Refinery	Table IV-A.1	Added 40 CFR 63, Subpart EEEE	Applications 30768/30769
10	All Refinery	Table IV-A.1	Added 40 CFR 63, Subpart FFFF	Applications 30768/30769
11	All Refinery	Table IV-A.1	Deleted Conditions 8077 and 25798	Requirements moved to Table IV - M.1
12	All Refinery	Table IV-A.1	Added Condition 27583	Applications 30768/30769
13	All Refinery	Table IV-A.2	Deleted SIP 8-5-328.1.2.	Parent citation 8-5-328.1 covers both 8-5-328.1.1 and 8-5-328.1.2.
14	All Refinery	Table IV-A.2	Added 61.357(a)(4)	Correct omission.
15	All Refinery	Table IV-A.2	Added 61.357(c)	Added reporting requirement if the total annual benzene quantity is less than 10 Mg/yr.
16	All Refinery	Table IV-A.2	Deleted 40 CFR 63, Subpart G	Applications 30768/30769. No longer subject to 63 Subpart CC.
17	All Refinery	Table IV-A.2	Deleted 40 CFR 63, Subpart CC	Applications 30768/30769 No longer classified as a petroleum refinery.
18	All Refinery	Table IV-A.2	Added 40 CFR 63, Subpart SS	Applications 30768/30769. Requirements for certain tanks subject to 63 Subparts EEEE and FFFF.
19	All Refinery	Table IV-A.2	Added 40 CFR 63, Subpart WW	Applications 30768/30769 Requirements for tanks subject to 63 Subparts EEEE and FFFF.
20	All Refinery	Table IV-A.2	Added 40 CFR 63, Subpart EEEE	Applications 30768/30769
21	All Refinery	Table IV-A.2	Added 40 CFR 63, Subpart FFFF	Applications 30768/30769
22	All Amorco	Table IV-A.2	Deleted Condition 8077	Requirements moved to Table IV-M.1
23	All Amorco	Table IV-A.2	Revised Condition 19528 description	Marathon prefers to use "Facility Wide" as opposed to "Refinery Wide."

Proposed Permit Evaluation and Statement of Basis
Renewed Permit: Site B5728 & B5729, Tesoro Refining and Marketing Company
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Changes to Section IV				
Item	Source	Location	Change	Reason
24	All	Table IV-A.3	Added table for Fenceline Monitoring requirements per BAAQMD Regulation 12, Rule 15	Separate table requested by EPA in other refinery Title V renewals. 63 Subpart CC requirements were not added because the facility is no longer classified as a petroleum refinery.
25	S802	Table IV-B.1	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
26	S815 S817	Table IV-B.2	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
27	S850	Table IV-B.3	Updated source description	Applications 30768/30769 Repurposed equipment.
28	S1003	Table IV-B.3	Added source to table. Moved from Table IV-B.4.	Applications 30768/30769 Repurposed equipment.
29	S1008	Table IV-B.3	Added source to table. Moved from Table IV-B.8.	Applications 30768/30769 Repurposed equipment.
30	S850	Table IV-B.3	Deleted Condition 8077	Applications 30768/30769
31	S850 S1003 S1008	Table IV-B.3	Added BAAQMD 8-10, 8-18, 63 Subpart FFFF, 63 Subpart UU requirements	Applications 30768/30769
32	S850 S1003 S1008	Table IV-B.3	Added Conditions 27583, 27584, and 27596	Applications 30768/30769
33	S1003	Table IV-B.4	Removed source. Moved to Table IV-B.3	Applications 30768/30769 Source(s) removed from service.
34	S1006	Table IV-B.4	Removed source	Applications 30768/30769 Source(s) removed from service.
35	S1002	Table IV-B.4	Updated source description	Applications 30768/30769 Repurposed equipment.
36	S1002 S1003 S1006	Table IV-B.4	Deleted Condition 8350	Applications 30768/30769
37	S1002	Table IV-B.4	Added Condition 27584	Applications 30768/30769
38	S1004	Table IV-B.5	Deleted table and all requirements.	Applications 30768/30769. Source(s) removed from service.
39	S1005	Table IV-B.6	Added Regulation 13, Rule 5	New Rule adopted 5/4/2022
40	S1005	Table IV-B.6	Revised Condition 22070-1 to biennial source testing	Applications 23138/23139
41	S1007	Table IV-B.8	Updated source description	Applications 30768/30769 Repurposed equipment.
42	S1008	Table IV-B.8	Removed source. Moved to Table IV-B.3	Applications 30768/30769

Proposed Permit Evaluation and Statement of Basis
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Changes to Section IV				
Item	Source	Location	Change	Reason
43	S1007	Table IV-B.8	Added BAAQMD 8-10, 8-18, 63 Subpart FFFF, 63 Subpart UU requirements	Applications 30768/30769
44	S1007	Table IV-B.8	Added Conditions 27583, 27584, and 27596	Applications 30768/30769
45	S1009	Table IV-B.9	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
46	S1020	Table IV-B.10	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
47	S1510	Table IV-B.11	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
48	S1600	Table IV-B.13	Added source.	Applications 30768/30769
49	S901	Table IV-C.1.1	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
50	S904	Table IV-C.1.2	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
51	S1558 S1559	Table IV-C.1.3	Added these new sources to table.	Applications 27395/27396
52	S1550 S1551 S1553 S1558 S1559	Table IV-C.1.3	Added 40 CFR 63 Subpart DDDDD applicability and exemption.	Initial rule 3/21/2011, last amended 12/28/2020
53	S1550 S1551 S1553 S1558 S1559	Table IV-C.1.3	Deleted Condition 24491 Part 2	Applications 27395/27396
54	S1524	Table IV-C.2.1	Removed source	Applications 30768/30769 Source(s) removed from service.
55	S854 S992 S1012 S1517	Table IV-C.2.1	Updated table description	Applications 30768/30769 No longer subject to NSPS Subpart J by date of construction
56	S854 S992 S1012 S1517	Table IV-C.2.1	Updated Subpart J applicability	Applications 30768/30769 No longer subject to NSPS Subpart J, but applies due to Consent Decree.
57	S854 S992 S1012 S1517	Table IV-C.2.1	Added 63 Subparts EEEE, FFFF, CC (as directed by Subpart EEEE), and CC (as directed by Subpart FFFF).	Applications 30768/30769
58	S1524	Table IV-C.2.1	Deleted Condition 24323.	Applications 30768/30769 Source(s) removed from service.

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Item	Source	Location	Change	Reason
59	S854 S992 S1012 S1517	Table IV-C.2.1	Added Condition 26791	Applications 29058/29059
60	S943	Table IV-C.2.2	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
61	S944 S945	Table IV-C.2.3	Added 63 Subparts EEEE, FFFF, CC (as directed by Subpart EEEE), and CC (as directed by Subpart FFFF).	Applications 30768/30769
62	S944 S945	Table IV-C.2.3	Added Condition 26791	Applications 29058/29059
63	S944 S945	Table IV-C.2.2	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
64	S1013	Table IV-C.2.4	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
65	S56	Table IV-C.3.1	Removed Source.	Now owned by Tesoro Logistic Operations and included in E1200 Title V Permit.
66	S57	Table IV-C.3.1	Corrected ATCM requirements, adding 93115.3(n) exemption for fire pumps.	Changed S57 from a New engine (based on when the permit was granted in 2003) to an In-Use engine (based on when the S57 construction commenced in 2001)
67	S57	Table IV-C.3.1	Updated and Corrected 40 CFR 63 Subpart ZZZZ requirements.	Part of 1/30/2013 amendments. Changed S57 from a New RICE (based on when the permit was granted in 2003) to an Existing RICE (based on when the S57 construction commenced in 2001)
68	S57	Table IV-C.3.1	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
69	S57	Table IV-C.3.1	Replaced Condition 23811 with 22851	Consistent with other fire pump engines.
70	S952 S953 S954	Table IV-C.3.2	Removed 40 CFR 63.6595(a)(1), 6595(c), 6612 6620, 6630, 6635, 6640, 6645 and 6650.	These requirements have been completed and there are no reports required.
71	S952 S953 S954	Table IV-C.3.2	Updated 40 CFR 63 Subpart ZZZZ requirements. Added Table 2C Part 11.	Correct omission and part of 1/30/2013 amendments.
72	S952 S953 S954	Table IV-C.3.2	Delete all parts of Condition 8077 except Part B8A.	Non-source specific requirements moved to Table IV-M.1.

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Item	Source	Location	Change	Reason
73	S952 S953 S954	Table IV-C.3.2	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
74	S955 S956 S957 S958 S959 S960	Table IV-C.3.3	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
75	S1469	Table IV-C.3.4	Removed source.	Applications 27990/27991
76	S1475 S1476	Table IV-C.3.4	Removed sources. Deleted Condition 18947.	Tesoro advised sources removed from site in letter dated 3/3/2017.
77	S1471 S1472	Table IV-C.3.4	Updated ATCM requirements, keeping 93115.5(b) Fuel Requirements but deleting 93115.5(b)(1) specifics.	The ATCM allows options for fuel other than CARB Diesel.
78	S1471 S1472	Table IV-C.3.4	Removed 40 CFR 63 Subpart ZZZZ 63.6595(a)(1), 6595(c), 6645, 6650 and Table 7.	These requirements have been completed and there are no reports required.
79	S1471 S1472	Table IV-C.3.4	Updated 60 CFR 63 Subpart ZZZZ requirements.	According to 8/10/2022 amendment
80	S1487	Table IV-C.3.4	Added source deleted from Table IV-C.3.5. Moved Condition 20672 Parts A5, A6 and A8 from Table IV-C.3.5.	S1487 is also an existing RICE < 500 HP
81	S1471 S1472 S1487	Table IV-C.3.4	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
82	S1487	Table IV-C.3.5	Removed source and Condition 20672 Parts A5, A6 and A8 (moved to Table IV-C.3.4)	Correction. S1487 is also an existing RICE < 500 HP Table IV-C.3.5 is for New engines > 500 HP
83	S1488	Table IV-C.3.5	Updated ATCM requirements, keeping 93115.5(b) Fuel Requirements but deleting 93115.5(b)(1) specifics.	The ATCM allows options for fuel other than CARB Diesel.
84	S1488	Table IV-C.3.5	Deleted ATCM 93115.6(b)(3) since exempt per 92115.3(n)	In-Use Fire Pumps exempt per 92115.3(n)
85	S1488	Table IV-C.3.5	Deleted 63.6645	Initial notification completed.
86	S1488	Table IV-C.3.5	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
87	S1518 S1519	Table IV-C.3.6	Updated ATCM requirements, keeping 93115.5(a) Fuel Requirements but deleting 93115.5(a)(1) specifics.	The ATCM allows options for fuel other than CARB Diesel.

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Item	Source	Location	Change	Reason
88	S1518 S1519	Table IV-C.3.6	Changed ATCM requirements from 93115.6(a)(3) to 93115.6(a)(4)	Part of 5/19/2011 amendment
89	S1518 S1519	Table IV-C.3.6	Updated 40 CFR 60 Subpart IIII. Removed 4200(a)(2). Added 4200(a)(4).	Part of 6/28/2011, 1/30/2013 and 7/7/2016 amendments, and removed parts not applicable or past due. Even though the engines were not permitted until 9/12/2006, they were manufactured as certified firewater pumps before 7/1/2006.
90	S1518 S1519	Table IV-C.3.6	Updated 60 CFR 63 Subpart ZZZZ requirements.	According to 8/10/2022
91	S1518 S1519	Table IV-C.3.6	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
92	S1518 S1519	Table IV-C.3.6	Replaced Condition 23811 with 22851	Consistent with other fire pump engines.
93	S58	Table IV-C.3.7	Added Source	Correct Omission
94	S1561	Table IV-C.3.7	Added Source	Applications 27990/27991
95	S1599	Table IV-C.3.7	Added Source	Applications 30827/32023
96	S1552 S58 S1561 S1599	Table IV-C.3.7	Corrected ATCM heading and updated requirements	These engines are not fire pumps. Part of 5/19/2011 amendment.
97	S1552 S58 S1561 S1599	Table IV-C.3.7	Updated ATCM requirements, keeping 93115.5(a) Fuel Requirements but deleting 93115.5(a)(1) specifics.	The ATCM allows options for fuel other than CARB Diesel.
98	S1552 S58 S1561 S1599	Table IV-C.3.7	Updated 40 CFR 60 Subpart IIII	Part of 6/28/2011, 1/30/2013 and 7/7/2016 amendments, 8/10/2022, and removed parts not applicable or past due.
99	S1599	Table IV-C.3.7	Added Condition 22850	Applications 30827/32023
100	S1552 S58 S1561 S1599	Table IV-C.3.7	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
101	S1572	Table IV-C.3.8	Added Source	Applications 28553/28549
102	S1557 S1572	Table IV-C.3.8	Corrected ATCM heading and updated requirements	These engines are not fire pumps. Part of 5/19/2011 amendment.
103	S1557 S1572	Table IV-C.3.8	Updated ATCM requirements, keeping 93115.5(a) Fuel Requirements but deleting 93115.5(a)(1) specifics.	The ATCM allows options for fuel other than CARB Diesel.

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Item	Source	Location	Change	Reason
104	S1557 S1572	Table IV-C.3.8	Updated 40 CFR 60 Subpart IIII.	Part of 6/28/2011, 1/30/2013 and 7/7/2016 amendments, and removed parts not applicable or past due.
105	S1557 S1572	Table IV-C.3.8	Updated 40 CFR 63 Subpart ZZZZ.	Part of 1/30/2013 amendments, and 8/10/2022.
106	S1557 S1572	Table IV-C.3.8	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
107	S1562 S1563	Table IV-C.3.9	Added table for new sources	Applications 27990/27991
108	S1562 S1563	Table IV-C.3.9	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
109	S1562 S1563	Table IV-C.3.9	Replaced Condition 23811 with 22851	Consistent with other fire pump engines.
110	S902	Table IV-C.4.1	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
111	S908 S909 S912 S913 S915 S916 S921 S922 S927	Table IV-C.4.1	Removed sources. Updated Condition 16685, Part 1 Updated Condition 18372, Part 28 Deleted Condition 18372, Parts 18 and 22. Deleted Conditions 18539, 21186, 22621, 27583	Applications 30768/30769 Source(s) removed from service.
112	S920 S926 S928- S935 S937	Table IV-C.4.2	Removed BAAQMD 9-10-301 and added requirements for Alternative NOx Compliance Plan: 9-10-113, 308, 405, 406, and 407	Applications 30806/30808
113	S920 S926 S928- S935 S937	Table IV-C.4.2	Updated Regulation 9, Rule 10, Sections 502, 504, and 505	Part of 11/03/2021 amendment
114	S920 S926 S928- S935 S937	Table IV-C.4.2	Added 40 CFR 63 Subpart DDDDD	Initial rule 3/21/2011, last amended 12/28/2020

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Item	Source	Location	Change	Reason
115	S920 S926 S928- S935 S937	Table IV-C.4.2	Deleted Condition 8077 except parts B4B, B4C, B4D, B7A, B7D, C3 & C4	Moved to new Table IV-M.1
116	S920 S926 S928- S935 S937	Table IV-C.4.2	Deleted Condition 8077 Part B7C.	Applications 29278/29274
117	S920 S928- S934 S937	Table IV-C.4.2	Updated sources associated with Conditions 13605, 20099, 21053, 21100, 21849	Applications 30768/30769
118	S920 S926 S928- S935 S937	Table IV-C.4.2	Updated Condition 18372, Parts 27, 34, 35 Deleted Condition 18372, Parts 28 through 33 Added Condition 18372, Parts 37 through 39	Applications 30806/30808
119	S920 S926 S928- S935 S937	Table IV-C.4.2	Added Conditions 27583 and 27604	Applications 30768/30769
120	S920 S926 S928- S935 S937	Table IV-C.4.2	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
121	S917 S951 S974	Table IV-C.4.3	Removed sources. Updated Condition 16685, Part 1 Updated Condition Deleted Condition 18372 Parts 20, 22 Deleted Conditions 21186	Applications 30768/30769 Source(s) removed from service.
122	S919 S973	Table IV-C.4.3	Removed Subpart J applicability from table description	Applications 30768/30769

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Item	Source	Location	Change	Reason
123	S919 S973	Table IV-C.4.3	Removed BAAQMD 9-10-301 and added requirements for Alternative NOx Compliance Plan: 9-10-113, 308, 405, 406, and 407	Applications 30806/30808
124	S919 S973	Table IV-C.4.3	Updated Regulation 9, Rule 10, Sections 502, 503, 504, and 505	Part of 11/03/2021 amendment
125	S919 S973	Table IV-C.4.3	Deleted BAAQMD Regulation 10, 40 CFR 60 Subpart J, 40 CFR 60 Appendix B, 40 CFR 60 Appendix F.	Applications 30768/30769
126	S919 S973	Table IV-C.4.3	Added 40 CFR 63 Subpart DDDDD	Initial rule 3/21/2011, last amended 12/28/2020
127	S973	Table IV-C.4.3	Updated Condition 8077-A2A to include S-973	Applications 27309/27310
128	S974	Table IV-C.4.3	Removed source from Condition 8077-A2A	Applications 30768/30769 Source(s) removed from service.
129	S919 S973	Table IV-C.4.3	Deleted Condition 8077 except parts A2A, A2B, B4A, B4B, B4D, B7A, B7B	Moved to new Table IV-M.1
130	S919 S973	Table IV-C.4.3	Added Conditions 13605, 20099, 21053, 21100	Applications 30768/30769
132	S919 S973	Table IV-C.4.3	Updated Condition 18372, Parts 27, 34, 35 Deleted Condition 18372, Parts 29 through 33 Added Condition 18372, Parts 37 through 39	Applications 30806/30808
133	S919 S973	Table IV-C.4.3	Added Conditions 27583 and 27604	Applications 30768/30769
134	S919 S973	Table IV-C.4.3	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
135	S950	Table IV-C.4.4	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
139	S1412	Table IV-C.4.5	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
141	S1470	Table IV-C.4.6	Deleted source from table.	Applications 30768/30769 Source(s) removed from service.
142	S1106	Table IV-C.4.6	Added 40 CFR 63 Subpart DDDDD	Initial rule 3/21/2011, last amended 11/20/2015
143	S1511 S1512	Table IV-C.4.7	Revised source description	Applications 30768/30769

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Item	Source	Location	Change	Reason
144	S1511 S1512	Table IV-C.4.7	Added BAAQMD Regulation 10-4, 40 CFR 60, Subpart Db, 40 CFR 60 Appendix B PS2 and PS3	Applications 30768/30769
145	S1511 S1512	Table IV-C.4.7	Added 40 CFR 63 Subpart DDDDD	Initial rule 3/21/2011, last amended 12/28/2020
146	S1511 S1512	Table IV-C.4.7	Deleted BAAQMD Regulation 10-14, 40 CFR 60 Subpart J, 40 CFR 60 Appendix B PS7	Applications 30768/30769
147	S1511 S1512	Table IV-C.4.7	Added Conditions 13605, 20099, 21053, 21100, 21849	Applications 30768/30769
148	S1510	Table IV-C.4.7	Deleted Condition 23129, Part 9	Applications 30768/30769 Source(s) removed from service.
149	S1511 S1512	Table IV-C.4.7	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
150	S971 S972	Table IV-C.4.8	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
151	S963	Table IV-C.5.1	Deleted table and all requirements.	Applications 28445/28446
152	S55	Table IV-D.1	Deleted all requirements except Conditions 8077 and 22455	Applications 30768/30769
153	S55	Table IV-D.1	Deleted Condition 22455, Part 10, revised Parts 11 and 12, and added Parts 13 and 14	Applications 30768/30769
154	S55	Table IV-D.1	Deleted Condition 8077	Moved to new Table IV-M.1
155	S100	Table IV-D.2	Deleted table and all requirements.	Applications 27990/27991
156	S108	Table IV-D.4	Deleted table and all requirements.	Applications 27990/27991
157	S115	Table IV-D.5	Added Condition 27587	Applications 30768/30769
158	S126 S127	Table IV-D.6	Added Condition 27543	Applications 31305/32023
159	S1025	Table IV-D.7	Added Condition 27543	Applications 31305/32023
160	S1025	Table IV-D.7	Updated source description	Applications 30768/30769
161	S1025	Table IV-D.7	Deleted 40 CFR Subpart CC	Applications 30768/30769
162	S1025	Table IV-D.7	Deleted 40 CFR Subpart R, Section 63.420(i) Added 40 CFR Subpart R, Sections 63.422, 427, 248(c),	Applications 30768/30769
163	S1025	Table IV-D.7	Added 40 CFR 63, Subpart FFFF	Applications 30768/30769
164	S1025	Table IV-D.7	Added Condition 26033	Applications 26198/26199
165	S1560	Table IV-D.11	Added Table	Applications 27990/27991
166	S1560	Table IV-D.11	Added Condition 27543	Applications 31305/32023

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Item	Source	Location	Change	Reason
167	S97 S98 S99	Table IV-E.1	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
168	S659 S660	Table IV-E.2	Deleted sources from table description	Consistency
169	S809 S810	Table IV-E.3	Deleted sources and all requirements.	Applications 30768/30769 Source(s) removed from service.
170	S821	Table IV-E.3	Updated Regulation 6-1-310 and 6-1-311 citations	Part of 8/1/2018 amendment
171	S975 S977 S979 S981 S983 S987 S988	Table IV-E.4	Removed source(s) Deleted Condition 19199, Parts D1, D3 through D8	Applications 30768/30769 Source(s) removed from service.
172	S846 S976 S978 S980 S982 S985	Table IV-E.4	Added Regulation 1 and Regulation 8, Rule 2	5/4/2011 and 8/1/2018 Rule Amendments
173	S846 S976 S978 S980 S982 S985	Table IV-E.4	Added Regulation 11 Rule 10 Hexavalent Chromium Emissions from All Cooling Towers and Total Hydrocarbon Emissions from Refinery Cooling Towers	12/16/2015, 12/16/2018, and 11/3/2021 Rule Amendments
175	S846 S976 S978 S980 S982 S985	Table IV-E.4	Added 40 CFR 63 Subpart FFFF requirements.	Applications 30768/30769
176	S846 S976 S978 S980 S985	Table IV-E.4	Added Condition 27587	Applications 30768/30769

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Item	Source	Location	Change	Reason
177	S846 S976 S978 S980 S982 S985	Table IV-E.4	Updated Regulation 6-1-310 and 6-1-311 citations	Part of 8/1/2018 amendment
178	S1513	Table IV-E.5	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
179	S1514 S1515	Table IV-E.6	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
180	S1516	Table IV-E.7	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
181	S57	Table IV-F.1	Deleted source	Removed from service 3-21-2023
182	S135	Table IV-F.1	Deleted source	Removed from service 2-2-2023
183	S198	Table IV-F.1	Deleted source	Removed from service 6-30-2008
184	S631	Table IV-F.1	Deleted source	Removed from service 4-4-2023
185	S749	Table IV-F.1	Deleted source	Correction. Removed from service in 2012
186	S990	Table IV-F.1	Deleted source	Removed from service 3-21-2023
187	S1418	Table IV-F.1	Deleted source	Removed from service 3-21-2023
188	S1421	Table IV-F.1	Deleted source	Removed from service 4-4-2023
189	S1496	Table IV-F.1	Deleted source	Applications 30768/30769
190	S1498	Table IV-F.1	Deleted source	Correction. Removed from service in 2009

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Item	Source	Location	Change	Reason
191	S323 S517 S598 S620 S621 S622 S648 S649 S652 S666 S667 S668 S669 S670 S692 S695 S873 S1463 S1464 S1465	Table IV-F.1	Updated source description	Applications 30768/30769
192	S646 S647	Table IV-F.1	Updated source description	Applications 31991/30769
193	S134 S137 S323 S603 S613 S656 S658 S714	Table IV-F.1	Added Condition 27543	Applications 31305/32023
194	S1549	Table IV-F.1	Added Condition 24649-1a	Applications 29278/29274
195	S1564	Table IV-F.1	Added new source	Applications 27990/27991
196	S137	Table IV-F.1 & F.2	Changed applicability to BWON 40 CFR 61 Subpart FF group	Correct error. S137 is a recovered oil tank in the same service as S896, subject to BWON.
197	S134 S137 S896	Table IV-F.1	Added Condition 26910	Applications 26602/27668
198	S629	Table IV-F.2	Deleted source from Group 100	Source demolished.
199	S749	Table IV-F.2	Deleted source from Group 101A	Correction. Removed from service in 2012.
200	S1498	Table IV-F.2	Deleted source from Group 101A	Correction. Removed from service in 2009.
201	S990	Table IV-F.2	Deleted source from Group 101B	Removed from service on 3-21- 2023.

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Item	Source	Location	Change	Reason
202	S1418	Table IV-F.2	Deleted source from Group 101B	Removed from service on 3-21-2023.
203	S198	Table IV-F.2	Deleted source from Group 101C	Correction. Removed from service in 2008.
204	S631	Table IV-F.2	Deleted source from Group 201A	Removed from service on 4-4-2023.
205	S1421	Table IV-F.2	Deleted source from Group 201A	Removed from service on 4-4-2023.
206	S318, S367	Table IV-F.2	Deleted source from Group 401C	Sources demolished.
207	S315	Table IV-F.2	Deleted source from Group 301B	Source demolished.
208	S1508, S1509	Table IV-F.2	Deleted sources from Group 402A	Applications 27990/27991
209	S1601	Table IV-F.2	Added source to Group 101B	Applications 31915/30769
210	S1564	Table IV-F.2	Added new source to Group 403C	Applications 27990/27991
211	Tanks	Table IV-F.3	See Section "Changes to Table IV - F.3" below	See Section "Changes to Table IV - F.3" below
212	Drains	Table IV-G.2	Updated table description	Applications 30768/30769
213	Drains	Table IV-G.2	Deleted Regulation 10, Subpart QQQ, Subpart CC	Applications 30768/30769
214	Drains	Table IV-G.2	Added Subpart FFFF, Subpart G	Applications 30768/30769
215	S513	Table IV-G.3	Deleted table and all requirements.	S-513 demolished
216	S1484	Table IV-G.4	Removed source(s). Deleted Condition 19762	Applications 30768/30769 Source(s) removed from service.
217	S532	Table IV-G.4	Added Condition 27543	Applications 31305/32023
218	S532	Table IV-G.4	Removed Regulation 11, Rule 12, 40 CFR 61 Subpart FF by reference.	The detailed requirements of 40 CFR 61 Subpart FF are specified elsewhere in this table.
219	S532	Table IV-G.4	Deleted 61.349, and 61.356(j).	Correction. S532 is abated by sending vapors to the fuel gas system and is exempt from these requirements per 61.340(d).
220	S532	Table IV-G.4	Deleted Subpart CC	Applications 32029/32030
221	S606 S607	Table IV-G.5	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
224	S699	Table IV-G.6	Removed Regulation 11, Rule 12, 40 CFR 61 Subpart FF by reference.	The detailed requirements of 40 CFR 61 Subpart FF are specified elsewhere in this table.
225	S699	Table IV-G.6	Added Condition 27543	Applications 31305/32023
226	S699	Table IV-G.6	Removed BAAQMD Regulation 10, 40 CFR 60 Subpart QQQ, 40 CFR 63 Subpart CC	Applications 30768/30769

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227	S699	Table IV-G.6	Added reference to Tables IV-F.1 through f.3 for additional tank requirements.	Applications 30768/30769
228	S699	Table IV-G.6	Added Condition 27587	Applications 30768/30769
229	S700	Table IV-G.7	Removed Regulation 11, Rule 12, 40 CFR 61 Subpart FF by reference.	The detailed requirements of 40 CFR 61 Subpart FF are specified elsewhere in this table.
230	S700	Table IV-G.7	Removed 40 CFR 63 Subpart CC	Applications 30768/30769
231	S700	Table IV-G.7	Added 40 CFR 63 Subpart G, 40 CFR 63 Subpart FFFF	Applications 30768/30769
232	S700	Table IV-G.7	Added Condition 27587	Applications 30768/30769
233	S819	Table IV-G.8	Added Condition 27543	Applications 31305/32023
234	S819	Table IV-G.8	Added BAAQMD Regulation 6, Rule 1	Applications 30768/30769
235	S819	Table IV-G.8	Removed Regulation 11, Rule 12, incorporated by reference.	The detailed requirements of 40 CFR 61 Subpart FF are specified elsewhere in this table.
236	S819	Table IV-G.8	Removed Regulation 10, Rule 69, 40 CFR 60 Subpart QQQ, 40 CFR 63 Subpart CC	Applications 30768/30769
237	S819	Table IV-G.8	Added 40 CFR 63 Subpart G, 40 CFR 63 Subpart FFFF	Applications 30768/30769
238	S819	Table IV-G.8	Added Condition 27587	Applications 30768/30769
239	S819	Table IV-G.8	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
241	S830 S831 S842 S1101 S1102 S1103 S1104	Table IV-G.9	Added 40 CFR 63 Subpart G, 40 CFR 63 Subpart FFFF	Applications 30768/30769
242	S830 S831 S842	Table IV-G.9	Added Condition 27587	Applications 30768/30769
243	S1026	Table IV-G.10	Added BAAQMD Regulation 6, Rule 1	Applications 30768/30769
244	S1026	Table IV-G.10	Added 40 CFR 63 Subpart G, 40 CFR 63 Subpart FFFF	Applications 30768/30769
245	S1026	Table IV-G.10	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
246	S2013	Table IV-G.11	Added source	Applications 30768/30769
247	S851	Table IV-H.1	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.

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Changes to Section IV				
Item	Source	Location	Change	Reason
248	S1401	Table IV-H.2	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
251	S1404	Table IV-H.3	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
252	S1405	Table IV-H.4	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
253	S1411	Table IV-H.5	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
254	S1413	Table IV-H.6	Removed source	Applications 30768/30769 Source(s) removed from service.
255	S1414	Table IV-H.6	Deleted table and all requirements.	Removed from service on 3-21-2023
256	S1415	Table IV-H.7	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
257	S1571	Table IV-H.8	Added Table	Applications 28336/28346
258	S1571	Table IV-H.8	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
259	N/A	Table IV-J.0	Added rows for Groundwater Remediation and Contaminated Soil Remediation	Addition removed per Tesoro 2/26/2019 Comment # 25.
260	N/A	Table IV-J.0	Updated process unit description and replaced Area Numbers with Area IDs.	Applications 30768/30769 Per Tesoro's request, area numbers are no longer used, which are replaced with area IDs.
261	N/A	Table IV-J.0	Removed process units	Applications 30768/30769 Source(s) removed from service.
262	N/A	Table IV-J.0	Removed 40 CFR 60, Subpart GGG, Subpart VV, Subpart GGGa, Subpart VVa, 40 CFR 61 Subpart FF, Subpart J, Subpart V, Subpart CC, Subpart VV	Applications 30768/30769
263	N/A	Table IV-J.0	Added 40 CFR 63 Subpart FFFF, Subpart UU	Applications 30768/30769
264	N/A	Table IV-J.0	Added 40 CFR 63 Subpart EEEE, Subpart UU	Applications 30768/30769
265	N/A	Table IV-J.0	Added 40 CFR 63 Subpart R	Applications 30768/30769
266	N/A	Table IV-J.0	Added 40 CFR 63 Subpart FFFF for pressure relief devices	Applications 30768/30769
267	N/A	Table IV-J.0	Added 40 CFR 63 Subpart EEEE for pressure relief devices	Applications 30768/30769
268	N/A	Table IV-J.0	Deleted Notes 1 through 7 and added new Notes 1 through 6	Applications 30768/30769
269	Connecti on	Table IV -J.1	Deleted Regulation 8-18-304.3	Part of 12/15/2015 amendments.

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Changes to Section IV				
Item	Source	Location	Change	Reason
270	n/a	Table IV -J.1	Added Regulation 8-18-407	Part of 12/15/2015 amendments.
271	Equipment Leaks	Table IV-J.1	Removed BAAQMD Regulation 10-52 and 10-59, Regulation 11, Rule 7, 40 CFR 60 Subpart VV, VVa, GGG, GGGa, Subpart CC	Applications 30768/30769
272	Equipment Leaks	Table IV-J.1	Revised applicability to 40 CFR 61 Subpart J, Subpart V	Applications 30768/30769
273	Equipment Leaks	Table IV-J.1	Added 40 CFR 63 Subpart EEEE, Subpart FFFF, Subpart UU, Subpart R	Applications 30768/30769
274	S1009	Table IV-J.1	Deleted Condition 11609	Applications 30768/30769 Source(s) removed from service.
275	S802	Table IV-J.1	Deleted Condition 19199, Part C5	Applications 30768/30769 Source(s) removed from service.
276	Equipment Leaks	Table IV-J.1	Added Condition 27596	Applications 30768/30769
277	Atmospheric Pressure Relief Devices	Table IV-J.2	Added 40 CFR 63 Subpart EEEE, Subpart FFFF	Applications 30768/30769
278	S804 S807 S822 S834	Table IV-J.3	Revised table description	Applications 30768/30769 Source(s) removed from service.
279	S823 S824	Table IV- J.4	Updated Regulation 6-1-310 and 6-1-311 citations	Part of 8/1/2018 amendment
280	S1543 S1544 S1545 S1546 S1547 S1548	Table IV-J.5	None	Cold Cleaners no longer in service and deleted from Section II. Removal request rescinded by Tesoro in 2/26/2019 Comment # 11.
281	S590	Table IV-J.6	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
282	S825 S856	Table IV-J.7	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
283	S1526	Table IV-J.8	Added source	Applications 30768/30769
284	A39	Table IV-K.1	Added 40 CFR 63 Subpart G, Subpart FFFF	Applications 30768/30769
285	A39	Table IV-K.1	Removed 40 CFR 60 Subpart J, Subpart QQQ, 40 CFR 63 Subpart CC	Applications 30768/30769
286	A39	Table IV-K.1	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment

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Changes to Section IV				
Item	Source	Location	Change	Reason
287	A40 A42 A43	Table IV-K.2	Removed 40 CFR 60 Subpart J	Applications 30768/30769
288	A39	Table IV-K.1	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
289	A40 A42 A43	Table IV-K.2	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
290	A1584	Table IV-K.3	Added abatement device	Applications 31305/32023
291	A2000	Table IV-K.4	Added abatement device	Applications 30768/30769
292	A2001	Table IV-K.5	Added abatement device	Applications 30768/30769
293	A2002	Table IV-K.6	Added abatement device	Applications 30768/30769
294	Various	Table IV-M.1	Added Table for all requirements of the Refinery Emissions Cap	Added to eliminate repetitive citations in each source table.
295	S57	Table IV-M.1	Removed source	Removed from service March 21, 2023.

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Changes to Table IV - F.3										
Device	Equipment Description	Current Stored Liquid	Future Stored Liquid	Current Applicability in Table F.2 of Existing Operating Permit			Future Applicable Regulations As Noted in Operating Permit Redline of Table F.2			Reason
				Tank Group	Tank Type	Group Description	Tank Group	Tank Type	Group Description	
S3	Tank A-03	Diesel	Diesel	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102B	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, Non-MACT (Content)	Applications 32029/32030
S26	Tank A-26	Gasoline	Gasoline	201A	8-5-304 EFR	Welded, MACT Group 1	204A	8-5-304 EFR	Non-NSPS MACT R EFR	Applications 32029/32030
S33	Tank A-33	Gasoline	Gasoline	201A	8-5-304 EFR	Welded, MACT Group 1	204A	8-5-304 EFR	Non-NSPS MACT R EFR	Applications 32029/32030
S57	Tank A-57	Diesel	Diesel	Not listed in Title V Permit			Shutdown			n/a
S134	Tank A-134, abated by A14 Vapor Recovery	Recovered Oil	Recovered Oil	401D	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (Abated by Vapor Recovery System), BWON 61 Subpart FF	404C	8-5-306 Fixed Roof	NSPS Kb, MACT EEEE (Abated by Vapor Recovery System), BWON 61 Subpart FF	Applications 32029/32030
S135	Tank A-135	Fuel Oil, Jet 'A', Gas Oil, Recovered Oil	Fuel Oil, Jet 'A', Gas Oil, Recovered Oil	201A	8-5-304 EFR	Welded, MACT Group 1	Shutdown			n/a
S137	Tank A-137, abated by A14 Vapor Recovery	Fuel Oil, Waste Oil, Gasoline	Fuel Oil #, Waste Oil, Gasoline	401C	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (Abated by Vapor Recovery System)	404C	8-5-306 Fixed Roof	NSPS Kb, MACT EEEE (Abated by Vapor Recovery System), BWON 61 Subpart FF	Applications 32029/32030
S217	Tank A-217	Ethers, Gasoline	Ethers, Gasoline	201A	8-5-304 EFR	Welded, MACT Group 1	204A	8-5-304 EFR	Non-NSPS MACT R EFR	Applications 32029/32030
S258	Tank A-258	Gas oil	Gas oil	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102B	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, Non-MACT (Content)	Applications 32029/32030
S270	Tank A-270	Diesel	Diesel, Renewable Diesel	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102B	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, Non-MACT (Content)	Applications 32029/32030
S272	Tank A-272	Diesel	Diesel, Renewable Diesel	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102B	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, Non-MACT (Content)	Applications 32029/32030
S274	Tank A-274	Diesel	Diesel, Renewable Diesel	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102B	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, Non-MACT (Content)	Applications 32029/32030
S323	TANK A-323	Recovered Oil (Gasoline)	Slop Oil	401A	8-5-306 Fixed Roof	Non Ka/Kb, MACT Exempt (Abated by Vapor Recovery System)	403A	8-5-306 Fixed Roof	Non-NSPS, MACT FFFF Group 1 Storage Tank (Abated by Vapor Recovery System)	Applications 30768/30769
S429	Tank A-429	Foul Water (low hydrocarbon content)	Distillate oil, Gas oil	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102C	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, MACT EEEE (EFR)	Applications 32029/32030
S494	Tank A-494	Turbine Oil	Turbine Oil	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102B	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, Non-MACT (Content)	Applications 32029/32030
S514	Tank A-514	LPG	LPG	501	8-5-307 Pressure Tank	MACT CC Exempt (Pressure Tanks)	501	8-5-307 Pressure Tank	Non-MACT (Pressure Tanks)	Applications 32029/32030
S515	Tank A-515	LPG	LPG	501	8-5-307 Pressure Tank	MACT CC Exempt (Pressure Tanks)	501	8-5-307 Pressure Tank	Non-MACT (Pressure Tanks)	Applications 32029/32030
S516	Tank A-516	LPG	LPG	501	8-5-307 Pressure Tank	MACT CC Exempt (Pressure Tanks)	501	8-5-307 Pressure Tank	Non-MACT (Pressure Tanks)	Applications 32029/32030
S517	TANK A-517	Fuel Oil, Cutter Stock	Renewable Feedstock	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769

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Changes to Table IV - F.3										
Device	Equipment	Current Stored Liquid	Future Stored Liquid	Current Applicability in Table F.2 of Existing Operating Permit			Future Applicable Regulations As Noted in Operating Permit Redline of Table F.2			Reason
S554	Tank A-554	LPG	LPG	501	8-5-307 Pressure Tank	MACT CC Exempt (Pressure Tanks)	501	8-5-307 Pressure Tank	Non-MACT (Pressure Tanks)	Applications 32029/32030
S572	Tank A-572	LPG	LPG	501	8-5-307 Pressure Tank	MACT CC Exempt (Pressure Tanks)	501	8-5-307 Pressure Tank	Non-MACT (Pressure Tanks)	Applications 32029/32030
S585	Tank A-585	Distillate oil, Gas oil	Distillate oil, Gas oil	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102B	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, Non-MACT (Content)	Applications 32029/32030
S598	TANK A-598	Isobutane	Renewable Naphtha	501	8-5-307 Pressure Tank	MACT Exempt (Pressure Tanks)	502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	Applications 30768/30769
S599	Tank A-585	LPG	LPG	501	8-5-307 Pressure Tank	MACT CC Exempt (Pressure Tanks)	501	8-5-307 Pressure Tank	Non-MACT (Pressure Tanks)	Applications 32029/32030
S601	TANK A-601	Recovered Oil	Recovered/Slop Oil	302C	8-5-305 IFR	NSPS Kb, MACT WW 63.647(a), BWON 61 Subpart FF	302	8-5-305 IFR	NSPS Kb, MACT FFFF Group 1 IFR Overlap 63.2535(c), BWON 61 Subpart FF	Applications 30768/30769
S603	Tank A-603, Black, Organic Liquid – other/not Spec; #50 Unit Desalter Break Tank, A14 Vapor Recovery	Organic Liquid	Organic Liquid	401B	8-5-306 Fixed Roof	Non Ka/Kb, MACT Exempt (Abated by Vapor Recovery System), BWON 61 Subpart FF	404B	8-5-306 Fixed Roof	Non-NSPS, MACT EEEE (Abated by Vapor Recovery System), BWON 61 Subpart FF	Applications 32029/32030
S604	Tank A-604	Distillate oil	Distillate oil	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102B	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, Non-MACT (Content)	Applications 32029/32030
S612	Tank A-612	Ethyl Alcohol	Ethyl Alcohol	301A	8-5-305 IFR	Welded, MACT Group 1	301	8-5-305 IFR	Non-NSPS, Non-MACT (Content) IFR	Applications 32029/32030
S613	TANK A-613	Vapor Recovery/Holding	Vapor Recovery/Holding	Tank not found in Table F.2, See Table IV - D.10 of the existing permit.			502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	Applications 30768/30769
S618	Tank A-618	Paraffins, C3+	Paraffins, C3+	501	8-5-307 Pressure Tank	MACT CC Exempt (Pressure Tanks)	501	8-5-307 Pressure Tank	Non-MACT (Pressure Tanks)	Applications 32029/32030
S620	TANK A-620	Fuel Oil	Renewable Feedstock	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769
S621	TANK A-621	LCO/HCK Feed (Fuel Oil)	Stripped HDO Product	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	202C	8-5-304 EFR	NSPS Kb, MACT FFFF Group 1 Storage Tank EFR Overlap 63.2535(c)	Applications 30768/30769
S622	Tank A-622	Sour Distillate	Renewable Diesel	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769
S631	Tank A-631	Crude Oil, Bunker C Fuel Oil, FCC Fresh Feed, Refinery, Fuel Oil #2, Gas Oil	Crude Oil, Bunker C Fuel Oil, FCC Fresh Feed, Refinery, Fuel Oil #2, Gas Oil	201A	8-5-304 EFR	Welded, MACT Group 1	Shutdown			n/a
S637	Tank A-637	Naphtha	Naphtha	201A	8-5-304 EFR	Welded, MACT Group 1	204A	8-5-304 EFR	Non-NSPS MACT R EFR	Applications 32029/32030
S638	Tank A-638	Naphtha, Gas Oil, Gasoline	Naphtha, Gas Oil, Gasoline	201A	8-5-304 EFR	Welded, MACT Group 1	204A	8-5-304 EFR	Non-NSPS MACT R EFR	Applications 32029/32030
S639	Tank A-639	Naphtha	Naphtha	201A	8-5-304 EFR	Welded, MACT Group 1	204A	8-5-304 EFR	Non-NSPS MACT R EFR	Applications 32029/32030
S640	Tank A-640	Distillate Oil, Gasoline	Distillate Oil, Gasoline	201A	8-5-304 EFR	Welded, MACT Group 1	204A	8-5-304 EFR	Non-NSPS MACT R EFR	Applications 32029/32030

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Device	Equipment	Current Stored Liquid	Future Stored Liquid	Current Applicability in Table F.2 of Existing Operating Permit			Future Applicable Regulations As Noted in Operating Permit Redline of Table F.2			Reason
S641	Tank A-641	Naphtha, Distillate Oil, Gasoline	Naphtha, Distillate Oil, Gasoline	201A	8-5-304 EFR	Welded, MACT Group 1	204A	8-5-304 EFR	Non-NSPS MACT R EFR	Applications 32029/32030
S646	Tank A-646, Pressurized, Renewable Propane Tank	Propane Product	Renewable Propane	501	8-5-307 Pressure Tank	MACT Exempt (Pressure Tanks)	502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	Applications 31991/30769
S647	Tank A-647, Pressurized, Renewable Propane Tank	Propane Product	Renewable Propane	501	8-5-307 Pressure Tank	MACT Exempt (Pressure Tanks)	502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	Applications 31991/30769
S648	TANK A-648	Propane Product	Renewable Propane	501	8-5-307 Pressure Tank	MACT Exempt (Pressure Tanks)	502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	Applications 30768/30769
S649	TANK A-649	Propane Product	Renewable Propane	501	8-5-307 Pressure Tank	MACT Exempt (Pressure Tanks)	502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	Applications 30768/30769
S650	Tank A-650 - Sour Water	Sour Water (Concentrated Foul Water)	Sour Water (Concentrated Foul Water)	203C	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1), BWON 61 Subpart FF	202D	8-5-304 EFR	NSPS Kb, MACT FFFF Group 1 or 2 Wastewater Tank EFR	Applications 30768/30769
S651	Tank 651	Sour Water (Reclaimed Oil/Dilute Foul Water)	Sour Water (Reclaimed Oil/Dilute Foul Water)	201A	8-5-304 EFR	Welded, MACT Group 1	202A	8-5-304 EFR	Non-NSPS, MACT FFFF Group 1 or 2 Wastewater Tank EFR	Applications 30768/30769
S652	TANK A-652	Pentane (PID Mixed Butane or Pentane)	Renewable Naphtha	501	8-5-307 Pressure Tank	MACT Exempt (Pressure Tanks)	502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	Applications 30768/30769
S656	Foul Water Stripper Charge Tank #846	Phenol Skim Tank	Change in rates.	401C	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (Abated by Vapor Recovery System)	403D	8-5-306 Fixed Roof	NSPS Kb, MACT FFFF Group 1 or 2 Wastewater Tank Overlap 63.2535(c) (Abated by Vapor Recovery System)	Applications 30768/30769
S658	Foul Water Stripper Charge Tank #847	Phenol Charge Tank	Change in rates.	401C	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (Abated by Vapor Recovery System)	403D	8-5-306 Fixed Roof	NSPS Kb, MACT FFFF Group 1 or 2 Wastewater Tank Overlap 63.2535(c) (Abated by Vapor Recovery System)	Applications 30768/30769
S664	Tank A-664	Gasoline	Gasoline	201A	8-5-304 EFR	Welded, MACT Group 1	204A	8-5-304 EFR	Non-NSPS MACT R EFR	Applications 32029/32030
S666	TANK A-666	Propane Product	Renewable Propane	501	8-5-307 Pressure Tank	MACT Exempt (Pressure Tanks)	502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	Applications 30768/30769
S667	TANK A-667	Propane Product	Renewable Propane	501	8-5-307 Pressure Tank	MACT Exempt (Pressure Tanks)	502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	Applications 30768/30769
S668	TANK A-668	Propane Product	Renewable Propane	501	8-5-307 Pressure Tank	MACT Exempt (Pressure Tanks)	502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	Applications 30768/30769
S669	TANK A-669	Propane Product	Renewable Propane	501	8-5-307 Pressure Tank	MACT Exempt (Pressure Tanks)	502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	Applications 30768/30769
S670	TANK A-670	Propane Product	Renewable Propane	501	8-5-307 Pressure Tank	MACT Exempt (Pressure Tanks)	502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	Applications 30768/30769
S690	Tank A-690	Crude Oil	Crude Oil	201A	8-5-304 EFR	Welded, MACT Group 1	203A	8-5-304 EFR	Non-NSPS MACT EEEE EFR	Applications 32029/32030
S691	Tank A-691	Butane	Butane	502	8-5-306 Fixed Roof	MACT Exempt (Butane Refrigerated Dome Tank)	501	8-5-307 Pressure Tank	Non-MACT (Pressure Tanks)	Applications 32029/32030
S692	TANK A-692	Gasoline	Gasoline/Renewable Naphtha	201A	8-5-304 EFR	Welded, MACT Group 1	202B	8-5-304 EFR	Non-NSPS, MACT FFFF Group 1 Storage Tank EFR	Applications 30768/30769
S694	Tank A-694	Crude Oil	Crude Oil	201A	8-5-304 EFR	Welded, MACT Group 1	203A	8-5-304 EFR	Non-NSPS MACT EEEE EFR	Applications 32029/32030

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S695	TANK A-695	Normal Butane	Renewable Naphtha	501	8-5-307 Pressure Tank	MACT Exempt (Pressure Tanks)	502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	Applications 30768/30769
S696	Tank A-696	Gasoline	Gasoline	301A	8-5-305 IFR	Welded, MACT Group 1	303A	8-5-305 IFR	Non-NSPS, MACT R IFR	Applications 32029/32030
S699	TANK A-699	Recovered Oil	Recovered Oil	Not listed in Table F.2 - See Table IV - G.6			403B	8-5-306 Fixed Roof	Non-NSPS, MACT FFFF Group 1 Storage Tank (Abated by Vapor Recovery System), BWON 61 Subpart FF	Applications 30768/30769
S700	TANK A-700	API Sludge Tank	API Sludge Tank	Not listed in Table F.2 - See Table IV - G.7			Not listed in Table F.2 - See Table IV - G.7			Applications 30768/30769
S701	Tank A-701	Crude Oil	Crude Oil	201A	8-5-304 EFR	Welded, MACT Group 1	203A	8-5-304 EFR	Non-NSPS MACT EEEE EFR	Applications 32029/32030
S702	Tank A-702	Gasoline	Gasoline	201A	8-5-304 EFR	Welded, MACT Group 1	204A	8-5-304 EFR	Non-NSPS MACT R EFR	Applications 32029/32030
S705	Tank A-705	Crude Oil	Crude Oil	202	8-5-304 EFR	NSPS Ka, MACT Overlap 63.640(n)(5) - Group 1	203B	8-5-304 EFR	NSPS Ka, MACT EEEE EFR	Applications 32029/32030
S706	Tank 113-A-706	Crude Oil	Crude Oil	202	8-5-304 EFR	NSPS Ka, MACT Overlap 63.640(n)(5) - Group 1	203B	8-5-304 EFR	NSPS Ka, MACT EEEE EFR	Applications 32029/32030
S707	Tank 113-A-707	Crude Oil, Hydrocarbon mixtures	Crude Oil, Hydrocarbon mixtures	202	8-5-304 EFR	NSPS Ka, MACT Overlap 63.640(n)(5) - Group 1	203B	8-5-304 EFR	NSPS Ka, MACT EEEE EFR	Applications 32029/32030
S708	Tank 113-A-708	Crude Oil	Crude Oil	202	8-5-304 EFR	NSPS Ka, MACT Overlap 63.640(n)(5) - Group 1	203B	8-5-304 EFR	NSPS Ka, MACT EEEE EFR	Applications 32029/32030
S709	Tank 113-A-709	Crude Oil, Waste Oil	Crude Oil, Waste Oil	202	8-5-304 EFR	NSPS Ka, MACT Overlap 63.640(n)(5) - Group 1	203B	8-5-304 EFR	NSPS Ka, MACT EEEE EFR	Applications 32029/32030
S710	Tank A-710	Alkylate, Gasoline	Alkylate, Gasoline	202	8-5-304 EFR	NSPS Ka, MACT Overlap 63.640(n)(5) - Group 1	204B	8-5-304 EFR	NSPS Ka, MACT R EFR	Applications 32029/32030
S711	Tank 80-A-711	Crude Oil, Gasoline	Crude Oil, Gasoline	202	8-5-304 EFR	NSPS Ka, MACT Overlap 63.640(n)(5) - Group 1	204B	8-5-304 EFR	NSPS Ka, MACT R EFR	Applications 32029/32030
S714	Tank A-714, White, Abated by A-714 Scrubber, A-14 Vapor Recovery	Organic Liquid – other/not Spec, Hydrocarbon Alkylation Spent Acid	Organic Liquid – other/not Spec, Hydrocarbon Alkylation Spent Acid	401A	8-5-306 Fixed Roof	Non Ka/Kb, MACT Exempt (Abated by Vapor Recovery System)	404A	8-5-306 Fixed Roof	Non-NSPS, MACT EEEE (Abated by Vapor Recovery System)	Applications 32029/32030
S771	Tank 2-A-713	DEA (Alcohol, Amine)	DEA (Alcohol, Amine)	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102C	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, MACT EEEE (EFR)	Applications 32029/32030
S775	Tank A-849	Gasoline	Gasoline	302A	8-5-305 IFR	Welded, NSPS Kb, MACT Overlap 63.640(n)(1), (3), and (8) - Group 1	303B	8-5-305 IFR	NSPS Kb, MACT R IFR Overlap 63.420(g)	Applications 32029/32030
S871	Tank A-871	Distillate Oil, Crude Oil	Distillate Oil, Crude Oil	203B	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1) and (8) - Group 1 – Slotted and Solid	203C	8-5-304 EFR	NSPS Kb, MACT EEEE EFR Overlap 63.2396(a)(1)	Applications 32029/32030
S872	Tank A-872	Low sulfur vacuum gas oil	Low sulfur vacuum gas oil	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102B	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, Non-MACT (Content)	Applications 32029/32030
S873	Tank A-895, Fixed Roof Tank for Fuel Oil	Fuel Oil	Renewable Feedstock	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769
S896	Tank A-896	Slop oil	Slop oil	203C	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1), BWON 61 Subpart FF	203D	8-5-304 EFR	NSPS Kb, MACT EEEE EFR Overlap 63.2396(a)(1), BWON 61 Subpart FF	Applications 32029/32030

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Changes to Table IV - F.3										
Device	Equipment	Current Stored Liquid	Future Stored Liquid	Current Applicability in Table F.2 of Existing Operating Permit			Future Applicable Regulations As Noted in Operating Permit Redline of Table F.2			Reason
S990	Rich DEA Tank, Tank 749, Green, Abated by A-1526 packed bed scrubber and A-1525 SRU Stack Incinerators	DEA	DEA	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	Shutdown			n/a
S1418	Rich DEA Tank A-750, Abated by A-1418 Packed Bed Scrubber and Abated by A-1525 SRU Stack Incinerators	DEA	DEA	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	Shutdown			n/a
S1421	Sour Water Feed Tank A-757 Ammonia Recovery Unit Feed Tank	Sour Water	Sour Water	202	8-5-304 EFR	NSPS Ka, MACT Overlap 63.640(n)(5) - Group 1	Shutdown			n/a
S1461	Tank A-866	Crude Oil	Crude Oil	203B	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1) and (8) - Group 1 – Slotted and Solid	203C	8-5-304 EFR	NSPS Kb, MACT EEEE EFR Overlap 63.2396(a)(1)	Applications 32029/32030
S1463	Tank 867; New 240,000 BBL Tank in Tract 4	Crude, Gas Oil (SJV/Cat Feed/Cutter Tank)	Renewable Feedstock	203A	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1) and (8) - Group 1 – Slotted	102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769
S1464	Tank 868; New 100,000 BBL Tank in Tract 6	Diesel Blend stock (Diesel, JetA, Kerosene)	Renewable Diesel	203A	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1) and (8) - Group 1 – Slotted	201	8-5-304 EFR	NSPS Kb, MACT FFFF Exempt EFR	Applications 30768/30769
S1465	Tank 869; New 100,000 BBL Tank in Tract 6 (Tank A-869)	Diesel Blend stock (Diesel, JetA, Kerosene)	Renewable Diesel	203A	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1) and (8) - Group 1 – Slotted	201	8-5-304 EFR	NSPS Kb, MACT FFFF Exempt EFR	Applications 30768/30769
S1468	Tank A-877 - Spent Caustic Service	Spent Caustic	Spent Caustic	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769
S1473	Storage Tank, Ethyl Mercaptan Odorant	Ethyl Mercaptan	Ethyl Mercaptan	501	8-5-307 Pressure Tank	MACT CC Exempt (Pressure Tanks)	502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	Applications 30768/30769
S1485	Tank A-870	Gasoline	Gasoline	302A	8-5-305 IFR	Welded, NSPS Kb, MACT Overlap 63.640(n)(1), (3), and (8) - Group 1	303B	8-5-305 IFR	NSPS Kb, MACT R IFR Overlap 63.420(g)	Applications 32029/32030
S1496	Fixed Roof Tank A-876	Hvy Naphtha (Heavy Reformate, Heavy Naphtha, PID Straight Run Naphtha)	Wastewater EQ Tank	401C	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (Abated by Vapor Recovery System)	Shutdown			n/a
S1489	Fixed Volume Portable Tank #1, White, Slop Oil and Water Mixture, Abated by A-1001 Activated Carbon, Abated by A-1002 Activated Carbon	Slop Oil and Water Mixture	Slop Oil and Water Mixture	404	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (not related to process units), Abated by Carbon. Can be used in BWON 61 Subpart FF service.	402	8-5-306 Fixed Roof	Non-NSPS, Abated by Carbon. Can be used in BWON 61 Subpart FF service.	Applications 32029/32030

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Changes to Table IV - F.3										
Device	Equipment	Current Stored Liquid	Future Stored Liquid	Current Applicability in Table F.2 of Existing Operating Permit			Future Applicable Regulations As Noted in Operating Permit Redline of Table F.2			Reason
S1490	Fixed Volume Portable Tank #2, White, Slop Oil and Water Mixture, Abated by A-1001 Activated Carbon, Abated by A-1002 Activated Carbon	Slop Oil and Water Mixture	Slop Oil and Water Mixture	404	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (not related to process units), Abated by Carbon. Can be used in BWON 61 Subpart FF service.	402	8-5-306 Fixed Roof	Non-NSPS, Abated by Carbon. Can be used in BWON 61 Subpart FF service.	Applications 32029/32030
S1491	Fixed Volume Portable Tank #3, White, Slop Oil and Water Mixture, Abated by A-1001 Activated Carbon, Abated by A-1002 Activated Carbon	Slop Oil and Water Mixture	Slop Oil and Water Mixture	404	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (not related to process units), Abated by Carbon. Can be used in BWON 61 Subpart FF service.	402	8-5-306 Fixed Roof	Non-NSPS, Abated by Carbon. Can be used in BWON 61 Subpart FF service.	Applications 32029/32030
S1505	Tank A-777	Red dye for diesel	Red dye for diesel	101C	8-5 Exempt	8-5 Exempt (Size), MACT Exempt (Size)	101A	8-5 Exempt	8-5 Exempt (Size), MACT EEEE	Applications 32029/32030
S1506	Tank A-893	Gasoline	Gasoline	302A	8-5-304 EFR	Welded, NSPS Kb, MACT Overlap 63.640(n)(1), (3), and (8) - Group 1	204C	8-5-304 EFR	NSPS Kb, MACT R EFR Overlap 63.420(g)	Applications 32029/32030
S1507	Tank A-894	Gasoline	Gasoline	302A	8-5-304 EFR	Welded, NSPS Kb, MACT Overlap 63.640(n)(1), (3), and (8) - Group 1	204C	8-5-304 EFR	NSPS Kb, MACT R EFR Overlap 63.420(g)	Applications 32029/32030
S1521	Tank A-904	Gasoline	Gasoline	302A	8-5-304 EFR	Welded, NSPS Kb, MACT Overlap 63.640(n)(1), (3), and (8) - Group 1	204C	8-5-304 EFR	NSPS Kb, MACT R EFR Overlap 63.420(g)	Applications 32029/32030
S1549	Tank 890	Diesel Additive	Diesel Additive	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102D	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, MACT EEEE (No control required)	Applications 32029/32030
S1554	Tank A-943	HVGO	Renewable Feedstock	401C	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (Abated by Vapor Recovery System)	102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769
S1564	Tank A-938 Avon Wharf Recovered Oil Tank, Berth 1A	Recovered Oil	Recovered Oil	402A	8-5-302 Fixed Roof	MACT and NSPS Kb Exempt (size), BWON 61 Subpart FF (Uncontrolled wastestream), Submerged Fill - Top Fill and Pressure Vacuum Vent	403C	8-5-306 Fixed Roof	Non-NSPS, MACT FFFF Group 2 Storage Tank, BWON 61 Subpart FF	Applications 30768/30769
S1567	Avon Berth 1A East Diesel Tank	Diesel	Diesel	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102B	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, Non-MACT (Content)	Applications 32029/32030
S1568	Avon Berth 1A West Diesel Tank	Diesel	Diesel	101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	102B	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, Non-MACT (Content)	Applications 32029/32030
S1601	Aqueous Ammonia Tank T-895; 300 barrels	N/A - New Storage Tank	Aqueous Ammonia	N/A - New Storage Tank			101B	8-5 Exempt	8-5 Exempt (Content), MACT FFFF Exempt (Content)	Applications 31915/30769
S2002	Tank TK-1048, Antifoam Tank	N/A - New Storage Tank	Antifoam	N/A - New Storage Tank			101B	8-5 Exempt	8-5 Exempt (Content), MACT FFFF Exempt (Content)	Applications 30768/30769
S2004	Tank TK-845, Sodium Hypochlorite Tank	Sodium Hypochlorite	Sodium Hypochlorite	Not previously listed in permit.			101B	8-5 Exempt	8-5 Exempt (Content), MACT FFFF Exempt (Content)	Applications 30768/30769

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Changes to Table IV - F.3										
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S2005	Tank MTK-10162, Demulsifier Tank	N/A - New Storage Tank	Demulsifier	N/A - New Storage Tank			102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769
S2006	Tank TK-958, FRT, Fresh Caustic Storage Tank	N/A - New Storage Tank	Fresh Caustic	N/A - New Storage Tank			101B	8-5 Exempt	8-5 Exempt (Content), MACT FFFF Exempt (Content)	Applications 30768/30769
S2007	Tank A-905, FRT, R99 Renewable Diesel Storage Tank	Diesel	R99 Renewable Diesel	Not previously listed in permit.			102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769
S2008	Tank A-933, FRT, R99 Renewable Diesel Storage Tank	Diesel	R99 Renewable Diesel	Not previously listed in permit.			102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769
S2011	Tank A-981, FRT, Fossil Diesel Storage Tank	Cetane	Fossil Diesel	Not previously listed in permit.			102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769
S2012	Tank A-961, FRT, Fossil Diesel Storage Tank	Cetane	Fossil Diesel	Not previously listed in permit.			102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769
S2013	Tank A-432, Open-Top, Moving Bed Biofilm Reactor (formerly S-432)	Ethyl Alcohol, Distillate Oil, Gasoline, Naphtha (PID Sour Cracked Naphtha)	Wastewater service (MBBR)	401A	8-5-306 Fixed Roof	Non Ka/Kb, MACT Exempt (Abated by Vapor Recovery System)	N/A - no longer a storage vessel		Applications 30768/30769	
S2014	Sodium Sulfide Tank No. 1	N/A - New Storage Tank	Sodium Sulfide	N/A - New Storage Tank			101B	8-5 Exempt	8-5 Exempt (Content), MACT FFFF Exempt (Content)	Applications 30768/30769
S2015	Sodium Sulfide Tank No. 2	N/A - New Storage Tank	Sodium Sulfide	N/A - New Storage Tank			101B	8-5 Exempt	8-5 Exempt (Content), MACT FFFF Exempt (Content)	Applications 30768/30769
S2016	Neutralization Tank T-796	Wastewater	Wastewater	Not previously listed in permit.			102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769
S2017	Neutralization Tank T-797	Wastewater	Wastewater	Not previously listed in permit.			102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769
S2018	Tank TK-1036 Sulfuric Acid Tank	N/A - New Storage Tank	Sulfuric Acid	N/A - New Storage Tank			101B	8-5 Exempt	8-5 Exempt (Content), MACT FFFF Exempt (Content)	Applications 30768/30769
S2019	Tank TK-10193, Coagulant Tank	N/A - New Storage Tank	Coagulant	N/A - New Storage Tank			101B	8-5 Exempt	8-5 Exempt (Content), MACT FFFF Exempt (Content)	Applications 30768/30769
S2022	Urea Storage Tank (122-NTK-0122)	N/A - New Storage Tank	Urea	N/A - New Storage Tank			101B	8-5 Exempt	8-5 Exempt (Content), MACT FFFF Exempt (Content)	Applications 30768/30769
S2023	Primary DAF Polymer Tank (122-NTK-0123)	N/A - New Storage Tank	DAF Polymer	N/A - New Storage Tank			102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769
S2024	Tank TK-1035, Phosphoric Acid Tank	N/A - New Storage Tank	Phosphoric Acid	N/A - New Storage Tank			101B	8-5 Exempt	8-5 Exempt (Content), MACT FFFF Exempt (Content)	Applications 30768/30769
S2026	Weak Acid Tank No. 1 (NV-406)	N/A - New Storage Tank	Weak Acid	N/A - New Storage Tank			101B	8-5 Exempt	8-5 Exempt (Content), MACT FFFF Exempt (Content)	Applications 30768/30769

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Changes to Table IV - F.3								
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S2028	Tank A-932, FRT, R99 Renewable Diesel Storage Tank	Diesel	Renewable Diesel	Not previously listed in permit.	102A	8-5-117 Limited Exempt (Low Vapor Pressure)	8-5-117 Limited Exempt (Low Vapor Pressure), MACT FFFF Exempt (Content)	Applications 30768/30769

V. Schedule of Compliance

A schedule of compliance is required in all Title V permits pursuant to BAAQMD Regulation 2-6-409.10 which provides that a major facility review permit shall contain the following information and provisions:

“409.10A schedule of compliance containing the following elements:

- 10.1 A statement that the facility shall continue to comply with all applicable requirements with which it is currently in compliance;
- 10.2 A statement that the facility shall meet all applicable requirements on a timely basis as requirements become effective during the permit term; and
- 10.3 If the facility is out of compliance with an applicable requirement at the time of issuance, revision, or reopening, the schedule of compliance shall contain a plan by which the facility will achieve compliance. The plan shall contain deadlines for each item in the plan. The schedule of compliance shall also contain a requirement for submission of progress reports by the facility at least every six months. The progress reports shall contain the dates by which each item in the plan was achieved and an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.”

The responsible official for Tesoro Refining & Marketing Company LLC submitted a signed Certification Statement form dated June 13, 2023. On this form, the responsible official certified that the following statements are true:

Based on information and belief formed after reasonable inquiry, the source(s) identified in the Applicable Requirements and Compliance Summary form that is(are) in compliance will continue to comply with the applicable requirement(s);

Based on information and belief formed after reasonable inquiry, the source(s) identified in the Applicable Requirements and Compliance Summary form will comply with future-effective applicable requirement(s), on a timely basis;

Based on information and belief formed after reasonable inquiry, information on application forms, all accompanying reports, and other required certifications is true, accurate, and complete;

All fees required by Regulation 3, including Schedule P have been paid.

Regulation 2-6-426.2 requires that a new Certification Statement be submitted on every anniversary of the application date until the permit has been issued.

Changes to permit:

There were no changes to this section.

VI. Permit Conditions

During the Title V permit development, the Air District has reviewed the existing permit conditions, deleted the obsolete conditions, and, as appropriate, revised the conditions for clarity and enforceability. Each permit condition is identified with a unique numerical identifier, up to five digits.

When necessary to meet Title V requirements, additional monitoring, recordkeeping, or reporting requirements have been added to the permit.

All changes to existing permit conditions are clearly shown in “strike-out/underline” format in the proposed permit. When the permit is issued, all “strike-out” language will be deleted and all “underline” language will be retained, subject to consideration of comments received.

The existing permit conditions are derived from previously issued District Authorities to Construct (A/C) or Permits to Operate (P/O). Permit conditions may also be imposed or revised as part of the annual review of the facility by the Air District pursuant to California Health and Safety Code (H&SC) § 42301(e), through a variance pursuant to H&SC § 42350 et seq., an order of abatement pursuant to H&SC § 42450 et seq., or as an administrative revision initiated by District staff. After issuance of the Title V permit, permit conditions will be revised using the procedures in Regulation 2, Rule 6, Major Facility Review.

The Air District has reviewed and, where appropriate, revised or added new annual and daily throughput limits on sources to help ensure compliance with Air District rules addressing preconstruction review. The applicability of preconstruction review depends on whether a source has been “modified” as defined in District Rule 2-1-234. Whether there is a modified source depends in part on whether there has been an “increase” in the “potential to emit” of a source. Regulation 2-1-234 defines what is considered an increase in the potential to emit of a source.

Sources that were modified or constructed since the Air District began issuing new source review permits will have permits that contain throughput limits, and these limits are reflected in the Title V permit. These limits have previously undergone Air District review, and are the legally binding “potential to emit” of the source for the purposes of Regulation 2-1-234.1.1. By contrast, for older sources that have never been through preconstruction review (commonly referred to as “grandfathered” sources), an “increase” in “potential to emit” is addressed in Regulation 2-1-234.1.2. A grandfathered source is not subject to preconstruction review unless it undergoes a change that results in an increase in its potential to emit as defined in Regulation 2-1-234.1.2. The emissions increase shall be calculated as the difference between: (i) the source’s potential to emit after the change; and (ii) the source’s adjusted baseline emissions before the change, calculated in accordance with Section 2-2-603. However, if the throughput capacity of a grandfathered source is limited by upstream or downstream equipment (i.e., is “bottlenecked”) or for any source that cannot physically operate to the full extent of the source’s potential to emit, then the relaxing of that limitation (“debottlenecking”) is considered a modification as described in Regulation 2-1-234.1.2. In the case of a source that has undergone New Source Review and is subject to a limit on its potential to emit that it cannot physically attain, then any physical change, change in method of operation, change in throughput or production, or other similar change at the source that allows it to increase its potential to emit beyond this physical limit is also considered a modification.

The Air District has added throughput limits to the Title V permit for grandfathered sources. As discussed above, these limits were added so that the Air District could determine whether an increase in

emission levels has occurred. The purpose of these limits is to facilitate implementation of the Air District's preconstruction review program. If these limits are exceeded, the facility would be expected to report the exceedance, and the Air District would treat the reported exceedance as presumptively establishing the occurrence of a modification. The facility would then be expected to apply for a preconstruction permit addressing the modification and the Air District would consider whether an enforcement action was appropriate.

It is important to note the presumptive nature of throughput limits for grandfathered sources that are created in the Title V permit. These limits are generally based upon the Air District's review of information provided by the facility regarding the design capacity or highest documented capacity of the grandfathered source. To verify whether these limits reflect the true design, documented, or "bottlenecked" capacity (pursuant to Regulation 2-1-234.1.2) of each source is beyond the resource abilities of the Air District in this Title V process. Moreover, the Air District cannot be completely confident that the facility has had time or resources necessary to provide the most accurate information available in this regard. Creating throughput limits in the Title V permit for grandfathered sources is not required by either Part 70 or the Air District's Major Facility Review rules. Despite the lack of such a requirement, and despite the resource and information challenges presented in the Title V process, the Air District believes that writing presumptive limits for grandfathered sources into the Title V permit will provide a measure of predictability regarding the future applicability of the preconstruction review program, and that this increased predictability is universally beneficial.

There are some cases where the stated throughput limit of a grandfathered source has been determined to be incorrect. For each of these cases, Appendix A of this Statement of Basis is reserved for justifications of any grandfathered throughput limit changes.

It follows from the presumptive nature of these throughput limits for grandfathered sources that exceedance of these limits is not per se a violation of the permit. *Failure to report an exceedance would be a permit violation.* In this sense, the throughput limits function as monitoring levels, and are imposed pursuant to the Air District's authority to require monitoring that provides a reasonable assurance of compliance. If an exceedance occurs, the facility would have an opportunity to demonstrate that the throughput limit in fact did not reflect the appropriate limit for purposes of Regulation 2-1-234.1.2. If the facility can demonstrate this, no enforcement action would follow, and the permit would be revised at the next opportunity. It also follows that compliance with these limits is not a "safe harbor" for the facility. If evidence clearly shows that a source has undergone a "modification" as defined in 2-1-234.1.2, the Air District would consider that a preconstruction review-triggering event, notwithstanding compliance with the throughput limit in the Title V permit. In other words, the protection afforded the facility by complying with the throughput limit in the Title V permit is only as strong as the information on which it was based. There is no Title V "permit shield" associated with throughput limits for grandfathered sources, as they are being proposed. A shield may be provided if the District determines with certainty that a particular limit is appropriate with respect to Regulation 2-1-234.1.2.

Conditions that are obsolete or that have no regulatory basis have been deleted from the permit.

The regulatory basis is listed following each condition. The regulatory basis may be a rule or regulation. The Air District is also using the following terms for regulatory basis:

- BACT: This term is used for a condition imposed by the Air Pollution Control Officer (APCO) to ensure compliance with the Best Available Control Technology (BACT) in Regulation 2-2-301.

- **Cumulative Increase:** This term is used for a condition imposed by the APCO that limits a source’s operation to the operation described in the permit application pursuant to BAAQMD Regulation 2-1-403.
- **Offsets:** This term is used for a condition imposed by the APCO to ensure compliance with the use of offsets for the permitting of a source or with the banking of emissions from a source pursuant to Regulation 2, Rules 2 and 4.
- **PSD:** This term is used for a condition imposed by the APCO to ensure compliance with a Prevention of Significant Deterioration permit issued pursuant to Regulation 2, Rule 2.
- **TRMP or Toxics:** This term is used for a condition imposed by the APCO to ensure compliance with limits that arise from the Air District’s Toxic Risk Management Policy (TRMP).

Changes to permit:

The following changes have been made to the permit:

Changes to Section VI – Permit Conditions			
Item	Condition	Change	Reason
1	267	Revised Part B2 to include SO2 mass emission rate and added Parts 6-9.	Application 30729 superseded by Applications 30768/30769
2	267	Deleted Condition for S1401 and S1405	Shutdown via Applications 30768/30769
3	878	Deleted Condition for S100	Applications 27990/27991
4	5711	Deleted Condition for S795	Shutdown via Applications 30768/30769
5	7397	Deleted Condition for S901	Shutdown via Applications 30768/30769
6	7405	Deleted Condition for S590	Shutdown via Applications 30768/30769
7	7410	Deleted Condition for S606 and S607	Shutdown via Applications 30768/30769
8	8077 Source List	Removed S1421.	Correction. S1421 was permitted in 1995 NSR Application 11395. Emission increases were fully offset separate from the refinery emissions cap.
9	8077 Source List	Removed S963	Applications 28445/28446
10	8077 Source List	Removed S851, S856, S901, S904, S908, S909, S912, S913, S915, S916, S917, S921, S922, S927, S950, S951, S955, S956, S957, S958, S959, S960, S971, S972, S974, S1009, and S1401	Shutdown via Applications 30768/30769
11	8077-A2A	Increased startup and shutdown durations and emissions for S973 and S974	Applications 27309/27310

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Item	Condition	Change	Reason
12	8077-A2A	Revised limits in part A2.A to accommodate the shutdown of S-974 and revision of applicability to S-973.	Applications 30768/30769
13	8077-B2A and B2B	Reduced emission limits to reflect Regulation 9, Rule 10 reductions and for the removal of S963	Applications 28445/28446
14	8077	Updated Parts A10, A13 and A14 to clarify that these completed conditions are deleted.	Applications 29278/29274
15	8077	Deleted Part A17 since Authority to Construct was executed and Permit to Operate was granted.	Applications 29278/29274
16	8077	Deleted Parts B3A.ii and B3B.iii as the facility no longer processes crude oil.	Applications 30768/30769
17	8077	Deleted Part B3.E	Part of 12/19/2012 amendment to Regulation 2, Rule 2. Trading POC for NOx is no allowed.
18	8077	Revised Parts B4A, B4B, and B4C.	Applications 30768/30769
19	8077	Deleted Parts B6A.	Applications 30768/30769
20	8077	Deleted Part B6B.	Applications 29278/29274
21	8077	Deleted Part B6C and referenced Permit Condition #27584 for new processing rates and recordkeeping requirements.	Applications 30768/30769
22	8077	Revised Parts B7A for sources removed from service.	Applications 30768/30769
23	8077	Revised the group limit of Part B7B to the original limit of 159MM Btu/hr.	Applications 29278/29274
24	8077	Revised Parts B7B for sources removed from service and update firing limit.	Applications 30768/30769
25	8077	Deleted Part B7C and reference to it in B4C.	Applications 29278/29274
26	8077	Deleted S919 in Part B7D since a NOx CEM was installed.	Applications 29278/29274
27	8077	Deleted Parts B7D as limits are references in Part B7A.	Applications 30768/30769
28	8077	Deleted completed Parts B8B, B12A and B12B.	Applications 29278/29274
29	8077	Revised Part B8C for source removed from service.	Applications 32029/32030
30	8077	Deleted Part B9Bii.	Applications 29278/29274
31	8077	Deleted Part B12I.	Applications 29278/29274
32	8077	Revised Part B9A to include SO2 mass emission rate.	Application 30729 superseded by Applications 30768/30769
33	8077	Deleted Parts B8D, B9A, B9B, B9C	Applications 30768/30769

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Item	Condition	Change	Reason
34	8077	Deleted Parts C1, C3 and referenced Permit Condition #27584 for new processing rates and recordkeeping requirements.	Applications 30768/30769
35	8350	Deleted Parts A5, A6, B7, and C1 through C5 due to sources removed from service.	Applications 30768/30769
36	8350	Deleted A1, A4, B1, and B4, as S1002 and S1003 no longer operate as HDS units.	Applications 30768/30769
37	8535	Deleted Condition for S1404 and A1422.	Shutdown via Applications 30768/30769
38	10696	Removed S815, S816, and S817 due to the shutdown of these sources	Applications 30768/30769
39	10696	Removed S529 and S530 as sources were previously demolished.	Administrative
40	10696-1	Removed the term “refinery”	Applications 30768/30769
41	10696	Added Parts 5 and 6 for highest actual consecutive 24-hour and 12-month throughputs for S-656 and S-658.	Applications 30768/30769
42	10984	Revised Parts 1 through 3.	Applications 26602/27668
43	11433	Revised Introduction, Parts 7, 8, 9, 10 and 12; updated the bases for Parts 11, 13, 14 and 16; Deleted Part 15 and added Part 17.	Applications 28073/28104 superseded by Applications 30768/30769
44	11433	Deleted Condition for S802 and S901	Shutdown via Applications 30768/30769
45	11609	Deleted Parts B1 through B6A due to the shutdown of S1009	Applications 30768/30769
46	11609	Revised Part E to indicate pumps are associated with S-554 and S-695.	Applications 30768/30769
47	12016	Added sources applicable to this condition	Applications 30768/30769
48	13282	Deleted Condition for S1421	Removed from service 4-4-2023
49	13509	Deleted Condition for S955 through S960	Shutdown via Applications 30768/30769
50	13605	Revised Part 4 to allow 60 days for source test report submittal.	Applications 29278/29274
51	13605	Revised Parts 4 and 5 to update fuel gas users for vapor recovery	Applications 30768/30769
52	16516	Revised condition.	Updated to current language of this standard GDF condition.
53	16685	Revised Basis for Part 1.	Updated to be consistent with the Permit to Operate condition

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Changes to Section VI – Permit Conditions			
Item	Condition	Change	Reason
54	16685	Revised Part 1 due to the shutdown of S-908, S-909, S-912, S-913, S-915, S-916, S-917, S-921, S-927, S-950, S-951, S-971, S-972, and S-974	Applications 30768/30769
55	17322	Revised Part 1 firing rate for S-904	Applications 27054/27065 superseded by Applications 30768/30769
56	17322	Deleted Condition for S904, S916, and S921.	Shutdown via Applications 30768/30769
57	17477	Deleted Parts C1, C2, C5, AND C6, and added Part C7 for S1463	Applications 30768/30769
58	17477	Revised Parts D1, D4, D5, E1, E4, E5 for S1464 and S1465.	Applications 30768/30769
59	17837	Deleted Condition for S817	Shutdown via Applications 30768/30769
60	18372	Revised Parts 2, 3, 27, 31 and Deleted Parts 18, 19, 20, 22, due to the shutdown of sources	Applications 30768/30769
61	18372	Revised Parts 2, 3, and 27 due to the shutdown of S-922.	Applications 30806/30808
62	18372	Corrected S-926 firing rate in Part 3.	Applications 30806/30808
63	18372	Revised Part 27 to reflect new NOx CEMs.	Applications 29278/29274 Applications 30806/30808
64	18372	Deleted Parts 29, 30, 31B, 31C, 31D and 32; Revised Part 33.	Superseded by the October 16, 2013 amendment of Regulation 9, Rule 10, Section 502.1.2.
65	18372	Deleted NOx Box specifications in Part 31 for sources with new NOx CEMs	Applications 29278/29274
66	18372	Deleted (Revised NOx Box Part 31A for S-920)	Applications 26422/26423 superseded by Applications 29278/29274
67	18372	Revised Parts 27, 34, and 36, deleted Parts 31, 31A, 32, and 33, and added Parts 27a, 37, 38, and 39 for the approval of the Alternate NOx Compliance Plan.	Applications 30806/30808
68	18539	Revised Part 17B to allow 60 days for source test report submittal.	Applications 29278/29274 superseded by Applications 30768/30769
69	18539	Deleted Condition for S908 and S1470	Shutdown via Applications 30768/30769
70	18947	Deleted Condition for S-1475 and S-1476 Emergency Diesel Firewater Pumps.	Tesoro advised S-1475 and S-1476 removed from site in letter dated 3/3/2017.
71	19199	Revised Parts H12 and H13 to allow 60 days for source test report submittal.	Applications 29278/29274

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Item	Condition	Change	Reason
72	19199	Deleted Parts C5, D1 through D8, G0, G5, G9 due to the shutdown of S-802 and S-975	Applications 30768/30769
73	19199	Revised Parts 4, 7, 7A, 8, 8A, 15 and deleted Parts 9, 9A, 10, 10A, 13, 15, 20 due to the shutdown of sources	Applications 30768/30769
74	19199	Administratively removed Part 14 for S-810 and S-821, which were previously shutdown.	Applications 30768/30769
75	19528	Deleted Part 14a for A-9	Applications 27030/27031
76	19528	Revised Part 21 for S963 steam injection rate and averaging period	Applications 27791/27792 superseded by Applications 28445/28446
77	19528	Deleted Parts 19, 21, 22 and 23 for S963	Applications 28445/28446
78	19762	Deleted Parts B1, B3, B4, due to the shutdown of S-1484	Applications 30768/30769
79	20099	Revised Part 5 to allow 60 days for source test report submittal.	Applications 29278/29274
80	20099	Revised Parts 4 and 6 to updated fuel gas users for vapor recovery system. Administratively deleted Part 5.	Applications 32029/32030
81	20923	Revised Parts 1 through 4.	Applications 26602/27668
82	21053	Revised Parts 3 and 7 to allow 60 days for source test report submittal.	Applications 29278/29274
83	21053	Deleted Part 2 due to the shutdown of S1401, S1404, and S1411	Applications 30768/30769
84	21053	Removed S-432 from Part 6 as S-432 is repurposed to function as a moving bed biofilm reactor	Applications 30768/30769
85	21053	Updated fuel gas users in Parts 6 and 7.	Applications 30768/30769
86	21053	Removed S-323 from this permit condition as conditions refer to Permit Condition 13605.	Applications 30768/30769
87	21053	Revised Part 7 due to the shutdown of S-908, S-909, and S-912.	Applications 30768/30769
88	21053	Removed S318, S367, and S513 from Part 6	Administrative
89	21100	Revised Part 4 to allow 60 days for source test report submittal.	Applications 29278/29274 superseded by Applications 30768/30769
89	21100	Deleted Condition for S-1496, which is converted to a wastewater tank. New source number, S-2010, has been assigned.	Applications 30768/30769
90	21186	Deleted Condition for S916 and S917	Shutdown via Applications 30768/30769
91	[Intentionally left blank]	[Intentionally left blank]	[Intentionally left blank]

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Item	Condition	Change	Reason
92	21849	Revised emission limit to 0.04 lb POC per 1000 gallon of material loaded per Regulation 8-33-301 and added A-1584 to source test requirement.	Applications 31305/32023
93	21849	Revised Parts 10 and 11 for storage material and fuel gas users, respectively.	Applications 30768/30769
94	22070	Revised Condition 22070-1 for S-1005 source testing every two years	Applications 23138/23139
95	22070	Revised Condition to allow 60 days for source test report submittal.	Applications 29278/29274
96	22150	Revised Part 2 to allow 60 days for source test report submittal.	Applications 29278/29274 superseded by Applications 30768/30769
97	22150	Deleted Condition for S901 and A30	Shutdown via Applications 30768/30769
98	22455	Revised Parts 8-12 and added Parts 13-16 for changing the method of operation from unloading crude oil to loading renewable diesel	Applications 30768/30769
99	22590	Revise S904 firing rate	Applications 27054/27065 superseded by Applications 30768/30769
100	22590	Deleted Condition for S904	Shutdown via Applications 30768/30769
101	22621	Deleted Condition for S913	Shutdown via Applications 30768/30769
102	22693	Deleted Condition for S1009	Shutdown via Applications 30768/30769
103	22850	Added Condition for S1599	Applications 30827/32023
104	22851	Removed S1469, S1475 and S1476	Tesoro advised sources removed from site in letter dated 3/3/2017.
105	23129	Revised Part 53 for S-1517	Applications 27030/27031
106	23129	Added Parts 59 through 70 for S-1517	Applications 29416/29417
107	23129	Revised Part 26 to allow 60 days for source test report submittal.	Applications 29278/29274
108	23129	Deleted Parts 1 through 3, 6 through 9, 29 through 49, and revised Parts 5 and 59 due to the shutdown of S1510, S1513, S1514, S1515, and S1516	Applications 30768/30769
109	23129	Removed the term “refinery” from “refinery fuel gas” as refinery fuel gas is referred to petroleum refinery fuel gas.	Applications 30768/30769
110	23486	Deleted Condition for S1508 and S1509	Applications 27990/27991

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Changes to Section VI – Permit Conditions			
Item	Condition	Change	Reason
111	23562	Removed sources S902, S904, S913, S915, S916, S921, S927, S950, S1412, S908, S909, and S912	Shutdown via Applications 30768/30769
112	23811	Added S1561	Applications 27990/27991
113	23811	Added S1572	Applications 28553/28549
114	23811	Removed S1518, S1519 and S-57 (Plant #14629)	Replaced with Condition 22851
115	24171	Updated Air District address	Administrative
116	24323	Deleted Condition for S1001, S1524, and S1524	Shutdown via Applications 30768/30769
117	24324	Revised term “refinery” to “facility” in Part 4 as the facility is no longer classified as a refinery.	Applications 30768/30769
118	24491	Added S1558 and S1559, deleted Parts 2 and 11d, and revised Parts 1, 4 through 11	Applications 27395/27396
119	24649	Added Part 1a and revised Part 2 to allow flexibility consistent with the standard storage tank conditions in the Permit Handbook.	Applications 29278/29274
120	24649	Added Part 1a.c.	Applications 32029/32030
121	24834	Deleted Condition for S1020	Shutdown via Applications 30768/30769
122	25025	Deleted Parts 1, 2, 3, and 7 for S-1554, which is exempt from permitting	Applications 30768/30769
123	25161	Deleted Condition for S909, S912, and S950	Shutdown via Applications 30768/30769
124	25476	Added Parts 30 through 41 and later deleted Parts 30 through 41 due to Authority to Construct cancelled October 2019.	Applications 27799/27800
125	25476	Revised Parts 25, 27, and 29 to reflect new source test ports added to allow independent source tests.	Applications 29278/29274 superseded by Applications 30768/30769
126	25476	Revised Part 2 and deleted Parts 1, 3-5, 7-13, 15-21, 23-29 for S-908, S-971, S-972, S-1004, S-1020, A-1433	Shutdown via Applications 30768/30769
127	25798	Removed Source S974	Shutdown via Applications 30768/30769
128	26033	Added Condition for S1025	Applications 26198/26199
129	26266	Added Condition for S1411	Applications 27564/27565 superseded by Applications 30768/30769
130	26266	Deleted Condition for S1411	Shutdown via Applications 30768/30769
131	26406	Added Condition for S1560	Applications 27990/27991
132	26406	Revised Parts 4 and 6 to update loading material	Applications 30768/30769

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Changes to Section VI – Permit Conditions			
Item	Condition	Change	Reason
133	26407	Added Condition for S1562, S1563	Applications 27990/27991
134	26407	Deleted Condition for S1562, S1563	Replaced with Condition 22851
135	26408	Added Condition for S1564	Applications 27990/27991
136	26791	Added Condition for S854, S944, S945, S992, S1012, S1517, and S1524	Applications 29058/29059
137	26791	Removed S1524	Shutdown via Applications 30768/30769
138	26910	Added Condition	Applications 26602/27668
139	27082	Added and removed Condition for S709, S802, and S1584	Applications 29401/29440 Authority to Construct expired in 2021 and project was never implemented
140	27543	Added Condition for S126, S127, S134, S137, S323, S327, S432, S532, S603, S613, S656, S658, S699, S714, S819, S1025, S1484, S1496, S1554, S1560	Applications 31305/32023
141	27543	Removed S432, S1496, and S1554 as sources are no longer connected to vapor recovery. Removed S1484 due to shutdown. Updated fuel gas users in Part 1 due to the shutdown of S908, S909, and S912.	Applications 30768/30769
142	27543	Removed S327	Removed from service October 14, 2022
143	27583	Added Condition for Renewable Fuels Project	Applications 30768/30769
144	27583	Removed S646 and S647 from Part 1	Applications 31991/30769
145	27583	Removed S57, S631, S990, S1421 from Part 1 due to sources removed from service	Applications 32029/32030
146	27584	Added Condition for S850, S1002, S1003, S1007, S1008, S2025	Applications 30768/30769
147	27585	Added Condition for S1526	Applications 30768/30769
148	27586	Added Condition for S1600	Applications 30768/30769
149	27587	Added Condition for S115, S601, S650, S692, S699, S700, S819, S830, S831, S842, S846, S976, S978, S980, S985	Applications 30768/30769
150	27591	Added Condition for A2000 and S1600	Applications 30768/30769
151	27592	Added Condition for A2001 and S1526	Applications 30768/30769
152	27593	Added Condition for A2002 and S1600	Applications 30768/30769
153	27596	Added Condition for S850, S1003, S1007, S1008, S1526, S1600, S2001, S2025	Applications 30768/30769
154	27597	Added Condition for S621	Applications 30768/30769
155	27598	Added Condition for S2023	Applications 30768/30769
156	27603	Added Condition for S651	Applications 30768/30769

Changes to Section VI – Permit Conditions			
Item	Condition	Change	Reason
157	27604	Added Condition for S919, S920, S928, S929, S930, S931, S932, S933, S934, S937, S973, S1511, S1512	Applications 30768/30769
158	27610	Added Condition for S2001, S2003, S2010, S2013	Applications 30768/30769
159	17071, 24010, 21971, 22448, 24238	Added Conditions for Contractor Equipment	Consistent with equipment listed in Table II-D.
160	24238	Deleted Conditions for Plant #16338, S9, S39, S40, S41	On May 10, 2021, Tesoro notified the Air District that these contractor equipment have been removed from the Refinery.

VII. Applicable Limits and Compliance Requirements

This section of the permit is a summary of numerical limits and related monitoring requirements for each source. The summary includes a citation for each monitoring requirement, frequency of monitoring, and type of monitoring. The applicable requirements for monitoring are completely contained in Sections IV, Source-Specific Applicable Requirements, and VI, Permit Conditions, of the permit.

Monitoring decisions are typically the result of a balancing of several different factors including: 1) the likelihood of a violation given the characteristics of normal operation, 2) degree of variability in the operation and in the control device, if there is one, 3) the potential severity of impact of an undetected violation, 4) the technical feasibility and probative value of indicator monitoring, 5) the economic feasibility of indicator monitoring, and 6) whether there is some other factor, such as a different regulatory restriction applicable to the same operation, that also provides some assurance of compliance with the limit in question.

These factors are the same as those historically applied by the Air District in developing monitoring for applicable requirements. It follows that, although Title V calls for a re-examination of all monitoring, there is a presumption that these factors have been appropriately balanced and incorporated in the Air District’s prior rule development and/or permit issuance. It is possible that, where a rule or permit requirement has historically had no monitoring associated with it, no monitoring may still be appropriate in the Title V permit if, for instance, there is little likelihood of a violation. Compliance behavior and associated costs of compliance are determined in part by the frequency and nature of associated monitoring requirements. As a result, the Air District will generally revise the nature or frequency of monitoring only when it can support a conclusion that existing monitoring is inadequate.

Changes to permit:

Changes to Section VII				
Item	Source	Location	Change	Reason
1	All Refinery	Table VII-A.1	Deleted three POC rows for 40 CFR 61.343	These tank requirements are included in Table VII-F.3 (61.343(d) was added.)
2	All Refinery	Table VII-A.1	Deleted four VOC rows for 8-5-328.1 and SIP 8-5-328.1.2	These tank requirements are included in Table VII-F.3
3	All Refinery	Table VII-A.1	Deleted Condition 8077	Requirements moved to Table IV-M.1
4	All Refinery	Table VII-A.1	Deleted two VOC rows for 40 CFR 63.120	Applications 30768/30769
5	All Refinery	Table VII-A.1	Moved limits and monitoring requirements associated with Condition 8077 to Table VII-M.1	Added to eliminate repetitive citations in each source table.
6	All Amorcó	Table VII-A.2	Deleted three POC rows for 40 CFR 61.343	These tank requirements are included in Table VII-F.3 (61.343(d) was added.)
7	All Amorcó	Table VII-A.2	Deleted Condition 8077	Requirements moved to Table IV-M.1
8	All Refinery	Table VII-A.2	Deleted two VOC rows for 40 CFR 63.120	Applications 30768/30769
9	All	Table VII-A.3	None	Separate table requested by EPA in other refinery Title V renewals. No longer required per Applications 30768/30769
10	S802	Table VII-B.1	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
11	S815 S816	Table VII-B.2	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
12	S850	Table VII-B.3	Updated source description	Applications 30768/30769 Repurposed equipment.
13	S1003	Table VII-B.3	Added source to table. Moved from Table VII-B.4.	Applications 30768/30769 Repurposed equipment.
14	S1008	Table VII-B.3	Added source to table. Moved from Table VII-B.8.	Applications 30768/30769 Repurposed equipment.
15	S850	Table VII-B.3	Deleted Condition 8077	Applications 30768/30769
16	S850 S1003 S1008	Table VII-B.3	Added Conditions 27584 and 27596 limits	Applications 30768/30769

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Changes to Section VII				
Item	Source	Location	Change	Reason
17	S1003	Table VII-B.4	Removed source. Moved to Table VII-B.3	Applications 30768/30769
18	S1006	Table VII-B.4	Removed source Deleted throughput limits	Applications 30768/30769 Source(s) removed from service.
19	S1002	Table VII-B.4	Deleted throughput limit per Condition 8350	Applications 30768/30769
20	S1002	Table VII-B.4	Added throughput limit per Condition 27584, Part 5	Applications 30768/30769
21	S1004	Table VII-B.5	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
22	S1005	Table VII-B.6	Added BAAQMD Regulation 13, Rule 5	New Rule adopted 5/4/2022
23	S1008	Table VII-B.8	Removed source. Moved to Table VII-B.3	Applications 30768/30769
24	S1007 S1008	Table VII-B.8	Deleted throughput limits per Condition 8077, Part C1	Applications 30768/30769
25	S1007	Table VII-B.8	Added throughput limit per Condition 27584, Part 6	Applications 30768/30769
26	S1007	Table VII-B.8	Added POC and TVP limits	Applications 30768/30769
27	S1009	Table VII-B.9	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
28	S1020	Table VII-B.10	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
29	S1510	Table VII-B.11	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
30	S1600	Table VII-B.12	Added source	Applications 30768/30769
31	S901	Table VII-C.1.1	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
32	S904	Table VII-C.1.2	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
33	S1558 S1559	Table VII-C.1.3	Added these new sources to table.	Applications 27395/27396
34	S1550 S1551 S1553 S1558 S1559	Table VII-C.1.3	Deleted On Site Residence Time limit Condition 24491 Part 2	Applications 27395/27396

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Changes to Section VII				
Item	Source	Location	Change	Reason
35	S1550 S1551 S1553 S1558 S1559	Table VII-C.1.3	Revised Unabated Operation Limit, NOx limits, and added combined firing rate limit	Applications 27395/27396
36	S854 S992 S1012 S1517	Table VII-C.2.1	Revised NSPS applicability in table description	Applications 30768/30769
37	S1524	Table VII-C.2.1	Removed source and limits	Applications 30768/30769 Source(s) removed from service.
38	S854 S992 S1012 S1517	Table VII-C.2.1	Added natural gas throughput limit	Applications 29058/29059
39	S854 S992 S1012 S1517	Table VII-C.2.1	Added requirements for MACT CC 63.670 via 40 CFR 63 Subpart EEEE	Applications 30768/30769
40	S854 S992 S1012 S1517	Table VII-C.2.1	Added requirements for MACT CC 63.670 via 40 CFR 63 Subpart FFFF	Applications 30768/30769
41	S1517	Table VII-C.2.1	Revised Throughput Limit Condition 23129 Part 53	Applications 27030/27031
42	S1517	Table VII-C.2.1	Deleted throughput limit Condition 23129, Part 56	Administrative. Throughput limit is in Part 6.
43	S943	Table VII -C.2.2	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
44	S944 S945	Table VII-C.2.3	Added natural gas throughput limit	Applications 29058/29059
45	S944 S945	Table VII-C.2.3	Added requirements for MACT CC 63.670 via 40 CFR 63 Subpart EEEE	Applications 30768/30769
46	S944 S945	Table VII-C.2.3	Added requirements for MACT CC 63.670 via 40 CFR 63 Subpart FFFF	Applications 30768/30769
47	S944 S945	Table VII -C.2.2	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
48	S1013	Table VII-C.2.4	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
49	S56	Table VII-C.3.1	Removed S56	Now owned by Tesoro Logistic Operations and included in E1200 Title V Permit.

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Changes to Section VII				
Item	Source	Location	Change	Reason
50	S57	Table VII-C.3.1	Updated ATCM requirements	Changed S57 from a New engine (based on when the permit was granted in 2003) to an In-Use engine (based on when the S57 construction commenced in 2001)
51	S57	Table VII-C.3.1	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
52	S57	Table VII-C.3.1	Replaced Condition 23811 with 22851	Consistent with other fire pump engines.
53	S952 S953 S954	Table VII-C.3.2	Added 40 CFR 63 Subpart ZZZZ formaldehyde limit	Correct omission and part of 1/30/2013 amendments.
54	S952 S953 S954	Table VII -C.3.2	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
55	S955 S956 S957 S958 S959 S960	Table VII-C.3.3	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
56	S1469, S1475, S1476, S1487	Table VII-C.3.4	Deleted source Deleted source Deleted source Added source	See changes to Table IV-C.3.4
57	S1471 S1472	Table VII-C.3.4	Updated 40 CFR 63 Subpart ZZZZ requirements.	Part of 1/30/2013 amendments.
58	S1487	Table VII-C.3.4	Moved Condition 20672 Parts A5, A6 and A8 from Table IV-C.3.5.	S1487 is also an existing RICE < 500 HP
59	S1471 S1472 S1487	Table VII-C.3.4	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
60	S1487	Table VII-C.3.5	Removed source and limits. Condition 20672 Parts A5, A6 and A8 moved to Table IV-C.3.4	Correction. S1487 is also an existing RICE < 500 HP Table IV-C.3.5 is for New engines > 500 HP
61	S1488	Table VII-C.3.5	Corrected ATCM Hour of Operation requirements and citation.	Tesoro 2/26/2019 Comments # 36 and P148.
62	S1488	Table VII-C.3.5	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
63	S1518 S1519	Table VII-C.3.6	Updated ATCM and 40 CFR 60 Subpart IIII requirements	Part of rule amendments. See Table IV-C.3.6 changes for details.

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Changes to Section VII				
Item	Source	Location	Change	Reason
64	S1518 S1519	Table VII-C.3.6	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
65	S1518 S1519	Table VII-C.3.6	Replaced Condition 23811 with 22851	Consistent with other fire pump engines.
66	S58	Table VII-C.3.7	Added Source	Correct Omission
67	S1561	Table VII-C.3.7	Added Source	Applications 27990/27991
68	S1599	Table VII-C.3.7	Added Source	Applications 30827/32023
69	S58 S1552 S1561 S1599	Table VII-C.3.7	Updated 40 CFR 60 Subpart IIII	Part of 6/28/2011, 1/30/2013 and 7/7/2016 amendments.
70	S1599	Table VII-C.3.7	Added requirements for S1599	Applications 30827/32023
71	S1552 S58 S1561 S1599	Table VII -C.3.7	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
72	S1572	Table VII-C.3.8	Added Source	Applications 28553/28549
73	S1557 S1572	Table VII-C.3.8	Added ATCM as citation of limit	Correct Omission
74	S1557 S1572	Table VII-C.3.8	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
75	S1562 S1563	Table VII-C.3.9	Added table for new sources	Applications 27990/27991
76	S1562 S1563	Table VII-C.3.9	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
77	S1562 S1563	Table VII-C.3.9	Replaced Condition 23811 with 22851	Consistent with other fire pump engines.
78	S902	Table VII-C.4.1	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
79	S908 S909 S912 S913 S915 S916 S921 S922 S927	Table VII-C.4.2	Removed sources and applicable requirements.	Applications 30768/30769 Source(s) removed from service.
80	S920 S926 S928- S935 S937	Table VII-C.4.2	Removed Condition 18372, Parts 33.A.1 and 33.A.2 as all sources are now subject to monitoring requirements under Condition 18372, Part 34.	Applications 30806/30808

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Changes to Section VII				
Item	Source	Location	Change	Reason
81	S920 S926 S928- S935 S937	Table VII-C.4.2	Removed BAAQMD 9-10-301 and added requirements for Alternative NOx Compliance Plan: 9-10-308.	Applications 30806/30808
82	S920 S926 S928- S935 S937	Table VII-C.4.2	Removed NOx Box Condition 18372, Parts 32, 33, and 34. All sources are equipped with NOx CEMS.	Applications 30806/30808
83	S920 S926 S928- S935 S937	Table VII-C.4.2	Added TS limit in fuel gas	Applications 30768/30769
84	S920 S928- S934 S937	Table VII-C.4.2	Updated sources associated with Conditions 13605, 20099, 21849	Applications 30768/30769
85	S920 S928- S934 S937	Table VII-C.4.2	Update POC limit loaded at S-1025	Applications 31305/32023
86	S920 S926 S928-S935 S937	Table VII-C.4.2	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
87	Heaters	Table VII- C.4.2,	Updated NSPS H2S limit from 160 ppmv to 162 ppmv	Tesoro 8/3/2018 Comment # 15
88	Heaters	Table VII C.4.2, C.4.3,	Added operating day averaging period to CO limit.	Correct omission. Tesoro 8/3/2018 Comment # 39
89	S917 S951 S974	Table VII-C.4.3	Removed sources and applicable requirements.	Applications 30768/30769 Source(s) removed from service.
90	S973	Table VII-C.4.3	Added Condition 8077-A2A NOx emissions limits	Applications 27309/27310 Applications 30768/30769
91	S974	Table VII-C.4.3	Revised S973/S974 group firing rate limit to S974 firing rate limit of 110 MMBtu/hr due to the shutdown of S973	Applications 30768/30769
92	S919 S973	Table VII-C.4.3	Removed 40 CFR 60.104 and 60.105 H2S limit	Applications 30768/30769
93	S919 S973	Table VII-C.4.3	Revised H2S limit to TS limit	Applications 30768/30769

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Changes to Section VII				
Item	Source	Location	Change	Reason
94	S919 S973	Table VII-C.4.3	Removed BAAQMD 9-10-301 and added requirements for Alternative NOx Compliance Plan: 9-10-308.	Applications 30806/30808
95	S919 S973	Table VII-C.4.3	Removed NOx Box Condition 18372, Parts 32, 33, and 34. All sources are equipped with NOx CEMS.	Applications 30806/30808
96	S919	Table VII-C.4.3	Revised NOx monitoring to reflect new NOx CEMS.	Applications 28278/28274
97	S919 S973	Table VII-C.4.3	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
98	S950	Table VII-C.4.4	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
99	S1412	Table VII-C.4.5	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
100	S1470	Table VII-C.4.6	Deleted source from table.	Applications 30768/30769 Source(s) removed from service.
101	S1511 S1512	Table VII-C.4.7	Updated source description	Applications 30768/30769
102	S1511 S1512	Table VII-C.4.7	Removed H2S requirement from 40 CFR 60.104	Applications 30768/30769
103	S1511 S1512	Table VII-C.4.7	Added monitoring requirements for NOx and O2 using a CEMS from 40 CFR 60 Subpart Db.	Applications 30768/30769
104	S1511 S1512	Table IV-C.4.7	Added Regulation 6-1-310.1	Part of 8/1/2018 amendment
105	S971 S972	Table VII-C.4.8	Deleted table and all requirements.	Applications 30768/30769 Source(s) removed from service.
106	S963	Table VII-C.5.1	Deleted table and all requirements.	Applications 28445/28446
107	S55	Table VII-D.1	Updated source description	Applications 30768/30769
108	S55	Table VII-D.1	Deleted all requirements except throughput	Applications 30768/30769
109	S55	Table VII-D.1	Updated throughput limit and added TVP and POC limits	Applications 30768/30769
110	S100	Table VII-D.2	Deleted table and all requirements.	Applications 27990/27991
111	S108	Table VII-D.4	Deleted table and all requirements.	Applications 27990/27991
112	S115	Table VII-D.5	Added throughput limit	Applications 30768/30769
113	S1025	Table VII-D.7	Updated source description	Applications 30768/30769
114	S1025	Table VII-D.7	Added Condition 26033	Applications 26198/26199

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Changes to Section VII				
Item	Source	Location	Change	Reason
115	S1025	Table VII-D.7	Removed references to 40 CFR 63 Subpart CC and added applicable requirements from 40 CFR 63 Subpart R.	Applications 30768/30769
116	S1560	Table VII-D.11	Added Table	Applications 27990/27991
117	S97 S98 S99	Table VII-E.1	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.
118	S659 S660	Table VII-E.2	Deleted table and all requirements Sources demolished.	Applications 27030/27031
119	S809 S810	Table VII-E.3	Removed sources	Applications 30768/30769
120	S821	Table VII-E.3	Updated Regulation 6-1-310 and 6-1-311 citations	Part of 8/1/2018 amendment
121	S821	Table VII-E.3	Updated Regulation 6-1-311 limit	Part of 8/1/2018 amendment.
122	S975 S977 S979 S981 S983 S987 S988	Table VII-E.4	Removed sources and applicable requirements	Applications 30768/30769 Source(s) removed from service.
123	S846 S976 S978 S980 S982 S985	Table VII-E.4	Added VOC requirements from Regulation 11, Rule 10 and 40 CFR 63 Subpart FFFF.	12/16/2015 Rule Amendment Applications 30768/30769
124	S846 S976 S978 S980 S985	Table VII-E.4	Added circulation rate limits	Applications 30768/30769
125	S846 S976 S978 S980 S982 S985	Table VII-E.4	Updated Regulation 6-1-310 and 6-1-311 citations	Part of 8/1/2018 amendment
126	S1513	Table VII-E.5	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.

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Item	Source	Location	Change	Reason
127	S1514 S1515	Table VII-E.6	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.
128	S1516	Table VII-E.7	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.
129	All	Table VII-F.3	Updated Group IDs, updated regulatory requirements for each Group ID, and added new limits/conditions.	Applications 30768/30769
130	All	Table VII-F.3	Changed VOC SIP 8-5-328.1.2 to 8-5-328.1	Parent citation 8-5-328.1 covers both 8-5-328.1.1 and 8-5-328.1.2.
131	All	Table VII-F.3	Deleted citation to MACT CC under Sections Subpart Kb and Subpart FF (63.640, 63.647)	Applications 30768/30769
132	All	Table VII-F.3	Deleted Section MACT CC	Applications 30768/30769
133	All	Table VII-F.3	Added VOC 61.343(d)	Correct omission
134	S1564	Table VII-F.3	Added throughput Condition 26408	Applications 27990/27991
135	S1508	Table VII-F.3	Deleted TVP Limit Condition 23486	Applications 27990/27991
136	S621	Table VII-F.3	Added Condition 27597 for TVP, POC/NPOC, and Toxics	Applications 30768/30769
137	S2023	Table VII-F.3	Added Condition 27597 for TVP, POC/NPOC, and Toxics	Applications 30768/30769
138	S651	Table VII-F.3	Added Condition 27603 for TVP, POC/NPOC, and Toxics	Applications 30768/30769
139	S795	Table VII-F.3	Deleted Condition 5711	Applications 30768/30769
140	S1421	Table VII-F.3	Deleted Condition 13282	Removed from service 4-4-2023
141	S871	Table VII-F.3	Updated applicable sources for Condition 21393	Administrative
142	S1508 S1509	Table VII-F.3	Deleted Throughput Limit Condition 23486	Applications 27990/27991
143	S1564	Table VII-F.3	Added Throughput Limit Condition 26408	Applications 30768/30769
144	S1554	Table VII-F.3	Deleted Condition 25025	Applications 30768/30769
145	S601	Table VII-F.3	Added Throughput Limit Condition 27587	Applications 30768/30769
146	S650	Table VII-F.3	Added Throughput Limit Condition 27587	Applications 30768/30769
147	S692	Table VII-F.3	Added Throughput Limit Condition 27587	Applications 30768/30769
148	S699	Table VII-F.3	Added Throughput Limit Condition 27587	Applications 30768/30769

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Item	Source	Location	Change	Reason
149	S621	Table VII-F.3	Added Throughput Limit Condition 27597	Applications 30768/30769
150	S2023	Table VII-F.3	Added Throughput Limit Condition 27587	Applications 30768/30769
151	Drains	Table VII-G.2	Changed applicability from Subpart QQQ to Subpart FFFF.	Applications 30768/30769
152	Drains	Table VII-G.2	Updated POC citation and limits	Applications 30768/30769
153	S-513	Table VII-G.3	Deleted table and all requirements	S-513 demolished
154	S1484	Table VII-G.4	Removed source and applicable requirements	Applications 30768/30769 Source(s) removed from service.
155	S532	Table VII-G.4	Deleted POC 61.349	Correction. S532 is abated by sending vapors to the fuel gas system and is exempt from these requirements per 61.340(d).
156	S606 S607	Table VII-G.5	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.
157	S699	Table VII-G.6	Deleted requirements for 40 CFR 60 Subpart QQQ	Applications 30768/30769
158	S699	Table VII-G.6	Added throughput limit	Applications 30768/30769
159	S699	Table VII-G.6	Added reference to Tables VII – F.1 through F.3 for additional requirements	Applications 30768/30769
160	S700	Table VII-G.7	Added 40 CFR 63 Subpart FFFF and Condition 27583, Part 7, requirements	Applications 30768/30769
161	S700	Table VII-G.7	Added throughput limit	Applications 30768/30769
162	S819	Table VII-G.8	Added Condition 27583, Part 7, requirements	Applications 30768/30769
163	S819	Table VII-G.8	Added throughput limit	Applications 30768/30769
164	S819	Table VII-G.8	Deleted requirements for 40 CFR 60 Subpart QQQ	Applications 30768/30769
165	S819	Table VII-G.8	Added 40 CFR 63 Subpart FFFF wastewater stream applicability criteria.	Applications 30768/30769
166	S819	Table VII-G.8	Deleted 40 CFR 63 Subpart CC exemption	Applications 30768/30769
167	S819	Table VII-G.8	Added Regulation 6-1-310.1 citation	Part of 8/1/2018 amendment

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Changes to Section VII				
Item	Source	Location	Change	Reason
168	S830 S831 S842 S1101 S1102 S1103 S1104	Table VII-G.9	Added 40 CFR 63 Subpart FFFF and Condition 27583, Part 7, requirements	Applications 30768/30769
169	S830 S831 S842	Table VII-G.9	Added throughput limit	Applications 30768/30769
170	S1026	Table VII-G.10	Added Regulation 6-1-310.1 citation	Part of 8/1/2018 amendment
171	S2013	Table VII-G.11	Added table	Applications 30768/30769
172	S851	Table VII-H.1	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.
173	S1401	Table VII-H.2	Added SO2 emission limit, H2SO4 emission limit, natural gas throughput limit, and monitoring requirement/frequency when sulfur production is less than 30 tons/day.	Application 30729 superseded by Applications 30768/30769
174	S1401	Table VII-H.2	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.
175	S1404	Table VII-H.3	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.
176	S1405	Table VII-H.4	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.
177	S1411	Table VII-H.5	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.
178	S1413	Table VII-H.6	Removed source	Applications 30768/30769 Source(s) removed from service.
179	S1414	Table VII-H.6	Deleted table and all requirements	Removed from service 3-21-2023
180	S1415	Table VII-H.7	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.
181	S1571	Table VII-H.8	Added Table	Applications 28336/28346
182	S1571	Table VII-H.8	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.

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Changes to Section VII				
Item	Source	Location	Change	Reason
183	Valves	Table VII-J.1	Deleted Regulation 8-18-302.3. Added Regulation 8-18-306.1. Deleted 8-18-306.4 mass emission rate requirements.	Part of 12/15/2015 amendments.
184	Connection	Table VII-J.1	Deleted Regulation 8-18-303.3. Added Regulation 8-18-306.1 and 8-18-306.4.	Part of 12/15/2015 amendments.
185	Non-repairable Equipment	Table VII-J.1	Deleted Regulation 8-18-302.3, 8-18-303.3, 8-18-304.3 Added Regulation 8-18-306.1. Updated 8-18-306.2 requirements.	Part of 12/15/2015 amendments.
186	Fugitive Components	Table VII-J.1	Removed BAAQMD Regulation 11, Rule 7 requirements.	Applications 30768/30769 Source(s) in benzene service removed from service.
187	Fugitive Components	Table VII-J.1	Removed 40 CFR 60 Subpart VV, VVa, 40 CFR 61 Subpart V requirements	Applications 30768/30769
188	Fugitive Components	Table VII-J.1	Added 40 CFR 63 Subpart FFFF/EEEE/UU monitoring requirements.	Applications 30768/30769
189	Fugitive Components	Table VII-J.1	Deleted POC Condition 19199, Part C5	Applications 30768/30769 S802 removed from service.
190	Atmospheric PRDs	Table VII-J.2	Added 40 CFR 63 Subpart FFFF/EEEE monitoring requirements.	Applications 30768/30769
191	S804 S822 S834	Table VII-J.3	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.
192	S823 S824	Table VII-J.4	Updated Regulation 6-1-310 citation	Part of 8/1/2018 amendment
193	S823 S824	Table VII-J.4	Updated Regulation 6-1-310 and 6-1-311 citations	Part of 8/1/2018 amendment
194	S590	Table VII-J.6	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.
195	S825	Table VII-J.7	Deleted table and all requirements	Applications 30768/30769 Source(s) removed from service.
196	S1526	Table VII-J.8	Added table	Applications 30768/30769

Changes to Section VII				
Item	Source	Location	Change	Reason
197	A39	Table VII-K.1	Deleted requirements for POC originating from 60.692-5(a), (e)(1), and (e)(2). Added wastewater stream applicability criteria.	Applications 30768/30769
198	A39	Table VII-K.1	Added Regulation 6-1-310.1 citation	Part of 8/1/2018 amendment
199	A40 A42 A43	Table VII-K.2	Deleted requirements for SO2 originating from 60.104(a)(1).	Applications 30768/30769
200	A40 A42 A43	Table VII-K.2	Added Regulation 6-1-310.1 citation	Part of 8/1/2018 amendment
201	A1584	Table VII-K.3	Added table	Applications 31305/32023
202	A2000	Table VII-K.4	Added table	Applications 30768/30769
203	A2001	Table VII-K.5	Added table	Applications 30768/30769
204	A2002	Table VII-K.6	Added table	Applications 30768/30769
205	Various	Table VII-M.1	Added Table for all requirements of the Refinery Emissions Cap. Updated limits consistent with Section VI.	Added to eliminate repetitive citations in each source table.
206	S57	Table VII-M.1	Removed source.	Removed from service 3-21-2023.

VIII. Test Methods

This section of the permit lists test methods that are associated with standards in Air District or other rules. It is included only for reference. In most cases, the test methods in the rules are source test methods that can be used to determine compliance but are not required on an ongoing basis. They are not “applicable requirements” as defined by Regulation 2-6-202.

If a rule or permit condition requires ongoing testing, the requirement will also appear in Section IV of the permit.

Changes to permit:

Changes to Section VIII				
Item	Source	Location	Change	Reason
1	All Refinery	Table VIII	Updated citation and description	Administrative
2	All Refinery	Table VIII	Added Test Methods for Regulation 8, Rule 53	Regulation 8, Rule 53 adopted in 2012.
3	All Refinery	Table VIII	Updated various applicable test methods	Administrative

IX. Permit Shield:

The Air District rules allow two types of permit shields. The permit shield types are defined as follows: (1) A provision in a major facility review permit explaining that specific federally enforceable regulations and standards do not apply to a source or group of sources, or (2) A provision in a major facility review permit explaining that specific federally enforceable applicable requirements for monitoring, recordkeeping and/or reporting are subsumed because other applicable requirements for monitoring, recordkeeping, and reporting in the permit will assure compliance with all emission limits.

The second type of permit shield is allowed by EPA’s “White Paper 2 for Improved Implementation of the Part 70 Operating Permits Program.” The Air District uses the second type of permit shield for all streamlining of monitoring, recordkeeping, and reporting requirements in Title V permits. The Air District’s program does not allow other types of streamlining in Title V permits.

This facility has the second type of permit shield, identical to the last permit renewal.

Changes to permit:

Changes to Section IX				
Item	Source	Location	Change	Reason
1	S901	Table IX A-3	Deleted table	Applications 30768/30769 Source(s) removed from service.
2	S1411	Table IX A-4	Deleted table	Applications 30768/30769 Source(s) removed from service.
3	n/a	Table IX A-5 Table IX A-6 Table IX A-7	Renumbered to Table IX – A.1 – A.3	Administrative
4	S1013	Table IX A-6	Removed source	Applications 30768/30769 Source(s) removed from service.

X. Revision History

This section will add the Renewed Permit with a summary of the applications included.

XI. Glossary

Changes to permit:

Removed acronyms and terminologies that are no longer referenced in this Title V permit and added acronyms and terminologies associated with the Renewable Fuels Project (Applications 30768/30769).

D. Alternate Operating Scenarios:

No alternate operating scenario has been requested for this facility.

E. Compliance Status:

The responsible official for Tesoro Refining & Marketing Company LLC submitted a signed Certification Statement form dated June 13, 2023. On this form, the responsible official certified that the following statements are true:

Based on information and belief formed after reasonable inquiry, the source(s) identified in the Applicable Requirements and Compliance Summary form that is(are) in compliance will continue to comply with the applicable requirement(s);

Based on information and belief formed after reasonable inquiry, the source(s) identified in the Applicable Requirements and Compliance Summary form will comply with future-effective applicable requirement(s), on a timely basis.

Based on information and belief formed after reasonable inquiry, information on application forms, all accompanying reports, and other required certifications is true, accurate, and complete;

All fees required by Regulation 3, including Schedule P have been paid.

Regulation 2-6-426.2 requires that a new Certification Statement be submitted on every anniversary of the application date until the permit has been issued. Tesoro has been requested to provide the current Certification Statement.

F. Differences between the Application and the Proposed Permit:

The Title V permit renewal application was originally submitted on December 22, 2015 and assigned Application Number 27668. This version is the basis for constructing the proposed Title V permit. Revisions were made to the Application 27668 as a result of changes at the facility that were made pursuant to the Permit Applications listed in Section C.IV of this Statement of Basis and Section X of the permit.

Appendices

APPENDIX A – JUSTIFICATION FOR CHANGES IN GRANDFATHERED SOURCE THROUGHPUT LIMITS

S-830, S-977 and S-980

Application 25718 addressed grandfathered limit corrections for S-830, S-977 and S-980. See the application evaluation included in Appendix D for details. Application was approved on July 3, 2017.

Application 30768 established firm limits for S-830 and S-980, which are lower than the grandfathered limits granted by Application 25718. In addition, S-977 was removed from service per Application 30768. See the application evaluation included in Appendix D for details.

No Additional Changes Applicable for this Permit Renewal

APPENDIX B – APPLICABILITY DETERMINATIONS

40 CFR 63 Subpart DDDDD, 40 CFR 64 CAM and Engine Applicability Determinations

Included in Section C.IV of this Statement of Basis.

No Other Determinations Applicable for this Permit Renewal

Proposed Permit Evaluation and Statement of Basis
Renewed Permit: Site B5728 & B5729, Tesoro Refining and Marketing Company
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APPENDIX C – DETAILED CAM EVALUATION

Proposed Permit Evaluation and Statement of Basis
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Emission Unit	A-	Abatement Device	Sources subject to emission limit	Emissions Standards			CAM Exemptions				Emissions		Applicability Summary		
				Pollutant Controlled	Emission Limits	Basis of Limit	Date of CAA Sec. 111/112 (NSPS/MACT) Emissions Standard	Continuous Compliance Demonstration Method?	General Applicability	Applicable Exemption?	Uncontrolled (tpy)	Controlled (tpy)	PSEU Subject to CAM?	Large PSEU	Rationale/Comments
S126 - LPG Truck Loading Rack	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S126, S127, S134, S137, S323, S532, S603, S613, S699, S714, S819, S1025, S32103	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	Limit is not on a regulated air pollutant.
S127 - LPG Tank Car Loading Rack	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S126, S127, S134, S137, S323, S532, S603, S613, S699, S714, S819, S1025, S32103	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	Limit is not on a regulated air pollutant.
S134 - Tank A-134	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S126, S127, S134, S137, S323, S532, S603, S613, S699, S714, S819, S1025, S32103	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S134, S137, S323, S603, S714,	Volatile Organic Compounds	VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306	NSPS Kb - Original Apr. 8, 1987 Last Modified Oct. 8, 1997	No	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S134		VOC: 98.5% control	BAAQMD Condition #20923, part 3									

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Emission Unit	A-	Abatement Device	Sources subject to emission limit	Emissions Standards			CAM Exemptions				Emissions		Applicability Summary		
				Pollutant Controlled	Emission Limits	Basis of Limit	Date of CAA Sec. 111/112 (NSPS/MACT) Emissions Standard	Continuous Compliance Demonstration Method?	General Applicability	Applicable Exemption?	Uncontrolled (tpy)	Controlled (tpy)	PSEU Subject to CAM?	Large PSEU	Rationale/Comments
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S134, S137, S323, S656, S658,		VOC: 95% control	40 CFR 60.112b(a)(3)(ii)									
S137 - Tank A-137	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S126, S127, S134, S137, S323, S532, S603, S613, S699, S714, S819, S1025, S32103	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S134, S137, S323, S603, S714,	Volatile Organic Compounds	VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306	NSPS Kb - Original Apr. 8, 1987 Last Modified Oct. 8, 1997	No	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S134, S137, S323, S327, S656, S658,		VOC: 95% control	40 CFR 60.112b(a)(3)(ii)									
S323 - Tank A-323;	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S126, S127, S134, S137, S323, S532, S603, S613, S699, S714, S819, S1025, S32103	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S134, S137, S323, S603, S714	Volatile Organic Compounds	VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306	NSPS Kb - Original Apr. 8, 1987 Last	No	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.

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Emission Unit	A-	Abatement Device	Sources subject to emission limit	Pollutant Controlled	Emissions Standards		CAM Exemptions				Emissions		Applicability Summary		
					Emission Limits	Basis of Limit	Date of CAA Sec. 111/112 (NSPS/MACT) Emissions Standard	Continuous Compliance Demonstration Method?	General Applicability	Applicable Exemption?	Uncontrolled (tpy)	Controlled (tpy)	PSEU Subject to CAM?	Large PSEU	Rationale/Comments
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S134, S137, S323, S656, S658,		VOC: 95% control	40 CFR 60.112b(a)(3)(ii)	Modified Oct. 8, 1997								
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S323		VOC: 99.5% abatement	BAAQMD Condition # 13605, part 3									
S532 - Oil Water Separator, (Tank 532 modified as OWS) #50 Crude Unit Desalter Skim Tank	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S126, S127, S134, S137, S323, S532, S603, S613, S699, S714, S819, S1025, S32103	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S532	Volatile Organic Compounds	VOC: 95% control	BAAQMD 8-8-301.3 SIP 8-8-301.3	N/A	No	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
S603 - Tank A-603	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S126, S127, S134, S137, S323, S532, S603, S613, S699, S714, S819, S1025, S32103	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S134, S137, S323, S603, S714	Volatile Organic Compounds	VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306	N/A	No	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.

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Emission Unit	A-	Abatement Device	Sources subject to emission limit	Emissions Standards			CAM Exemptions				Emissions		Applicability Summary		
				Pollutant Controlled	Emission Limits	Basis of Limit	Date of CAA Sec. 111/112 (NSPS/MACT) Emissions Standard	Continuous Compliance Demonstration Method?	General Applicability	Applicable Exemption?	Uncontrolled (tpy)	Controlled (tpy)	PSEU Subject to CAM?	Large PSEU	Rationale/Comments
S613 - Tank A-613	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S126, S127, S134, S137, S323, S532, S603, S613, S699, S714, S819, S1025, S32103	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	Limit is not on a regulated air pollutant.
S656 - Tank A-846	12	Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb	S656, S658,	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	Limit is not on a regulated air pollutant.
	12	Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb	S656, S658	Volatile Organic Compounds	VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306	NSPS Kb - Original Apr. 8, 1987 Last Modified Oct. 8, 1997	No	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	A-14/A-12 meet the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
	12	Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb	S656, S658,		VOC: 95% control	Condition 10696, Part 1									
	14	Vapor Recovery System to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S134, S137, S323, S656, S658,		VOC: 95% control	40 CFR 60.112b(a)(3) (ii)									
12	Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb	S656, S658,	N/A	nuisance odors	BAAQMD 1-301	N/A									
S658 - Tank A-847	12	Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb	S656, S658	Volatile Organic Compounds	VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306	NSPS Kb - Original Apr. 8, 1987 Last Modified Oct. 8, 1997	No	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	A-14/A-12 meet the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
	12	Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb	S656, S658,		VOC: 95% control	Condition 10696, Part 1									
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S134, S137, S323, S656, S658,		VOC: 95% control	40 CFR 60.112b(a)(3) (ii)									

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Emission Unit	A-	Abatement Device	Sources subject to emission limit	Emissions Standards			CAM Exemptions				Emissions		Applicability Summary		
				Pollutant Controlled	Emission Limits	Basis of Limit	Date of CAA Sec. 111/112 (NSPS/MACT) Emissions Standard	Continuous Compliance Demonstration Method?	General Applicability	Applicable Exemption?	Uncontrolled (tpy)	Controlled (tpy)	PSEU Subject to CAM?	Large PSEU	Rationale/Comments
S691 - Tank A-691	21	Butane Tank Vapor Recovery System	S691	Volatile Organic Compounds	VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306	N/A	No	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	A-21 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. S943 is used during non-routine operations (e.g. malfunctions). Therefore, this PSEU is not subject to CAM.
	S943	Butane Tank S691 Safety Flare	Backup abatement for A21, which abates S691		VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306			64.2 (a)(2) Does not use a Control Device						
S699 - Tank A-699	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S126, S127, S134, S137, S323, S532, S603, S613, S699, S714, S819, S1025, S32103	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S699	Volatile Organic Compounds	VOC: 70% control	BAAQMD 8-8-305.2 SIP 8-8-305.2	N/A	No	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
S714 - Tank A-714	714	Caustic Scrubber	S714	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	Limit is not on a regulated air pollutant.
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S126, S127, S134, S137, S323, S532, S603, S613, S699, S714, S819, S1025, S32103	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	Limit is not on a regulated air pollutant.

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Emission Unit	A-	Abatement Device	Sources subject to emission limit	Emissions Standards			CAM Exemptions				Emissions		Applicability Summary		
				Pollutant Controlled	Emission Limits	Basis of Limit	Date of CAA Sec. 111/112 (NSPS/MACT) Emissions Standard	Continuous Compliance Demonstration Method?	General Applicability	Applicable Exemption?	Uncontrolled (tpy)	Controlled (tpy)	PSEU Subject to CAM?	Large PSEU	Rationale/Comments
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S134, S137, S323, S603, S714,	Volatile Organic Compounds	VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306	N/A	No	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
S819 - API Oil-Water Separator/Dissolved Nitrogen Flotation System;	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S126, S127, S134, S137, S323, S532, S603, S613, S699, S714, S819, S1025, S32103	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	Limit is not on a regulated air pollutant.
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S819	Volatile Organic Compounds	VOC: 95% control	BAAQMD 8-8-302.3 SIP 8-8-302.3	N/A	Yes - CEMS (temperature monitoring)	Yes	64.2 (b)(1)(vi)	N/A	N/A	No	No	Exempt based upon continuous compliance demonstration using CEMS.
	39	Thermal Oxidizer, Direct Flame Afterburner	S819		95% control	BAAQMD 8-8-302.3 SIP 8-8-302.3									
	39	Thermal Oxidizer, Direct Flame Afterburner	S819, S1026		NMHC: 10 ppmv, calculated as methane (rolling one-hour average)	BAAQMD Condition # 7406, part B5A									
39	Thermal Oxidizer, Direct Flame Afterburner	S819, S1026	Hydrogen Sulfide	H2S: 1 ppm	BAAQMD Condition # 7406, part B7	N/A	Yes - CEMS (temperature monitoring)	Yes	64.2 (b)(1)(vi)	N/A	N/A	No	No	Exempt based upon continuous compliance demonstration using CEMS.	
S854 East Air Flare	S854	East Air Flare	See Note 1 for Table II-A1	Volatile Organic Compounds	Typically 98% destruction efficiency	See Table IV-C.2.1	Pilot = N/A Process vents connected to flare: Subject to MACT FFFF MPV emission limit. MACT FFFF originally proposed in 2002.	Yes - surrogates monitored under MACT standards	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	Evaluated the flare as an EU considering only the pilot combustion emissions generated by the flare itself, which has no control device. The process vents routed to the flare are considered separate EUs.

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Emission Unit	A-	Abatement Device	Sources subject to emission limit	Pollutant Controlled	Emissions Standards		CAM Exemptions				Emissions		Applicability Summary		
					Emission Limits	Basis of Limit	Date of CAA Sec. 111/112 (NSPS/MACT) Emissions Standard	Continuous Compliance Demonstration Method?	General Applicability	Applicable Exemption?	Uncontrolled (tpy)	Controlled (tpy)	PSEU Subject to CAM?	Large PSEU	Rationale/Comments
S992 Emergency Flare	S992	Emergency Flare	See Note 1 for Table II-A1	Volatile Organic Compounds	Typically 98% destruction efficiency	See Table IV-C.2.1	Pilot = N/A Process vents connected to flare: Subject to MACT FFFF MPV emission limit. MACT FFFF originally proposed in 2002.	Yes - surrogates monitored under MACT standards	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	Evaluated the flare as an EU considering only the pilot combustion emissions generated by the flare itself, which has no control device. The process vents routed to the flare are considered separate EUs.
S944 North Steam Flare	S944	North Steam Flare	See Note 1 for Table II-A1	Volatile Organic Compounds	Typically 98% destruction efficiency	See Table IV-C.2.3	Pilot = N/A Process vents connected to flare: Subject to MACT FFFF MPV emission limit. MACT FFFF originally proposed in 2002.	Yes - surrogates monitored under MACT standards	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	Evaluated the flare as an EU considering only the pilot combustion emissions generated by the flare itself, which has no control device. The process vents routed to the flare are considered separate EUs.
S945 South Steam Flare	S945	South Steam Flare	See Note 1 for Table II-A1	Volatile Organic Compounds	Typically 98% destruction efficiency	See Table IV-C.2.3	Pilot = N/A Process vents connected to flare: Subject to MACT FFFF MPV emission limit. MACT FFFF originally proposed in 2002.	Yes - surrogates monitored under MACT standards	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	Evaluated the flare as an EU considering only the pilot combustion emissions generated by the flare itself, which has no control device. The process vents routed to the flare are considered separate EUs.
S952 - Internal Combustion Engine No. 1 Gas Plant Vapor Compressor No. 4023	952	Non-Selective Catalytic Reduction (NSCR) System	S952	Oxides of Nitrogen	NOx: 56 ppmv corrected to 15% oxygen NOx: 25 ppmv corrected to 15% oxygen	SIP 9-8-301.1 BAAQMD 9-8-301.1	N/A	No - quarterly monitoring only with portable analyzer.	64.2 (a)(3) Pre-Control < 100 TPY	N/A	29.83	N/A	No	No	Uncontrolled emissions < 100 tpy.

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Emission Unit	A-	Abatement Device	Sources subject to emission limit	Emissions Standards			CAM Exemptions				Emissions		Applicability Summary		
				Pollutant Controlled	Emission Limits	Basis of Limit	Date of CAA Sec. 111/112 (NSPS/MACT) Emissions Standard	Continuous Compliance Demonstration Method?	General Applicability	Applicable Exemption?	Uncontrolled (tpy)	Controlled (tpy)	PSEU Subject to CAM?	Large PSEU	Rationale/Comments
				Carbon Monoxide	CO: 2000 ppmv corrected to 15% oxygen	BAAQMD 9-8-301.3	N/A	No - quarterly monitoring only with portable analyzer.	64.2 (a)(3) Pre-Control < 100 TPY	N/A	48.88	N/A	No	No	Uncontrolled emissions < 100 tpy.
S953 - Internal Combustion Engine No. 1 Gas Plant Vapor Compressor No. 4024	953	Non-Selective Catalytic Reduction (NSCR) System	S953	Oxides of Nitrogen	NOx: 56 ppmv corrected to 15% oxygen	SIP 9-8-301.1	N/A	No - quarterly monitoring only with portable analyzer.	64.2 (a)(3) Pre-Control < 100 TPY	N/A	29.83	N/A	No	No	Uncontrolled emissions < 100 tpy.
					NOx: 25 ppmv corrected to 15% oxygen	BAAQMD 9-8-301.1									
				Carbon Monoxide	CO: 2000 ppmv corrected to 15% oxygen	BAAQMD 9-8-301.3	N/A	No - quarterly monitoring only with portable analyzer.	64.2 (a)(3) Pre-Control < 100 TPY	N/A	48.88	N/A	No	No	Uncontrolled emissions < 100 tpy.
S954 - Internal Combustion Engine No. 1 Gas Plant Vapor Compressor No. 4025	954	Non-Selective Catalytic Reduction (NSCR) System	S954	Oxides of Nitrogen	NOx: 56 ppmv corrected to 15% oxygen	SIP 9-8-301.1	N/A	No - quarterly monitoring only with portable analyzer.	64.2 (a)(3) Pre-Control < 100 TPY	N/A	29.83	N/A	No	No	Uncontrolled emissions < 100 tpy.
					NOx: 25 ppmv corrected to 15% oxygen	BAAQMD 9-8-301.1									
				Carbon Monoxide	CO: 2000 ppmv corrected to 15% oxygen	BAAQMD 9-8-301.3	N/A	No - quarterly monitoring only with portable analyzer.	64.2 (a)(3) Pre-Control < 100 TPY	N/A	48.88	N/A	No	No	Uncontrolled emissions < 100 tpy.
S973 - No. 3 HDS Recycle Gas Heater (F55)	31	No. 3 HDS Selective Catalytic Reduction (SCR) Unit	S973	Oxides of Nitrogen	NOx: 130.5 lb/rolling 24 hours during SU or SD	BAAQMD Condition #8077, part A2A	N/A	Yes - CEMS	Yes	64.2(b)(1)(vi)	N/A	N/A	No	No	Exempt based upon continuous compliance demonstration using CEMS.
					NOx: 2628 lb/rolling 12 month during SU or SD	BAAQMD Condition #8077, part A2A									
					NOx: 40 ppmv, dry, corrected to 3% oxygen, 8 hour average	BAAQMD Condition #8077, part B7A									
				N/A	A31 Inlet Temperature: 530 F	BAAQMD Condition #8077, part A2B	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	Limit is not on a regulated air pollutant.

Proposed Permit Evaluation and Statement of Basis
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Emission Unit	A-	Abatement Device	Sources subject to emission limit	Emissions Standards			CAM Exemptions				Emissions		Applicability Summary		
				Pollutant Controlled	Emission Limits	Basis of Limit	Date of CAA Sec. 111/112 (NSPS/MACT) Emissions Standard	Continuous Compliance Demonstration Method?	General Applicability	Applicable Exemption?	Uncontrolled (tpy)	Controlled (tpy)	PSEU Subject to CAM?	Large PSEU	Rationale/Comments
S1012 West Air Flare	S1012	West Air Flare	See Note 1 for Table II-A1	Volatile Organic Compounds	Typically 98% destruction efficiency	See Table IV-C.2.1	Pilot = N/A Process vents connected to flare: Subject to MACT FFFF MPV emission limit. MACT FFFF originally proposed in 2002.	Yes - surrogates monitored under MACT standards	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	Evaluated the flare as an EU considering only the pilot combustion emissions generated by the flare itself, which has no control device. The process vents routed to the flare are considered separate Eus.
S1025 - Bulk Plant; Bottom Loading Facilities, Gasoline, Diesel, Renewable Diesel	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S126, S127, S134, S137, S323, S532, S603, S613, S699, S714, S819, S1025, S32103	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S1025	Volatile Organic Compounds	POC < 0.04 lb POC per 1000 gallons of material loaded	BAAQMD 8-33-301 and BAAQMD Condition #21849, Part 11	N/A	Yes - POC Parametric Monitoring	64.2 (a)(2) Does not use a Control Device	64.2(b)(1)(vi)	N/A	N/A	No	No	A-14 meets the definition of "inherent process equipment" and thus does not meet the definition of control device. Therefore, this PSEU is not subject to CAM.
S1026 - DNF Effluent Air Stripper	39	Thermal Oxidizer, Direct Flame Afterburner	S1026	Volatile Organic Compounds	70% control	BAAQMD 8-8-307.2 SIP 8-8-307.2	N/A	Yes - CEMS (temperature monitoring)	Yes	64.2(b)(1)(vi)	N/A	N/A	No	No	Exempt based upon continuous compliance demonstration using CEMS.
			S819, S1026		NMHC: 10 ppmv, calculated as methane (rolling one-hour average)	BAAQMD Condition # 7406, part B5A			Yes						
			S819, S1026	Hydrogen Sulfide	H2S: 1 ppm	BAAQMD Condition # 7406, part B7	N/A	Yes - CEMS (temperature monitoring)	Yes	64.2(b)(1)(vi)	N/A	N/A	No	No	Exempt based upon continuous compliance demonstration using CEMS.
S1106 - No. 4 HDS Reactor Feed Heater (F72)	1106	Selective Catalytic Reduction (SCR) System, F72	S1106	Oxides of Nitrogen	NOx: 10 ppmv, dry, corrected to 3% oxygen	BAAQMD Condition #19199, Part H9	N/A	Yes - CEMS	Yes	64.2(b)(1)(vi)	N/A	N/A	No	No	Exempt based upon continuous compliance demonstration using CEMS.

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Emission Unit	A-	Abatement Device	Sources subject to emission limit	Pollutant Controlled	Emissions Standards		CAM Exemptions				Emissions		Applicability Summary		
					Emission Limits	Basis of Limit	Date of CAA Sec. 111/112 (NSPS/MACT) Emissions Standard	Continuous Compliance Demonstration Method?	General Applicability	Applicable Exemption?	Uncontrolled (tpy)	Controlled (tpy)	PSEU Subject to CAM?	Large PSEU	Rationale/Comments
S1489 - Fixed Volume Portable Tank #1	1001	Carbon Canister, Fixed Volume Portable Tanks	S1489, S1490, and S1491	Volatile Organic Compounds	VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306	N/A	No	64.2 (a)(3) Pre-Control < 100 TPY	N/A	0.31	0.02	No	No	Uncontrolled emissions < 100 tpy.
	1002	Carbon Canister, Fixed Volume Portable Tanks	S1489, S1490, and S1491		VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306									
S1490 - Fixed Volume Portable Tank #2	1001	Carbon Canister, Fixed Volume Portable Tanks	S1489, S1490, and S1491	Volatile Organic Compounds	VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306	N/A	No	64.2 (a)(3) Pre-Control < 100 TPY	N/A	0.31	0.02	No	No	Uncontrolled emissions < 100 tpy.
	1002	Carbon Canister, Fixed Volume Portable Tanks	S1489, S1490, and S1491		VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306									
S1491 - Fixed Volume Portable Tank #3	1001	Carbon Canister, Fixed Volume Portable Tanks	S1489, S1490, and S1491	Volatile Organic Compounds	VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306	N/A	No	64.2 (a)(3) Pre-Control < 100 TPY	N/A	0.31	0.02	No	No	Uncontrolled emissions < 100 tpy.
	1002	Carbon Canister, Fixed Volume Portable Tanks	S1489, S1490, and S1491		VOC: 95% control	BAAQMD 8-5-306 SIP 8-5-306									
S1511 - Hot Oil Heater #1 (F78)	1511	Hot Oil Heater #1 Selective Catalytic Reduction (SCR) System	S1511	Oxides of Nitrogen	NOx: 7 ppmvd, corrected to 3% O2, 3 hour average	BAAQMD Condition #23129, Part 12	N/A	Yes - CEMS	Yes	64.2(b)(1)(vi)	N/A	N/A	No	No	Exempt based upon continuous compliance demonstration using CEMS.
					NOx: 50 ppmvd (as NO2) corrected to 3% O2, 3 hour average	BAAQMD Condition #23129, Part 12a									
S1512 - Hot Oil Heater #2 (F79)	1512	Hot Oil Heater #2 Selective Catalytic Reduction System (SCR)	S1512	Oxides of Nitrogen	NOx: 7 ppmvd, corrected to 3% O2, 3 hour average	BAAQMD Condition #23129, Part 12	N/A	Yes - CEMS	Yes	64.2(b)(1)(vi)	N/A	N/A	No	No	Exempt based upon continuous compliance demonstration using CEMS.
					NOx: 50 ppmvd (as NO2) corrected to 3% O2, 3 hour average	BAAQMD Condition #23129, Part 12a									
S1517 Coker Flare	S1517	Coker Flare	See Note 1 for Table II-A1	Volatile Organic Compounds	POC: 98.5% destruction efficiency (mass basis)	BAAQMD Condition 23129, Part 52	Pilot = N/A Process vents connected to flare: Subject to MACT FFFF MPV emission limit. MACT FFFF originally proposed in 2002.	Yes - surrogates monitored under MACT standards	64.2 (a)(2) Does not use a Control Device	N/A	N/A	N/A	No	No	Evaluated the flare as an EU considering only the pilot combustion emissions generated by the flare itself, which has no control device. The process vents routed to the flare are considered separate EUs.
S1550 - Backup Steam Boiler No. 1	1550	Backup Boiler #1 SCR	S1550	Oxides of Nitrogen	NOx: 7 ppmvd @ 3% O2 except for: NOx: 30 ppmvd @ 3% O2 during startup and shutdown unabated operation	BAAQMD Condition 24491, Parts 4 & 7	N/A	No	64.2 (a)(3) Pre-Control < 100 TPY	N/A	42.51	N/A	No	No	Uncontrolled emissions < 100 tpy.

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Emission Unit	A-	Abatement Device	Sources subject to emission limit	Emissions Standards			CAM Exemptions				Emissions		Applicability Summary		
				Pollutant Controlled	Emission Limits	Basis of Limit	Date of CAA Sec. 111/112 (NSPS/MACT) Emissions Standard	Continuous Compliance Demonstration Method?	General Applicability	Applicable Exemption?	Uncontrolled (tpy)	Controlled (tpy)	PSEU Subject to CAM?	Large PSEU	Rationale/Comments
S1551 - Backup Steam Boiler No. 2	1551	Backup Boiler #2 SCR	S1551	Oxides of Nitrogen	NOx: 7 ppmvd @ 3% O2 except for: NOx: 30 ppmvd @ 3% O2 during startup and shutdown unabated operation	BAAQMD Condition 24491, Parts 4 & 7	N/A	No	64.2 (a)(3) Pre-Control < 100 TPY	N/A	42.51	N/A	No	No	Uncontrolled emissions < 100 tpy.
S1553 - Backup Steam Boiler No. 3	1553	Backup Boiler #3 SCR	S1553	Oxides of Nitrogen	NOx: 7 ppmvd @ 3% O2 except for: NOx: 30 ppmvd @ 3% O2 during startup and shutdown unabated operation	BAAQMD Condition 24491, Parts 4 & 7	N/A	No	64.2 (a)(3) Pre-Control < 100 TPY	N/A	42.51	N/A	No	No	Uncontrolled emissions < 100 tpy.
S1558 - Backup Steam Boiler No. 4	1558	Backup Boiler #4 SCR	S1558	Oxides of Nitrogen	NOx: 7 ppmvd @ 3% O2 except for: NOx: 30 ppmvd @ 3% O2 during startup and shutdown unabated operation	BAAQMD Condition 24491, Parts 4 & 7	N/A	No	64.2 (a)(3) Pre-Control < 100 TPY	N/A	42.51	N/A	No	No	Uncontrolled emissions < 100 tpy.
S1559 - Backup Steam Boiler No. 5	1559	Backup Boiler #5 SCR	S1559	Oxides of Nitrogen	NOx: 7 ppmvd @ 3% O2 except for: NOx: 30 ppmvd @ 3% O2 during startup and shutdown unabated operation	BAAQMD Condition 24491, Parts 4 & 7	N/A	No	64.2 (a)(3) Pre-Control < 100 TPY	N/A	42.51	N/A	No	No	Uncontrolled emissions < 100 tpy.
S1560 - Avon Wharf Berth No. 1A, Marine Bulk Plant	1560	Avon Wharf Berth 1A Vapor Recovery System	S1560	Volatile Organic Compounds	POC: 98.5% control, 20.000 tpy	BAAQMD Condition 26406, Parts 4 and 6	N/A	No	64.2 (a)(3) Pre-Control < 100 TPY	N/A	46.57	20	No	No	Uncontrolled emissions < 100 tpy.
					2 lb/1000 bbl loaded	BAAQMD 8-44-501	N/A	No	64.2 (a)(3) Pre-Control < 100 TPY	N/A					
S1600 - Sour Water Strippers	2002	H2S Adsorption Vessels	S1600	Hydrogen Sulfide	0 ppm	BAAQMD Condition 27586 Part 3	N/A	No	64.2 (a)(3) Pre-Control < 100 TPY	N/A	2.03	N/A	No	No	Uncontrolled emissions < 100 tpy.

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Emission Unit	A-	Abatement Device	Sources subject to emission limit	Pollutant Controlled	Emissions Standards		CAM Exemptions				Emissions		Applicability Summary		
					Emission Limits	Basis of Limit	Date of CAA Sec. 111/112 (NSPS/MACT) Emissions Standard	Continuous Compliance Demonstration Method?	General Applicability	Applicable Exemption?	Uncontrolled (tpy)	Controlled (tpy)	PSEU Subject to CAM?	Large PSEU	Rationale/Comments
	2000	Sour Water Stripper Thermal Oxidizer	S1600	Ammonia	0.11 lb/hr	BAAQMD Condition 27586 Part 4	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	Limit is not on a regulated air pollutant.
S32103 - Fugitive Components Compressor Seals and Pump Seals	14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S126, S127, S134, S137, S323, S532, S603, S613, S699, S714, S819, S1025, S32103	N/A	nuisance odors	BAAQMD 1-301	N/A	No	64.2 (a)(1) Not a Regulated Air Pollutant	N/A	N/A	N/A	No	No	Limit is not on a regulated air pollutant.
	14	Vapor Recovery System , to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S32103	Volatile Organic Compounds	VOC: 95% control	BAAQMD Condition # 11609, parts E1, E2	N/A	Yes - CEMS (Temperature Monitoring and Pump Flow Indicators)	Yes	64.2(b)(1)(vi)	N/A	N/A	No	No	Exempt based upon continuous compliance demonstration using CEMS.
	40	Thermal Oxidizer, Electric, Tract 6 Pump Seals	S32103		VOC: 95% control	BAAQMD Condition # 11609, part A1									
	42	Thermal Oxidizer, Electric, Hydrocracker Pump Seals	S32103		VOC: 95% control	BAAQMD Condition # 11609, part C1									
	43	Thermal Oxidizer, Electric, Tract 3 Pump Seals	S32103		VOC: 95% control	BAAQMD Condition # 11609, part D1									

APPENDIX D – ENGINEERING EVALUATIONS

Application 23138: Change in S-1005 Hydrogen Plant Source Test Frequency
Application 25718: S-830, S-977 and S-980 Grandfathered Limit Revisions
Application 26198: S-1025 Truck Rack Backpressure Monitoring for 8-33 Compliance
Application 26422: NOx Box Revision for S-920
Application 26522: S-1510 Delayed Coker Steam Ejectors
Application 26602: Slop Oil System Operation Change Piping
Application 27030: S-1517 Coker Flare Change in Conditions
Application 27054: S-904 No 6 Boiler Burner Replacement
Application 27309: S-973 and S-974 3HDS Furnace Startup/Shutdown Duration
Application 27395: S1550, S1551, S1553, S1558, S1559 Back-up Boilers
Application 27564: S-1411 Sulfuric Acid Plant Production Limit
Application 27791: S-963 Alkylolation Unit Gas Turbine Revised CAM Plan
Application 27799: Reformate Upgrade Project (Cancelled)
Application 27990: Avon Wharf MOTEMS Project
Application 28073: FCCU CO Boiler Low NOx Burners
Application 28445: S-963 Gas Turbine Motor Replacement
Application 28553: 4Gas Emergency Generator
Application 28916: Groundwater Remediation Change in Operation (AC Expired)
Application 29058: Add Supplemental Gas Equipment to Flares
Application 29278: Administrative Change in Conditions
Application 29401: New S802 FCCU Feed 'Biocrude' in Tank S709 (AC Expired)
Application 29416: Install Flare Gas H2S Treatment
Application 30642: Envent Contractor Equipment Change in Conditions
Application 30729: S-1401 SRU Change of Condition
Application 30768: Renewable Fuels Project
Application 30806: Facility-Wide Alternate NOx Compliance Plan
Application 30827: S-1599 Emergency Diesel Generator for Surge Pond #2 Pump
Application 31305: A-1584 Portable Thermal Oxidizer to Control Vapors
Application 31915: S-1601 Aqueous Ammonia Tank Exemption
Application 31991: S-646 and S-647 Renewable Propane Tank
Application 32029: Tanks Applicability for TV Permit