State of Utah

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Department of
Environmental Quality

Kimberly D. Shelley
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-IN156590010-24

September 4, 2024

Angela Brown
Tesoro Logistics Operations LLC
539 South Main Street
Findlay, OH 45840
kkharper@marathonpetroleum.com

Dear Ms. Brown:

Re: Intent to Approve: Modification to Approval Order DAQE-AN156590009-23 For the Refurbishing of Tank 509
Project Number: N156590010

The attached document is the Intent to Approve (ITA) for the above-referenced project. The ITA is subject to public review. Any comments received shall be considered before an Approval Order (AO) is issued. The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an AO. An invoice will follow upon issuance of the final AO.

Future correspondence on this ITA should include the engineer's name, **John Jenks,** as well as the DAQE number as shown on the upper right-hand corner of this letter. John Jenks, can be reached at (385) 306-6510 or jjenks@utah.gov, if you have any questions.

Sincerely,

Jon L. Black
Jon Black (Aug 29, 2024 17:46 MDT)

Jon L. Black, Manager
New Source Review Section

JLB:JJ:jg

cc: Salt Lake County Health Department
EPA Region 8

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

INTENT TO APPROVE
DAQE-IN156590010-24
Modification to Approval Order DAQE-AN156590009-23
For the Refurbishing of Tank 509

Prepared By
John Jenks, Engineer
(385) 306-6510
jjenks@utah.gov

Issued to
Tesoro Logistics Operations LLC - Truck Loading Rack and Remote Tank Farm

Issued On
September 4, 2024

Jon L. Black
Jon Black (Aug 29, 2024 17:46 MDT)

New Source Review Section Manager
Jon L. Black

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GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name
Tesoro Logistics Operations LLC

Source Name
Tesoro Logistics Operations LLC - Truck Loading Rack and Remote Tank Farm

Mailing Address
539 South Main Street
Findlay, OH 45840

Physical Address
475 West 900 North
Salt Lake City, UT 84103

Source Contact
Name: Tina Harper
Phone: (615) 499-1641
Email: kkharper@marathonpetroleum.com

UTM Coordinates
423,400 m Easting
4,515,950 m Northing
Datum NAD27
UTM Zone 12

SIC code 5171 (Petroleum Bulk Stations & Terminals)

SOURCE INFORMATION

General Description
Tesoro Logistics Operations LLC (TLO) operates a Remote Tank Farm (RTF) and Truck Loading Rack (TLR). The TLR is located on property adjacent to and south of the Tesoro Refinery, but is fenced and monitored so that authorized access is controlled independently from the refinery. The RTF is located approximately 1 mile northwest of the Tesoro Refinery.

The TLR is a fuel-loading facility for distribution of products produced by the Tesoro Salt Lake City Refinery. The facility includes five (5) truck transport load spots, each capable of delivering gasoline, jet fuel, and distillate products to tank trucks. Ethanol and other additives are blended in line with refined products during transfer to trucks. Runoff from the loading bays is routed through a catch basin and then to the oil-water separator (OWS). Oil separated from the runoff is routed from the OWS to the refinery's slop oil system, and the water phase is routed to the refinery's oily water sewer. A crude oil unloading facility is also operated at the TLR. Crude oil is unloaded from tank trucks and transferred directly to the Refinery; there is no storage of crude oil at the TLR.

The RTF receives crude oil via pipeline, which is stored in storage tanks before being sent to the Tesoro Refinery crude unit. The RTF also has bidirectional pipelines from the refinery and storage tanks, which are used to supplement gasoline and diesel storage capacity at the Tesoro Refinery. In addition, gasoline and diesel products are distributed to transportation pipelines from the RTF.

NSR Classification
Minor Modification at Major Source

Source Classification
Located in Northern Wasatch Front O3 NAA, Salt Lake City UT $PM_{2.5}$ NAA, Salt Lake County SO_2 NAA
Salt Lake County
Airs Source Size: A

Applicable Federal Standards
NSPS (Part 60), A: General Provisions
NSPS (Part 60), Kb: Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984
NSPS (Part 60), XX: Standards of Performance for Bulk Gasoline Terminals
NSPS (Part 60), GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006
NSPS (Part 60), QQQ: Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems
NESHAP (Part 61), A: General Provisions
NESHAP (Part 61), M: National Emission Standard for Asbestos
NESHAP (Part 61), FF: National Emission Standard for Benzene Waste Operations
MACT (Part 63), A: General Provisions
MACT (Part 63), CC: National Emission Standards for Hazardous Air Pollutants From Petroleum Refineries
MACT (Part 63), EEEE: National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)
Title V (Part 70) Major Source

Project Description
TLO submitted an NOI for the approval of a denatured ethanol storage tank. The tank (Tank 509) is currently an out-of-service tank located at the Salt Lake City TLR. TLO is a subsidiary of Marathon Petroleum Corporation (Marathon). This project does not involve Tesoro Refining & Marketing Company LLC's Salt Lake City Refinery, which is also a fully owned subsidiary of Marathon. Tank 509 will be retrofitted with an internal floating roof to control emissions from denatured ethanol storage. TLO has evaluated the Project impacts to other portions of the terminal and refinery, and has determined that no other emission units are affected by the Project. This project will not result in additional gasoline products being loaded at TLR. As the total expected emission increase from the project is approximately 1 tpy of VOC, this is a minor modification.

SUMMARY OF EMISSIONS

The emissions listed below are an estimate of the total potential emissions from the source. Some rounding of emissions is possible.

Criteria Pollutant	Change (TPY)	Total (TPY)
CO_2 Equivalent	0	84.49
Particulate Matter - PM_{10}	0	3.38
Particulate Matter - $PM_{2.5}$	0	0.81
Volatile Organic Compounds	1.01	168.64

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
Total HAPs (CAS #THAPS)	3	12683
	Change (TPY)	**Total (TPY)**
Total HAPs	0	6.34

PUBLIC NOTICE STATEMENT

The NOI for the above-referenced project has been evaluated and has been found to be consistent with the requirements of UAC R307. Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an AO by the Director.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notification of the intent to approve will be published in the Salt Lake Tribune and Deseret News on September 8, 2024. During the public comment period the proposal and the evaluation of its impact on air quality will be available for the public to review and provide comment. If anyone so requests a public hearing within 15 days of publication, it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated. The proposed conditions of the AO may be changed as a result of the comments received.

SECTION I: GENERAL PROVISIONS

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

I.1	All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
I.2	The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
I.3	Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]

I.4	All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Director or Director's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of five (5) years. [R307-415-6a]
I.5	The owner/operator shall comply with UAC R307-107. General Requirements: Breakdowns. [R307-107]
I.6	The owner/operator shall comply with UAC R307-150 Series. Emission Inventories. [R307-150]
I.7	At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]

SECTION II: PERMITTED EQUIPMENT

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

II.A THE APPROVED EQUIPMENT

II.A.1	**Truck Loading Rack and Remote Tank Farm** Includes northwest tank farm
II.A.2	**Tank 41: Storage vessel - chemicals** Horizontal storage tank
II.A.3	**Tank 41T: Storage vessel - chemicals** Horizontal storage tank
II.A.4	**Tank 42: Storage vessel - chemicals** Horizontal storage tank
II.A.5	**Tank 401: Storage vessel - petroleum liquids** Storage tank with fixed roof
II.A.6	**Tank 402: Storage vessel - petroleum liquids** Storage tank with internal floating roof and primary seals
II.A.7	**Tank 405: Storage vessel - petroleum liquids** Storage tank with external floating roof, primary and secondary seals
II.A.8	**Tank 411: Storage vessel - petroleum liquids** Storage tank with fixed roof

II.A.9	**Tank 412: Storage vessel - petroleum liquids** Storage tank with internal floating roof and primary seals
II.A.10	**Tank 413: Storage vessel - petroleum liquids** Storage tank with internal floating roof and primary seals
II.A.11	**Tank 414: Storage vessel - petroleum liquids** Storage tank with internal floating roof and primary seals
II.A.12	**Tank 421: Storage vessel - petroleum liquids** Storage tank with external floating roof, primary and secondary seals (includes emission control sleeves on both the slotted guide poles and floating roof leg socks)
II.A.13	**Tank 422: Storage vessel - petroleum liquids** Storage tank with external floating roof, primary and secondary seals (includes emission control sleeves on both the slotted guide poles and floating roof leg socks)
II.A.14	**Tank 423: Storage vessel - petroleum liquids** Storage tank with external floating roof, primary and secondary seals
II.A.15	**Tank 424: Storage vessel - petroleum liquids** Storage tank with external floating roof, primary and secondary seals
II.A.16	**Tank 431: Storage vessel - petroleum liquids** Storage tank with external floating roof, primary and secondary seals (includes emission control sleeves on both the slotted guide poles and floating roof leg socks)
II.A.17	**Tank 432: Storage vessel - petroleum liquids** Storage tank with external floating roof, primary and secondary seals (includes emission control sleeves on both the slotted guide poles and floating roof leg socks)
II.A.18	**Tank 502** Horizontal storage tank
II.A.19	**Tank 503: Storage vessel - petroleum liquids** Storage tank with internal floating roof, primary and secondary seals
II.A.20	**Tank 504: Storage vessel - petroleum liquids** Storage tank with internal floating roof, primary and secondary seals
II.A.21	**Tank 505: Storage vessel - chemicals** Horizontal storage tank
II.A.22	**Tank 506: Storage vessel - chemicals** Horizontal storage tank
II.A.23	**Tank 509: Storage vessel - denatured ethanol** Storage tank with internal floating roof primary and secondary seals
II.A.24	**Tank 510** Horizontal storage tank
II.A.25	**Piping / Associated Equipment** Piping tie-in to the UNEV pipeline.

II.A.26	**Oily Water Separator** 60 gallons per minute (GPM) Includes: carbon bed control system
II.A.27	**Miscellaneous - Diesel Filtration System** Three (3), two-vessel diesel filter trains
II.A.28	**Truck Loading Rack** VOC emissions controlled by vapor collection and recovery system (VRU A and VRU B)
II.A.29	**WCUF** Waxy crude unloading facility consisting of: 5 paved truck unloading lanes covered by canopy Associated piping

SECTION II: SPECIAL PROVISIONS

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	**Conditions on Northwest Tank Farm and Truck Loading Rack**
II.B.1.a	For the primary seals, the accumulated area of gaps between the tank wall and the metallic shoe seal or the liquid-mounted seal shall not exceed ten (10) square inches per foot of tank diameter. The width of any portion of any gap shall not exceed one and a half (1½) inches. This condition applies to Tanks 405, 421, 422, 423, 424, 431, and 432. [40 CFR 60 Subpart Kb]
II.B.1.b	For the secondary seals, the accumulated area of gaps between the tank wall and the secondary seal shall not exceed one square inch per foot of tank diameter, and the width of any portion of any gap shall not exceed one-half inch. The secondary seals shall be properly installed and maintained according to the manufacturer's recommendations. [R307-327]
II.B.1.c	The owner/operator shall comply with all applicable parts of R307-327 - Petroleum Liquid Storage. [R307-327]
II.B.1.d	The additives tank #502 shall be limited to thirty (30) turnovers per rolling 12-month period. [R307-401-8(1)(a)]
II.B.1.e	The additives tank #505 shall be limited to twelve (12) turnovers per rolling 12-month period. [R307-401-8(1)(a)]
II.B.1.f	The additives tank #506 shall be limited to seven (7) turnovers per rolling 12-month period. [R307-401-8(1)(a)]
II.B.1.g	The additives tank #510 shall be limited to thirty (30) turnovers per rolling 12-month period. [R307-401-8(1)(a)]

II.B.1.h	The following production limits shall not be exceeded: A. 120,000 gallons of additives throughput for storage tank #502 per rolling 12-month period. B. 72,000 gallons of additives throughput for storage tank #505 per rolling 12-month period. C. 42,000 gallons of additives throughput for storage tank #506 per rolling 12-month period. D. 240,000 gallons of additives throughput for storage tank #510 per rolling 12-month period. Compliance with the annual limitations shall be determined on a rolling 12-month total. Within 20 days of the beginning of each calendar month, the owner or operator shall calculate a new monthly total. The monthly total shall be added to the data from the previous 11 months. Records of the above limitations shall be kept for all periods when the plant is in operation. Records of the above limitations shall be made available to the Director or the Director's representative upon request and shall include a period of two (2) years ending with the date of the request. The amount of additives added to each of these four (4) tanks shall be recorded in a log. [R307-401-8(1)(a)]
II.B.1.i	Emissions to the atmosphere from the carbon adsorption vapor collection and processing systems due to the loading of gasoline cargo tanks shall not exceed an average of 10 milligrams of volatile organic compounds per liter of gasoline loaded over a six-hour period. The concentration of volatile organic compounds in the exhaust of the vapor collection system shall be measured by a monitoring device approved by the Director. [R307-401-8(1)(a)]
II.B.1.j	Stack testing shall be performed as specified in 40 CFR 63, Subpart CC, National Emission Standard for Hazardous Air Pollutants from Petroleum Refineries, Section 642(d). This regulation addresses initial performance tests and initial compliance determinations for owners and operators subject to Subpart CC. The owner or operator shall provide a notification to the Director of any test required by this AO at least 45 days before the test. A pretest conference shall be held if directed by the Director. It shall be held at least 30 days before the test and include representation from the owner or operator, the tester, and the Director. [R307-150]
II.B.1.k	The owner or operator shall install, calibrate, maintain, and operate a monitoring device for the concentration of organic compounds in the exhaust air stream of the vapor collection system. The monitoring device must be located such that an inspector or operator can safely and easily read the output at any time. The accuracy, calibration method and calibration frequency of the monitoring device shall be approved by the Director. [R307-150]
II.B.1.l	The owner or operator shall install an alarm system to indicate malfunctions of vapor collection system. The alarm system shall be installed simultaneously with the monitoring device for the concentration of organic compounds in the exhaust air stream of the vapor collection system. The design of the alarm system shall be approved by the Director. [R307-150]
II.B.1.m	The Truck Loading Rack and Northwest Tank Farm are contiguous to the refinery and are considered to be part of the same source for inventory and Title V purposes. [R307-415]

PERMIT HISTORY

This Approval Order shall supersede (if a modification) or will be based on the following documents:

Supersedes	AO DAQE-AN156590009-23 dated June 20, 2023
Is Derived From	Source Submitted NOI dated May 31, 2024

ACRONYMS

The following lists commonly used acronyms and associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by Environmental Protection Agency to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CMS	Continuous monitoring system
CO	Carbon monoxide
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent - Title 40 of the Code of Federal Regulations Part 98, Subpart A, Table A-1
COM	Continuous opacity monitor
DAQ/UDAQ	Division of Air Quality
DAQE	This is a document tracking code for internal Division of Air Quality use
EPA	Environmental Protection Agency
FDCP	Fugitive dust control plan
GHG	Greenhouse Gas(es) - Title 40 of the Code of Federal Regulations 52.21 (b)(49)(i)
GWP	Global Warming Potential - Title 40 of the Code of Federal Regulations Part 86.1818-12(a)
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
LB/YR	Pounds per year
MACT	Maximum Achievable Control Technology
MMBTU	Million British Thermal Units
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO_x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM_{10}	Particulate matter less than 10 microns in size
$PM_{2.5}$	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO_2	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
TPY	Tons per year
UAC	Utah Administrative Code
VOC	Volatile organic compounds