



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

November 13, 2013

Mr. Greg W. Moore
Marathon Petroleum Company LP – Belton Terminal
P.O. Box 488
Belton, SC 29627-0488

Re: Modification to Attachment A for the General Conditional Major Operating Permit for Petroleum Distribution Operations No. GCM-0200-0052

Dear Mr. Moore:

Enclosed are Attachments A and B to GCM-0200-0052. This modified permit has the same expiration date as the previous General Conditional Major Operating Permit and will remain valid through September 30, 2022. This modified permit is being issued to incorporate changes into your existing Permit as described in the enclosed Record of Revisions.

Please be advised that this facility's periodic reporting period is not affected by this modification. In addition, there have been no changes to the General Conditional Major for Petroleum Distribution Operations. It has not been included, and you should retain the copy you were previously issued.

It is important for you and/or an authorized representative responsible for the overall operation of this facility to read this issued permit carefully and to understand all requirements. If any errors or omissions are discovered, please notify Hetal Patel of my staff via e-mail at patelhy@dhec.sc.gov, or call 803-898-3850 immediately.

Sincerely,

Elizabeth J. Basil
Director, Engineering Services Division
Bureau of Air Quality

EJB: HYP: kal

Enclosure

cc: Permit File: 0200-0052

ec: Chris McCluskey, BEHS
Dennis Camit, BAQ
Connie Turner, BAQ

ATTACHMENT A

Facility Information

Marathon Petroleum Company LP

GCM-0200-0052

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D - EQUIPMENT INSTALLED

| Equip ID | Exempt Yes / No | Equipment Description | Maximum Size / Maximum Throughput | Fuels Used/ Materials Handled | Installation Date/ Modification Date | Emission Point ID |
|-----------------|------------------------|---|--|--------------------------------------|--|--------------------------|
| 80-3 | No | Domed internal floating roof storage tank (40 CFR 63 Subparts A and BBBBBB when in gasoline service) | 77,492 barrel (3,254,664 gallons) | Gasoline/Fuel oil* | 1959 | 80-3 |
| 20-5 | No | Domed internal floating roof storage tank (40 CFR 63 Subparts A and BBBBBB when in gasoline service) | 18,784 barrel (788,928 gallons) | Gasoline/Fuel oil* | 1955 | 20-5 |
| 35-1 | No | Domed internal floating roof storage tank (40 CFR 63 Subparts A and BBBBBB when in gasoline service) | 33,286 barrel (1,398,012 gallons) | Gasoline/Fuel oil* | 1955 | 35-1 |
| 80-8 | No | Domed internal floating roof storage tank (40 CFR 63 Subparts A and BBBBBB when in gasoline service) | 78,808 barrel (3,309,936 gallons) | Gasoline/Fuel oil* | 1959 | 80-8 |
| 35-6 | No | Domed internal floating roof storage tank (40 CFR 63 Subparts A and BBBBBB when in gasoline service) | 32,129 barrel (1,349,418 gallons) | Gasoline/Fuel oil* | 1955 | 35-6 |
| LR1/LR2/LR3 | No | Loading Rack 1, 2, 3 (40 CFR 60 Subparts A and XX when in gasoline service) (40 CFR 63 Subparts A and BBBBBB when in gasoline service) | --- | Gasoline/Fuel oil* | 2002/1955/1955 LR2, LR3 Modified:1981/2001 | VRU2/VCD |
| 35-2 | Yes | Vertical fixed roof storage tank | 34,050 barrel (1,430,100 gallons) | Fuel oil* | 1955 | 35-2 |
| 80-9 | Yes | Vertical fixed roof storage tank | 80,981 barrel (3,401,202 gallons) | Fuel oil* | 2007 | 80-9 |
| A | Yes | Oil/Water separator | --- | --- | 1993 | N/A |
| AA-3-2 | Yes | Horizontal fixed roof storage tank | 2,730 gallons | Additive | 1997 | N/A |
| AA-10-1 | Yes | Vertical fixed roof storage tank | 9,198 gallons | Additive | 1997 | N/A |

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Facility Information

Marathon Petroleum Company LP

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D - EQUIPMENT INSTALLED

| Equip ID | Exempt Yes / No | Equipment Description | Maximum Size / Maximum Throughput | Fuels Used/ Materials Handled | Installation Date/ Modification Date | Emission Point ID |
|----------|-----------------------|----------------------------------|--|-------------------------------------|---|----------------------|
| WA 12-1 | Yes | Wastewater tank | --- | --- | 1997 | N/A |
| WA 12-2 | Yes | Wastewater tank | --- | --- | 1997 | N/A |
| T-4 | Yes | Vertical fixed roof storage tank | 16,884 gallons | Transmix | 1976 | N/A |
| AA-4-4 | Yes | Horizontal fixed roof tank | 3,444 gallons | Additive | 2002 | N/A |
| AA-8-6 | Yes | Vertical fixed roof tank | 7,182 gallons | Additive | 2002 | N/A |
| AA-8-7 | Yes | Vertical fixed roof tank | 8,273 gallons | Additive | 2005 | N/A |
| AA-15-8 | Yes | Horizontal storage tank | 1,500 gallons | Red dye additive | 2007 | N/A |

*Includes other products with a vapor pressure less than that of gasoline such as diesel, kerosene, ethanol, etc.

E - CONTROL DEVICES

| Control Device ID | Equipment ID | Control Device Description | Installation Date/ Modification Date | Pollutant(s) Controlled |
|-------------------|--------------|--|---|----------------------------|
| VRU2 | LR1/LR2/LR3 | Vapor Recovery Unit (40 CFR 60 Subparts A and XX and 40 CFR 63, Subparts A and BBBBBB) | 2001 | VOC/HAP |
| VCD | LR1/LR2/LR3 | Portable Vapor Control Devices (1 open & 3 enclosed flares) (40 CFR 60 Subparts A and XX and 40 CFR 63, Subparts A and BBBBBB) | N/A | VOC/HAP |

F - CONDITIONS

| Condition Number | Conditions |
|------------------|---|
| F.1 | <p>Equipment/Control Device ID: VCD (All four combined)</p> <p>The portable VCD will be utilized for back-up only. The portable VCD will not operate over throughput of 2,000,000 gallons of gasoline loaded/day and 243,000,000 gallons gasoline loaded/year per 12 month rolling sum. Any increase in allowable emission rate must be approved by the Department and may require re-modeling and source testing. A source test plan shall be submitted for approval at least 45 days prior to any proposed test date. Notification of test date for a pre-approved source test must be submitted at least two (2) weeks prior to any source test so that a BAQ representative may be present. Source test methodology must be approved by the BAQ. Source test shall be conducted while the facility is operating under permitted conditions, at its expected maximum production rate.</p> |
| F.2 | <p>Equipment/Control Device ID: VCD</p> <p>When the portable VCD is utilized, the flare shall operate at all times when emissions may be vented to it. The owner/operator shall install, operate and maintain a flare monitor. All monitoring gauges shall be readily accessible for verification by operating personnel and Department personnel (i.e., on ground level or easily accessible roof level). VCD monitoring data shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to Department personnel upon request. The readings shall be maintained in logs, along with</p> |

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F - CONDITIONS

| Condition Number | Conditions |
|-------------------------|---|
| | <p>any corrective action taken when deviations occur. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place.</p> <p>The owner/operator shall record the daily gasoline throughput and hours of operation when the VCD is in operation. The owner/operator shall calculate the 12 month rolling sum of gasoline through put and hours of operation shall be calculated monthly. This information shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to Department personnel upon request. The written notification of an exceedances will include hours of operation, throughput of fuel during the operating duration, and expected length of time the unit may stay in operation. Semiannual reports of these incidences shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 days after the end of the reporting period. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring VCD performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.1 Section II.</p> |

ATTACHMENT B

Modeled Emission Rates

Marathon Petroleum Company LP

GCM-0200-0052

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| STANDARD NO. 2 and 7 - EXEMPTED AAQS EMISSION RATES (LBS/HR) | | | | | |
|---|-----|------------------|-----------------|----------------------|----------------------|
| STACK ID | TSP | PM ₁₀ | SO ₂ | NO ₂ | CO |
| Portable Combustor Emissions | -- | -- | -- | 0.927 ⁽¹⁾ | 6.954 ⁽²⁾ |
| FACILITY TOTAL | -- | -- | -- | 0.927 | 6.954 |

(1) Emission rate is based on a max annual throughput of 243,000,000 gallons of gasoline per year.
(2) Emission rate is based on a max daily throughput of 2,000,000 gallons per day.

| STANDARD NO. 8 – TOXIC AIR POLLUTANTS LEVEL I DE MINIMIS ANALYSIS | | | | |
|--|------------|-------------------------|----------------------|---------------|
| POLLUTANT | CAS NUMBER | EMISSION RATE (LBS/DAY) | DE MINIMIS (LBS/DAY) | PASS (Y or N) |
| Ethyl Benzene | 100-41-4 | 0.52 | 52.2 | Yes |
| Hexane | 110-54-3 | 8.17 | 10.8 | Yes |
| Toluene | 108-88-3 | 6.68 | 24.000 | Yes |
| 2,2,4-Trimethylpentane | 540-84-1 | 4.09 | 105.000 | Yes |
| Xylenes | 1330-20-7 | 2.65 | 52.2 | Yes |

| STANDARD NO. 8 - MODELED AIR TOXIC EMISSION RATES (LBS/HR) | | | | |
|--|--------------------|--|--|--|
| STACK ID | Benzene 71-43-2 | | | |
| VRU-Vapor Recovery Unit | 0.12 | | | |
| Tank AA 3-2 | 0.0001 | | | |
| Tank AA 8-6 | 0.0004 | | | |
| Tank AA 10-1 | 0.0003 | | | |
| Oil/Water Separator | 0.0008 | | | |
| ID 07-Tank Truck Fugitives (Point Source)-Loading Rack Equipment Leaks | 0.039 | | | |
| Fugitives-Tanks Equipment Leaks (AA8-7, AA4-4, 80-9) | 0.0008 | | | |
| Truck Losses | 0.04 | | | |
| Tank 20-5 | 0.002 | | | |
| Tank 35-1 | 0.001 | | | |
| Tank 35-2 | 0.00005 | | | |
| Tank 35-6 | 0.0114 | | | |
| Tank 80-3 | 0.001 | | | |
| Tank 80-8 | 0.0071 | | | |

ATTACHMENT B

Modeled Emission Rates

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| STANDARD NO. 8 - MODELED AIR TOXIC EMISSION RATES (LBS/HR) | | | | |
|---|----------------|--|--|--|
| STACK ID | Benzene | | | |
| Fixed Roof-T4 | 0.0012 | | | |
| Water Accumulation Tanks (WA12-1, WA 12-2) | 0.00008 | | | |
| FACILITY TOTAL | 0.22523 | | | |