John Bel Edwards Governor



Roger W. Gingles Secretary

# State of Louisiana

# DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL SERVICES

Certified Mail No. 9589 0710 5270 0478 1446 61

Activity No.: PER20220006 Agency Interest No. 194165

Mr. Josh Wiggins VP of Manufacturing & Plant Manager Koch Methanol St. James, LLC 5181 Wildcat St. St. James, LA 70086

#### RE: Part 70 Operating Permit Significant Modification Koch Methanol St. James, LLC - Koch Methanol Facility St. James, St. James Parish, Louisiana

Dear Mr. Wiggins:

This is to inform you that the permit significant modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the <u>2016</u> of <u>December</u>, 2028, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this 20th day of December, 2023.

Permit No.: 2560-00295-V6

Sincerely,

los 1/1. Bliss M. Higgins

Assistant Secretary BMH:alr c: EPA Region VI

#### Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

#### I. Background

Koch Methanol St James, LLC (Koch) owns and operates the Koch Methanol Plant (KMe Plant) and the adjacent Koch Methanol Terminal (KMe Terminal), collectively known as the KMe Facility, located in St. James, St. James Parish, Louisiana. The KMe Plant and the KMe Terminal constitute a single major stationary source under the Part 70 Operating Permits Program. The KMe Plant previously operated under Title V Permit No. 2560-00295-V5, issued on February 23, 2023, and the KMe Terminal previously operated under Title V Permit No. 3169-V3, issued on August 11, 2022.

#### II. Origin

A permit application was submitted by Koch Methanol St. James, LLC on November 2, 2022, requesting a Part 70 operating permit significant modification. Additional information dated February 1, February 8, March 20, March 22, March 28, May 2, and June 19, 2023, was also received.

#### III. Description

Koch requested to increase the KMe Plant's design production rate to approximately 6,200 metric tons per day (MTPD) of refined methanol. Methanol is produced using the licensed Lurgi MegaMethanol® technology. The methanol production process consists of three main steps: synthesis gas (syngas) production, crude methanol synthesis, and methanol distillation.

The Lurgi MegaMethanol® process is an advanced, highly efficient technology for converting natural gas to methanol. The technology's main processing features include oxygen-blown natural gas reforming in combination with steam reforming, two-step methanol synthesis in water and gas-cooled reactors, and the capability to recycle hydrogen to adjust synthesis gas composition.

#### Syngas Production

Syngas production by the combined reforming method starts with desulfurization and prereforming of natural gas feedstock. After pre-reforming, the natural gas feedstock is split into two branches, with one branch of the gas stream routed to the steam methane reformer (SMR) unit. The SMR uses a catalyst in the presence of steam to reform methane into a raw syngas stream, composed primarily of hydrogen, carbon monoxide, and carbon dioxide. The SMR contains two independent fuel/burner systems comprised of the SMR furnace and

#### Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

auxiliary burner firing in the SMR exhaust duct. The SMR auxiliary burners provide additional heat to the SMR exhaust stream, similar to duct burners, to facilitate heat recovery.

The other branch of the pre-reformed natural gas stream bypasses the SMR and is mixed with the raw syngas exiting the SMR unit. The combined stream is then routed to the secondary reforming process, the Autothermal Reformer (ATR), where oxygen is introduced as the reforming agent. The syngas stream leaving the secondary reforming process contains water as a by-product of the reforming process. Heat is recovered from this stream through various process heaters, and the water is knocked out as process condensate. This condensate contains traces of dissolved gases and ammonia, which are stripped off in the Process Condensate Stripper and sent to the SMR unit for destruction. The dry syngas is then routed to the methanol synthesis unit.

#### Methanol Synthesis

The methanol synthesis process utilizes two synthesis steps in series: twin water-cooled reactors followed by a gas-cooled reactor. The isothermal, water-cooled reactors use a highly reactive catalyst to partially convert the syngas to methanol. The heat of reaction from this process is drawn off by water cooling and is recovered to produce steam (which can be used to generate electricity via a condensing turbine, depending on the energy balance within the facility). The partially converted process gas stream is routed to the gas-cooled methanol reactor, where it is further reacted while passing over a catalyst bed.

The crude methanol is cooled and condensed, and a purge gas stream is separated before the liquid crude methanol is routed to the methanol distillation unit. Hydrogen can be separated from the purge gas; the hydrogen-rich stream contains minor amounts of non-reactive components in the form of nitrogen and any remaining methane. This stream is used for pre-reformer and synthesis loop catalyst reduction and can also be recycled to methanol synthesis and for desulfurization. The remaining purge gas is combusted as fuel gas in the SMR and Boiler. The crude methanol is routed to the methanol distillation unit.

#### Methanol Distillation

The crude methanol contains impurities together with unconverted reactants and traces of dissolved gases from the methanol synthesis stage. The stream is degassed in an expansion vessel, which rids the crude methanol stream of much of the dissolved  $N_2$ ,  $CO_2$ , CO,  $H_2$ , and methane. This expansion gas stream is combusted in the SMR as fuel. Volatile light ends and the remainder of the dissolved gases are removed in the pre-run column, which separates them into an overhead vapor stream. The overhead vapor stream, called distillation off gas,

#### Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

is combusted as fuel in the SMR. The less volatile, higher boiling components are further separated in two methanol columns in series. The first of the methanol columns operates at high pressure, while the second operates at atmospheric pressure. The overhead stream from the high-pressure column is used to heat the bottoms of the atmospheric pressure column. The overhead streams from both columns are condensed and refluxed back to their respective columns, with some portion of each split off as the product methanol. Product grade methanol exiting the distillation process is sent to TK-04002A/B storage tanks prior to further storage and distribution at the KMe Terminal. An additional storage tank containing raw methanol (TK-04001) is used to reprocess methanol that does not meet product specifications and to process other methanol-containing streams. A chiller/scrubber system controls emissions from the raw methanol storage tank and two product grade storage tanks. Methanol from the scrubber water is recovered by pumping the scrubber water to the expansion vessel or directly to the raw methanol tank for reprocessing.

#### KMe Terminal

The purpose of the KMe Terminal is to store and transfer methanol product. The facility consists of four internal floating roof methanol product tanks (TK-26-202A, TK-26-202B, TK-26-202C, and TK-26-202D); methanol truck and rail loading operations; and infrastructure for transferring methanol to and from marine loading operations at the St. James Terminal, which is located adjacent to the site and owned and operated by Plains Marketing LP.

#### **Permit Modifications**

#### KMe Facility Consolidation

With this permit modification, Koch requested to incorporate all permitted KMe Terminal sources from Permit No. 3169-V3 (AI 213599) into the KMe Plant's Title V permit in order to consolidate the KMe Terminal and the KMe Plant into a single Title V permit for the KMe Facility. Some sources previously permitted in the KMe Terminal Title V permit shared a TEMPO ID with the permitted KMe Plant sources. Koch requested that all of the KMe Terminal sources be assigned new TEMPO IDs. Koch also requested that "Fugitive Emissions – Tanks and Terminals" from the KMe Terminal's Title V permit be combined with "Fugitive Emissions – Process Units" under one fugitive emissions source for the KMe Facility.

#### KMe Optimization Project

The KMe Optimization Project ("the Project") consists of a number of activities, including a raw material feed upgrade, improvements to plant cooling capability, and other equipment

#### Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

upgrades with the collective primary goal of increasing utilization of existing assets and methanol production. The Project is intended to achieve a 25% increase in the KMe Facility's design production rate from approximately 4,950 MTPD to 6,200 MTPD of refined methanol.

The raw material feed upgrade includes constructing ethane gas piping, a vaporizer, and associated equipment to inject ethane into the process natural gas feed to the SMR (EQT0001). Ethane will be brought into the facility from an existing third-party ethane gas pipeline. Piping, a metering skid, and associated piping components will be constructed, owned, and operated by the third party. KMe will connect to the third-party metering skid at a point of demarcation within the KMe Facility's property. A shell and tube exchanger using low pressure steam, owned and operated by KMe, will be used to vaporize the ethane prior to injection into the process natural gas feed line to the SMR.

To meet the additional cooling needs anticipated for the Project, KMe plans to make upgrades to exiting fin fan coolers as well as the existing cooling tower (EQT0007). This work may involve upgrades to or replacement of the fin fans for improved cooling capability at increased production rates. The cooling tower upgrades are anticipated to include addition of a new cooling tower cell and new or upgraded pumps for increased cooling tower circulation rates above current capability.

A modification to the Flare (EQT0003) design may occur as a result of the Project. The flare will either remain a non-assisted flare or may be modified to incorporate a steam-assisted design.

Other equipment upgrades, such as changes to or addition of piping fugitive components (FUG0001) for process safety valve upgrades, improved process monitoring, or new or changed piping configurations or process flows may be made as part of the Project. Zoloscan technology utilizing advanced combustion monitoring may be installed on the SMR. Additionally, process equipment such as heat exchangers or burners may be replaced, physically modified, or added to accommodate the increased production rates.

#### SMR, Boiler, PCS Vent CAP (EPN SMR BLR PCS CAP, GRP0002)

The SMR, Boiler, PCS Vent CAP accounts for the average hourly and the annual emissions from the Steam Methane Reformer (Emission Point Number (EPN) SMR, EQT0001); Auxiliary Boiler (EPN BLR, EQT0002); and Process Condensate Stripper Vent (EPN PCSVENT, RLP0024). Koch requested to make the following changes to the SMR, Boiler, PCS Vent CAP:

#### Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

- Increase the annual average and maximum firing rates of the SMR, which includes the combined firing of the SMR primary burners and auxiliary burners, to 1,725 MMBtu/hr and 1,794 MMBtu/hr, respectively;
- Increase the boiler's maximum firing rate from 997 MMBtu/hr to 1,100 MMBtu/hr;
- Revise the NO<sub>X</sub>, CO, and VOC emission limits to represent the increased SMR and boiler firing rates and to account for emission control catalyst end-of-run performance at the higher firing rates, taking into account the results of a stack test performed near start-of-run (i.e., close to the date when the SCR and VOC/CO emission control catalysts were newly installed) for the SMR and boiler;
- Increase the maximum hourly and annual permitted ammonia emissions for the SMR and maximum hourly ammonia emissions for the boiler to account for additional ammonia injection which may be needed to meet the required NO<sub>X</sub> limits at the end of the SCR catalyst run;
- Revise the methanol emission limits for the SMR and boiler based on an anticipated methanol mass flow rate considering the process stream methanol content and 99.9% destruction efficiency;
- Increase emission limits for the Process Condensate Stripper Vent to account for the increase in facility-wide methanol production; and
- Revise average hourly emission rates for the SMR, Boiler, PCS Vent CAP (EPN SMR BLR PCS CAP, GRP0002) to be based on 8,760 hours/year.

*Other equipment emission limit changes resulting from the Project and/or updated calculations:* 

- Revise the emission limits for the Plant Flare (EPN FLR, EQT0003) to account for the increase in the flare load as well as increased supplemental natural gas that would be required to meet the net heating value requirements under the applicable regulations in the event a steam-assisted flare design is needed;
- Revise the Cooling Water Tower (EPN CWT, EQT0007) emissions basis, including the circulating rate, the drift factor, the total dissolved solids (TDS) concentration, and the VOC calculation methodology, and add CO and GHG emissions;

#### Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

- Combine the fugitive emissions from both of the permits into a single emission source, Fugitive Emissions KMe Facility (EPN FUG, FUG0001);
- Revise the fugitive emissions to account for added fugitive components related to ethane gas piping, equipment associated with that work, and other piping changes associated with the Project;
- Revise emissions for the Methanol Scrubber (EPN D-04001, EMS0001). The Methanol Scrubber controls emissions from the Raw Methanol Tank (EPN TK-04001, EQT0008) and two (2) Pure Methanol Intermediate Tanks (EPN TK-04002A, EQT0013 and EPN TK-04002B, EQT0017). Emission limit increases are due to the increase in facility-wide methanol production; updates to the tanks' physical parameters to reflect as-built design; the use of updated AP-42 Section 7.1 "Organic Liquid Storage Tanks" (June 2020) emission factors, equations, and algorithms; and updated calculations for the Raw Methanol Tank (EPN TK-04001, EQT0008) to account for emissions from a methanol stream that is currently routed to the tank from an expansion vessel;
- Increase the throughput of the Ammonia Tank (EPN TK-NH3, EQT0014) to 440,000 gal/yr of aqueous ammonia. The additional ammonia is required for the SCR to handle the increase in SMR and Auxiliary Boiler firing rates. Emissions were also updated due to the updated AP-42 Section 7.1 emission factors;
- Update the emissions for Wastewater Treatment (EPN WWT, FUG0002) to reflect a 25% increase in wastewater flow associated with the production rate increase;
- Increase emission limits of Condensate Trap Vents (EPN CTVENT, RLP0025) to account for the increase in facility-wide methanol production;
- Revise the emissions limits for the Methanol Transfer and Product Tank CAP (EPN MTPCAP, GRP0001). This emission cap accounts for emissions from the four (4) internal floating roof methanol product tanks (EPNs TK-26-202A, TK-26-202B, TK-26-202C, and TK-26-202D), including tank cleanings and tank landings, as well as emissions from truck and railcar loading operations (EPN RT LOAD). A Vapor Control Unit (VCU) is used to control VOC emissions from railcar and truck loading operations.

Due to the increase in facility-wide methanol production, the emission limits for the emissions sources and activities included in the MTPCAP will increase as a result of an increase in methanol throughput through the tanks, trucks, and railcars. Additionally, the tanks' physical parameters were updated to reflect as-built design; emissions

#### Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

calculations were revised to utilize the updated AP- 42 Section 7.1, "Organic Liquid Storage Tanks" (June 2020) emission factors, equations, and algorithms; the VCU's enrichment gas average flow rate was adjusted to account for both current operations and increased production; and the NOx emission factor was updated to reflect the vendor guarantee;

- Update the emissions for the General Condition XVII Activity for the Portable Thermal Oxidizer (GCXVII-15), which controls emissions during tank cleanings, to account for the cleaning of the internal floating roof tanks located at the KMe Terminal;
- Update the emissions for the General Condition XVII Activity for Railcar Cleanings (GCXVII-31) to account for an increase in methanol being loaded out via railcars;
- Update the maximum hourly emissions for the Admin Building Generator (EQT 0026) to account for condensable PM<sub>10</sub>/PM<sub>2.5</sub> emissions;
- Update the emission calculations for all natural gas combustion sources to include speciation of inorganic and organic toxic air pollutants to supplement the prior speciated emission calculations; and
- Revise the average hourly emission rates calculation methodology for the Methanol Transfer and Product Tank Cap (EPN MTPCAP, GRP0003).

#### Specific Requirement (SR) Additions and Revisions

- Add a requirement to develop and implement a fenceline monitoring program for VOC and/or methanol;
- Remove the phrase "(Evaporative Loss from the Cleaning of Storage Tanks)" from the compliance demonstration method SR (formerly SR No. 28 in Permit No. 2560-00295-V5) for the common requirement group Raw Methanol Tank, Pure Methanol Intermediate Tanks, and Methanol Scrubber (EPN TNKS/SCRBBR, CRG0004);
- Add CO to the compliance demonstration method for NO<sub>X</sub> SR (formerly SR No. 71 in Permit No. 2560-00295-V5) for the Steam Methane Reformer (EPN SMR, EQT0001). This addition will add the following two sentences to the requirements: "The CO CEMS shall comply with the Performance Specification 4A of 40 CFR 60, Appendix B, and be evaluated in accordance with Procedure 1 of 40 CFR 60, Appendix F," and "CO

#### Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

emissions shall be calculated monthly based on the lb CO/MMBtu as determined by the CEMS and actual operating rates of the SMR";

- Increases the frequency of required performance tests on the SMR and Auxiliary Boiler for filterable and condensable particulate matter from once every 5 years to annually and requires performance tests on the Auxiliary Boiler for VOC to be conducted annually;
- Revise the VOC, PM<sub>10</sub>, and PM<sub>2.5</sub> compliance demonstration method SR (formerly SR No. 72 in Permit No. 2560-00295-V5) for the Steam Methane Reformer (EPN SMR, EQT0001) to specify that PM<sub>10</sub>, PM<sub>2.5</sub>, and VOC shall be calculated monthly based on the actual operating rates of the SMR during the calendar month and the emission factors derived from the performance test;
- Remove references to CO from the compliance demonstration SR (formerly SR No. 73 in Permit No. 2560-00295-V5) for the Steam Methane Reformer (EPN SMR, EQT0001) since KMe will be using a CEMS for compliance demonstration;
- Remove references to CO from the compliance demonstration SR (formerly SR No. 125 in Permit No. 2560-00295-V5) for Auxiliary Boiler (EPN BLR, EQT0002) since KMe will be using a CEMS for compliance demonstration. Also, add the following sentence "PM<sub>10</sub> and PM<sub>2.5</sub> shall be calculated monthly based on the actual operating rates of the Auxiliary Boiler during the calendar month and the emission factor derived from the performance test;"
- Remove references to CO from the compliance demonstration SR (formerly SR No. 126 in Permit No. 2560-00295-V5) for Auxiliary Boiler (EPN BLR, EQT0002) since KMe will be using a CEMS for compliance demonstration;
- Add a SR for compliance demonstration for CO to the Auxiliary Boiler (EPN BLR, EQT0002). This requirement states: "Compliance demonstration for CO: The permittee shall monitor and record CO emissions using a Continuous Emissions Monitoring System (CEMS) calibrated, operated, and maintained according to the manufacturer's specifications. The CO CEMS shall comply with the Performance Specification 4A of 40 CFR 60, Appendix B, and be evaluated in accordance with Procedure 1 of 40 CFR 60, Appendix F. CO emissions shall be calculated monthly based on the lb CO/MMBTU as determined by the CEMS and actual operating rates of the boiler to determine compliance with lb/hr and TPY emission limits. Measurements missed due to periods of monitor breakdown, out-of-control operations

#### Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

(producing inaccurate data), repair, maintenance, or calibration shall be estimated using engineering judgement;"

- Adds an SR requiring Koch to continuously monitor the heating value and VOC content of the waste gas routed to the Flare;
- Revise the SR for 40 CFR 60.665(b)(3) for Flare (EPN FLR, EQT0003) (formerly SR No. 134 in Permit No. 2560-00295-V5) to correct the reference citation in the SR from 40 CFR 60.705(c) to 40 CFR 60.705(b)(3);
- Revise the compliance demonstration requirement for Plant Emergency Generator (EPN EGEN, EQT0004) (formerly SR No. 169 in Permit No. 2560-00295-V5) by specifying that the requirement is for actual non-emergency operating hours. Also, add the following sentence: "Emissions during emergency use must be reported pursuant to LAC 33:III.919, but shall not be counted against permit limits for purposes of determining compliance";
- Revise the compliance demonstration requirements for Firewater Pump Engine No. 1, Firewater Pump Engine No. 2, Firewater Pump Engine No. 3, and Admin Building Emergency Generator (EPN FWP-01, FWP-02, FWP-03, and EGEN2; EQT0005, EQT0006, EQT0022, and EQT0026) (formerly SR Nos. 171, 173, 185, and 204 in Permit No. 2560-00295-V5) by specifying that the requirement is for actual non-emergency operating hours; and
- Revise the compliance demonstration requirements for the Methanol Transfer and Product Tank Cap (EPN MTPCAP; GRP0003) to add the following sentence: "The combustion emissions from the vapor combustion unit will be calculated as follows: VOC (from pilot and enrichment gas), PM<sub>10</sub>, and PM<sub>2.5</sub> will be calculated using AP-42 Section 1.4-2, July 1998; CO will be calculated using AP-42 Section 1.4-1, July 1998; and NO<sub>X</sub> will be calculated using the vendor-provided guarantee of 0.25 lb/MMBTU. Heating values shall be based on process knowledge for the full combustion stream."

#### Miscellaneous Revisions

• Remove the initial notification requirement [40 CFR 63.6645(f)] from Firewater Pump No. 1 (EPN FWP-01, EQT0005) and Firewater Pump No. 2 (EPN FWP-02, EQT0006), as the initial notification requirements have already been fulfilled;

- Remove the specific requirements for compliance demonstration from the two Generac SD 2000 sources (EPN E.GEN 01, EQT0033 and EPN E.GEN 02, EQT0034), as these requirements are redundant to the compliance demonstration requirement listed under CRG0007;
- Incorporate the following specific requirement revisions for the Flare (EQT0003):
  - Add the applicable recordkeeping requirements under 40 CFR 60.18 and 40 CFR 63.11;
  - Add the 40 CFR 60 Subpart RRR alternative monitoring requirement for flares (i.e., requirements to monitor the vent streams per 40 CFR 60.703(b)(2) of 40 CFR 60 Subpart RRR instead of complying with the monitoring requirements under 40 CFR 60 Subpart NNN); and
  - Remove the specific requirement for 40 CFR 60.705(b), as the flare recordkeeping requirement is already included in the specific requirement for 40 CFR 60.705(b)(3).
- Incorporate five existing sulfuric acid tanks that were previously included as GCVXII activities into the permit as point sources and limit their annual emissions under a proposed CAP of 0.037 tpy with no proposed changes in each tank's potential to emit; and
- Incorporate five existing sulfuric acid tanks that were previously included as GCVXII activities into the permit as point sources and limit their annual emissions under a proposed CAP of 0.037 tpy with no proposed changes in each tank's potential to emit.

#### Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

	Befo	re Emissions:			
N. 11	Permit No.	Permit No.			
Pollutant	2560-00295-V5	3169-V3	Total	After	Change
$PM_{10}$	49.92	0.41	50.33	76.30	+25.97
PM <sub>2.5</sub>	48.46	0.41	48.87	75.32	+26.45
$SO_2$	4.65	0.04	4.69	6.16	+1.47
NO <sub>X</sub>	87.29	9.57	96.86	152.84	+55.98
СО	92.57	3.96	96.53	181.46	+84.93
VOC	63.55	24.81	88.36	166.34	+77.98
CO <sub>2</sub> e*	-	-	_	1,401,096	-

Permitted emissions in tons per year (tpy) are as follows:

\* Greenhouse gas emissions (CO<sub>2</sub>e) were not required to be permitted previously. A facility CO<sub>2</sub>e emissions total is provided for information only and does not constitute an emissions limit. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit.

LAC 33:III.Chapter 51 Toxic A	ir Pollutants (T	APs):			
	Befo	ore Emission			
	Permit No.	Permit			
	2560-00295-	No.			
Pollutant	V5	3169-V3	Total	After	Change
1,4-Dichlorobenzene	0.01	Fei	0.01	0.01	-
2,2,4-Trimethylpentane	0.01	-	0.01	0.01	-
Acetaldehyde	0.01		0.01	0.01	
Ammonia	101.22	-	101.22	120.49	+19.27
Arsenic (and compounds)	-	-	-	0.001	+0.001
Barium (and compounds)	-	-	_	0.045	+0.045
Benzene	0.03	0.02	0.05	0.06	+0.01
Cadmium (and compounds)	_	-	-	0.014	+0.014

#### Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

LAC 33:III.Chapter 51 Toxic Ai											
Before Emissions:											
	Permit No.	Permit									
	2560-00295-	No.									
Pollutant	V5	3169-V3	Total	After	Change						
Chromium VI (and compounds)	-	-		0.015	+0.015						
Cobalt compounds	-		-	0.01	+0.01						
Copper (and compounds)	-	-	-	0.008	+0.008						
Ethyl benzene	< 0.01	<b></b>	< 0.01	0.01	-						
Formaldehyde	0.19	0.01	0.20	0.49	+0.29						
Hydrogen Sulfide	9.13		9.13	9.13							
Manganese (and compounds)	-	_		0.01	+0.01						
Mercury (and compounds)	· -	-	-	0.003	+0.003						
Methanol	44.14	23.36	67.50	140.72	+73.22						
Naphthalene	0.01	-	0.01	0.01	-						
n-Hexane	4.45	0.25	4.70	11.32	+6.62						
Nickel (and compounds)	-	-	-	0.021	+0.021						
Sulfuric Acid*	-	-	-	0.04	+0.04						
Toluene	0.02	-	0.02	0.04	+0.02						
Zinc (and compounds)	-	-	-	0.30	+0.30						
Total	159.23	23.64	182.87	282.767	+99.897						

\*Previously authorized under General Condition XVII Activity.

# IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAP), and Prevention of Significant Deterioration (PSD).

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

#### Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

#### New Source Review (NSR) Applicability Analysis

The KMe Facility is located in St. James Parish, which is currently in attainment or unclassifiable for all criteria pollutants. Koch requested to revise certain existing emission limits and to authorize the construction of the KMe Optimization Project, which together will result in the stationary source's potential to emit (PTE) of NO<sub>X</sub>, CO, and VOC increasing to greater than 100 tons/year. Thus, with this permitting action, the stationary source will become a PSD major stationary source.

Although not required because the KMe Facility is not an existing major stationary source and because the changes proposed do not themselves constitute construction of a new major stationary source, Koch requested that PSD requirements be applied as if the facility has not yet been built and to all pollutants for which the post-project facility-wide PTE will exceed PSD Significant Emission Rates.

<u>Pollutant</u>	<u>Total Emissions</u>	PSD de minimis	Review Conducted?
$PM_{10}$	76.30	15	Yes
PM <sub>2.5</sub>	75.32	10	Yes
$SO_2$	6.16	40	No
NOx	152.84	$40^{1}$	Yes
CO	181.46	100	Yes
VOC	166.34	$40^{1}$	Yes
CO <sub>2</sub> e	1,401,096	75,000	Yes
$H_2S$	9.13	10	No
<sup>1</sup> NO <sub>x</sub> and VOC	are precursors for ozone.		

Emissions of  $PM_{10}$ ,  $PM_{2.5}$ ,  $NO_X$ , CO, VOC, and  $CO_2e$  exceed their PSD significance thresholds. Therefore, consistent with the approach described above, a Best Available Control Technology (BACT) analysis was performed for existing emission units (no new emission units are proposed) with the potential to emit  $PM_{10}$ ,  $PM_{2.5}$ ,  $NO_X$ , CO, VOC, and  $CO_2e$ . BACT was determined on a case-by-case basis, with consideration given to technical feasibility and economic, environmental, and energy impacts. A PSD permit for the KMe Methanol Facility has been prepared concurrently with this permit. All PSD terms and limits have been incorporated into this permit.

#### Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

#### V. Permit Shields

Permit shields have been established for the streamlined requirements identified in the table below. If the permittee complies with the streamlined requirement (i.e., 40 CFR 63 Subpart G), the facility will be considered to be in compliance with all of the applicable requirements subsumed under the streamlined requirement (i.e., LAC 33:III.2103 and 2107).

ID		Description	Compliance with the Provisions of	Constitutes Compliance With
EQT 0008	TK-04001	Raw Methanol Tank	40 CFR 63 Subpart G	LAC 33:III.2103
EQT 0013	TK-04002A	Pure Methanol Intermediate Tank	40 CFR 63 Subpart G	LAC 33:111.2103
EQT 0017	ТК-04002В	Pure Methanol Intermediate Tank	40 CFR 63 Subpart G	LAC 33:111.2103
EQT 0029	TK-26-202A	Methanol Product Tank 2301	40 CFR 63 Subpart G	LAC 33:III.2103
EQT 0030	TK-26-202B	Methanol Product Tank 2302	40 CFR 63 Subpart G	LAC 33:III.2103
EQT 0031	TK-26-202C	Methanol Product Tank 2303	40 CFR 63 Subpart G	LAC 33:111.2103
EQT 0032	TK-26-202D	Methanol Product Tank 2304	40 CFR 63 Subpart G	LAC 33:III.2103
EQT 0028	8 RT LOAD Methanol Railcar and Tank Truck Loading Operations		40 CFR 63 Subpart G	LAC 33:III.2107

#### VI. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

#### Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

#### VII. Public Notice

In accordance with LAC 33:III.531.A.3, a notice requesting public comment on the proposed permit was published on the department's website on July 31, 2023. On July 31, 2023, copies of the public notice were mailed to the individuals who have requested to be placed on the mailing list maintained by the Office of Environmental Services (OES). The proposed permit was submitted to EPA on July 27, 2023. LDEQ considered all comments prior to the final permit decision.

The proposed permits and SOB, along with the Public Comments Response Summary, were again submitted to EPA on November 6, 2023, in accordance with 40 CFR 70.8(a)(1)(ii) and LAC 33:III.533.B.2.b.

#### VIII. Effects on Ambient Air

Emissions from the KMe Facility were reviewed by LDEQ to assure compliance with the federal national ambient air quality standards (NAAQS) for criteria pollutants and Louisiana ambient air standards (AAS) for toxic air pollutants.

uisiana Toxic Air utant Ambient Air ality Standard or tional Ambient Air Quality Standard
{NÁAQS})
$(35 \mu g/m^3)$
$(12 \mu g/m^3)$
$(150 \mu g/m^3)$
$(50  \mu g/m^3)$
$(188 \mu g/m^3)$
$(100 \mu g/m^3)$
$(40,000 \ \mu g/m^3)$
$(10,000 \mu g/m^3)$
640 μg/m <sup>3</sup>
$6240 \mu g/m^3$

Dispersion Model(s) Used: AERMOD

\*Includes secondary formation of PM2.5

\*\*This reflects the results of refined NAAQS modeling since results of the SIL analysis were above the SIL. Tier 3 (OLM) was used for 1-hour modeling.

## Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

#### IX. General Condition XVII Activities

General Condition XVII Act	ivities		Emice	ion Dot	or toma		
Work Activity	Schedule	$PM_{10}$	SO <sub>2</sub>	NO <sub>X</sub>	-CO	per year VOC	$H_2SO_4$
[GCXVII-1] Plant Control	Schedule	I 1V110	502	NOX		100	112504
Device Inspections	2 x/yr				<b>5</b> 68	< 0.01	<b>F</b> 4
[GCXVII-2] Plant Control Device Services	8 x/yr	-	-	-	-	0.04	-
[GCXVII-3] Plant Equipment Cleaning	100 x/yr	_	-	-	0.60	0.60	-
[GCXVII-4] Plant Valve Maintenance	20 x/yr	-	-	-	< 0.01	< 0.01	-
[GCXVII-5] Plant Compressor Maintenance	3 x/yr	-	-	-	0.01	0.01	-
[GCXVII-6] Plant Filter and Strainer Changeouts	50 x/yr	-	-	-	0.03	0.03	-
[GCXVII-7] Plant Pump Maintenance	50 x/yr	-	-		0.05	0.05	-
[GCXVII-8] Plant Instrument Maintenance	300 x/yr	-		-	0.04	0.04	-
[GCXVII-9] Plant Catalyst Handling Operations	.10 x/yr	< 0.01			-	0.04	-
[GCXVII-10] Plant Sampling	8000 x/yr	-	-	-	-	0.06	-
[GCXVII-11]Plant Tank Inspections	9 x/yr	-	-	-	-	0.01	-
[GCXVII-12] Plant Piping & Heat Exchanger Draining	20 x/yr	-	-	-	0.10	0.10	-
[GCXVII-13] Plant Sump Solids Removal	52 x/yr	-	-	-	-	0.22	-
[GCXVII-14] Plant Tank Cleaning	3 x/yr	-	_	-	-	0.13	-
[GCXVII-15] Plant Portable Thermal Oxidizer*	7 x/yr	0.01	< 0.01	0.18	0.15	0.01	
[GCXVII-16] Plant Miscellaneous Painting	1 x/yr	-	-	-	-	2.13	-
[GCXVII-17] Plant Frac Tanks (35 tanks)	As needed	-	-	-		0.07	-

## Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

			Emiss	sion Rate	s – tons	s per year	
Work Activity	Schedule	PM10	$SO_2$	$NO_X$	СО	VOC	$H_2SO_4$
[GCXVII-19] Terminal	4 x/yr					< 0.01	
Control Device Inspections	+ X/ y1	-	-	-		<u>\0.01</u>	
[GCXVII-20] Terminal	12 x/yr	_			_	0.06	_
Control Device Service	12 X/ y1					0.00	_
[GCXVII-21] Terminal	5 x/yr	_	_	_	_	0.03	_
Equipment Cleaning	5 X/ yl	_			_	0.03	_
[GCXVII-22] Terminal	5 x/yr	_		_		< 0.01	_
Valve Maintenance	5 X/ y1			-		~0.01	_
[GCXVII-23] Terminal							
Filter and Strainer	365 x/yr	-		-	-	0.22	-
Changeouts							
[GCXVII-24] Terminal	24 x/yr	_	_	_	_	0.02	_
Pump Maintenance	24 X/ y1	_		-	_	0.02	_
[GCXVII-25] Terminal	1 x/yr	_	_	_	_	< 0.01	_
Instrument Maintenance	1 X/ y1			_	_	~0.01	
[GCXVII-26] Terminal	100 x/yr	_		_	_	< 0.01	_
Sampling	100 X/y1				_	~0.01	
[GCXVII-27] Terminal	4 x/yr					< 0.01	
Tank Inspections	4 X/ y1	N.			-	<0.01	-
[GCXVII-28] Terminal	2 x/yr					0.01	
Line Preparation	2 X/ y1	-	-	-	-	0.01	-
[GCXVII-29] Terminal	4 x/yr					0.02	
Sump Solids Removal	4 X/ y1	-	-		-	0.02	-
[GCXVII-30] Terminal	1 x/yr					2.13	
Miscellaneous Painting	1 X/yi			-	-	2.15	
· · · · · · · · · · · · · · · · · · ·							
[GCXVII-31] Terminal	75					2.43	
Railcar Cleanings	cars/year		-	-	-	2.43	-

\*The Plant Portable Thermal Oxidizer [GCXVII-15] also has the potential to emit 0.003 tpy of n-hexane.

## Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St. James, LLC St. James, St. James Parish, Louisiana

# X. Insignificant Activities

ID No.:	Description	Citation
IA-1	Plant Emergency Engine Diesel Tank (<10,000 gallons)	LAC 33:III.501.B.5.A.3
IA-2	Plant Firewater Pump No. 1 Diesel Tank (<10,000 gallons)	LAC 33:III.501.B.5.A.3
IA-3	Plant Firewater Pump No. 2 Diesel Tank (<10,000 gallons)	LAC 33:III.501.B.5.A.3
IA-4	Plant Firewater Pump No. 3 Diesel Tank (<10,000 gallons)	LAC 33:III.501.B.5.A.3
IA-5	Plant Laboratory Vents (8,000 samples/yr)	LAC 33:III.501.B.5.A.6
IA-6	Plant Admin Building Diesel Tank (<10,000 gallons)	LAC 33:III.501.B.5.A.3
IA-7	Plant Admin Building Water Heater (<= 1.8 MMBtu/hr)	LAC 33:III.501.B.5.A.1
IA-8	Terminal Emergency Generator Diesel Tank (1,295 gallons)	LAC 33:III.501.B.5.A.3
IA-9	Terminal Emergency Generator Diesel Tank (1,295 gallons)	LAC 33:III.501.B.5.A.3

XI. Table 1. Applicable Louisiana and Federal Air Quality Requirements																		
ID									LA	C 33:I	II.Ch	apter				-		
ID	Description	5▲	9	11	13	15	2103	2107	2111	2113	2115	2121	2131	2147	2153	51*	56	59*
UNF0001	Koch Methanol Facility	1	1	1	1					1						1	1	1
EQT0001	SMR - Steam Methane Reformer			2	1	3								3				
EQT0002	BLR - Auxiliary Boiler		2	2	1	3												
EQT0003	FLR - Flare			1	1	3												
EQT0004	EGEN – Plant Emergency Generator			1	1	3										2		
EQT0005	FWP-01 - Firewater Pump Engine No. 1			1	1	3										2		
EQT0006	FWP-02 - Firewater Pump Engine No. 2			1	1	3										2		
EQT0007	CWT - Cooling Water Tower				3													
EQT0008	TK-04001 - Raw Methanol Tank						1											
EQT0013	TK-04002A - Pure Methanol Intermediate Tank						1											
EQT0014	TK-NH3 - Ammonia Tank						3											
EQT0017	TK-04002B - Pure Methanol Intermediate Tank						1											
EQT0018	F-03007 - Slop Vessel						1											
EQT0022	FWP-03 - Firewater Pump Engine No. 3			1	1	3										2		
EQT0026	EGEN2 – Admin Building Emergency Generator			2	1	3										2		
EQT0027	GASTANK – Gasoline Storage Tank						1						2					
EQT0029	TK-26-202A - Methanol Product Tank 2301	1					1											
EQT0030	TK-26-202B - Methanol Product Tank 2302	1					1											
EQT0031	TK-26-202C - Methanol Product Tank 2303	1					1											

## Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St James, LLC St. James, St. James Parish, Louisiana

XI. Tab	XI. Table 1. Applicable Louisiana and Federal Air Quality Requirements																
m									LAC	C 33:I	II.Ch	apter					
D	Description	5▲	9	11	13	15	2103	2107	2111	2113	2115	2121	2131	2147	2153	51*	56 59*
EQT0032	TK-26-202D - Methanol Product Tank 2304	1					1										
EQT0028	RT LOAD – Methanol Railcar and Tank Truck Loading Operations			1	1	3		1									
EQT0033	E. GEN 01 - Generac SD 2000			1	1	3										2	
EQT0034	E. GEN 02 – Generac SD 2000			1	1	3										2	
EQT0036	TK-05006 – Sulfuric Acid Tank TK-05006																
EQT0037	TK-05504 – Sulfuric Acid Tank TK-05504																
EQT0038	TK-06001-17 – Sulfuric Acid Tank TK-06001-17																
EQT0039	TK-09002-17 – Sulfuric Acid Tank TK-09002-17																
EQT0040	TK-09006 – Sulfuric Acid Tank TK-09006																
EMS0001	D-04001 - Methanol Scrubber						1										
RLP0024	PCSVENT – Process Condensate Stripper Vent										3						
RLP0025	CTVENT – Condensate Trap Vents										3						
FUG0001	FUG - Fugitive Emissions – KMe Facility								1			2					
FUG0002	WWT - Wastewater Treatment														3		

 \* The regulations indicated above are State Only regulations.
 All LAC 33:III.Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

## Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St James, LLC St. James, St. James Parish, Louisiana

## KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
  - -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

XI. Tab	le 1. Applicable Louisiana and Federal Air Q	Qual	ity	Rea	qui	rem	ents																			
п	Description				2	40 C	FR 6	0				40	CFF	<b>R</b> 61			4	40 <b>(</b>	CFF	<b>2</b> 63	<b>5</b>			40	CF	R
ID	Description	Α	Db	K	Ka	Kb	VVa	3N	3R	4I	4J	A	M	FF	A	F	G	Η	Q	4E	4Z	5D	6C	64	68	82
UNF0001	Koch Methanol Facility	1											3	3	1	1									1	1
EQT0001	SMR - Steam Methane Reformer							1	1								1					1		2	-	
EQT0002	BLR - Auxiliary Boiler		1						1								1					1		2		
EQT0003	FLR - Flare							1	1						1		1							2		
EQT0004	EGEN – Plant Emergency Generator						-			1											1					
EQT0005	FWP-01 - Firewater Pump Engine No. 1									1											1					
EQT0006	FWP-02 - Firewater Pump Engine No. 2									1											1					
EQT0007	CWT - Cooling Water Tower															1			3					3		
EQT0008	TK-04001 - Raw Methanol Tank					2											1			3			$\square$			
EQT0013	TK-04002A - Pure Methanol Intermediate Tank					2											1			3						
EQT0014	TK-NH3 - Ammonia Tank					3											3			3						
EQT0017	TK-04002B - Pure Methanol Intermediate Tank					2											1			3						
EQT0018	F-03007 - Slop Vessel					3											3			3						
EQT0022	FWP-03 - Firewater Pump Engine No. 3									1											1					
EQT0026	EGEN2 – Admin Building Emergency Generator										1										1					
EQT0027	GASTANK – Gasoline Storage Tank					3																	3			
EQT0029	TK-26-202A - Methanol Product Tank 2301			3	3	3											1			3						

XI. Tab	le 1. Applicable Louisiana and Federal Air Q	ual	ity	Rea	qui	em	ents																		-	
D	Description				2	10 C	CFR 6	0				40	CFF	<b>R</b> 61			4	40 <b>(</b>	CFR	. 63	;			40	CF	R
III III	Description	Α	Db	K	Ka	Kb	VVa	3N	3R	4I	4J	A	М	FF	A	F	G	H	Q	4E	4Z :	5D	6C	64	68	82
EQT0030	TK-26-202B - Methanol Product Tank 2302			3	3	3											1			3						
EQT0031	TK-26-202C - Methanol Product Tank 2303			3	3	3											1			3						
EQT0032	TK-26-202D - Methanol Product Tank 2304			3	3	3											1			3						
EQT0028	RT LOAD – Methanol Railcar and Tank Truck Loading Operations																1			3				2		
EQT0033	E. GEN 01 - Generac SD 2000									1											1					
EQT0034	E. GEN 02 – Generac SD 2000									1											1					
EQT0036	TK-05006 – Sulfuric Acid Tank TK-05006																									
EQT0037	TK-05504 – Sulfuric Acid Tank TK-05504																									
EQT0038	TK-06001-17 – Sulfuric Acid Tank TK-06001- 17																-									
EQT0039	TK-09002-17 – Sulfuric Acid Tank TK-09002- 17																									
EQT0040	TK-09006 – Sulfuric Acid Tank TK-09006																									
EMS0001	D-04001 - Methanol Scrubber																1							2		
RLP0024	PCSVENT – Process Condensate Stripper Vent							3	3							3										
RLP0025	CTVENT – Condensate Trap Vents							3	3							3										
FUG0001	FUG - Fugitive Emissions – KMe Facility						1											1								
FUG0002	WWT - Wastewater Treatment																1									

Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St James, LLC St. James, St. James Parish, Louisiana

# KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
- -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

XII. Table 2. H	Explanation for Exemption Stat	us or Non-Apj	plicability of a Source		
D	Requirement	Exempt or Does Not Apply	Explanation	Citation Describing Exemption or Non-applicability	
UNF0001 Koch Methanol Facility	40 CFR 61 Subpart M – National Emission Standard for Asbestos	Does Not Apply	Regulated asbestos-containing material (RACM) was not be used in the construction of the facility.	40 CFR 61.140	
	40 CFR 61 Subpart FF – National Emission Standard for Benzene Waste Operations	Does Not Apply	Facility does not have benzene in wastes, products, or by- products or intermediates subject to the requirements in 40 CFR 61 Subpart FF.	40 CFR 61.340	
EQT0001 Steam Methane Reformer	LAC 33:III.1101 – Control of Air Pollution from Smoke	Exempt	Combustion units that combust only natural gas, carbon monoxide, hydrogen, and/or other gaseous fuels with a carbon to hydrogen molecular ratio of less than 0.34 are exempt from the opacity standards of LAC 33:III.1101.B.	LAC 33:III.1107.B	
	LAC 33:III.Chapter 15 – Emission Standards for Sulfur Dioxide	Does Not Apply	This single point source does not have the potential to emit more than 5 tpy of sulfur dioxide.	LAC 33:III.1502.A.3	
	LAC 33:III.2147 – Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations	Does Not Apply	LAC 33:III.2147 does not apply to facilities located in St. James Parish.	LAC 33:III.2147.A.1	
	40 CFR 64 – Compliance Assurance Monitoring	Exempt	The requirements of Part 64 do not apply to emission limitations or standards for which a Part 70 permit specifies a continuous compliance determination method. The permit requires $NO_X$ and CO CEMS.	40 CFR 64.2(b)(1)(vi)	

XII. Table 2.	Explanation for Exemption Stat	us or Non-Apj	plicability of a Source	
D	Requirement	Exempt or Does Not Apply	Explanation	Citation Describing Exemption or Non-applicability
EQT0002 Boiler	LAC 33:III.915 – Emission Monitoring Requirements	Exempt	Any source which is subject to a new source performance standard promulgated in 40 CFR Part 60 is exempt from the requirements of LAC 33:III.915.A. This source is subject to an NSPS regulation.	LAC 33:III.915.D
	LAC 33:III.1101 – Control of Air Pollution from Smoke	Exempt	Combustion units that combust only natural gas, carbon monoxide, hydrogen, and/or other gaseous fuels with a carbon to hydrogen molecular ratio of less than 0.34 are exempt from the opacity standards of LAC 33:III.1101.B.	LAC 33:III.1107.B
	LAC 33:III.Chapter 15 – Emission Standards for Sulfur Dioxide	Does Not Apply	This single point source does not have the potential to emit more than 5 tpy of sulfur dioxide.	LAC 33:III.1502.A.3
	40 CFR 64 – Compliance Assurance Monitoring	Exempt	The requirements of Part 64 do not apply to emission limitations or standards for which a Part 70 permit specifies a continuous compliance determination method. The permit requires $NO_X$ and CO CEMS.	40 CFR 64.2(b)(1)(vi)
EQT0003 Flare	LAC 33:III.Chapter 15 – Emission Standards for Sulfur Dioxide	Does Not Apply	This single point source does not have the potential to emit more than 5 tpy of sulfur dioxide.	LAC 33:III.1502.A.3
	40 CFR 64 – Compliance Assurance Monitoring	Exempt	Under 40 CFR 64, the flare is not subject to CAM because it is subject to emission limitations or standards proposed by the Administrator after November 15, 1990, pursuant to section 111 or 112 of the Act.	40 CFR 64.2(b)(1)(i)

XII. Table 2.	Explanation for Exemption Stat	us or Non-Apj	olicability of a Source	
ID	Requirement	Exempt or Does Not Apply	Explanation	Citation Describing Exemption or Non-applicability
EQT0004, EQT0005, EQT0006, EQT0022	LAC 33:III.Chapter 15 – Emission Standards for Sulfur Dioxide	Does Not Apply	This single point source does not have the potential to emit more than 5 tpy of sulfur dioxide.	LAC 33:III.1502.A.3
Engines				
	LAC 33:III.Chapter 51 – Comprehensive Toxic Air Pollutant Emission Control Program	Exempt	Emissions from the combustion of Group 1 virgin fossil fuels are exempt from the requirements of Chapter 51.	LAC 33:III.5105.B.3.a
EQT0007 Cooling Water Tower	LAC 33:III.1311 – Emission Limits	Does Not Apply	LAC 33:III.1311 does not apply when the failure of an emission to meet opacity requirements is due to the presence of uncombined water.	LAC 33:III.1311.F
	40 CFR 63 Subpart Q – National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers	Does Not Apply	The cooling tower does not employ chromium-based water treatment chemicals.	40 CFR 63.400(a)
	40 CFR 64 – Compliance Assurance Monitoring	Does Not Apply	Drift eliminators "prevent the release of pollutants" and are therefore not considered "control devices."	40 CFR 64.1

ID	Requirement	Exempt or Does Not Apply	Explanation	Citation Describing Exemption or Non-applicability	
EQT0008, EQT0013, EQT0017 Methanol Tanks	40 CFR 60 Subpart 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	Does Not Apply	After the compliance dates specified in 40 CFR 63.100, a Group 1 storage vessel that is also subject to the provisions of 40 CFR 60 Subpart Kb is required to comply only with the provisions of 40 CFR 63 Subpart G.	40 CFR 63.110(b)(1)	
	40 CFR 63 Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	Does Not Apply	Subpart EEEE applies to organic liquids distribution (OLD) (non-gasoline) operations at major sources of HAP emissions. However, storage tanks that are part of an affected source under another 40 CFR part 63 NESHAP are excluded from the "affected source." Storage tanks are subject to 40 CFR 63 Subpart G.	40 CFR 63.2330; 40 CFR 63.2338(c)(1)	
EQT0014 Ammonia Tank	LAC 33:III.2103 – Storage of Volatile Organic Compounds	Does Not Apply	Tank does not store a volatile organic compound.	LAC 33:III.2103.A	
	40 CFR 60 Subpart 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	Does Not Apply	Subpart Kb applies to each storage vessel with a capacity greater than or equal to 75 cubic meters (m <sup>3</sup> ) that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984. <i>Volatile organic</i> <i>liquid (VOL)</i> means any organic liquid which can emit volatile organic compounds (as defined in 40 CFR 51.100) into the atmosphere. Capacity of tank is less than 75 m <sup>3</sup> ; ammonia is not a VOL.	40 CFR 60.110b(a); 40 CFR 60.111b	

ID	Requirement	Exempt or Does Not Apply	Explanation	Citation Describing Exemption or Non-applicability	
EQT0014 (Cont.)	40 CFR 63 Subpart G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater	Does Not Apply	Ammonia is not an organic hazardous air pollutant.	40 CFR 63.101(b)	
	40 CFR 63 Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	Does Not Apply	Subpart EEEE applies to organic liquids distribution (OLD) (non-gasoline) operations at major sources of HAP emissions. Ammonia does not meet the definition of "organic liquid."	40 CFR 63.2330; 40 CFR 63.2406	
FUG0001 Fugitive Emissions	LAC 33:III.2121 – Fugitive Emission Control	Exempt	Any facility subject to a fugitive emission monitoring program which controls emissions to a higher degree than required under LAC 33:III.2121 shall be exempted upon submittal of a description of the program to LDEQ. A facility which has consolidated into an overall more stringent program in accordance with the Louisiana Consolidated Fugitive Emissions Program is exempted from the requirement of submitting a description of the program to LDEQ.	LAC 33:III.2121.D.5	
FUG0002 Wastewater Treatment	LAC 33:III.2153 – Limiting VOC Emissions from Industrial Wastewater	Does Not Apply	Facilities located in St. James Parish are not part of the "affected source category."	LAC 33:III.2153.A	

ID	Requirement	Exempt or Does Not Apply	Explanation	Citation Describing Exemption or Non-applicability	
FUG000240 CFR 63.149 - Control(Cont.)Requirements for CertainLiquid Streams in OpenSystems Within a ChemicaManufacturing Process Ur		Does Not Apply	The Koch Methanol Plant does not have any liquid streams in open systems subject to 40 CFR 63 Subpart G.	40 CFR 63.149	
EQT0018 Slop Vessel	40 CFR 60 Subpart 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	Does Not Apply	Subpart Kb applies to each storage vessel with a capacity greater than or equal to 75 cubic meters (m <sup>3</sup> ) that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984. Capacity of tank is less than 75 m <sup>3</sup> .	40 CFR 60.110b(a)	
	40 CFR 63 Subpart G – National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater	Does Not Apply	According to 40 CFR 63 Subpart F, a "storage vessel" does not include vessels with capacities smaller than 38 cubic meters.	40 CFR 63.101(b)	

ID	Requirement	Exempt or Does Not Apply	Explanation	Citation Describing Exemption or Non-applicability	
EQT0018 (Cont.)	40 CFR 63 Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	Does Not Apply	Subpart EEEE applies to organic liquids distribution (OLD) (non-gasoline) operations at major sources of HAP emissions. However, storage tanks that are part of an affected source under another 40 CFR part 63 NESHAP are excluded from the "affected source."	40 CFR 63.2330; 40 CFR 63.2338(c)(1)	
EMS0001 Methanol Scrubber	40 CFR 64 – Compliance Assurance Monitoring	Exempt	VOC/HAP: The requirements of Part 64 do not apply to emission limitations or standards proposed by the Administrator after November 15, 1990, pursuant to section 111 or 112 of the Act. EMS 1 is subject to the transfer operations provisions of 40 CFR 63 Subpart G.	40 CFR 64.2(b)(1)(i)	
RLP0024, RLP0025 Vents	LAC 33:III.2115 – Control of Emission of Organic Compounds - Waste Gas Disposal	Does Not Apply	These vents do not contain Volatile Organic Compounds (VOC) emissions.	LAC 33:III.2115	
	40 CFR 60 Subpart NNN – Standards of Performance for VOC Emissions from SOCMI Distillation Operations	Does Not Apply	These vents do not originate from a distillation unit as defined in Subpart NNN and, therefore, no provisions of this rule apply.	40 CFR 60.660	
	40 CFR 60 Subpart RRR - Standards of Performance for VOC Emissions from SOCMI Reactor Processes	Does Not Apply	These vents do not originate from a reactor process as defined in Subpart RRR and, therefore, no provisions of this rule apply.	40 CFR 60.700	
	40 CFR 63 Subpart F – National Emission Standards for Organic Hazardous Air Pollutants from the SOCMI	Does Not Apply	These vents do not contain HAP and, therefore, does not meet the definition of process vent per Subpart F. Therefore, no provisions of this rule apply.	40 CFR 63.101	

# Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St James, LLC St. James, St. James Parish, Louisiana

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XII. Table 2. E	xplanation for Exemption Statu	is or Non-Apj	olicability of a Source		
D	Requirement	Exempt or Does Not Apply	Explanation	Citation Describing Exemption or Non-applicability	
EQT0026 Emergency Generator	LAC 33:III.Chapter 11 – Control of Emissions of Smoke	Exempt	Combustion units that combust only natural gas, carbon monoxide, hydrogen, and/or other gaseous fuels with a carbon to hydrogen molecular ratio of less than 0.34 are exempt from the opacity standards of LAC 33:III.1101.B.	LAC 33:III.1107.B	
	LAC 33:III.Chapter 15 – Emission Standards for Sulfur Dioxide	Does Not Apply	This single point source does not have the potential to emit more than 5 tpy of sulfur dioxide.	LAC 33:III.1502.A.3	
	LAC 33:III.Chapter 51 – Comprehensive Toxic Air Pollutant Emission Control Program	Exempt	Emissions from the combustion of Group 1 virgin fossil fuels are exempt from the requirements of Chapter 51.	LAC 33:III.5105.B.3.a	
EQT0027 Gasoline Storage Tank	LAC 33:III.2131 – Filling of Gasoline Storage Vessels	Exempt	This facility has an annual throughput of less than 500,000 gallons per year.	LAC 33:III.2131.E.3	
	40 CFR 60 Subpart 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	Does Not Apply	Subpart Kb applies to each storage vessel with a capacity greater than or equal to 75 cubic meters (m <sup>3</sup> ) that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984. Capacity of tank is less than 75 m <sup>3</sup>	40 CFR 60.110b(a)	

XII. Table 2. E	xplanation for Exemption Stat	us or Non-Apj	olicability of a Source	
D	Requirement	Exempt or Does Not Apply	Explanation	Citation Describing Exemption or Non-applicability
EQT0027 (cont.)	40 CFR 63 Subpart CCCCCC – NESHAP for Source Category: Gasoline Dispensing Facilities	Does Not Apply	This rule applies to gasoline dispensing facilities located at an area source of HAP emissions. This facility is not an area source and, therefore, no provisions of this rule apply.	40 CFR 63.11111
EQT0029, EQT0030, EQT0031, EQT0032 Methanol Product Tanks	40 CFR 60 Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978	Does Not Apply	Storage vessels were constructed after May 19, 1978.	40 CFR 60.110
	40 CFR 60 Subpart Ka – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	Does Not Apply	Storage vessels were constructed after July 23, 1984.	40 CFR 60.110a

XII. Table 2.	Explanation for Exemption Stat	ıs or Non-App	olicability of a Source	
D	Requirement	Exempt or Does Not Apply	Explanation	Citation Describing Exemption or Non-applicability
EQT0029, EQT0030, EQT0031, EQT0032 (Cont.)	40 CFR 60 Subpart 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	Does Not Apply	After the compliance dates specified in 40 CFR 63.100, a Group 1 storage vessel subject to 40 CFR Part 60 Subpart Kb is required to comply only with 40 CFR Part 63 Subpart G. The storage tanks are subject to 40 CFR Part 63 Subpart G and therefore are not subject to 40 CFR Part 60 Subpart Kb.	40 CFR 63.110(b)(1)
	40 CFR 63 Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	Does Not Apply	Subpart EEEE applies to organic liquids distribution (OLD) (non-gasoline) operations at major HAP emissions sources. However, storage tanks that are part of an affected source under another 40 CFR Part 63 NESHAP are excluded from the "affected source." Since the storage tanks are subject to 40 CFR 63 Subpart G, they are not subject to the OLD regulation.	40 CFR 63.2330, 40 CFR 63.2338(c)(1)
EQT0028 Loading	LAC 33:III.Chapter 15 – Emission Standards for Sulfur Dioxide	Does Not Apply	This single point source does not have the potential to emit more than 5 tpy of sulfur dioxide.	LAC 33:III.1502.A.3
	40 CFR 63 Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	Does Not Apply	Subpart EEEE applies to organic liquids distribution (OLD) (non-gasoline) operations at major HAP emissions sources. However, storage tanks that are part of an affected source under another 40 CFR Part 63 NESHAP are excluded from the "affected source." Since the transfer racks are subject to 40 CFR 63 Subpart G, they are not subject to the OLD regulation.	40 CFR 63.2330, 40 CFR 63.2338(c)(1)

## Koch Methanol Facility Agency Interest No.: 194165 Koch Methanol St James, LLC St. James, St. James Parish, Louisiana

ID Requirement		Exempt or Does Not Apply	Explanation	Citation Describing Exemption or Non-applicability	
EQT0028 (cont.)	40 CFR 64 – Compliance Assurance Monitoring	Exempt	VOC/HAP: The requirements of Part 64 do not apply to emission limitations or standards proposed by the Administrator after November 15, 1990, pursuant to section 111 or 112 of the Act. The loading transfer racks are subject to 40 CFR 63 Subpart G's transfer operations provisions and are not subject to CAM.	40 CFR 64.2(b)(1)(i)	
EQT0033 & EQT0034 Emergency Generators	LAC 33:III.Chapter 15 – Emission Standards for Sulfur Dioxide	Does Not Apply	This single point source does not have the potential to emit more than 5 tpy of sulfur dioxide.	LAC 33:III.1502.A.3	
	LAC 33:III.Chapter 51 – Comprehensive Toxic Air Pollutant Emission Control Program	Exempt	Emissions from the combustion of Group 1 virgin fossil fuels are exempt from the requirements of Chapter 51.	LAC 33:III.5105.B.3.a	

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

# <u>General Information</u> Al ID: 194165 Koch Methanol St James LLC - Koch Methanol Facility Activity Number: PER20220006 Permit Number: 2560-00295-V6 Air - Title V Significant Modification

Alternate Identifiers	Name	User Gro	oup	Dates
2209300295	AFS	AFS (EP	A Air Facility System)	05-05-2015
2560-00295	CDS#	CDS Nur	nber	10-24-2014
20141674	DNR CUP number	DNR CU	P number	07-16-2015
9252411	EIS Facility ID	EPA EIS	Facility Site ID	01-01-2020
AR000087437	Koch Methanol St James LLC	Haz Was	ste EPA ID Number	09-29-2015
A0127367	LPDES Permit #	LPDES F	Permit #	11-01-2020
AG535491	LPDES Permit #	LPDES F	Permit #	02-28-2020
AR10M095	LPDES Permit #	LPDES F	Permit #	06-05-2020
	Koch Methanol St James LLC	Multimed	lia	06-01-2021
4077	X-ray Registration Number	Radiation	n X-ray Registration Number	12-11-2020
G-093-13828	SW Generator ID #	Solid Wa	iste Facility No.	10-01-2015
//VN-2014-0940-CO	USACOE number	USACOE	Enumber	07-16-2015
6627	Waste Tire Facility ID Number	Waste T	re Facility ID Number	10-08-2015
50720-01	Water Quality Certification #	Water Co	ertification	07-16-2015
Physical Location:	6586 Hwy 3127 St. James LA 70086	<u></u>	Main Phone: 225434622	0
Physical Location: Nailing Address:			<b>Main Phone:</b> 225434622	0
Mailing Address:	St. James LA 70086 5181 Wildcat St	Method: Lat.∖Long - Decimal Degrees,		0
lailing Address: ocation of Front Gate:	St. James LA 70086 5181 Wildcat St St. James LA 70086	∕lethod: Lat.∖Long - Decimal Degrees, <b>Work Phone</b>		0 Relationship
failing Address: .ocation of Front Gate: Related People:	St. James LA 70086 5181 Wildcat St St. James LA 70086 -90.86775 Longitude, 29.97481 Latitude, Coordinate M		Coordinate Datum: NAD83	
Mailing Address: .ocation of Front Gate: Related People: Daniel Frank	St. James LA 70086 5181 Wildcat St St. James LA 70086 -90.86775 Longitude, 29.97481 Latitude, Coordinate N Mail Address	Work Phone	Coordinate Datum: NAD83 Email	Relationship
Tailing Address: ocation of Front Gate: Related People: Daniel Frank Darrien Carson	St. James LA 70086 5181 Wildcat St St. James LA 70086 -90.86775 Longitude, 29.97481 Latitude, Coordinate M Mail Address 5181 Wildcat St St. James, LA 70086	Work Phone 5802157505	Coordinate Datum: NAD83 Email daniel.frank@kochind.com darrien.caron@kochind.	<b>Relationship</b> Air Designated Representative for
Tailing Address: Accation of Front Gate: Related People: Daniel Frank Darrien Carson Dewayne Ray	St. James LA 70086 5181 Wildcat St St. James LA 70086 -90.86775 Longitude, 29.97481 Latitude, Coordinate M Mail Address 5181 Wildcat St St. James, LA 70086 5181 Wildcat St St. James, LA 70086	Work Phone 5802157505 2252364819	Coordinate Datum: NAD83 Email daniel.frank@kochind.com darrien.caron@kochind. com dwayne.ray@kochind.com haleigh.engler@kochind.	Relationship Air Designated Representative for Air Designated Representative for
Mailing Address: .ocation of Front Gate: Related People: Daniel Frank Darrien Carson Dewayne Ray	St. James LA 70086 5181 Wildcat St St. James LA 70086 -90.86775 Longitude, 29.97481 Latitude, Coordinate M Mail Address 5181 Wildcat St St. James, LA 70086 5181 Wildcat St St. James, LA 70086 5181 Wildcat St St. James, LA 70086	Work Phone 5802157505 2252364819 2256246200	Coordinate Datum: NAD83 Email daniel.frank@kochind.com darrien.caron@kochind. com dwayne.ray@kochind.com	Relationship Air Designated Representative for Air Designated Representative for Radiation Contact For
Mailing Address: Location of Front Gate: Related People: Daniel Frank Darrien Carson Dewayne Ray HaLeigh Engler	St. James LA 70086 5181 Wildcat St St. James LA 70086 -90.86775 Longitude, 29.97481 Latitude, Coordinate M Mail Address 5181 Wildcat St St. James, LA 70086 5181 Wildcat St St. James, LA 70086 5181 Wildcat St St. James, LA 70086 5181 Wildcat St St. James, LA 70086	Work Phone 5802157505 2252364819 2256246200 2252642065	Coordinate Datum: NAD83 Email daniel.frank@kochind.com darrien.caron@kochind. com dwayne.ray@kochind.com haleigh.engler@kochind. com	Relationship Air Designated Representative for Air Designated Representative for Radiation Contact For HW-1 Notification Contact for Solid Waste Trans/Gen Contact for Water Permit Contact For
-	St. James LA 70086 5181 Wildcat St St. James LA 70086 -90.86775 Longitude, 29.97481 Latitude, Coordinate M Mail Address 5181 Wildcat St St. James, LA 70086 5181 Wildcat St St. James, LA 70086 5181 Wildcat St St. James, LA 70086	Work Phone 5802157505 2252364819 2256246200	Coordinate Datum: NAD83 Email daniel.frank@kochind.com darrien.caron@kochind. com dwayne.ray@kochind.com haleigh.engler@kochind.	Relationship Air Designated Representative for Air Designated Representative for Radiation Contact For HW-1 Notification Contact for Solid Waste Trans/Gen Contact for Water Permit Contact For

## <u>General Information</u> Al ID: 194165 Koch Methanol St James LLC - Koch Methanol Facility Activity Number: PER20220006 Permit Number: 2560-00295-V6 Air - Title V Significant Modification

Related People:	Mail .	Address	Work Phone	Email	Relationship
				com	Asbestos Contact for
Matthew Alvey	5181	Wildcat St St. James, LA 70086	5804786387	matthew.alvey@kochind.	Air Permit Contact For
				com	Emission Inventory Facility Contact for
Related Organizations:		Mailing Address		Work Phone	Relationship
KMe St James Holding	s LLC	4111 E 37th St N Wichita, KS 67220		3168288959	Owns
Koch Methanol St Jame	es LLC	5181 Wildcat St St. James, LA 70086		5804787621	Accident Prevention Billing Party for
					Air Billing Party for
					Emission Inventory Billing Party
					Haz. Waste Billing Party for
					Operates
					Owns
					Radiation Certification Billing Party for
					UST Billing Party for
					Water Billing Party for

SIC Codes: 2869, Industrial organic chemicals, nec

NAIC Codes: 325199, All Other Basic Organic Chemical Manufacturing

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required, or if you have questions regarding this document, please email the Permit Support Services Division at facupdate@la.gov.

#### Subject Item Inventory:

ID	Description	Tank Volume	Max Operating Rate	Normal Operating Rate	Comments	Operating Time
Koch Meth	anol Facility				I	
EMS 0001	D-04001 - Methanol Scrubber					8760 hr/yr
EQT 0001	SMR - Steam Methane Reformer		1794 MM BTU/hr	1725 MM BTU/hr	Natural Gas & Process Gas	8760 hr/yr
EQT 0002	BLR - Auxiliary Boiler		1100 MM BTU/hr	525 MM BTU/hr	Natural Gas & Process Gas	8760 hr/yr
EQT 0003	FLR - Flare					8760 hr/yr
EQT 0004	EGEN - Plant Emergency Generator		3634 horsepower	3634 horsepower	Diesel	100 hr/yr
EQT 0005	FWP-01 - Firewater Pump Engine No. 1		422 horsepower	422 horsepower	Diesel	100 hr/yr
EQT 0006	FWP-02 - Firewater Pump Engine No. 2		422 horsepower	422 horsepower	Diesel	100 hr/yr
EQT 0007	CWT - Cooling Water Tower			200000 gallons/min		8760 hr/yr
	TK-04001 - Raw Methanol Tank	845587 gallons		42.2 MM gallons/yr	Crude Methanol, Fixed roof tank	8760 hr/yr
EQT 0013	TK-04002A - Pure Methanol Intermediate Tank	845587 gallons			Methanol, Fixed Roof Tank	8760 hr/yr
EQT 0014	TK-NH3 - Ammonia Tank	10000 gallons		440000 gallons/yr	Aqueous Ammonia, Fixed Roof Tank	8760 hr/yr
EQT 0017	TK-04002B - Pure Methanol Intermediate Tank	845587 gallons			Methanol, Fixed Roof Tank	8760 hr/yr
EQT 0018	F-03007 - Slop Vessel	3090 gallons			Methanol Slop, Fixed Roof Tank	8760 hr/yr
	FWP-03 - Firewater Pump Engine No. 3		237 horsepower	237 horsepower	Diesel	100 hr/yr
EQT 0026	EGEN2 - Admin Building Emergency Generator		210 horsepower	210 horsepower	Natural Gas	100 hr/yr
EQT 0027	GASTANK - Gasoline Storage Tank	550 gallons		20000 gallons/yr	Gasoline, Fixed roof tank	8760 hr/yr
EQT 0028	RT LOAD - Methanol Railcar and Tank Truck Loading Operations		6000 gallons/min	908.85 MM gallons/yr		8760 hr/yr
EQT 0029	TK-26-202A - Methanol Product Tank 2301	13.45 million gallons		188.64 MM gallons/yr	Methanol, Floating Roof Tank	8760 hr/yr
EQT 0030	TK-26-202B - Methanol Product Tank 2302	13.45 million gallons		188.64 MM gallons/yr	Methanol, Floating roof tank	8760 hr/yr
EQT 0031	TK-26-202C - Methanol Product Tank 2303	13.45 million gallons		188.64 MM gallons/yr	Methanol, Floating roof tank	8760 hr/yr
EQT 0032	TK-26-202D - Methanol Product Tank 2304	13.45 million gallons		188.64 MM gallons/yr	Methanol, Floating roof tank	8760 hr/yr
EQT 0033	E. GEN 01 - Generac SD 2000		2923 horsepower	2923 horsepower	Diesel	100 hr/yr
EQT 0034	E. GEN 02 - Generac SD 2000		2923 horsepower	2923 horsepower	Diesel	100 hr/yr
EQT 0036	TK-05006 - Sulfuric Acid Tank TK-05006	5000 gallons		41983.1 bbl/yr		8760 hr/yr
EQT 0037	TK-05504 - Sulfuric Acid Tank TK-05504	1000 gallons		8616.94 bbl/yr		8760 hr/yr
	TK-06001-17 - Sulfuric Acid Tank TK-06001-17	6650 gallons		56401.79 bbl/yr		8760 hr/yr
EQT 0039	TK-09002-17 - Sulfuric Acid Tank TK-09002-17	1000 gallons		8616.94 bbl/yr		8760 hr/yr
	TK-09006 - Sulfuric Acid Tank TK-09006	200 gallons		1982.88 bbl/yr		8760 hr/yr
FUG 0001	FUG - Fugitive Emissions - KMe Facility	_				8760 hr/yr
FUG 0002	WWT - Wastewater Treatment					8760 hr/yr
	PCSVENT - Process Condensate Stripper Vent					100 hr/yr
RLP 0025	CTVENT - Condensate Trap Vents					8760 hr/yr

#### Stack Information:

ID	Description	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Temperature (oF)			
Koch Methanol	Koch Methanol Facility									
EMS 0001	D-04001 - Methanol Scrubber	3.28		66.01		1.66	70			
EQT 0001	SMR - Steam Methane Reformer 10.7		213.25 78.93			422666	336			
EQT 0002	BLR - Auxiliary Boiler	8.26		213.25	44.59	210010	300			
EQT 0003	FLR - Flare	5.25		185	65.6	31668	1832			

#### Stack Information:

ID	Description	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Temperature (oF)
Koch Methano	l Facility						
EQT 0004	EGEN - Plant Emergency Generator	1.33		12.01	182.54	10044	918
EQT 0005	FWP-01 - Firewater Pump Engine No. 1	.5		12.01	173.84	2343.84	918
EQT 0006	FWP-02 - Firewater Pump Engine No. 2	.5		12.01	173.84	2343.84	918
EQT 0007	CWT - Cooling Water Tower	34.38		46	22.13	123453	68
EQT 0008	TK-04001 - Raw Methanol Tank	3.28		66		2	
EQT 0013	TK-04002A - Pure Methanol Intermediate Tank	3.28		66		2	
EQT 0014	TK-NH3 - Ammonia Tank	3.28		8.01		2	70
EQT 0017	TK-04002B - Pure Methanol Intermediate Tank	3.28		66		2	
EQT 0022	FWP-03 - Firewater Pump Engine No. 3	.5		12.01	173.84	2343.84	918
EQT 0026	EGEN2 - Admin Building Emergency Generator	.04		12	264.51	19.32	1175
EQT 0027	GASTANK - Gasoline Storage Tank	3.28		12			70
EQT 0028	RT LOAD - Methanol Railcar and Tank Truck Loading Operations	8		45	20	66350	1320
EQT 0029	TK-26-202A - Methanol Product Tank 2301	.33		50		.02	75
EQT 0030	TK-26-202B - Methanol Product Tank 2302	.33		50		.02	75
EQT 0031	TK-26-202C - Methanol Product Tank 2303	.33		50		.02	75
EQT 0032	TK-26-202D - Methanol Product Tank 2304	.33		50		.02	75
EQT 0033	E. GEN 01 - Generac SD 2000	1.12		13.75	324.96	5855	987
EQT 0034	E. GEN 02 - Generac SD 2000	1.12		13.75	324.96	5855	987
RLP 0024	PCSVENT - Process Condensate Stripper Vent	5.25		93.83	1.08	1407	248
RLP 0025	CTVENT - Condensate Trap Vents	.06		9.84			212

#### **Relationships:**

ID	Description	Description Relationship		Description		
EQT 0008	TK-04001 - Raw Methanol Tank	Controlled by	EMS 0001	D-04001 - Methanol Scrubber		
EQT 0013	TK-04002A - Pure Methanol Intermediate Tank	Controlled by	EMS 0001	D-04001 - Methanol Scrubber		
EQT 0017	TK-04002B - Pure Methanol Intermediate Tank	Controlled by	EMS 0001	D-04001 - Methanol Scrubber		
EQT 0018	F-03007 - Slop Vessel	Controlled by	EQT 0003	FLR - Flare		

#### Subject Item Groups:

ID	Group Type	Group Description
CRG 0001	Common Requirements Group	- EGEN and FWP Opacity Requirements
CRG 0002	Common Requirements Group	- Firewater Pump Engines
CRG 0004	Common Requirements Group	TNKS/SCRBBR - Raw Methanol Tank, Pure Methanol Intermediate Tanks, and Methanol Scrubber
CRG 0006	Common Requirements Group	- Methanol Product Tanks - Terminal
CRG 0007	Common Requirements Group	ENG GENS - Emergency Generators - Terminal
GRP 0002	Equipment Group	SMR BLR PCS Vent CAP - SMR, Boiler, PCS Vent CAP
GRP 0003	Equipment Group	MTPCAP - Methanol Transfer and Product Tank Cap
GRP 0004	Equipment Group	SATK CAP - Sulfuric Acid Tanks Cap
UNF 0001	Unit or Facility Wide	- Koch Methanol Facility

#### Group Membership:

ID	Description	Member of Groups
EMS 0001	D-04001 - Methanol Scrubber	CRG00000004
EQT 0001	SMR - Steam Methane Reformer	GRP00000002
EQT 0002	BLR - Auxiliary Boiler	GRP00000002

#### Group Membership:

ID	Description	Member of Groups
EQT 0004	EGEN - Plant Emergency Generator	CRG000000001
EQT 0005	FWP-01 - Firewater Pump Engine No. 1	CRG000000001, CRG000000002
EQT 0006	FWP-02 - Firewater Pump Engine No. 2	CRG000000001, CRG000000002
EQT 0008	TK-04001 - Raw Methanol Tank	CRG000000004
EQT 0013	TK-04002A - Pure Methanol Intermediate Tank	CRG000000004
EQT 0017	TK-04002B - Pure Methanol Intermediate Tank	CRG000000004
EQT 0022	FWP-03 - Firewater Pump Engine No. 3	CRG000000001, CRG000000002
EQT 0028	RT LOAD - Methanol Railcar and Tank Truck Loading Operations	GRP000000003
EQT 0029	TK-26-202A - Methanol Product Tank 2301	CRG000000006, GRP000000003
EQT 0030	TK-26-202B - Methanol Product Tank 2302	CRG000000006, GRP000000003
EQT 0031	TK-26-202C - Methanol Product Tank 2303	CRG000000006, GRP000000003
EQT 0032	TK-26-202D - Methanol Product Tank 2304	CRG000000006, GRP000000003
EQT 0033	E. GEN 01 - Generac SD 2000	CRG000000001, CRG000000007
EQT 0034	E. GEN 02 - Generac SD 2000	CRG000000001, CRG000000007
EQT 0036	TK-05006 - Sulfuric Acid Tank TK-05006	GRP000000004
EQT 0037	TK-05504 - Sulfuric Acid Tank TK-05504	GRP000000004
EQT 0038	TK-06001-17 - Sulfuric Acid Tank TK-06001-17	GRP000000004
EQT 0039	TK-09002-17 - Sulfuric Acid Tank TK-09002-17	GRP000000004
EQT 0040	TK-09006 - Sulfuric Acid Tank TK-09006	GRP000000004
RLP 0024	PCSVENT - Process Condensate Stripper Vent	GRP000000002

#### NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group.

#### Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units of Measure
0630	0630 Organic Oxides, Alcohols, Glycols (Rated Capacity)	4989.06	MM lbs/yr

#### SIC Codes:

2869	Industrial organic chemicals, nec	AI 194165
2869	Industrial organic chemicals, nec	UNF 001

# Al ID: 194165 - Koch Methanol St James LLC - Koch Methanol Facility Activity Number: PER20220006 Permit Number: 2560-00295-V6 Air - Title V Significant Modification

All Phases Koch Methanol Facility

	CO2e				PM 10		PM 2.5			SO2		
Subject Item	Avg lb/hr	Max Ib/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EMS 0001			2,137.00									
D-04001			2,107.00									
EQT 0001					13.37			13.37			1.08	
SMR					10.07			10.07			1.00	
EQT 0002					8.20			8.20			0.66	
BLR					0.20			0.20			0.00	
EQT 0003			47,641.00	0.04	2.50	0.16	0.04	2.50	0.16	0.02	0.67	0.10
FLR				0.04			0.04			0.02	0.07	0.10
EQT 0004			208.00	1.19	1.19	0.06	1.19	1.19	0.06	0.04	0.04	<0.01
EGEN			200.00	1.10						0.0+		
EQT 0005			34.00	0.20	0.20	0.01	0.20	0.20	0.01	0.01	0.01	<0.01
FWP-01				0.20			0.20			0.01		
EQT 0006			34.00	0.20	0.20	0.01	0.20	0.20	0.01	0.01	0.01	<0.01
FWP-02												
EQT 0007			634.00	0.41		1.82	0.19		0.84			
CWT												
EQT 0022			14.00	0.06	0.06	<0.01	0.06	0.06	<0.01	0.51	0.51	0.03
FWP-03												
EQT 0026 EGEN2			9.00	0.02	0.02	<0.01	0.02	0.02	<0.01	<0.001	< 0.001	< 0.01
EGENZ EQT 0027												
GASTANK												
EQT 0028	-											
RT LOAD					0.28			0.28			0.02	
EQT 0033												
E. GEN 01			167.00	0.84	0.84	0.04	0.84	0.84	0.04	0.04	0.04	<0.01
EQT 0034												
E. GEN 02			167.00	0.84	0.84	0.04	0.84	0.84	0.04	0.04	0.04	<0.01
FUG 0001	-					· · · · · · · · · · · · · · · · · · ·						
FUG			3,306.00									
FUG 0002												
WWT												
GRP 0002												
SMR BLR PCS Vent				16.76		73.42	16.76		73.42	1.35		5.91
CAP				10.10								
GRP 0003			11.000.00			0						
MTPCAP			11,282.00	0.16		0.72	0.16		0.72	0.01		0.06
RLP 0024	-	<u> </u>									-	
PCSVENT			1					]		J		

P340\_AP\_CRITERIA\_POLLUTANTS

## Al ID: 194165 - Koch Methanol St James LLC - Koch Methanol Facility Activity Number: PER20220006 Permit Number: 2560-00295-V6 Air - Title V Significant Modification

All Phases Koch Methanol Facility

EMS 0001 D-04001 EQT 0001 SMR EQT 0002 BLR EQT 0003 FLR EQT 0004	Avg lb/hr 6.15 38.24	Max lb/hr 17.25 15.00 523.60 38.24	Tons/Year 26.92	Avg lb/hr	Max lb/hr 98.50 48.02	Tons/Year	Avg lb/hr 2.30	Max lb/hr 6.71	Tons/Year 10.07
D-04001 EQT 0001 SMR EQT 0002 BLR EQT 0003 FLR EQT 0004	38.24	15.00 523.60	26.92	25.23			2.30		10.07
EQT 0001 SMR EQT 0002 BLR EQT 0003 FLR EQT 0004	38.24	15.00 523.60	26.92	25.23					10.07
SMR EQT 0002 BLR EQT 0003 FLR EQT 0004	38.24	15.00 523.60	26.92	25.23					
EQT 0002 BLR EQT 0003 FLR EQT 0004	38.24	15.00 523.60	26.92	25.23					
BLR EQT 0003 FLR EQT 0004	38.24	523.60	26.92	25.23	48.02				
EQT 0003 FLR EQT 0004	38.24	523.60	26.92	25.23	10.02			5.94	
FLR EQT 0004	38.24		26.92	25.23					
		38.24	1		2,170.00	110.50	2.25	11,056.44	9.87
			1.91	20.91	20.91	1.05	2.29	2.29	0.11
EGEN EQT 0005									
FWP-01	3.96	3.96	0.20	3.44	3.44	0.17	1.47	1.47	0.07
EQT 0006 FWP-02	3.96	3.96	0.20	3.44	3.44	0.17	1.47	1.47	0.07
EQT 0007									
CWT				1.07		4.69	8.40		36.79
EQT 0022									
FWP-03	1.49	1.49	0.07	0.50	0.50	0.02	0.61	0.61	0.03
EQT 0026		0.00	0.05		4.05	0.00	0.40	0.40	
EGEN2	0.92	0.92	0.05	1.85	1.85	0.09	0.46	0.46	0.02
EQT 0027							0.05		0.20
GASTANK							0.05		0.20
EQT 0028		9.31			3.07			18.54	
RT LOAD					0.01				
EQT 0033 E. GEN 01	28.48	28.48	1.42	2.90	2.90	0.14	2.06	2.06	0.10
EQT 0034	28.48	28.48	1.42	2.90	2.90	0.14	2.06	2.06	0.10
E. GEN 02	20.40	20.40	1.42	2.30	2.50	0.14	2.00	2.00	0.10
FUG 0001				3.65		15.97	9.93		43.51
FUG				0.00			0.00		
FUG 0002	1						1.26		5.53
WWT									
GRP 0002									
SMR BLR PCS Vent	22.50		98.56	9.25		40.51	7.30		31.99
CAP									
GRP 0003 MTPCAP	5.50		24.09	1.81		7.94	6.36		27.88
RLP 0024									,
PCSVENT					39.38				

Al ID: 194165 - Koch Methanol St James LLC - Koch Methanol Facility Activity Number: PER20220006 Permit Number: 2560-00295-V6 Air - Title V Significant Modification

All Phases Koch Methanol Facility

roon mound of room.	/											
		CO2e			PM 10			PM 2.5			SO2	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max Ib/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
RLP 0025			1.00									
CTVENT			1.00									

## Al ID: 194165 - Koch Methanol St James LLC - Koch Methanol Facility Activity Number: PER20220006 Permit Number: 2560-00295-V6 Air - Title V Significant Modification

All Phases

Koch Methanol Facility	/								
		NOx			co			voc	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
RLP 0025 CTVENT				0.02	0.02	0.07			

## Al ID: 194165 - Koch Methanol St James LLC - Koch Methanol Facility Activity Number: PER20220006 Permit Number: 2560-00295-V6 Air - Title V Significant Modification

Note: Emission rates associated with alternate operating scenarios (SCN) are not included in permitted totals unless otherwise noted in a footnote.

All phases			
EMS 0001	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit Which Months: All Year
EQT 0001	NOx	Max Ib/hr	Maximum hourly emissions of NOx <= 269.10 lb/hr for up to 100 hours of operation (12-month rolling sum) during SCR start up, shut down, or maintenance Which Months: All Year
EQT 0002	NOx	Max Ib/hr	Maximum hourly emissions of NOx <= 108.90 lb/hr for up to 500 hours of operation (12-month rolling sum) including, but not limited to, during SCR start up, shut down, or maintenance Which Months: All Year
EQT 0003	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit Which Months: All Year
EQT 0004	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit Which Months: All Year
EQT 0005	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit Which Months: All Year
EQT 0006	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit Which Months: All Year
EQT 0007	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit Which Months: All Year
EQT 0022	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit Which Months: All Year
EQT 0026	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit Which Months: All Year
EQT 0033	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit Which Months: All Year

P340\_AP\_CRITERIA\_POLLUTANTS

## Al ID: 194165 - Koch Methanol St James LLC - Koch Methanol Facility Activity Number: PER20220006 Permit Number: 2560-00295-V6 Air - Title V Significant Modification

E	Emission	Rates	Notes:

All phases			
EQT 0034	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit Which Months: All Year
FUG 0001	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit Which Months: All Year
GRP 0002	CO2e	Tons/Year	Ton/year limit of 1,335,462 tpy is provided for informational purposes only. Koch shall comply with a two- tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit Which Months: All Year
GRP 0003	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit Which Months: All Year
RLP 0025	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit Which Months: All Year

# **EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

Al ID: 194165 - Koch Methanol St James LLC - Koch Methanol Facility

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

# All phases

	Pollutant	Avg lb/hr	Max Ib/hr	Tons/Year
EMS 0001 D-04001	Methanol	2.30		10.07
EQT 0001	1,4-Dichlorobenzene		0.001	
SMR	Ammonia		24.06	
	Arsenic (and compounds)		<0.001	
	Barium (and compounds)		0.008	
	Benzene		0.003	
	Cadmium (and compounds)		0.002	
	Chromium VI (and compounds)		0.002	
	Cobalt compounds		<0.001	
	Copper (and compounds)		0.002	
	Formaldehyde		0.09	
	Manganese (and compounds)		<0.001	
	Mercury (and compounds)		<0.001	
	Methanol		4.98	
	n-Hexane		2.20	
	Naphthalene		<0.001	
	Nickel (and compounds)		0.004	
	Toluene		0.004	
	Zinc (and compounds)		0.05	
EQT 0002	1,4-Dichlorobenzene		<0.001	<u> </u>
BLR	Ammonia		10.21	
	Barium (and compounds)		0.005	······································
	Benzene		0.001	
	Cadmium (and compounds)		0.001	
	Chromium VI (and compounds)		0.002	
	Copper (and compounds)		<0.001	
	Formaldehyde		0.02	
	Manganese (and compounds)		< 0.001	
	Mercury (and compounds)		<0.001	
	Methanol		0.84	
	n-Hexane		0.58	
	Nickel (and compounds)		0.002	
	Toluene		0.001	
	Zinc (and compounds)		0.03	
EQT 0003	Barium (and compounds)	<0.001	0.118	0.002
FLR	Benzene	<0.001	0.06	<0.01
	Chromium VI (and compounds)	<0.001	0.038	0.001
	Formaldehyde	0.01	2.02	0.03
	Methanol	1.88	11056.44	8.22
	n-Hexane	0.16	48.38	0.69
	Nickel (and compounds)	<0.001	0.056	0.001
	Toluene	<0.001	0.09	<0.01
	Zinc (and compounds)	0.003	0.78	0.01
EQT 0004	Benzene	0.02	0.02	<0.01
EGEN EQT 0007	Methanol	8.40		36.79
CWT EQT 0014	Ammonia	0.13		0.56
FK-NH3				0.00

# **EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

Al ID: 194165 - Koch Methanol St James LLC - Koch Methanol Facility Activity Number: PER20220006 Permit Number: 2560-00295-V6 Air - Title V Significant Modification

All	phases

Emission Pt.	Pollutant	Avg lb/hr	Max Ib/hr	Tons/Year
EGEN2	Formaldehyde	0.08	0.08	<0.01
EQT 0027	2,2,4-Trimethylpentane	<0.001		<0.01
GASTANK	Benzene	<0.001		<0.01
	Ethyl benzene	<0.001		<0.01
	n-Hexane	<0.001		<0.01
	Toluene	<0.001		<0.01
EQT 0028	Formaldehyde		0.001	
RT LOAD	Methanol		18.44	
	n-Hexane		0.03	Part & Kennellen
	Zinc (and compounds)		0.001	
EQT 0033 E. GEN 01	Benzene	0.02	0.02	0.01
EQT 0034 E. GEN 02	Benzene	0.02	0.02	0.01
FUG 0001 FUG	Ammonia	0.21		0.93
	Methanol	8.86		38.82
FUG 0002 WWT	Ammonia	0.75		3.29
	Hydrogen sulfide	2.08		9.13
	Methanol	0.08		0.33
GRP 0002 SMR BLR PCS Vent	1,4-Dichlorobenzene	0.002		0.01
CAP	Ammonia	26.40		115.63
	Arsenic (and compounds)	0.001		0.001
	Barium (and compounds)	0.01		0.043
	Benzene	0.003		0.01
	Cadmium (and compounds)	0.003		0.014
	Chromium VI (and compounds)	0.004		0.014
	Cobalt compounds	0.001		<0.01
	Copper (and compounds)	0.002		0.008
	Formaldehyde	0.10		0.44
	Manganese (and compounds)	0.001		<0.01
	Mercury (and compounds)	0.001		0.003
	Methanol	4.38		19.20
	n-Hexane	2.39		10.47
	Naphthalene	0.002		0.01
	Nickel (and compounds)	0.005		0.02
	Toluene	0.01		0.02
	Zinc (and compounds)	0.06		0.28
GRP 0003	Formaldehyde	0.001		0.01
MTPCAP	Methanol	6.23		27.29
	n-Hexane	0.03		0.15
	Zinc (and compounds)	0.001		<0.01
GRP 0004 SATK CAP	Sulfuric acid	0.01		0.04
RLP 0024 PCSVENT	Ammonia		43.69	
RLP 0025 CTVENT	Ammonia	0.02	0.02	0.08
UNF 0001	1,4-Dichlorobenzene			0.01
	2,2,4-Trimethylpentane			0.01
	Acetaldehyde			0.01
	Ammonia			120.49

# **EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

Al ID: 194165 - Koch Methanol St James LLC - Koch Methanol Facility

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

# All phases

Emission Pt.	Pollutant	Avg lb/hr	Max Ib/hr	Tons/Year
	Arsenic (and compounds)			0.001
	Barium (and compounds)			0.045
	Benzene			0.05
	Cadmium (and compounds)			0.014
	Chromium VI (and compounds)			0.015
	Cobalt compounds			0.01
	Copper (and compounds)			0.008
	Ethyl benzene			0.01
	Formaldehyde			0.46
	Hydrogen sulfide			9.13
	Manganese (and compounds)			0.01
	Mercury (and compounds)			0.003
	Methanol			140.78
	n-Hexane			11.32
	Naphthalene			0.01
	Nickel (and compounds)			0.021
	Sulfuric acid			0.04
	Toluene			0.04
	Zinc (and compounds)			0.30

Note: Emission rates associated with alternate operating scenarios (SCN) are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

# **Emission Rates Notes:**

All phases

EMS 0001	Methanol	Tons/Year	All toxic air pollutants (TAP) limitations established in this "Emissions Rates for TAP/HAP & Other Pollutants" section of the permit are state-only Which Months: All Year	
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### CRG 0001 - EGEN and FWP Opacity Requirements

#### Group Members: EQT 0004 EQT 0005 EQT 0006 EQT 0022 EQT 0033 EQT 0034

1 [LAC 33:III.1101.B]	Opacity $\leq 20$ percent, except for emissions that have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
	Which Months: All Year Statistical Basis: None specified
2 [LAC 33:III.1311.C]	Opacity <= 20 percent, except for emissions that have an average opacity in excess of 20 percent for not more than one six-minute period
	in any 60 consecutive minutes.
	Which Months: All Year Statistical Basis: Six-minute average
3 [LAC 33:III.507.H.1.a]	Permittee shall ensure compliance with the opacity limits of this permit by visually inspecting each emergency engine's stack for visible emissions once each month or at each readiness testing event if the engine is tested at a frequency less than monthly. If visible emissions are not detected during the initial six minutes of the inspection, the inspection may be concluded. If visible emissions are detected, the inspection period shall be extended to one hour (60 consecutive minutes) or the duration of the test, whichever is shorter. If visible emissions are detected for more than one 6-minute period over the test period, the permittee shall conduct a 6-minute opacity reading in accordance with Method 9 of 40 CFR 60, Appendix A, during the next required visible emissions check. If the shade or appearance of the emission is darker than 20 percent average opacity (per Method 9), the permittee shall 1.) take corrective action to return the engine to its proper operating condition, and 2.) repeat the 6-minute opacity reading in accordance with Method 9. Records of visible emissions checks shall include the engine's ID number, the date the visual check was performed, a record if visible emissions were detected during the initial six minutes of the inspection, a record if visible emissions were detected for more than one 6-minute period (if required), a record and the results of any Method 9 testing conducted, and a record of any corrective action employed. These records shall be kept on-site and available for inspection by the Office of Environmental Compliance.
	As an alternative to the requirement to conduct Method 9 testing, the permittee may assume that any visible emissions detected constitute

opacity greater than 20 percent. In this case, no visible emissions detected shall be considered opacity less than or equal to 20 percent, even if a qualitative assessment suggests otherwise. The permittee may also determine opacity via any federally-approved alternative to Method 9 (e.g., Method ALT-082). In lieu of performing an initial visual inspection each month, the permittee may immediately perform a sixminute opacity reading in accordance with Method 9.

#### CRG 0002 - Firewater Pump Engines

#### Group Members: EQT 0005 EQT 0006 EQT 0022

4 [40 CFR 60.4205(c)]	Comply with the emission standards in Table 4 to Subpart IIII. [40 CFR 60.4205(c)]
5 [40 CFR 60.4205(e)]	Owners and operators of emergency stationary CI ICE who conduct performance tests in-use must meet the NTE standards as indicated in
	40 CFR 60.4212. [40 CFR 60.4205(e)]
6 [40 CFR 60.4206]	Operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the
	engine.
7 [40 CFR 60.4207(b)]	Use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. [40 CFR 60.4207(b)]
8 [40 CFR 60.4211(a)]	Except as permitted under 40 CFR 60.4211(g), operate and maintain the stationary CI internal combustion engine and control device
	according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the
	manufacturer; and meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable. [40 CFR 60.4211(a)]

## SPECIFIC REQUIREMENTS

# Al ID: 194165 - Koch Methanol St James LLC - Koch Methanol Facility Activity Number: PER20220006 Permit Number: 2560-00295-V6 Air - Title V Significant Modification

### <u>CRG 0002</u> - Firewater Pump Engines

Group Members: EQT 0005 EQT 0006 I	EQT 0022
9 [40 CFR 60.4211(c)]	Comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(c) for the same model year and NFPA nameplate engine power. Install and configure according to the manufacturer's emission-related specifications except as permitted in 40 CFR 60.4211 (g). [40 CFR 60.4211(c)]
10 [40 CFR 60.4211(f)]	<ul> <li>Operate the emergency stationary ICE according to the requirements in 40 CFR 60.4211(f)(1), (f)(2)(i), and (f)(3). In order for the engine to be considered an emergency stationary ICE, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, is prohibited. If you do not operate the engine according to these requirements, the engine will not be considered an emergency engine under Subpart IIII and must meet all requirements for non-emergency engines.</li> <li>(1) There is no time limit on the use of emergency stationary ICE in emergency situations.</li> <li>(2) Emergency stationary ICE may be operated for maintenance checks and readiness testing for a maximum of 100 hours per calendar year, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.</li> <li>(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing. [40 CFR 60.4211(f)]</li> </ul>
11 [40 CFR 60.4211(g)(3)]	If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, keep a maintenance plan and records of conducted maintenance and, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. Conduct subsequent performance testing every 8760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards. [40 CFR 60.4211(g)(3)]
12 [40 CFR 60.4212]	Conduct performance tests according to 40 CFR 60.4212(a)-(e).
13 [40 CFR 60.4218]	Comply with the General Provisions in 40 CFR 60.1 - 60.19 per Table 8 to Subpart IIII.
CRG 0004 TNKS/SCRBBR -	Raw Methanol Tank, Pure Methanol Intermediate Tanks, and Methanol Scrubber

#### Group Members: EMS 0001 EQT 0008 EQT 0013 EQT 0017

14 [40 CFR 63.119(a)]	Comply with the requirements of 40 CFR 63.119(a)(1) according to the schedule provisions of 40 CFR 63.100. Reduce hazardous air
	pollutant emissions to the atmosphere by operating and maintaining a closed vent system and control device in accordance with the
	requirements in 40 CFR 63.119(e). [40 CFR 63.119(a)]
15 [40 CFR 63.119(e)]	Comply with the requirements specified in 40 CFR 63.119(e)(1)-(5), as applicable. The control device shall be designed and operated to
	reduce inlet emissions of total organic HAP by 95 percent or greater. Periods of planned routine maintenance of the control device, during

reduce inlet emissions of total organic HAP by 95 percent or greater. Periods of planned routine maintenance of the control device, during which the control device does not meet the specifications of 40 CFR 63.119(e)(1), shall not exceed 240 hours per year. The specifications and requirements in 40 CFR 63.119(e)(1) do not apply during periods of planned routine maintenance or during a control system malfunction. [40 CFR 63.119(e)]

### CRG 0004 TNKS/SCRBBR - Raw Methanol Tank, Pure Methanol Intermediate Tanks, and Methanol Scrubber

#### Group Members: EMS 0001 EQT 0008 EQT 0013 EQT 0017

16 [40 CFR 63.120(d)]	To demonstrate compliance with 40 CFR $63.119(e)$ using a control device other than a flare, comply with the requirements in 40 CFR $63.120(d)(1)$ -(7), as applicable.
	(1) Prepare a design evaluation, which includes the information specified in 40 CFR 63.120(d)(1)(i). The design evaluation shall include documentation demonstrating that the control device being used achieves the required control efficiency during reasonably expected maximum filling rate. This documentation is to include a description of the gas stream which enters the control device, including flow and organic HAP content under varying liquid level conditions.
	(2) Submit, as part of the Notification of Compliance Status required by 40 CFR 63.151(b), a monitoring plan containing a description of the parameter or parameters to be monitored to ensure that the control device is being properly operated and maintained, an explanation of the criteria used for selection of that parameter (or parameters), and the frequency with which monitoring will be performed (e.g., when the liquid level in the storage vessel is being raised); and the documentation specified in 40 CFR 63.120(d)(1)(i).
	(3) Submit, as part of the Notification of Compliance Status required by 40 CFR 63.152(b), the operating range for each monitoring parameter identified in the monitoring plan. The specified operating range shall represent the conditions for which the control device is being properly operated and maintained.
	(4) Demonstrate compliance with the requirements of 40 CFR 63.119(e)(3) (planned routine maintenance of a control device, during which the control device does not meet the specifications of 40 CFR 63.119(e)(1), shall not exceed 240 hours per year) by including in each periodic report required by 40 CFR 63.152(c) the information specified in 40 CFR 63.122(g)(1).
	(5) Monitor the parameters specified in the Notification of Compliance Status required in 40 CFR 63.152(b) or in the operating permit and operate and maintain the control device such that the monitored parameters remain within the ranges specified in the Notification of Compliance Status.
	(6) Each closed vent system shall be inspected as specified in 40 CFR 63.148. The initial and annual inspections required by 40 CFR 63.148(b) shall be done during filling of the storage vessel. [40 CFR 63.120(d)]
17 [40 CFR 63.122(a)]	<ul> <li>(1) Submit an Initial Notification as required by 40 CFR 63.151(b).</li> <li>(2) Submit a Notification of Compliance Status as required by 40 CFR 63.152(b) and submit as part of the Notification of Compliance Status the information specified in 40 CFR 63.122(c).</li> </ul>
	(3) Submit periodic reports as required by 40 CFR 63.152(c) and submit as part of the periodic reports the information specified in 40 CFR 63.122(g). [40 CFR 63.122(a)]
18 [40 CFR 63.122(b)]	Submit, as part of the Monitoring Plan, the information specified in 40 CFR 63.120(d)(2)(i) and (ii). [40 CFR 63.122(b)]

### CRG 0004 TNKS/SCRBBR - Raw Methanol Tank, Pure Methanol Intermediate Tanks, and Methanol Scrubber

#### Group Members: EMS 0001 EQT 0008 EQT 0013 EQT 0017

19 [40 CFR 63.122(g)]	Submit, as part of the next periodic report required by 40 CFR 63.152(c), the following information: (1) As required by 40 CFR 63.120(d)(4), the periodic report shall include the following information for those planned routine maintenance operations that would require the control device not to meet the requirements of 40 CFR 63.119(e)(1): (i) a description of the planned routine maintenance that is anticipated to be performed for the control device during the next 6 months. This description shall include the type of maintenance necessary, planned frequency of maintenance, and lengths of maintenance periods; and (ii) a description of the planned routine maintenance that was performed for the control device during the previous 6 months. This description shall include the type of maintenance performed and the total number of hours during those 6 months that the control device did not meet the requirements of 40 CFR 63.119(e)(1) due to planned routine maintenance.
	(2) The periodic report shall describe each occurrence when the monitored parameters were outside of the parameter ranges documented in the Notification of Compliance Status in accordance with 40 CFR 63.120(d)(3)(i). The description shall identify the control device for which the measured parameters were outside of the established ranges, and the cause for the measured parameters to be outside of the established ranges. [40 CFR 63.122(g)]
20 [40 CFR 63.123(a)]	Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. This record shall be kept as long as the storage vessel retains Group 1 or Group 2 status and is in operation. [40 CFR 63.123(a)]
21 [40 CFR 63.123(f)]	Keep in a readily accessible location a record of the measured values of the parameters monitored in accordance with 40 CFR 63.120(d)(5) and a record of the planned routine maintenance performed on the control device including the duration of each time the control device does not meet the specifications of 40 CFR 63.119(e)(1) due to the planned routine maintenance. Such a record shall include the first time of day and date the requirements of 40 CFR 63.119(e)(1) were not met at the beginning of the planned routine maintenance, and the first time of day and date the requirements of 40 CFR 63.119(e)(1) were met at the conclusion of the planned routine maintenance. [40 CFR 63.123(f)]
22 [40 CFR 63.148(b)]	<ul> <li>Except as provided in 40 CFR 63.148(g) and (h), each vapor collection system and closed-vent system shall be inspected according to the procedures and schedule specified in 40 CFR 63.148(b)(1) and (2) and each fixed roof, cover, and enclosure shall be inspected according to the procedures and schedule specified in 40 CFR 63.148(b)(3).</li> <li>(1) If the vapor collection system or closed vent system is constructed of hard-piping, conduct an initial inspection according to the procedures in 40 CFR 63.148(c), and conduct annual visual inspections for visible, audible, or olfactory indications of leaks.</li> <li>(2) If the vapor collection system or closed vent system is constructed of ductwork, conduct an initial inspection according to the procedures in 40 CFR 63.148(c); conduct annual visual inspections according to the procedures in 40 CFR 63.148(c); conduct annual inspections according to the procedures in 40 CFR 63.148(c); conduct annual inspections according to the procedures in 40 CFR 63.148(c); conduct annual inspections according to the procedures in 40 CFR 63.148(c); conduct annual inspections according to the procedures in 40 CFR 63.148(c); conduct annual inspections according to the procedures in 40 CFR 63.148(c); and conduct annual visual inspections for visible, audible, or olfactory indications of leaks.</li> <li>(3) For each fixed roof, cover, and enclosure, conduct initial visual inspections and semi-annual visual inspections for visible, audible, or olfactory indications of leaks as specified in 40 CFR 63.133 through 63.137. [40 CFR 63.148(b)]</li> </ul>
23 [40 CFR 63.148(c)]	Each vapor collection system and closed vent system shall be inspected according to the procedures specified in 40 CFR 63.148(c)(1)-(5). [40 CFR 63.148(c)]

### CRG 0004 TNKS/SCRBBR - Raw Methanol Tank, Pure Methanol Intermediate Tanks, and Methanol Scrubber

## Group Members: EMS 0001 EQT 0008 EQT 0013 EQT 0017

24 [40 CFR 63.148(f)]	For each vapor collection system or closed vent system that contains bypass lines that could divert a vent stream away from the control device and to the atmosphere:
	(1) Install, calibrate, maintain, and operate a flow indicator that determines whether vent stream flow is present at least once every 15 minutes. Records shall be generated as specified in 40 CFR 63.118(a)(3). The flow indicator shall be installed at the entrance to any bypass line; or
	(2) Secure the bypass line value in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure the value is maintained in the closed position and the vent stream is not diverted through the bypass line.
	(3) Equipment such as low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, and pressure relief valves needed for safety purposes are not subject to this requirement. [40 CFR 63.148(f)]
25 [LAC 33:III.2103.B]	Do not place, store, or hold in any stationary tank, reservoir, or other container of more than 40,000 gallons nominal capacity any volatile organic compound having a maximum true vapor pressure of 1.5 psia or greater at storage conditions unless such tank, reservoir, or other container is a pressure tank capable of maintaining working pressures sufficient at all times under normal operating conditions to prevent
	vapor or gas loss to the atmosphere or is designed and equipped with a submerged fill pipe and an internal floating roof, external floating roof, or vapor loss control system.
26 [LAC 33:III.2103.E.3]	** PERMIT SHIELD: Compliance with the provisions of 40 CFR 63 Subpart G shall constitute compliance with LAC 33:III.2103 **. The specifications and requirements in LAC 33:III.2103.E.1 do not apply during periods of planned routine maintenance. Periods of
20 [LAC 33.III.2103.E.3]	planned routine maintenance of the vapor loss control system, during which the vapor loss control system does not meet the specifications of LAC 33:III.2103.E.1, shall not exceed 240 hours per year.
	** PERMIT SHIELD: Compliance with the provisions of 40 CFR 63 Subpart G shall constitute compliance with LAC 33:III.2103 **. A vapor loss control system shall consists of a gathering system capable of collecting the volatile organic compound (VOC) vapors and a
27 [LAC 33:III.2103.E]	vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. The vapor loss control system shall reduce inlet emissions of total volatile organic compounds by 95
	percent or greater. ** PERMIT SHIELD: Compliance with the provisions of 40 CFR 63 Subpart G shall constitute compliance with LAC 33:III.2103 **.
28 [LAC 33:III.2103.I]	Maintain records to verify compliance with LAC 33:III.2103. The records shall be maintained for at least two years and shall include, but not be limited to, the following:
	(1) the date and reason for any maintenance and repair of the control device and the estimated quantity and duration of VOC emissions during such activities;
	(2) the results of any testing conducted in accordance with the provisions specified in LAC 33:III.2103.H; and
	(3) records of planned routine maintenance performed on the vapor loss control system, including the duration of each time the vapor loss control system does not meet the specifications of LAC 33:III.2103.E.1 due to the planned routine maintenance. Such records shall include
	the first time of day and date the requirements of LAC 33:III.2103.E.1 were not met, at the beginning of the planned routine maintenance; and the first time of day and date the requirements of LAC 33:III.2103.E.1 were met, at the conclusion of the planned routine maintenance. ** PERMIT SHIELD: Compliance with the provisions of 40 CFR 63 Subpart G shall constitute compliance with LAC 33:III.2103 **.

#### CRG 0004 TNKS/SCRBBR - Raw Methanol Tank, Pure Methanol Intermediate Tanks, and Methanol Scrubber

#### Group Members: EMS 0001 EQT 0008 EQT 0013 EQT 0017

29 [LAC 33:III.507.H.1.a]	Compliance demonstration method: VOC emissions shall be calculated monthly using the equations set forth in AP-42 Section 7.1.3.1 (Total Losses From Fixed Roof Tanks); the design parameters of the storage tanks, as constructed (e.g., tank dimensions, paint characteristics, roof characteristics, etc.); the actual throughput of methanol; the average daily temperature of the methanol stored during
	the calendar month; the control efficiency of the scrubber determined in accordance with 40 CFR 63.120(d) of Subpart G; and expansion gas vessel emissions determined by facility mass balance and engineering judgement.
30 [LAC 33:III.507.H.1.a]	The permittee shall monitor and record the temperature of the methanol stored in each tank daily.
31 [LAC 33:III.507.H.1.a]	The permittee shall monitor and record the throughput of each tank during each calendar month.
32 [LAC 33:III.509]	BACT for VOC emissions is determined to be routing displaced vapors from fixed roof tanks TK-04001 (EQT0008), TK-04002A
	(EQT0013), and TK-04002B (EQT0017) to a vapor collection system and a chiller and scrubber system with 98% efficiency. The BACT
	will limit VOC emissions of D-04001 Methanol Scrubber (EMS0001) to 10.07 tpy, 12 month rolling average, based on achieving 98%
	control of the emissions.

### <u>CRG 0006</u> - Methanol Product Tanks - Terminal

#### Group Members: EQT 0029 EQT 0030 EQT 0031 EQT 0032

33 [40 CFR 63.119(a)(1)]	Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the
	emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
34 [40 CFR 63.119(b)(1)-(2)]	The internal floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports during the initial fill, after the vessel has been completely emptied and degassed, and when the vessel is completely emptied before being subsequently refilled. When the floating roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as practical. The intent of these requirements is to avoid having a vapor space between the floating roof and the stored liquid for extended periods. Storage vessels may be emptied for purposes such as routine storage vessel
	maintenance, inspections, petroleum liquid deliveries, or transfer operations. Storage vessels where liquid is left on walls, as bottom clingage, or in pools due to floor irregularity are considered completely empty. [40 CFR 63.119(b)(1)-(2)]
35 [40 CFR 63.119(b)(3)]	Internal floating roof: Equip each internal floating roof with a closure device between the wall of the storage vessel and the roof edge. Closure device shall consist of one of the devices listed in 40 CFR 63.119(b)(3)(i) through (b)(3)(iii), except as specified in 40 CFR 63.119 (b)(3)(iv). Subpart G. [40 CFR 63.119(b)(3)]
36 [40 CFR 63.119(b)(4)]	Internal floating roof: Ensure that automatic bleeder vents are closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Subpart G. [40 CFR 63.119(b)(4)]
37 [40 CFR 63.119(b)(5)]	Internal floating roof: Ensure that each internal floating roof meets the specifications listed in 40 CFR 63.119(b)(5)(i) through (b)(5)(vii), except as provided in 40 CFR 63.119(b)(5)(viii). Subpart G. [40 CFR 63.119(b)(5)]
38 [40 CFR 63.119(b)(6)]	Internal floating roof: Ensure that each cover or lid on any opening in the internal floating roof is closed except when the cover or lid must be open for access. Ensure that covers on each access hatch and each gauge float well are bolted or fastened so as to be air-tight when they are closed. Rim space vents are to be set to open only when the internal floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Subpart G. [40 CFR 63.119(b)(6)]

### <u>CRG 0006</u> - Methanol Product Tanks - Terminal

#### Group Members: EQT 0029 EQT 0030 EQT 0031 EQT 0032

39 [40 CFR 63.120(5)-(6)]	For all the inspections required by 40 CFR 63.120(a)(2)(ii), (a)(3)(i), and (a)(3)(iii), notify the Administrator in writing at least 30 calendar days prior to the refilling of each storage vessel. If the inspection is not planned, and the permittee could not have known about the inspection 30 calendar days in advance of refilling the vessel, notify the Administrator at least 7 calendar days prior to the refilling of the storage vessel. Notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, the notification, including the written documentation, may be made in writing and sent so that it is received by the Administrator at least 7 calendar days prior to refilling. [40 CFR 63.120(5)-(6)]
40 [40 CFR 63.120(a)(1)]	Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service) according to the schedule specified in 40 CFR 63.120(a)(2) and (a)(3). Subpart G. [40 CFR 63.120(a)(1)] Which Months: All Year Statistical Basis: None specified
41 [40 CFR 63.120(a)(2)]	For vessels equipped with a single-seal system, visually inspect the internal floating roof, and the seal through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill, or at least once every 12 months after the compliance date specified in 40 CFR 63.100; and visually inspect the internal floating roof, the seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed, and at least once every 10 years after the compliance date specified in 40 CFR 63.100. [40 CFR 63.120(a)(2)]
42 [40 CFR 63.120(a)(3)]	For vessels equipped with a double-seal system as specified in 40 CFR 63.119(b)(3)(iii), perform either the inspection required in 40 CFR 63.120(a)(3)(i) or the inspections required in both 40 CFR 63.120(a)(3)(ii) and (iii). [40 CFR 63.120(a)(3)]
43 [40 CFR 63.120(a)(4)]	Repair storage vessel or empty and remove from service within 45 calendar days, if during the inspections required by 40 CFR 63.120(a) $(2)(i)$ or $(a)(3)(ii)$ , any of the conditions specified in 40 CFR 63.120(a)(4) are found. Subpart G. [40 CFR 63.120(a)(4)]
44 [40 CFR 63.120(a)(7)]	If any of the conditions listed in 40 CFR 63.120(a)(7) are found during the inspections required by 40 CFR 63.120(a)(2)(ii), (a)(3)(i), or (a) (3)(ii), repair the storage vessel as necessary so that none of the conditions specified exist before filling or refilling the storage vessel with organic HAP. Subpart G. [40 CFR 63.120(a)(7)]
45 [40 CFR 63.122(a)(1)]	Submit an Initial Notification as required by 40 CFR 63.151(b). Subpart G. [40 CFR 63.122(a)(1)]
46 [40 CFR 63.122(a)(3)]	Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
47 [40 CFR 63.122(a)(4)]	Submit Periodic Reports as required by 40 CFR 63.152(c). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
48 [40 CFR 63.122(a)(5)]	Submit, as applicable, other reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(h). Subpart G. [40 CFR 63.122(a)(5)]
49 [40 CFR 63.122(d)]	Submit, as part of the periodic report required under 40 CFR 63.152(c), the results of each inspection conducted in accordance with 40 CFR 63.120(a) in which a failure is detected in the control equipment. Include the information specified in 40 CFR 63.122(d)(1) or (2), as applicable. [40 CFR 63.122(d)]
50 [40 CFR 63.122(h)(1)]	Notify the Administrator of the refilling of a storage vessel that has been emptied and degassed in accordance with 40 CFR 63.120(a)(5) or (6), as applicable. [40 CFR 63.122(h)(1)]
51 [40 CFR 63.123(a)]	Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. This record shall be kept as long as the storage vessel is in operation. [40 CFR 63.123(a)]
52 [40 CFR 63.123(c)]	Keep a record that each inspection required by 40 CFR 63.120(a) was performed. [40 CFR 63.123(c)]

### CRG 0006 - Methanol Product Tanks - Terminal

#### Group Members: EQT 0029 EQT 0030 EQT 0031 EQT 0032

53 [40 CFR 63.123(g)]	If the permittee elects to utilize an extension in emptying a storage vessel in accordance with 40 CFR 63.120(a)(4), keep in a readily accessible location the documentation specified in 40 CFR 63.120(a)(4). [40 CFR 63.123(g)]
54 [40 CFR 63.152(d)(1)]	Submit reports of start-up, shutdown, and malfunction required by 40 CFR $63.10(d)(5)$ . The start-up, shutdown and malfunction reports may be submitted on the same schedule as the periodic reports required under 40 CFR $63.152(c)$ instead of the schedule specified in 40 CFR $63.10(d)(5)$ . Submit notifications of inspections required by 40 CFR $63.122(h)(1)$ and (2). [40 CFR $63.152(d)(1)$ , 40 CFR $63.152(d)$ (2)]
55 [LAC 33:III.2103.B]	Do not place, store, or hold in any stationary tank, reservoir, or other container of more than 40,000 gallons nominal capacity any volatile organic compound having a maximum true vapor pressure of 1.5 psia or greater at storage conditions unless such tank, reservoir, or other container is a pressure tank capable of maintaining working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere or is designed and equipped with a submerged fill pipe and an internal floating roof, external floating roof, or vapor loss control system.
	** PERMIT SHIELD: Compliance with the provisions of 40 CFR 63 Subpart G shall constitute compliance with LAC 33:III.2103 **.
56 [LAC 33:III.2103.C]	An internal floating roof shall consist of a pontoon type roof, double-deck type roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
57 [LAC 33:III.2103.I]	** PERMIT SHIELD: Compliance with the provisions of 40 CFR 63 Subpart G shall constitute compliance with LAC 33:III.2103 **. Maintain records to verify compliance with LAC 33:III.2103.
57 [LAC 55.11.2105.1]	** PERMIT SHIELD: Compliance with the provisions of 40 CFR 63 Subpart G shall constitute compliance with LAC 33:III.2103 **.
58 [LAC 33:III.501.C.6]	The permittee shall ensure that the design of the tanks meets relevant National Fire Protection Association (NFPA) 69 (Standard on Explosion Prevention Systems) guidelines.
59 [LAC 33:III.507.H.1.a]	The permittee shall monitor and record the number and duration of floating roof landings (i.e., periods when the floating roof is resting on its leg supports) and the number of tank cleanings.
60 [LAC 33:III.507.H.1.a]	The permittee shall monitor and record the temperature of the methanol stored in each tank daily. The permit requires daily temperature monitoring and the use of the average monthly liquid temperature (i.e., actual storage conditions) to determine actual emissions.
61 [LAC 33:III.507.H.1.a]	The permittee shall monitor and record the throughput of each tank during each calendar month.
62 [LAC 33:III.509]	BACT is determined to be the use of an internal floating roof and compliance with the applicable requirements of 40 CFR Subpart G.

# CRG 0007 ENG GENS - Emergency Generators - Terminal

### Group Members: EQT 0033 EQT 0034

63 [40 CFR 60.4205(b)]	Comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power. Subpart IIII. [40 CFR 60.4205(b)]
64 [40 CFR 60.4206]	Operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 40 CFR 60.4205 over the entire life of the engine. Subpart IIII.
65 [40 CFR 60.4207(b)]	Use diesel fuel that meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. Subpart IIII. [40 CFR 60.4207(b)]
66 [40 CFR 60.4209(a)]	Operating time monitored by hour/time monitor continuously during operation. If the emergency engine meets the standards applicable to emergency engines, install a non-resettable hour meter prior to startup of the engine. Subpart IIII. [40 CFR 60.4209(a)] Which Months: All Year Statistical Basis: None specified

### CRG 0007 ENG GENS - Emergency Generators - Terminal

Group Members: EQT 0033 EQT 0034	
67 [40 CFR 60.4211(a)(1)]	Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions, except as permitted in 40 CFR 60.4211(g). Subpart IIII. [40 CFR 60.4211(a)(1)]
68 [40 CFR 60.4211(a)(2)]	Change only those emission-related settings that are permitted by the manufacturer, except as permitted in 40 CFR 60.4211(g). Subpart IIII. [40 CFR 60.4211(a)(2)]
69 [40 CFR 60.4211(a)(3)] 70 [40 CFR 60.4211(c)]	Meet the requirements of 40 CFR 1068, as applicable, except as permitted in 40 CFR 60.4211(g). Subpart IIII. [40 CFR 60.4211(a)(3)] Ensure engine is certified to the emission standards in 40 CFR 60.4204(b), or 40 CFR 60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. Install and configure according to the manufacturer's emissions-related specifications, except as permitted in 40 CFR 60.4211(g). Subpart IIII. [40 CFR 60.4211(a)(3)]
71 [40 CFR 60.4211(f)(1)] 72 [40 CFR 60.4211(f)(2)(i)]	There is no time limit on the use of emergency stationary ICE in emergency situations. Subpart IIII. [40 CFR 60.4211(f)(1)] Operate for maintenance checks and readiness testing for a maximum of 100 hours per calendar year, provided that the tests are recommended by the federal, state or local government; the manufacturer; the vendor; the regional transmission organization or equivalent balancing authority and transmission operator; or the insurance company associated with the engine. LDEQ may be petitioned for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if records are maintained indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. Subpart IIII. [40 CFR 60.4211(f)(2)(i)]
73 [40 CFR 60.4211(f)(3)]	Operate for up to 50 hours per calendar year in non-emergency situations. Count the 50 hours of operation in non-emergency situations as part of the 100 hours per calendar year for maintenance and testing provided in 40 CFR 60.4211(f)(2)(i). Do not use the 50 hours per calendar year for non-emergency situations for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity, except as provided in 40 CFR 60.4211(f)(3) (i). Subpart IIII. [40 CFR 60.4211(f)(3)]
74 [40 CFR 60.4211(f)]	Operate according to the requirements in 40 CFR 60.4211(f)(1), (f)(2)(i), and (f)(3). In order for the engine to be considered an emergency stationary ICE under 40 CFR 60 Subpart IIII, any operation other than as described in 40 CFR 60.4211(f)(1), (f)(2)(i), and (f)(3) is prohibited. If the engine is not operated according to these requirements, the engine will not be considered an emergency engine under 40 CFR 60 Subpart IIII and must meet all requirements for non-emergency engines. Subpart IIII. [40 CFR 60.4211(f)]
75 [40 CFR 60.4211(g)(3)] 76 [40 CFR 60.4211(g)(3)]	Keep a maintenance plan and records of conducted maintenance. Subpart IIII. [40 CFR 60.4211(g)(3)] Maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. Subpart IIII. [40 CFR 60.4211(g)(3)]
77 [40 CFR 60.4211(g)]	Conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year after the engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions (can include within 1 year of startup), or within 1 year after the emission-related settings are changed in a way that is not permitted by the manufacturer. Conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance, if the engine is greater than 500 HP. Subpart IIII. [40 CFR 60.4211(g)]
78 [40 CFR 60.4212] 79 [40 CFR 60.4214(b)]	Conduct performance tests according to 40 CFR 60.4212(a) through (e). Subpart IIII. Operating time recordkeeping by electronic or hard copy upon occurrence of event. If the emergency engine meets the standards applicable to emergency engines in the applicable model year, keep records of the operation of the engine in emergency and non- emergency service that are recorded through the non-resettable hour meter. Record the time of operation of the engine and the reason the engine was in operation during that time. Subpart IIII. [40 CFR 60.4214(b)]

## CRG 0007 ENG GENS - Emergency Generators - Terminal

Group Members: EQT 0033 EQT 0034	
80 [40 CFR 63.6590(b)(1)(i)]	Engines do not have to meet the requirements of subpart ZZZZ and of subpart A of this part except for the initial notification requirements of $63.6645(f)$ . Subpart ZZZZ. [40 CFR 63.6590(b)(1)(i)]
81 [LAC 33:III.507.H.1.a]	Compliance demonstration for NOx, CO, PM10, PM2.5, and VOC: Emissions for NOx, CO, PM10, and PM2.5 shall be calculated using engine manufacturer rating data, engine horsepower rating, average BSFC of 7000 BTU/hp-hr, and actual non-emergency operating hours. Emissions for VOC shall be calculated using AP-42 Table 3.4-1 emission factor for TOC (as CH4) engine horsepower rating, average BSFC of 7000 BTU/hp-hr, and actual operating hours. Emissions during emergency use must be reported pursuant to LAC 33.III.919, but shall not be counted against permit limits for purposes of determining compliance.
82 [LAC 33:III.509]	BACT for PM10, PM2.5, CO, NOx, and VOC is compliance with 40 CFR 60 Subpart IIII.

## EQT 0001 SMR - Steam Methane Reformer

83 [40 CFR 60.662(a)]	Reduce emissions of TOC (less methane and ethane) by 98 weight-percent, or to a TOC (less methane and ethane) concentration of 20
	ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. The vent stream shall be introduced into the flame zone of
	the process heater. The requirement for an initial performance test is waived per 40 CFR 60.664(c). [40 CFR 60.662(a)]
84 [40 CFR 60.663(c)(1)]	Install, calibrate, maintain and operate according to the manufacturer's specifications a flow indicator that provides a record of vent stream
	flow to the process heater at least once every hour for each affected facility. The flow indicator shall be installed in the vent stream from
	each distillation unit within an affected facility at a point closest to the inlet of each process heater and before being joined with any other
	vent stream.
	** Per 40 CFR 60.13(i), LDEQ has approved compliance with the monitoring procedures set forth in 40 CFR 60.703(c)(1) as an alternative
	to the requirements of 40 CFR 60.663(c)(1) **. [40 CFR 60.663(c)(1)]
85 [40 CFR 60.663(d)]	Monitor and record the periods of operation of the process heater. The records must be readily available for inspection. [40 CFR 60.663
	(d)]
86 [40 CFR 60.665(a)]	Notify the Administrator of the specific provisions of 40 CFR 60.662 ((a), (b), or (c)) with which the owner or operator has elected to
	comply. Notification shall be submitted with the notification of initial start-up required by 40 CFR 60.7(a)(3). [40 CFR 60.665(a)]
87 [40 CFR 60.665(b)(2)(i)]	Keep an up-to-date, readily accessible record of the description of the location at which the vent stream is introduced into the process
	heater. [40 CFR 60.665(b)(2)(i)]
88 [40 CFR 60.665(c)]	Keep up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored under 40 CFR
	60.663(c).
	** Per 40 CFR 60.13(i), LDEQ has approved compliance with the recordkeeping requirements set forth in 40 CFR 60.705(c) as an
	alternative to the requirements of 40 CFR 60.665(c) **. [40 CFR 60.665(c)]
89 [40 CFR 60.665(d)]	Keep up to date, readily accessible continuous records of the flow indication specified under 40 CFR 60.663(c)(1), as well as up-to-date,
	readily accessible records of all periods when the vent stream is diverted from the control device or has no flow rate.
	** Per 40 CFR 60.13(i), LDEQ has approved compliance with the recordkeeping requirements set forth in 40 CFR 60.705(d) as an
	alternative to the requirements of 40 CFR 60.665(d) **. [40 CFR 60.665(d)]
90 [40 CFR 60.665(e)]	Keep an up-to-date, readily accessible record of all periods of operation of the process heater. Examples of such records could include
	records of steam use, fuel use, or monitoring data collected pursuant to other state or federal regulatory requirements. [40 CFR 60.665(e)]

## EQT 0001 SMR - Steam Methane Reformer

91 [40 CFR 60.665(l)]	Submit to the Administrator semiannual reports of all periods recorded under 40 CFR 60.665(d) when the vent stream is diverted from the control device or has no flow rate and all periods recorded under 40 CFR 60.665(e) when the process heater was not operating. The initial report shall be submitted within 6 months after the initial start-up date.
	** Note: The information described in 40 CFR 60.705(l) shall be submitted in lieu of that required by 40 CFR 60.665(d) **. [40 CFR 60.665(l)]
92 [40 CFR 60.702(a)]	Reduce emissions of TOC (less methane and ethane) by 98 weight-percent, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. The vent stream shall be introduced into the flame zone. The requirement for an initial performance test is waived per 40 CFR 60.704(b)(5). [40 CFR 60.702(a)]
93 [40 CFR 60.703(c)(1)]	Install, calibrate, maintain and operate according to the manufacturer's specifications a flow indicator that provides a record of vent stream flow diverted from being routed to the process heater at least once every 15 minutes for each affected facility. The flow indicator shall be installed at the entrance to any bypass line that could divert the vent stream from being routed to the process heater, resulting in its emission to the atmosphere. Where the bypass line valve is secured in the closed position with a car-seal or a lock-and-key type configuration, a flow indicator is not required. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. [40 CFR 60.703(c)(1)]
94 [40 CFR 60.705(a)]	Notify the Administrator of the specific provisions of 40 CFR 60.702 ((a), (b), or (c)) with which the owner or operator has elected to comply. Notification shall be submitted with the notification of initial start-up required by 40 CFR 60.7(a)(3). [40 CFR 60.705(a)]
95 [40 CFR 60.705(b)(2)(i)]	Keep an up-to-date, readily accessible record of the description of the location at which the vent stream is introduced into the process heater. [40 CFR 60.705(b)(2)(i)]
96 [40 CFR 60.705(c)]	Keep up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored under 40 CFR 60.703(c). [40 CFR 60.705(c)]
97 [40 CFR 60.705(d)]	Keep up-to-date, readily accessible continuous records of the flow indication specified under 40 CFR $60.703(c)(1)(i)$ , as well as up-to-date, readily accessible records of all periods and the duration when the vent stream is diverted from the control device. Where a seal mechanism is used to comply with 40 CFR $60.703(c)(1)(i)$ , a record of continuous flow is not required. In such cases, the permittee shall keep up-to-date, readily accessible records of all monthly visual inspections of the seals as well as readily accessible records of all periods and the duration when the seal mechanism is broken, the bypass line valve position has changed, the serial number of the broken car-seal has changed, or when the key for a lock-and-key type configuration has been checked out. [40 CFR $60.705(d)$ ]
98 [40 CFR 60.705(l)]	Submit to the Administrator semiannual reports of all periods and duration recorded under 40 CFR 60.705(d) when the vent stream is diverted from the control device to the atmosphere and all periods recorded under 40 CFR 60.705(d) in which the seal mechanism is broken or the by-pass line valve position has changed. A record of the serial number of the car-seal or a record to show that the key to unlock the bypass line valve was checked out must be maintained to demonstrate the period, the duration, and frequency in which the bypass line was operated. The initial report shall be submitted within 6 months after the initial start-up date. [40 CFR 60.705(l)]
99 [40 CFR 60.705(s)]	Maintain on file a schematic diagram of the affected vent streams, collection system(s), fuel systems, control devices, and bypass systems as part of the initial report. This schematic diagram must be retained for the life of the system. [40 CFR 60.705(s)]
100 [40 CFR 63.110(d)(4)]	If the process vent is classified as a Group 1 process vent that is also subject to the provisions of 40 CFR part 60, subpart NNN is required to comply only with the provisions of this 40 CFR 63 Subpart G. [40 CFR 63.110(d)(4)]
101 [40 CFR 63.110(d)(5)]	If the process vent is classified as a Group 2 process vent that is also subject to the provisions of 40 CFR part 60, subpart NNN shall determine requirements according to paragraphs 40 CFR 63.110(d)(5)(i) and 40 CFR 63.110(d)(5)(ii). [40 CFR 63.110(d)(5)]
102 [40 CFR 63.110(d)(7)]	If the process vent is determined as a Group 1 process vent that is also subject to the provisions of 40 CFR part 60, subpart RRR is required to comply only with the provisions of this 40 CFR 63 Subpart G. [40 CFR 63.110(d)(7)]

## EQT 0001 SMR - Steam Methane Reformer

103 [40 CFR 63.110(d)(8)]	If the process vent is determined as a Group 2 process vent that is also subject to the provisions of 40 CFR part 60, subpart RRR shall determine requirements according to 40 CFR 63.110(d)(8)(i) and 40 CFR 63.110(d)(8)(ii). [40 CFR 63.110(d)(8)]
104 [40 CFR 63.113(a)(2)]	Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR $63.116(c)$ . Subpart G. [40 CFR $63.113(a)(2)$ ]
	Which Months: All Year Statistical Basis: None specified
105 [40 CFR 63.114(d)]	Comply with one of the following for a bypass line: 1) Flow monitored by flow indicator once every 15 minutes. Equip the flow indicator with a recorder that takes a reading at least once every 15 minutes and install at the entrance to any bypass line that could divert the gas stream to the atmosphere; or 2) Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)]
106 [40 CFR 63.117(a)]	Equipment/operational data records by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
107 [40 CFR 63.118(a)]	Keep hourly records of whether the flow indicator specified under 40 CFR $63.114(d)(1)$ was operating and whether a diversion was detected at any time during the hour, as well as records of the times and durations of all periods when the gas stream is diverted to the atmosphere or the monitor is not operating or record that the monthly visual inspection of the seals or closure mechanism is broken, the bypass line valve position has changed, or the key for a lock-and-key type lock has been checked out, and records of any car-seal that has broken. [40 CFR $63.118(a)$ ]
108 [40 CFR 63.118(f)]	Submit periodic reports and include information, as required, in 40 CFR 63.118(f). [40 CFR 63.118(f)]
109 [40 CFR 63.7495(d)]	Meet the notification requirements in 40 CFR 63.7545 according to the schedule in 40 CFR 63.7545 and 40 CFR 63 Subpart A. [40 CFR 63.7495(d)]
110 [40 CFR 63.7500(a)(3)]	At all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.7500(a)(3)]
111 [40 CFR 63.7510(g)]	Demonstrate initial compliance with the applicable work practice standards in Table 3 to Subpart DDDDD within the annual schedule as specified in 40 CFR 63.7515(d) following the initial compliance date specified in 40 CFR 63.7495(a). Thereafter, complete the annual tune-up as specified in 40 CFR 63.7515(d). [40 CFR 63.7510(g)]
112 [40 CFR 63.7515(d)]	Conduct an annual performance tune-up according to 40 CFR 63.7540(a)(10). Each annual tune-up must be no more than 13 months after the previous tune-up. The first annual tune-up must be no later than 13 months after the initial startup. [40 CFR 63.7515(d)]
113 [40 CFR 63.7540(a)(10)]	Conduct an annual tune-up of the process heater as specified in 40 CFR 63.7540(a)(10)(i)-(vi) to demonstrate continuous compliance. As applicable, inspect the burner, and clean or replace any components of the burner as necessary. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. Maintain on-site and submit, if requested by the Administrator, a report containing the information in 40 CFR 63.7540(a)(10)(vi)(A)-(C). If the unit is not operating on the required date for a tune-up, conduct the tune-up within 30 calendar days of startup. [40 CFR 63.7540(a) (10)]
114 [40 CFR 63.7545(a)]	Submit to the Administrator all of the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b)-(h) that apply by the dates specified. [40 CFR 63.7545(a)]

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## EQT 0001 SMR - Steam Methane Reformer

115 [40 CFR 63.7545(c)]	As specified in 40 CFR 63.9(b)(4) and (5), submit an Initial Notification not later than 15 days after the actual date of startup. [40 CFR 63.7545(c)]
116 [40 CFR 63.7545(e)]	Submit a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii). The Notification of Compliance Status must only contain the information specified in 40 CFR 63.7545(e)(1) and (8) and must be submitted within 60 days of the compliance date specified at 40 CFR 63.7495(b). [40 CFR 63.7545(e)]
117 [40 CFR 63.7550(a)]	Submit each report in Table 9 to Subpart DDDDD that applies. [40 CFR 63.7550(a)]
118 [40 CFR 63.7550(b) and (h)]	Submit an annual compliance report as specified in 40 CFR 63.7550(b)(1)-(4) (instead of a semi-annual compliance report) according to the procedures specified in 40 CFR 63.7550(h)(3). [40 CFR 63.7550(b) and (h)]
119 [40 CFR 63.7550(c)(1)]	Submit a compliance report with the information in 40 CFR 63.7550(c)(5)(i)-(iii), (xiv), and (xvii). [40 CFR 63.7550(c)(1)]
120 [40 CFR 63.7555(a)]	Keep a copy of each notification and report submitted to comply with Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status, according to the requirements in 40 CFR 63.10(b)(2)(xiv). Keep records of compliance demonstrations as required in 40 CFR 63.10(b)(2)(viii). [40 CFR 63.7555(a)]
121 [40 CFR 63.7560(a)]	Keep records in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). [40 CFR 63.7560(a)]
122 [40 CFR 63.7560(b)]	As specified in 40 CFR 63.10(b)(1), keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.7560(b)]
123 [40 CFR 63.7560(c)]	Keep each record on site, or accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The records may be kept off site for the remaining 3 years. [40 CFR 63.7560(c)]
124 [40 CFR 63.7565]	Comply with the General Provisions in 40 CFR 63.1 through 63.15 per Table 10 to Subpart DDDDD.
125 [LAC 33:III.1313.C]	Total suspended particulate $\leq 0.6$ lb/MMBTU of heat input.
	Which Months: All Year Statistical Basis: None specified
126 [LAC 33:III.501.C.6]	In order to demonstrate compliance with the NH3 limitations of this permit, the permittee shall conduct performance tests within 180 days after initial startup using Conditional Test Method 27 (CTM-027) (not promulgated).
	Alternate methods may be used with the prior approval of the Office of Environmental Assessment. Per LAC 33:III.913.A, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities as may be necessary for the proper determination of air emissions.
127 [LAC 33:III.501.C.6]	Maximum hourly emissions of NOx <= 269.10 lb/hr for up to 100 hours of operation (12-month rolling sum) during SCR start up, shut down, or maintenance.
128 [LAC 33:III.501.C.6]	NOx emissions shall be controlled via selective catalytic reduction (SCR). The SCR may be bypassed during periods of startup, shutdown, and malfunction, and for essential maintenance of the control system. To the extent practicable, maintenance shall be scheduled for periods when the SMR is not operational.
129 [LAC 33:III.507.H.1.a]	** Note: During SCR bypass, emissions will continue to vent through the stack equipped with the NOX CEMS. **. Compliance demonstration method for VOC, PM10, and PM2.5: To demonstrate compliance with the SMR BLR PCS Vent CAP annual emission limits, emissions from the SMR shall be calculated monthly based on the actual operating rates of the SMR during the calendar month and the emission factors derived from the most recent performance test. Good combustion practices shall be demonstrated via compliance with MACT Subpart DDDDD requirements, and the CO emission limits (BACT lb/MMBTU 12 month rolling average and
	maximum hourly permit limits) as demonstrated via the SMR CO CEMS.

## EQT 0001 SMR - Steam Methane Reformer

130 [LAC 33:III.507.H.1.a]	Compliance demonstration method of NOx and CO: NOx emissions shall be calculated monthly based on the lb NOx/MMBTU as determined by the CEMS and actual operating rates of the SMR. CO emissions shall be calculated monthly based on lb CO/MMBtu as determined by the CEMS and actual operating rates of the SMR. Measurements missed due to periods of monitor breakdown, out-of-
	control operation (producing inaccurate data), repair, maintenance, or calibration shall be estimated using engineering judgement.
131 [LAC 33:III.507.H.1.a]	Record and maintain records of the amount of fuel combusted during each day.
132 [LAC 33:III.507.H.1.a]	Submit notification to the Office of Environmental Assessment at least 30 days prior to a performance test in order to provide LDEQ with
	the opportunity to conduct a pretest meeting and/or observe the test.
133 [LAC 33:III.507.H.1.a]	Submit performance test results to the Office of Environmental Assessment within 60 days after completion of the test.
134 [LAC 33:III.509]	BACT is determined to be the use of good combustion practices, the use of oxidation catalyst (for CO), and the use of Selective Catalytic
	Reduction to limit PM 2.5 and PM10 emissions to 0.00745 lb/MMBtu (3-hour average), CO emissions to 0.0037 lb/MMBtu (12 month
	rolling average), NOx emissions to 0.01 lb/MMBtu (12 month rolling average), and VOC emissions to 0.00374 lb/MMBtu (3 hour average).
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135 [LAC 33:III.509]	Demonstrate compliance with the emission limitations for PM2.5, PM10, and VOC of this permit by conducting performance tests within
	180 days after issuance of Permit 2560-00295-V6. Unless otherwise agreed to in writing by the department, conduct each test run within 80
	percent of the maximum permitted load or within 10 percent of the maximum load achievable during the performance test. PM2.5 and
	PM10 testing shall be conducted within 80 percent of the SMR's maximum permitted ammonia hourly emission rate or at the maximum
	achievable and compliant ammonia emission rate without increasing NOx emissions at the Boiler, which shares a common SCR ammonia
	injection system with the SMR. Per LAC 33:III.913.A, provide necessary sampling ports in stacks or ducts and such other safe and proper
	sampling and testing facilities for proper determination of the emission of air contaminants. (a) Submit notification to the Office of
	Environmental Services at 30 days prior to a performance test in order to provide LDEQ with the opportunity to conduct a pretest meeting
	and/or observe the test. (b) Use the following stack test methods from 40 CFR 60, Appendix A (unless otherwise noted). Alternate stack
	test methods may be used with the prior approval of the Office of Environmental Services. PM: Method 5: Determination of particulate
	matter emissions from stationary sources or Method 201A - Determination of PM10 and PM2.5 Emissions From Stationary Sources
	(Constant Sampling Rate Procedure); PM: Method 202: Dry Impinger Method for Determining Condensable Particulate Emissions from
	Stationary Sources (40 CFR 51, Appendix M);
	VOC: Method 25a - Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer. (c) Submit performance
	test results to the Office of Environmental Services within 60 days after the completion of the test. (d) Repeat performance tests annually
	(plus or minus 1 calendar months).
136 [LAC 33:III.509]	Monitor and record CO emissions using Continuous Emissions Monitoring Systems (CEMS) calibrated, operated, and maintained
	according to the manufacturer's specifications. (a) CEMS shall comply with the following performance specifications of 40 CFR Part 60,
	Appendix B. CO: Performance Specification 4/4A (b) All CEMS shall be evaluated in accordance with Procedure 1 of 40 CFR 60,
	Appendix F. (c) Data availability shall be stipulated by Part 70 General Condition V of LAC 33:III.535.A.
137 [LAC 33:III.509]	Monitor and record NOx emissions using Continuous Emissions Monitoring Systems (CEMS) calibrated, operated, and maintained
	according to the manufacturer's specifications. (a) CEMS shall comply with the following performance specifications of 40 CFR Part 60,
	Appendix B. NOx: Performance Specification 2 (b) All CEMS shall be evaluated in accordance with Procedure 1 of 40 CFR 60, Appendix
	F. (c) Data availability shall be stipulated by Part 70 General Condition V of LAC 33:III.535.A. (d) Where a NOx CEMS is required, the
	permittee shall also determine the NO2/NOx in-stack ratio in conjunction with Performance Specification 2.

138 [40 CFR 60.44b(h)]	The NOx standards of Subpart Db apply at all times, including periods of startup, shutdown, or malfunction. [40 CFR 60.44b(h)]
139 [40 CFR 60.44b(i)] 140 [40 CFR 60.44b(l)]	Compliance shall be determined on a 30-day rolling average basis. [40 CFR 60.44b(i)] Limit NOx (expressed as NO2) $\leq 0.10$ lb/MM Btu heat input on and after the date on which the initial performance test is completed or is
141 [40 CFR 60.46b(e)(3)]	required to be completed under 40 CFR 60.8, whichever date is first. [40 CFR 60.44b(l)] Following the date on which the initial performance test is completed or is required to be completed under 40 CFR 60.8, whichever date comes first, determine compliance with the NOx standards under 40 CFR 60.44b on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of
142 [40 CFR 60.48b(b)(1),(c-d)]	all of the hourly NOx emission data for the preceding 30 steam generating unit operating days. [40 CFR 60.46b(e)(3)] Install, calibrate, maintain, and operate CEMS for measuring NOx and O2 (or CO2) emissions discharged to the atmosphere, and shall record the output of the system. The CEMS shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments. The 1-hour average NOx emission rates shall be expressed in lb/MM Btu heat input and shall be used to calculate the average emission rates under 40 CFR 60.44b. The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2). [40 CFR 60.48b(b)(1),(c-d)]
143 [40 CFR 60.48b(e)]	Follow the procedures under 40 CFR 60.13 for installation, evaluation, and operation of the continuous monitoring systems. The span value for NOx is determined using one of the procedures described in 40 CFR 60.48b(e)(2)(i) or (ii) and 40 CFR 60.48b(e)(3). [40 CFR 60.48b(e)]
144 [40 CFR 60.48b(f)]	When NOx emission data are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, Method 7 or 7A of 40 CFR 60 Appendix A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. [40 CFR 60.48b(f)]
145 [40 CFR 60.49b(a)]	Submit notification of the date of initial startup, as provided by 40 CFR 60.7. Include the design heat input capacity and identification of the fuels to be combusted. [40 CFR 60.49b(a)]
146 [40 CFR 60.49b(b)]	Submit to the Administrator the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in Appendix B of 40 CFR 60. [40 CFR 60.49b(b)]
147 [40 CFR 60.49b(d)(1)]	Record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)(1)]
148 [40 CFR 60.49b(g)]	Maintain records of the information described in 40 CFR $60.49b(g)(1)$ -(10) for each steam generating unit operating day. [40 CFR $60.49b(g)$ ]
149 [40 CFR 60.49b(i)]	Submit reports containing the information recorded under 40 CFR 60.49b(g). [40 CFR 60.49b(i)]
150 40 CFR 60.49b(0)	Maintain all records for a period of 2 years following the date of such record. [40 CFR 60.49b(o)]
151 [40 CFR 60.49b(v)]	The permittee may submit electronic quarterly reports for NOx in lieu of submitting the written reports required under 40 CFR 60.49b(h) or (i). The electronic report shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of Subpart Db was achieved during the reporting period. [40 CFR 60.49b(v)]
152 [40 CFR 60.49b(w)]	The reporting period for the reports required under Subpart Db is each 6 month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period. [40 CFR 60.49b(w)]

153 [40 CFR 60.702(a)]	Reduce emissions of TOC (less methane and ethane) by 98 weight-percent, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. The vent stream shall be introduced into the flame zone.
	The requirement for an initial performance test is waived per 40 CFR 60.704(b)(5). [40 CFR 60.702(a)]
154 [40 CFR 60.703(c)(1)]	Install, calibrate, maintain and operate according to the manufacturer's specifications a flow indicator that provides a record of vent stream
	flow diverted from being routed to the process heater at least once every 15 minutes for each affected facility. The flow indicator shall be
	installed at the entrance to any bypass line that could divert the vent stream from being routed to the process heater, resulting in its
	emission to the atmosphere. Where the bypass line valve is secured in the closed position with a car-seal or a lock-and-key type
	configuration, a flow indicator is not required. A visual inspection of the seal or closure mechanism shall be performed at least once every
	month to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. [40 CFR
	60.703(c)(1)]
155 [40 CFR 60.705(a)]	Notify the Administrator of the specific provisions of 40 CFR 60.702 ((a), (b), or (c)) with which the owner or operator has elected to
[]	comply. Notification shall be submitted with the notification of initial start-up required by 40 CFR 60.7(a)(3). [40 CFR 60.705(a)]
156 [40 CFR 60.705(b)(2)(i)]	Keep an up-to-date, readily accessible record of the description of the location at which the vent stream is introduced into the process
	heater. [40 CFR 60.705(b)(2)(i)]
157 [40 CFR 60.705(c)]	Keep up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored under 40 CFR
	60.703(c). [40 CFR 60.705(c)]
158 [40 CFR 60.705(d)]	Keep up-to-date, readily accessible continuous records of the flow indication specified under 40 CFR 60.703(c)(1)(i), as well as up-to-date,
	readily accessible records of all periods and the duration when the vent stream is diverted from the control device. Where a seal
	mechanism is used to comply with 40 CFR 60.703(c)(1)(ii), a record of continuous flow is not required. In such cases, the permittee shall
	keep up-to-date, readily accessible records of all monthly visual inspections of the seals as well as readily accessible records of all periods
	and the duration when the seal mechanism is broken, the bypass line valve position has changed, the serial number of the broken car-seal
	has changed, or when the key for a lock-and-key type configuration has been checked out. [40 CFR 60.705(d)]
159 [40 CFR 60.705(l)]	Submit to the Administrator semiannual reports of all periods and duration recorded under 40 CFR 60.705(d) when the vent stream is
	diverted from the control device to the atmosphere and all periods recorded under 40 CFR 60.705(d) in which the seal mechanism is broken
	or the by-pass line valve position has changed. A record of the serial number of the car-seal or a record to show that the key to unlock the
	bypass line valve was checked out must be maintained to demonstrate the period, the duration, and frequency in which the bypass line was
	operated. The initial report shall be submitted within 6 months after the initial start-up date. [40 CFR 60.705(1)]
160 [40 CFR 60.705(s)]	Maintain on file a schematic diagram of the affected vent streams, collection system(s), fuel systems, control devices, and bypass systems
	as part of the initial report. This schematic diagram must be retained for the life of the system. [40 CFR 60.705(s)]
161 [40 CFR 63.110(d)(7)]	If the process vent is determined as a Group 1 process vent that is also subject to the provisions of 40 CFR part 60, subpart RRR is required
162 [40 CED 62 110(4)(8)]	to comply only with the provisions of this 40 CFR 63 Subpart G. [40 CFR 63.110(d)(7)]
162 [40 CFR 63.110(d)(8)]	If the process vent is determined as a Group 2 process vent that is also subject to the provisions of 40 CFR part 60, subpart RRR shall determine requirements according to 40 CFR 63.110(d)(8)(i) and 40 CFR 63.110(d)(8)(ii). [40 CFR 63.110(d)(8)]
163 [40 CFR 63.113(a)(2)]	Organic HAP $\geq 98$ % reduction by weight, or $\leq 20$ ppmv, whichever is less stringent, as determined using the methods in 40 CFR
103 [40 CFR 03.113(a)(2)]	63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
	Which Months: All Year Statistical Basis: None specified
	which months. An i feat statistical basis, none specified

164 [40 CFR 63.114(d)]	Comply with one of the following for a bypass line: 1) Flow monitored by flow indicator once every 15 minutes. Equip the flow indicator with a recorder that takes a reading at least once every 15 minutes and install at the entrance to any bypass line that could divert the gas
	stream to the atmosphere; or 2) Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)]
165 [40 CFR 63.117(a)]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
166 [40 CFR 63.118(a)]	Keep hourly records of whether the flow indicator specified under 40 CFR $63.114(d)(1)$ was operating and whether a diversion was detected at any time during the hour, as well as records of the times and durations of all periods when the gas stream is diverted to the atmosphere or the monitor is not operating or record that the monthly visual inspection of the seals or closure mechanism is broken, the bypass line valve position has changed, or the key for a lock-and-key type lock has been checked out, and records of any car-seal that has broken. [40 CFR $63.118(a)$ ]
167 [40 CFR 63.118(f)]	Submit periodic reports and include information, as required, in 40 CFR 63.118(f). [40 CFR 63.118(f)]
168 [40 CFR 63.7495(d)]	Meet the notification requirements in 40 CFR 63.7545 according to the schedule in 40 CFR 63.7545 and 40 CFR 63 Subpart A. [40 CFR 63.7495(d)]
169 [40 CFR 63.7500(a)(3)]	At all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.7500(a)(3)]
170 [40 CFR 63.7510(g)]	Demonstrate initial compliance with the applicable work practice standards in Table 3 to Subpart DDDDD within the 5-year schedule as specified in 40 CFR 63.7515(d) following the initial compliance date specified in 40 CFR 63.7495(a). Thereafter, complete the 5-year tune-up as specified in 40 CFR 63.7515(d). [40 CFR 63.7510(g)]
171 [40 CFR 63.7515(d)]	Conduct a 5-year performance tune-up according to 40 CFR 63.7540(a)(12). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. The first 5-year tune-up must be no later than 61 months after the initial startup. [40 CFR 63.7515(d)]
172 [40 CFR 63.7540(a)(12)-(13)]	Conduct a tune-up of the boiler every 5 years as specified in 40 CFR 63.7540(a)(10)(i)-(vi) to demonstrate continuous compliance. As applicable, inspect the burner, and clean or replace any components of the burner as necessary. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. Maintain on-site and submit, if requested by the Administrator, a report containing the information in 40 CFR 63.7540(a)(10)(vi)(A)-(C). Set the oxygen level no lower than the oxygen concentration measured during the most recent tune-up. If the unit is not operating on the required date for a tune-up, conduct the tune-up within 30 calendar days of startup. [40 CFR 63.7540(a)(12)-(13)]
173 [40 CFR 63.7545(a)]	Submit to the Administrator all of the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b)-(h) that apply by the dates specified. [40 CFR 63.7545(a)]
174 [40 CFR 63.7545(c)]	As specified in 40 CFR 63.9(b)(4) and (5), submit an Initial Notification not later than 15 days after the actual date of startup. [40 CFR 63.7545(c)]
175 [40 CFR 63.7545(e)]	Submit a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii). The Notification of Compliance Status must only contain the information specified in 40 CFR 63.7545(e)(1) and (8) and must be submitted within 60 days of the compliance date specified at 40 CFR 63.7495(b). [40 CFR 63.7545(e)]

176 [40 CFR 63.7550(a)]	Submit each report in Table 9 to Subpart DDDDD that applies. [40 CFR 63.7550(a)]
177 [40 CFR 63.7550(b) and (h)]	Submit a 5-year compliance report as specified in 40 CFR 63.7550(b)(1)-(4) (instead of a semi-annual compliance report) according to the
	procedures specified in 40 CFR 63.7550(h)(3). [40 CFR 63.7550(b) and (h)]
178 [40 CFR 63.7550(c)(1)]	Submit a compliance report with the information in 40 CFR 63.7550(c)(5)(i)-(iii), (xiv), and (xvii). [40 CFR 63.7550(c)(1)]
179 [40 CFR 63.7555(a)]	Keep a copy of each notification and report submitted to comply with Subpart DDDDD, including all documentation supporting any Initial
2 2	Notification or Notification of Compliance Status, according to the requirements in 40 CFR 63.10(b)(2)(xiv). Keep records of compliance
	demonstrations as required in 40 CFR 63.10(b)(2)(viii). [40 CFR 63.7555(a)]
180 [40 CFR 63.7560(a)]	Keep records in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). [40 CFR 63.7560(a)]
181 40 CFR 63.7560(b)	As specified in 40 CFR 63.10(b)(1), keep each record for 5 years following the date of each occurrence, measurement, maintenance,
	corrective action, report, or record. [40 CFR 63.7560(b)]
182 [40 CFR 63.7560(c)]	Keep each record on site, or accessible from on site (for example, through a computer network), for at least 2 years after the date of each
	occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The records may be kept off
	site for the remaining 3 years. [40 CFR 63.7560(c)]
183 [40 CFR 63.7565]	Comply with the General Provisions in 40 CFR 63.1 through 63.15 per Table 10 to Subpart DDDDD.
184 [LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input.
	Which Months: All Year Statistical Basis: None specified
185 [LAC 33:III.501.C.6]	Equip the Auxiliary Boiler with and utilize an oxygen trim system as defined in 40 CFR 63.7575.
186 [LAC 33:III.501.C.6]	In order to demonstrate compliance with the NH3 limitations of this permit, the permittee shall conduct performance tests within 180 days
-	after initial startup using Conditional Test Method 27 (CTM-027) (not promulgated)
	Alternate methods may be used with the prior approval of the Office of Environmental Services. Per LAC 33:III.913.A, provide necessary
	sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities as may be necessary for the proper
	determination of air emissions.
187 [LAC 33:III.501.C.6]	Maximum hourly emissions of NOx <= 108.90 lb/hr for up to 500 hours of operation (12-month rolling sum) including, but not limited to,
	during SCR start up, shut down, or maintenance.
188 [LAC 33:III.501.C.6]	NOx emissions shall be controlled via selective catalytic reduction (SCR). The SCR may be bypassed during periods of startup, shutdown,
	and malfunction, and for essential maintenance of the control system. To the extent practicable, maintenance shall be scheduled for periods
	when the auxiliary boiler is not operational.
	** Note: During SCR bypass, emissions will continue to vent through the stack equipped with the NOx CEMS. **.
189 [LAC 33:III.507.H.1.a]	Compliance demonstration for CO: CO emissions shall be calculated monthly based on the lb CO/MMBTU as determined by the CEMS
	and actual operating rates of the Boiler to determine compliance with lb/hr and TPY emission limits. Measurements missed due to periods
	of monitor breakdown, out-of-control operations (producing inaccurate data), repair, maintenance, or calibration shall be estimated using
	engineering judgement.
190 [LAC 33:III.507.H.1.a]	Compliance demonstration method for NOx: NOx emissions shall be calculated monthly based on the lb NOx/MMBTU as determined by
	the CEMS and actual operating rates of the Boiler to determine compliance with lb/hr and TPY emission limits. Measurements missed due
	to periods of monitor breakdown, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration shall be
	estimated using engineering judgement.

191 [LAC 33:III.507.H.1.a]	Compliance demonstration methodology for VOC, PM10, and PM2.5: To demonstrate compliance with the SMR BLR PCS Vent CAP annual emission limits, VOC emissions from the Auxiliary Boiler shall be calculated monthly based on the actual operating rates of the Auxiliary Boiler during the calendar month and the emission factors from the most recent performance test results corresponding to each operating range. Alternatively, the permittee team may base emissions on the highest emission factor derived from the most recent performance test results. PM10 and PM2.5 emissions from the Auxiliary Boiler shall be calculated monthly based on the actual operating rates of the Auxiliary Boiler during the calendar month and the emission factor derived from the most recent performance test. Good combustion practices shall be demonstrated via compliance with MACT Subpart DDDDD requirements, and the CO emission limits (BACT lb/MMBTU 12 month rolling average and maximum hourly permit limits) as demonstrated via the Auxiliary Boiler CO CEMS.
192 [LAC 33:III.507.H.1.a]	Submit notification to the Office of Environmental Assessment at least 30 days prior to a performance test in order to provide LDEQ with the opportunity to conduct a pretest meeting and/or observe the test.
193 [LAC 33:III.507.H.1.a] 194 [LAC 33:III.509]	Submit performance test results to the Office of Environmental Assessment within 60 days after completion of the test. BACT is determined to be the use of good combustion practices and the use of Selective Catalytic Reduction to limit PM 2.5 and PM10 emissions to 0.00745 lb/MMBtu (3-hour average), CO emissions to 0.0046 lb/MMBtu (12 month rolling average), NOx emissions to 0.01 lb/MMBtu (12 month rolling average), and VOC emissions to 0.0016 lb/MMBtu (3 hour average).
195 [LAC 33:III.509]	Demonstrate compliance with the emission limitations for PM2.5, PM10, and VOC by conducting performance tests within 180 days after issuance of Permit 2560-00295-V6. Unless otherwise agreed to in writing by the department, conduct each test run for PM2.5 and PM10 within 80 percent of the maximum permitted load or within 10 percent of the maximum load achievable during the performance test. PM2. 5 and PM10 testing shall be conducted within 80% of the Boiler's maximum permitted ammonia hourly emission rate or at the maximum achievable and compliant ammonia emission rate without increasing NOx emissions at the SMR, which shares a common SCR ammonia injection system with the Boiler. For VOC, testing shall be conducted at two points; one at the lowest operating rate associated with routine operations, and one at the highest achievable operating rate during the performance test. Per LAC 33:III.913.A, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission of air contaminants. (a) Submit notification to the Office of Environmental Services at 30 days prior to a performance test in order to provide LDEQ with the opportunity to conduct a pretest meeting and/or observe the test. (b) Use the following stack test methods from 40 CFR 60, Appendix A (unless otherwise noted). Alternate stack test methods may be used with the prior approval of the Office of Environmental Services. PM: Method 5: Determination of particulate matter emissions from stationary sources or Method 201A - Determination of PM10 and PM2.5 Emissions From Stationary Sources (Constant Sampling Rate Procedure); PM: Method 202: Dry Impinger Method for Determining Condensable Particulate Emissions from Stationary Sources (40 CFR 51, Appendix M); VOC: Method 25a - Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer. (c) Submit performance tests annually (plus or minus 1 calendar month).
196 [LAC 33:III.509]	Monitor and record CO emissions using Continuous Emissions Monitoring Systems (CEMS) calibrated, operated, and maintained according to the manufacturer's specifications. (a) CEMS shall comply with the following performance specifications of 40 CFR Part 60, Appendix B. CO: Performance Specification 4/4A (b) All CEMS shall be evaluated in accordance with Procedure 1 of 40 CFR 60,
197 [LAC 33:III.509]	Appendix F. (c) Data availability shall be stipulated by Part 70 General Condition V of LAC 33:III.535.A. Monitor and record NOx emissions using Continuous Emissions Monitoring Systems (CEMS) calibrated, operated, and maintained according to the manufacturer's specifications. (a) CEMS shall comply with the following performance specifications of 40 CFR Part 60, Appendix B. NOx: Performance Specification 2 (b) All CEMS shall be evaluated in accordance with Procedure 1 of 40 CFR 60, Appendix F. (c) Data availability shall be stipulated by Part 70 General Condition V of LAC 33:III.535.A. (d) Where a NOx CEMS is required, the permittee shall also determine the NO2/NOx in-stack ratio in conjunction with Performance Specification 2.

EQT 0003 FLR - Flare	
198 [40 CFR 60.18(b)]	Operate the flare with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f).
	Comply with either the heat content specifications in 40 CFR $60.18(c)(3)(ii)$ and the maximum tip velocity specifications in 40 CFR $60.18(c)(4)$ , or comply with the requirements in 40 CFR $60.18(c)(3)(i)$ .
	Flares used to comply with this rule shall be steam-assisted, air-assisted, or nonassisted.
	Operate flare at all times when emissions may be vented to it.
199 [40 CFR 60.18(d)]	Calculate the net heating value of the gas being combusted in a flare using the equation in 40 CFR 60.18(f)(3). [40 CFR 60.18(b), 40 CFR 60.18(c), 40 CFR 60.18(c), 40 CFR 60.18(f)] Owners or operators of flares used to comply with the provisions of this subpart shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how owners or operators of flares shall monitor these control devices.
	Use Method 22 of appendix A to determine the compliance of flares with the visible emission provisions. The observation period is 2 hours and shall be used according to Method 22.
200 [40 CFR 60.662(b)] 201 [40 CFR 60.663(b)]	Monitor the presence of a flare pilot flame using a thermocouple or any other equivalent device to detect the presence of a flame. [40 CFR 60.18(d), 40 CFR 60.18(f)] Combust the emissions in a flare that meets the requirements of 40 CFR 60.18. Subpart NNN. [40 CFR 60.662(b)] Install, calibrate, maintain and operate, according to manufacturer's specifications 1) a heat sensing device, such as an ultra-violet beam sensor or thermocouple, at the pilot light to indicate the continuous presence of a flame, and 2) a flow indicator that provides a record of vent stream flow to the flare at least once every hour for each affected facility. Install the flow indicator in the vent stream at a point closest to the flare and before being joined with any other vent stream.
202 [40 CFR 60.664(d)] 203 [40 CFR 60.665(b)(3)]	<ul> <li>** Per 40 CFR 60.13(i), LDEQ has approved compliance with the monitoring procedures set forth in 40 CFR 60.703(b)(2) as an alternative to the requirements of 40 CFR 60.663(b)(2) **. [40 CFR 60.663(b)]</li> <li>When a flare is used to seek to comply with 40 CFR 60.662(b), the flare shall comply with the requirements of 40 CFR 60.18. [40 CFR 60.664(d)]</li> <li>Keep up-to-date, readily accessible continuous records as listed in 40 CFR 60.665(b)(3) when complying using a smokeless flare. ** Per 40 CFR 60.13(i), LDEQ has approved compliance with the recordkeeping requirements set forth in 40 CFR 60.705(b)(3) as an alternative to the requirements of 40 CFR 60.665(b)(3) **.</li> </ul>
	Keep up-to-date, readily accessible continuous records of the flow indication, as well as up-to-date, readily accessible records of all periods when the vent stream is diverted from the control device or has no flow rate.
	Keep up-to-date, readily accessible continuous records of the flare pilot flame monitoring, as well as up-to-date, readily accessible records of al periods of operations in which the pilot flame is absent. [40 CFR 60.665(b)(3), 40 CFR 60.665(d), 40 CFR 60.665(f)]

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EQT 0003 FLR - Flare	
204 [40 CFR 60.665(d)]	Keep up to date, readily accessible continuous records of the flow indication specified under 40 CFR 60.663(b)(2), as well as up-to-date, readily accessible records of all periods when the vent stream is diverted from the control device or has no flow rate. ** Per 40 CFR 60.13(i), LDEQ has approved compliance with the recordkeeping requirements set forth in 40 CFR 60.705(d) as an alternative to the requirements of 40 CFR 60.665(d) **. [40 CFR 60.665(d)]
205 [40 CFR 60.665(1)]	Submit to the Administrator semiannual reports of all periods recorded under 40 CFR 60.665(f) in which the pilot flame of the flare was absent.
	**Note: The information described in 40 CFR 60.705(1)(2) shall be submitted in lieu of that required by 40 CFR 60.665(1)(2)**. [40 CFR 60.665(1)]
206 [40 CFR 60.702(b)]	Combust the emissions in a flare that meets the requirements of 40 CFR 60.18. Subpart RRR. [40 CFR 60.702(b)]
207 [40 CFR 60.703(b)(2)(ii)]	Seal or closure mechanism monitored by visual inspection/determination monthly. Monitor the seal or closure mechanism (car-seal or lock-and-key type) on any bypass line to ensure that the valve is maintained in a closed position. Subpart RRR. [40 CFR 60.703(b)(2)(ii)] Which Months: All Year Statistical Basis: None specified
208 [40 CFR 60.703(b)(2)(ii)]	Seal or closure mechanism recordkeeping by electronic or hard copy monthly. Record the position of the valve. Subpart RRR. [40 CFR 60.703(b)(2)(ii)]
209 [40 CFR 60.703(b)]	Install, calibrate, maintain and operate, according to manufacturer's specifications, a heat sensing device, such as an ultra-violet beam sensor to thermocouple, at the pilot light to indicate the continuous presence of a flame. note that a flow indicator is not required as the bypass line valve(s) is secured in the closed position with a car-seal type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. [40 CFR 60.703(b)]
210 [40 CFR 60.704(c)]	When a flare is used to seek to comply with 40 CFR 60.702(b), the flare shall comply with the requirements of 40 CFR 60.18. [40 CFR 60.704(c)]
211 [40 CFR 60.705(b)(3)]	Keep up-to-date, readily accessible records as listed in 40 CFR 60.705(b)(3) when complying using a smokeless flare.
	Keep up-to-date, readily accessible continuous records of the flow indication, as well as up-to-date, readily accessible records of all periods when the vent stream is diverted from the control device or has no flow rate.
212 [40 CFR 60.705(l)]	Keep up-to-date, readily accessible continuous records of the flare pilot flame monitoring, as well as up-to-date, readily accessible records of all periods of operations in which the pilot flame is absent. [40 CFR 60.705(b)(3), 40 CFR 60.705(d), 40 CFR 60.705(e)] Submit to the Administrator semiannual reports of all periods recorded under 40 CFR 60.705(d) when the vent stream is diverted from the control device or has no flow rate, all periods recorded in which the pilot flame of the flare was absent, and all periods recorded under 40 CFR 60.705(d) in which the seal mechanism is broken or the by-pass line valve position has changed. A record of the serial number of the car-seal or a record to show that the key to unlock the bypass line valve was checked out must be maintained to demonstrate the period, the duration, and frequency in which the bypass line was operated. [40 CFR 60.705(l)]

EQT 0003 FLR - Flare	
213 [40 CFR 63.11(b)]	Monitor a flare to assure it is operated and maintained in conformance with its design. Applicable subparts will provide provisions stating how flares should be monitored.
	Operate a flare with a flame present at all times. The presence of a flare pilot flame must be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.
	Operate a flare at all times when emissions may be vented to the flare.
	Design and operate the flare with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. Use Test Method 22 in appendix A of part 60 to determine the compliance of flares with the visible emission provisions. The observation period is 2 hours and shall be used according to Method 22.
	Flare Options: Use a non-assisted flare only with the net heating value of the gas being combusted at 7.54 M/scm (200 Btu/scf) or greater and designed for and operated with an exit velocity less than 18.3 m/sec (60 ft/sec) with the following exceptions:
	(1) Exit velocity equal to or greater than 18.3 m/sec (60 ft/sec) but less than 122 m/sec (400 ft/sec) is allowed if the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1,000 Btu/scf).
	(2) Exit velocity less than the velocity Vmax, as determined by the method specified in the paragraph but less than 122 m/sec (400 ft/sec) is allowed. OR
	A non-assisted flare with a diameter of 3 inches or greater, a hydrogen content of 8.0 percent (by volume) or greater, and designed for and operated with an exit velocity less then 37.2 m/sec (122 ft/sec) and less than the velocity Vmax. [40 CFR 63.11(b)]
214 [40 CFR 63.110(d)(4)]	A process vent classified as a Group 1 process vent that is also subject to the provisions of 40 CFR part 60, subpart NNN is required to comply only with the provisions of 40 CFR 63 Subpart G. [40 CFR 63.110(d)(4)]
215 [40 CFR 63.110(d)(5)]	Requirements for a process vent classified as a Group 2 process vent that is also subject to the provisions of 40 CFR part 60, subpart NNN shall be determined according to 40 CFR $63.110(d)(5)(i)$ and 40 CFR $63.110(d)(5)(i)$ . [40 CFR $63.110(d)(5)$ ]
216 [40 CFR 63.110(d)(7)]	A process vent determined as a Group 1 process vent that is also subject to the provisions of 40 CFR part 60, subpart RRR is required to comply only with the provisions of 40 CFR 63 Subpart G. [40 CFR 63.110(d)(7)]
217 [40 CFR 63.110(d)(8)]	Requirements for a process vent determined as a Group 2 process vent that is also subject to the provisions of 40 CFR part 60, subpart RRR
218 [40 CFR 63.113(a)(1)]	shall be determined according to 40 CFR 63.110(d)(8)(i) and 40 CFR 63.110(d)(8)(ii). [40 CFR 63.110(d)(8)] For a Group 1 process vent, reduce emissions of organic HAP using a flare. The flare must comply with the requirements of 40 CFR 63.11 (b) of subpart A of this part.
	The owner or operator of a process vent complying with 40 CFR 63.113(a)(1) or (a)(2) is not required to perform the group determination described in 40 CFR 63.115.
	Conduct a visible emission test using the techniques quasified in $40$ CER (2.11/h)(4). Determine the net heating value of the see heirs

Conduct a visible emission test using the techniques specified in 40 CFR 63.11(b)(4). Determine the net heating value of the gas being combusted using the techniques specified in 40 CFR 63.11(b)(6). Determine the exit velocity using the techniques specified in either 40 CFR 63.11(b)(7)(i) (and 40 CFR 63.11(b)(7)(iii), where applicable) or 40 CFR 63.11(b)(8), as appropriate. [40 CFR 63.113(a)(1), 40 CFR 63.113(a)(1), 4

EQT 0003 FLR - Flare	
219 [40 CFR 63.114(a)]	Install a device (including but not limited to a thermocouple, ultra-violet beam sensor, or infrared sensor) capable of continuously detecting the presence of a pilot flame. Install calibrate, maintain, and operate according to manufacturer's specifications or other written procedures that provide adequate assurance that the equipment would reasonably be expected to monitor accurately.
220 [40 CFR 63.117(a)(5)]	<ul> <li>For any bypass line between the origin of the gas stream and the point where the gas stream and the point where the gas stream reaches the process vent, as described in 40 CFR 63.107, that could divert the gas stream directly to the atmosphere.</li> <li>(1) Properly install, maintain, and operate a flow indicator that takes a reading at least once every 15 minutes. Generate records as specified in 40 CFR 63.118(a)(3). Install the flow indicator at the entrance to any bypass line that could divert the gas stream to the atmosphere; or</li> <li>(2) Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and key type configuration. Perform a visual inspection of the seal or closure mechanism at least once every month to ensure that the valve is maintained in the non-diverting position and the gas stream is not diverted through the bypass line. [40 CFR 63.114(a), 40 CFR 63.114(a)(2), 40 CFR 63.114(d)]</li> <li>Keep records of (1) Flare design (i.e., steam-assisted, air-assisted, or non-assisted); (2) All visible emission readings, heat content determinations, flow rate measurements, and exit velocity determinations made during the compliance determination required by 40 CFR 63.116(a); and (3). All periods during the compliance determination when the pilot flame is absent.</li> </ul>
	Keep hourly records and records of pilot flame outages specified in table 3 of Subpart G. Keep records of the times and duration of all periods during which all pilot flames are absent shall be kept. Keep hourly records of whether the flow indicator specified under 40 CFR 63.114(d)(1) was operating and whether a diversion was detected at any time during the hour, as well as records of the times and durations of all periods when the gas stream is diverted to the atmosphere or the monitor is not operating. Where a seal mechanism is used to comply with 40 CFR 63.114(d)(2), hourly records of flow are not required. Record that the monthly visual inspection of the seals or closure mechanism has been done, and record the duration of all periods when the seal mechanism is broken, the bypass line valve position has changed or the key for a lock-and-key type lock has been
221 [LAC 33:III.1105]	checked out, and records of any car-seal that has broken. [40 CFR 63.117(a)(5), 40 CFR 63.118(a)] Burning in connection with pressure valve releases for control over process upsets: Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period. Which Months: All Year Statistical Basis: None specified
222 [LAC 33:III.1105]	Submit notification: Due to SPOC as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:I.3923. Notification is required only if the upset cannot be controlled in six hours.
223 [LAC 33:III.1311.C]	Opacity <= 20 percent, except for emissions that have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: Six-minute average
224 [LAC 33:III.501.C.6]	Develop a corrective action plan for re-lighting the flare. Keep plan readily available for immediate implementation in the event the flare needs to be re-lit.
225 [LAC 33:III.507.H.1.a]	Compliance demonstration method: Flare pilot: The permittee shall record the amount of natural gas combusted by the flare pilot each day. Presence of a flame recordkeeping by electronics or hard copy continuously. Record and maintain records of the amount of fuel combusted by the flare pilot during each day.

#### EQT 0003 FLR - Flare

#### 226 [LAC 33:III.507.H.1.a]

#### Compliance demonstration method:

Vent gas: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and any required adjustments), at all times waste gas or supplemental natural gas is routed to the flare, the permittee shall continuously monitor and record (at least once every 15 minutes) the volume, heating value, and the total VOC content of vent gas (all flare gas found just prior to the tip) routed to the flare. As an alternative, the permittee may either (i) continuously monitor and record the volume, heating value, and total VOC content of waste gas (gas from facility operations that is directed to the flare for the purpose of disposing of the gas and all natural gas sweeps and purges) routed to the flare to calculate the values for the total vent gas routed to the flare; or (ii) continuously monitor and record the volume, heating value, and total VOC content of supplemental natural gas routed to the flare while obtaining the continuously monitored heating value and total VOC content from the natural gas supplier to calculate the values for the total vent gas routed heating value and total VOC content of the vent gas (either directly or by monitoring the waste gas and/or supplemental natural gas) shall be in service prior to the introduction of ethane feed gas into the SMR.

NOx and CO emissions shall be calculated monthly using the emission factors of 0.068 lb/MM Btu for NOx (AP-42 Section 13.5, Table 13.5-1) & 0.31 lb/MM Btu for CO (AP-42 Section 13.5, Table 13.5-2) and the volumes and heating values as determined above. PM10/PM2.5 emissions shall be calculated monthly using an emission factor of 0.12 lb/MM scf and the volumes as determined above. In each case, the emissions shall be calculated utilizing the either the net or gross heating values defined in AP-42 for each specific emission factor and a conversion factor of 1.1 between net and gross heating values. VOC emissions shall be calculated monthly based on total volumes and VOC content as determined above and a control efficiency of 98% for the VOCs routed to the flare. The control efficiency shall be confirmed by meeting the requirements of 40 CFR 60.18 & 40 CFR 63.11 for heating value and exit velocity. If the flare is converted to an air or steam assisted flare, the flare will be monitored in accordance with the requirements of 40 CFR 63.670 to confirm the control efficiency.

Flare pilot: The permittee shall record the amount of natural gas combusted by the flare pilot each day. NOx and CO emissions shall be calculated monthly using emission factors of 100 and 84 lb/MM scf, respectively (AP-42 Section 1.4, Table 1.4-1). PM10/PM2.5 and VOC emissions shall be calculated monthly using emission factors of 7.6 and 5.5 lb/MM scf, respectively (AP-42 Section 1.4, Table 1.4-2).

If a revised final emission factor for PM, NOx, CO, or VOC is published by EPA in AP-42 Section 1.4 or, for NOx or CO, in Section 13.5, then emissions shall be calculated based on the updated final emission factor in accordance with LAC 33:III.919.G. PM, NOx, CO, and VOC emissions attributed to the combustion of the flare pilot and vent gas, including vent gas routed to the flare as a result of upsets, malfunctions, or other non-routine operating conditions, shall be summed for purposes of determining compliance with applicable ton per year emission limits.

Record and maintain records of the amount of fuel combusted by the flare pilot during each day.

The flare heat content monitoring instrumentation used to comply with the Vent Gas Compliance Demonstration Requirement shall be operated and maintained according to manufacturer's recommendations. Data availability shall be dictated by Part 70 General Condition V of LAC 33:III.535.A. In lieu of continuously monitoring the heating value of the supplemental natural gas, the permittee may obtain the continuously monitored heating value from the natural gas supplier.

#### 227 [LAC 33:III.507.H.1.a] 228 [LAC 33:III.507.H.1.a]

## EQT 0003 FLR - Flare

229 [LAC 33:III.507.H.1.a]	The flare instrumentation for monitoring the total VOC content used to comply with the Vent Gas Compliance Demonstration Requirement shall be operated and maintained according to manufacturer's recommendations. Data availability shall be dictated by Part 70 General Condition V of LAC 33:III.535.A. The instrumentation shall be in service prior to the introduction of ethane feed gas into the SMR. In lieu of continuously monitoring the VOC content of the supplemental natural gas, the permittee may obtain the continuously monitored VOC
230 [LAC 33:III.507.H.1.a]	content from the natural gas supplier. The flow monitoring instrumentation used to comply with the Vent Gas Compliance Demonstration Requirement shall be operated and maintained according to manufacturer's recommendations. Data availability shall be dictated by Part 70 General Condition V of LAC 33: III.535.A.
231 [LAC 33:III.509]	BACT is determined to be the use of good operating practices and compliance with 40 CFR 60.18 and 40 CFR 63.11.
EQT 0004 EGEN - Plant Eme	rgency Generator
232 [40 CFR 60.4205(b)]	Comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE. [40 CFR 60.4205(b)]
233 [40 CFR 60.4205(e)]	Owners and operators of emergency stationary CI ICE who conduct performance tests in-use must meet the NTE standards as indicated in 40 CFR 60.4212. [40 CFR 60.4205(e)]
234 [40 CFR 60.4206]	Operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine.
235 [40 CFR 60.4207(b)]	Use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. [40 CFR 60.4207(b)]
236 [40 CFR 60.4211(a)]	Except as permitted under 40 CFR 60.4211(g), operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the manufacturer; and meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable. [40 CFR 60.4211(a)]
237 [40 CFR 60.4211(c)]	Comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(b) for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR 60.4211(g). [40 CFR 60.4211(c)]
238 [40 CFR 60.4211(f)]	<ul> <li>Operate the emergency stationary ICE according to the requirements in 40 CFR 60.4211(f)(1), (f)(2)(i), and (f)(3). In order for the engine to be considered an emergency stationary ICE, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, is prohibited. If you do not operate the engine according to these requirements, the engine will not be considered an emergency engine under Subpart IIII and must meet all requirements for non-emergency engines.</li> <li>(1) There is no time limit on the use of emergency stationary ICE in emergency situations.</li> <li>(2) Emergency stationary ICE may be operated for maintenance checks and readiness testing for a maximum of 100 hours per calendar year, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.</li> <li>(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing. [40 CFR 60.4211(f)]</li> </ul>

#### EQT 0004 EGEN - Plant Emergency Generator

239 [40 CFR 60.4211(g)(3)]	If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, keep a maintenance plan and records of conducted maintenance and, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. Conduct subsequent performance testing every 8760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards. [40 CFR 60.4211(g)(3)]
240 [40 CFR 60.4212]	Conduct performance tests according to 40 CFR 60.4212(a)-(e).
241 [40 CFR 60.4218]	Comply with the General Provisions in 40 CFR 60.1 - 60.19 per Table 8 to Subpart IIII.
242 [40 CFR 63.6645(f)]	Include in the Initial Notification the information specified in 40 CFR 63.9(b)(2)(i) through $(b)(2)(v)$ , and a statement that the stationary
	RICE has no additional requirements and explain the basis of the exclusion, if required to submit an Initial Notification but are otherwise not affected by the requirements of 40 CFR 63 Subpart ZZZZ. Subpart ZZZZ. [40 CFR 63.6645(f)]
243 [LAC 33:III.507.H.1.a]	Compliance demonstration for NOx, CO, PM10, PM2.5, and VOC: Emission for NOx, CO, PM10, and PM2.5 shall be calculated using NSPS Subpart IIII emission factors, engine horsepower rating, average BSFC of 7000 BTU/hp-hr, and actual non-emergency operating hours. Emissions for VOC shall be calculated using AP-42 Table 3.4-1 emission factor for TOC (as CH4), engine horsepower rating, average BSFC of 7000 BTU/hp-hr, and actual non-emergency operating hours. Emissions during emergency use must be reported pursuant to LAC 33:III.919, but shall not be counted against permit limits for purposes of determining compliance.
244 [LAC 33:III.509]	BACT for PM10, PM2.5, CO, NOx, and VOC is compliance with 40 CFR 60 Subpart IIII.
EQT 0005 FWP-01 - Firewater	Pump Engine No. 1
245 [40 CFR 63.6590(c)(7)]	Comply with the requirement of 40 CFR 63 Subpart ZZZZ by complying with the requirements of 40 CFR 60 Subpart IIII. [40 CFR 63.6590(c)(7)]
246 [LAC 33:III.507.H.1.a]	Compliance demonstration for NOx, CO, PM10, PM2.5, and VOC: Emissions of NOx, CO, PM10, and PM2.5 shall be calculated using NSPS Subpart IIII emission factors, engine horsepower rating, average BSFC of 7000 BTU/hp-hr, and actual non-emergency operating hours. Emissions for VOC shall be calculated using AP-42 Table 3.3-1 emission factor for TOC (Exhaust), engine horsepower rating,

247 [LAC 33:III.509]

#### EQT 0006 FWP-02 - Firewater Pump Engine No. 2

 248 [40 CFR 63.6590(c)(7)]
 Comply with the requirement of 40 CFR 63 Subpart ZZZZ by complying with the requirements of 40 CFR 60 Subpart IIII. [40 CFR 63.6590(c)(7)]

 249 [LAC 33:III.507.H.1.a]
 Compliance demonstration for NOx, CO, PM10, PM2.5, and VOC: Emissions of NOx, CO, PM10, and PM2.5 shall be calculated using NSPS Subpart III emission factors, engine horsepower rating, average BSFC of 7000 BTU/hp-hr, and actual non-emergency operating horsepower for TOC (Exhaust) and proceeding horsepower rating.

hours. Emissions for VOC shall be calculated using AP-42 Table 3.3-1 emission factor for TOC (Exhaust), engine horsepower rating, average BSFC of 7000 BTU/hp-hr, and actual non-emergency operating hours. Emissions during emergency use must be reported pursuant to LAC 33:III.919, but shall not be counted against permit limits for purposes of determining compliance.

average BSFC of 7000 BTU/hp-hr, and actual non-emergency operating hours. Emissions during emergency use must be reported

pursuant to LAC 33:III.919, but shall not be counted against permit limits for purposes of determining compliance.

BACT for PM10, PM2.5, CO, NOx, and VOC is determined to be compliance with 40 CFR 60 Subpart IIII.

# EQT 0006 FWP-02 - Firewater Pump Engine No. 2

250 [LAC 33:III.509]	BACT for PM10, PM2.5, CO, NOx, and VOC is determined to be compliance with 40 CFR 60 Subpart IIII.
EQT 0007 CWT - Cooling Wa	iter Tower
251 [40 CFR 63.104(b)]	Monitor the cooling water for total hazardous air pollutants, total volatile organic compounds, total organic carbon, one or more speciated HAP compounds, or other representative substances that would indicate the presence of a leak in the heat exchange system. Monitor the cooling water monthly for the first 6 months and quarterly thereafter to detect leaks. Determine the concentration of the monitored substance(s) in the cooling water using any EPA-approved method listed in 40 CFR 136 as long as the method is sensitive to concentrations as low as 10 parts per million and the same method is used for both entrance and exit samples. Alternative methods may be used upon approval by the Administrator. Collect samples either at the entrance and exit of each heat exchange system or at locations where the cooling water enters and exits each heat exchanger or any combination of heat exchangers. Take a minimum of three sets of samples at each entrance and exit. Calculate the average entrance and exit concentrations, corrected for the addition of any makeup water or for any evaporative losses, as applicable. A leak is detected if the exit mean concentration is found to be greater than the entrance mean using a one-sided statistical procedure at the 0.05 level of significance and the amount by which it is greater is at least 1 part per million or 10 percent of the entrance mean, whichever is greater. [40 CFR 63.104(b)]
252 [40 CFR 63.104(d)]	If a leak is detected, repair it as soon as practical, but not later than 45 calendar days after receipt of the results of monitoring tests indicating a leak. Repair the leak unless the results are due to a condition other than a leak. Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. [40 CFR 63.104(d)]
253 [40 CFR 63.104(e)]	Delay of repair of heat exchange systems for which leaks have been detected is allowed if the equipment is isolated from the process. Delay of repair is also allowed if repair is technically infeasible without a shutdown and any one of the conditions in 40 CFR 63.104(e)(1) or (2) is met. Determine all time periods from the date delay of repair is determined to be necessary. [40 CFR 63.104(e)]
254 [40 CFR 63.104(f)(1)]	Retain the records identified in 40 CFR 63.104(f)(1)(i)-(iv) as specified in 40 CFR 63.103(c)(1). [40 CFR 63.104(f)(1)]
255 [40 CFR 63.104(f)(2)]	If the delay of repair provisions for a heat exchange system are invoked, submit the information specified in 40 CFR 63.104(f)(2)(i)-(v) in the next semi-annual periodic report required by 40 CFR 63.152(c). If the leak remains unrepaired, submit the information in each subsequent periodic report until repair of the leak is reported. [40 CFR 63.104(f)(2)]
256 [LAC 33:III.507.H.1.a]	Compliance demonstration for PM10 and PM 2.5: Total particulate matter emissions shall be calculated using an average of total dissolved solids (TDS) samples taken, cooling tower pump recirculation rates, and drift factor based on manufacturer's guarantee.
257 [LAC 33:III.507.H.1.a]	Compliance demonstration method: VOC emissions shall be calculated using actual monitoring data as required by 40 CFR 63 Subpart F.
258 [LAC 33:III.509]	BACT for CO and VOC is determined to be Direct Contact Design with Exchanger Monitoring and Repair in accordance with HON (40 CFR 63, Subpart F).
259 [LAC 33:III.509]	BACT for PM10/PM2.5 is determined to be high efficiency drift eliminators that limit drift to 0.0005%.
260 [LAC 33:III.509]	Determine and record the concentration of total dissolved solids (TDS) in the cooling water at least once per month using Standard Method 2540C or EPA Method 160.1. Alternate methods may be used with the prior approval of LDEQ. The efficiency of the drift eliminators shall be verified by the manufacturer's certification. The permittee shall average all recorded TDS concentrations and utilize the manufacturer's drift rate and the design recirculation rate of the cooling water pump(s) to determine compliance with the emissions limitations.

#### EQT 0014 TK-NH3 - Ammonia Tank

261 [LAC 33:III.501.C.6]	Conduct weekly inspections for visible, audible, or olfactory indications of leaks. Document the date of the inspection and whether a leak was detected. Leaks shall be repaired as soon as practicable. When a leak is detected, record the date of first attempt to repair the leak and the date of successful repair of the leak.
EQT 0018 F-03007 - Slop Ves	ssel
262 [LAC 33:III.2103.A]	Do not place, store, or hold in any stationary tank, reservoir, or other container of more than 250 gallons and up to 40,000 gallons nominal capacity any volatile organic compound, having a maximum true vapor pressure of 1.5 psia or greater at storage conditions, unless such tank, reservoir, or other container is designed and equipped with a submerged fill pipe or a vapor loss control system, or is a pressure tank capable of maintaining working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.
263 [LAC 33:III.507.H.1.a] 264 [LAC 33:III.509]	The permittee shall monitor and record the throughput of the tank during each calendar month. BACT for VOC emissions is determined to be routing displaced vapors from the slop vessel to a vapor collection system and flare meeting the requirements of 40 CFR 60.18 and 40 CFR 63.11 to achieve 98% VOC control efficiency.
EQT 0022 FWP-03 - Firewate	er Pump Engine No. 3
265 [40 CFR 63.6590(c)(7)]	Comply with the requirement of 40 CFR 63 Subpart ZZZZ by complying with the requirements of 40 CFR 60 Subpart IIII. [40 CFR 63.6590(c)(7)]
266 [LAC 33:III.507.H.1.a]	Compliance demonstration for NOx, CO, PM10, PM2.5, and VOC: Emissions of NOx, CO, PM10, and PM2.5 shall be calculated using engine manufacturer rating data, engine horsepower rating, average BSFC of 7000 BTU/hp-hr, and actual non-emergency operating hours. Emissions for VOC shall be calculated using AP-42 Table 3.3-1 emission factor for TOC (Exhaust), engine horsepower rating, average BSFC of 7000 BTU/hp-hr, and actual non-emergency operating hours. Emissions during emergency use must be reported pursuant to LAC 33:III.919, but shall not be counted against permit limits for purposes of determining compliance.
267 [LAC 33:III.509]	BACT for PM10, PM2.5, CO, NOx, and VOC is determined to be compliance with 40 CFR 60 Subpart IIII.
EQT 0026 EGEN2 - Admin B	uilding Emergency Generator
268 [40 CFR 60.4233(e)]	(Excluding formaldehyde) VOC, Total <= 1.0 g/BHP-hr (0.0022 lb/HP-hr; 86 ppmdv at 15% O2). Subpart JJJJ. [40 CFR 60.4233(e)] Which Months: All Year Statistical Basis: None specified
269 [40 CFR 60.4233(e)]	Carbon monoxide <= 4.0 g/BHP-hr (0.0088 lb/HP-hr; 540 ppmdv at 15% O2). Subpart JJJJ. [40 CFR 60.4233(e)] Which Months: All Year Statistical Basis: None specified
270 [40 CFR 60.4233(e)]	Nitrogen oxides <= 2.0 g/BHP-hr (0.0044 lb/HP-hr; 160 ppmdv at 15% O2). Subpart JJJJ. [40 CFR 60.4233(e)] Which Months: All Year Statistical Basis: None specified
271 [40 CFR 60.4234]	Operate and maintain stationary SI ICE to achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. Subpart JJJJ.
272 [40 CFR 60.4237]	Operating time monitored by hour/time monitor continuously during operation, if the engine meets the standards applicable to emergency engines. Install a non-resettable hour meter upon startup of engine. Subpart JJJJ. Which Months: All Year Statistical Basis: None specified

- 273 [40 CFR 60.4243(b)(1)] Ensure engine is certified according to procedures specified in 40 CFR 60 Subpart JJJJ, for the same model year. Demonstrate compliance according to one of the methods specified in 40 CFR 60.4243(a). Subpart JJJJ. [40 CFR 60.4243(b)(1)]
- 274 [40 CFR 60.4243(d)(1)] There is no time limit on the use of emergency stationary ICE in emergency situations. Subpart JJJJ. [40 CFR 60.4243(d)(1)]

## EQT 0026 EGEN2 - Admin Building Emergency Generator

275 [40 CFR 60.4243(d)(2)(i)]	Operate for maintenance checks and readiness testing for a maximum of 100 hours per calendar year, provided that the tests are recommended by the federal, state or local government; the manufacturer; the vendor; the regional transmission organization or equivalent balancing authority and transmission operator; or the insurance company associated with the engine. LDEQ may be petitioned for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if records are maintained indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.
276 [40 CFR 60.4243(d)(3)]	Subpart JJJJ. [40 CFR 60.4243(d)(2)(i)] Operate for up to 50 hours per calendar year in non-emergency situations. Count the 50 hours of operation in non-emergency situations as part of the 100 hours per calendar year for maintenance and testing provided in 40 CFR 60.4243(f)(2)(i). Do not use the 50 hours per calendar year for non-emergency situations for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity, except as provided in 40 CFR 60.4243(f)(3)
277 [40 CFR 60.4243(d)]	<ul> <li>(i). Subpart JJJJ. [40 CFR 60.4243(d)(3)]</li> <li>Operate according to the requirements in 40 CFR 60.4243(d)(1), (d)(2)(i), and (d)(3). In order for the engine to be considered an emergency stationary ICE under 40 CFR 60 Subpart JJJJ, any operation other than as described in 40 CFR 60.4243(d)(1), (d)(2)(i), and (d)</li> <li>(3) is prohibited. If the engine is not operated according to these requirements, the engine will not be considered an emergency engine under 40 CFR 60 Subpart JJJJ and must meet all requirements for non-emergency engines. Subpart JJJJ. [40 CFR 60.4243(d)]</li> </ul>
278 [40 CFR 60.4243(e)]	Operate using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations. Keep records of such use. If propane is used for more than 100 hours per year and the engine is not certified to the emission standards when using propane, conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. Subpart JJJJ. [40 CFR 60.4243(e)]
279 [40 CFR 60.4243(g)]	Air-to-fuel ratio controller: Maintain and operate appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. Subpart JJJJ. [40 CFR 60.4243(g)]
280 [40 CFR 60.4244]	Conduct performance tests by following the procedures in 40 CFR 60.4244(a) through (g). Subpart JJJJ.
281 [40 CFR 60.4245(a)]	Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the information in 40 CFR 60.4245(a)(1) though (a)(4). Subpart JJJJ. [40 CFR 60.4245(a)]
282 [40 CFR 60.4245(b)]	Operating time recordkeeping by electronic or hard copy upon occurrence of event, if the engine meets the standards applicable to emergency engines. Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. Subpart JJJJ. [40 CFR 60.4245(b)]
283 [40 CFR 60.4245(d)]	Submit performance test results: Due within 60 days after each test conducted according to 40 CFR 60.4244 has been completed. Subpart JJJJ. [40 CFR 60.4245(d)]
284 [40 CFR 63.6590(c)(7)]	A new or reconstructed compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions must comply with 40 CFR 63 Subpart ZZZZ by complying with the applicable requirements of NSPS Subpart JJJJ. No further requirements apply for such engines under 40 CFR 63 Subpart ZZZZ. [40 CFR 63.6590(c)(7)]
285 [LAC 33:III.1311.C]	Opacity <= 20 percent, except for emissions that have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average
286 [LAC 33:III.507.H.1.a]	Compliance Demonstration Method: Compliance demonstration for NOx, CO, and VOC: Emissions for NOx, CO, and VOC shall be calculated using NSPS Subpart JJJJ emission factors, engine horsepower rating, heat input vendor data, and actual non-emergency operating hours. PM10 and PM2.5 are calculated using EPA AP-42 Table 3.2-2 emission factors, engine horsepower rating, heat input vendor data, and actual non-emergency operating hours. Emissions during emergency use must be reported pursuant to LAC 33:III.919, but shall not be counted against permit limits for purposes of determining compliance.

#### EQT 0026 EGEN2 - Admin Building Emergency Generator

287 [LAC 33:III.509] BACT for PM10, PM2.5, CO, NOx, and VOC is determined to be compliance with 40 CFR 60 Subpart JJJJ.

#### EQT 0027 GASTANK - Gasoline Storage Tank

288 [LAC 33:III.2103.A]	Equip with a submerged fill pipe.
289 [LAC 33:III.2103.H.3]	Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
290 [LAC 33:III.2103.I]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the
	information specified in LAC 33:III.2103.I.1 through I.7, as applicable. Maintain records for at least two years.
291 [LAC 33:III.507.H.1.a]	Compliance demonstration method: VOC emissions shall be calculated using the equations set forth in AP-42 Section 7.1.3.1 (Total losses
	from fixed roof tanks) at ambient temperature and the actual throughput of gasoline.
292 [LAC 33:III.509]	BACT is determined to be the use of a fixed roof with a submerged fill pipe.

#### EQT 0028 RT LOAD - Methanol Railcar and Tank Truck Loading Operations

293 [40 CFR 63.126(a)]	Equip with a vapor collection system and control device. Subpart G. [40 CFR 63.126(a)]
294 [40 CFR 63.126(b)(1)]	Organic HAP $\geq 98$ % reduction by weight or exit concentration $\leq 20$ ppmv, whichever is less stringent, using a control device. Subpart
	G. [40 CFR 63.126(b)(1)] Which Monthey All Year Statistical Basic News analised
295 [40 CFR 63.126(e)]	Which Months: All Year Statistical Basis: None specified
295 [40 CFR 05.120(e)]	Load organic HAPs into only tank trucks and railcars which have a current certification in accordance with the U.S. Department of Transportation pressure test requirements of 49 CFR part 180 for tank trucks and 49 CFR 173.31 for railcars; or have been demonstrated to
296 [40 CFR 63.126(f)]	be vapor-tight within the preceding 12 months, as determined by the procedures in 40 CFR 63.128(f). Subpart G. [40 CFR 63.126(e)]
290 [40 CFK 03.120(1)]	Load organic HAPs to only tank trucks or railcars equipped with vapor collection equipment that is compatible with the transfer rack's vapor collection system. Subpart G. [40 CFR 63.126(f)]
297 [40 CFR 63.126(g)]	Load organic HAPs to only tank trucks or railcars whose collection systems are connected to the transfer rack's vapor collection systems.
	Subpart G. [40 CFR 63.126(g)]
298 [40 CFR 63.126(h)]	Ensure that no pressure-relief device in the transfer rack's vapor collection system or in the organic HAPs loading equipment of each tank
	truck or railcar shall begin to open during loading. Subpart G. [40 CFR 63.126(h)]
299 [40 CFR 63.126(i)]	Each value in the vent system that would divert the vent stream to the atmosphere, either directly or indirectly, shall be secured in a non-
	diverting position using a carseal or a lock-and-key type configuration, or shall be equipped with a flow indicator. [40 CFR 63.126(i)]
300 [40 CFR 63.127(a)(1)]	Install, calibrate, maintain, and operate according to the manufacturers' specifications (or other written procedures that provide adequate
	assurance that the equipment would reasonably be expected to monitor accurately) a temperature monitoring device equipped with a
	continuous recorder. The temperature monitoring device shall be installed in the firebox or in the ductwork immediately downstream of the
	firebox in a position before any substantial heat exchange occurs. [40 CFR 63.127(a)(1)]
301 [40 CFR 63.127(d)]	Comply with 40 CFR 63.127(d)(1) or (2) if the vent system contains by-pass lines that could divert a vent stream flow away from the
	control device used to comply with 40 CFR 63.126(b). [40 CFR 63.127(d)]
302 [40 CFR 63.127(e)]	Establish a range that indicates proper operation of the control device for each parameter monitored under 40 CFR 63.127(a). In order to
	establish the range, the information required in 40 CFR 63.152(b)(2) shall be submitted in the Notification of Compliance Status or an
	operating permit amendment. [40 CFR 63.127(e)]
303 [40 CFR 63.128(a)]	Conduct a performance test to determine compliance with the reduction of total organic HAP emissions in 40 CFR 63.126(b). Performance
	test procedures are described in 40 CFR 63.128(a)(1)-(11). [40 CFR 63.128(a)]

## EQT 0028 RT LOAD - Methanol Railcar and Tank Truck Loading Operations

304 [40 CFR 63.128(e)]	Inspect the vapor collection system according to the requirements for vapor collection systems in 40 CFR 63.148. Inspections shall be performed only while a tank truck or railcar is being loaded. An inspection shall be performed prior to each performance test required to demonstrate compliance with 40 CFR 63.126(b)(1). [40 CFR 63.128(e)]
305 [40 CFR 63.128(f)]	For the purposes of demonstrating vapor tightness to determine compliance with 40 CFR 63.126(e)(2), the following procedures and equipment shall be used: the pressure test procedures specified in Method 27 of 40 CFR 60, Appendix A; and a pressure measurement device which has a precision of #1B2.5 millimeters of mercury or better and which is capable of measuring above the pressure at which the tank truck or railcar is to be tested for vapor tightness. [40 CFR 63.128(f)]
306 [40 CFR 63.129(a)(1)]	Keep an up-to-date, readily accessible record of the data specified in 40 CFR 63.129(a)(4). [40 CFR 63.129(a)(1)]
307 [40 CFR 63.129(a)(2)]	Include the data specified in 40 CFR 63.129(a)(4) in the Notification of Compliance Status report as specified in 40 CFR 63.152(b). If any subsequent performance tests are conducted after the Notification of Compliance Status has been submitted, report the data in 40 CFR 63.129(a)(4) in the next periodic report as specified in 40 CFR 63.152(c). [40 CFR 63.129(a)(2), 40 CFR 63.129(a)(3)]
308 [40 CFR 63.129(c)]	For each parameter monitored according to Table 7 of Subpart G or 40 CFR 63.129(b), establish a range for the parameter that indicates
508 [40 CITC 05.127(0)]	proper operation of the control device. In order to establish the range, submit the information required in 40 CFR 63.152(b)(2) in the Notification of Compliance Status or an operating permit amendment. [40 CFR 63.129(c)]
309 [40 CFR 63.129(d)]	Maintain a record describing in detail the vent system used to vent each affected transfer vent stream to a control device. List all valves and
	vent pipes that could vent the stream to the atmosphere, thereby by-passing the control device; identify which valves are secured by car-
	seals or lockand-key type configurations; and indicate the position (open or closed) of those valves which have car-seals. [40 CFR 63.129 (d)]
310 [40 CFR 63.130(a)]	Keep up-to-date, readily accessible records of the information described in 40 CFR 63.130(a)(1) and (2). [40 CFR 63.130(a)]
311 [40 CFR 63.130(b)]	Keep up-to-date, readily accessible records of the information described in 40 CFR 63.130(b)(1) and (2) if a vapor collection system containing valves that could divert the emission stream away from the control device is used. [40 CFR 63.130(b)]
312 [40 CFR 63.130(d)]	Submit to the Administrator periodic reports of the information described in 40 CFR 63.130(d)(1)-(4), as applicable, according to the schedule in 40 CFR 63.152(c). [40 CFR 63.130(d)]
313 [40 CFR 63.130(e)]	Record that the verification of DOT tank certification or Method 27 testing, required in 40 CFR 63.126(e), has been performed. [40 CFR 63.130(e)]
314 [40 CFR 63.130(f)]	Record, update annually, and maintain the information specified in 40 CFR $63.130(f)(1)$ -(3) in a readily accessible location on site. [40 CFR $63.130(f)$ ]
315 [LAC 33:III.1101.B]	Opacity <= 20 percent, except for emissions that have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Determine opacity by using Method 9 of 40 CFR Part 60, Appendix A or by using a continuous opacity monitoring system (COMS) meeting the requirements outlined in 40 CFR 60.13(c) and (d). Which Months: All Year Statistical Basis: None specified
316 [LAC 33:III.1311.C]	Opacity <= 20 percent, except for emissions that have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
	Which Months: All Year Statistical Basis: Six-minute average
317 [LAC 33:III.2107.B]	Equip with a vapor collection system properly installed and in good working order. The vapor collection system shall consist of, at a minimum, a vapor return line which returns to the VOC dispensing vessel or to a disposal system all vapors displaced during loading. In the event a disposal system is used, it shall have a destruction/removal efficiency of no less than 90 percent. Prevent spills during the attachment and disconnection of filling lines or arms. Equip loading and vapor lines with fittings which close automatically when disconnected or otherwise allow residual VOC in the loading line to discharge into a collection system or disposal or recycling system. ** PERMIT SHIELD: Compliance with the provisions of 40 CFR 63 Subpart G shall constitute compliance with LAC 33:III.2107 **.

## EQT 0028 RT LOAD - Methanol Railcar and Tank Truck Loading Operations

318 [LAC 33:III.2107.C]	No liquid or gaseous leaks shall exist during loading or unloading operations. Conduct inspections for visible liquid leaks, visible fumes, or significant odors resulting from VOC dispensing operations. Discontinue VOC loading or unloading immediately when a leak is observed and do not resume until the observed leak is repaired.
	** PERMIT SHIELD: Compliance with the provisions of 40 CFR 63 Subpart G shall constitute compliance with LAC 33:III.2107 **.
319 [LAC 33:III.2107.D]	Maintain the following information on the premises for at least two years and make such information available upon request: 1. a daily record of the total throughput of VOC loaded at the facility;
	2. a daily record of the number of delivery vessels loaded at the facility and the quantity and type of VOC loaded to each delivery vessel;
	3. a record of any leaks found at the facility in accordance with the provisions specified in LAC 33:III.2107.C and the corrective action taken;
	4. a record of the results of any testing conducted at the facility in accordance with the provisions specified in LAC 33:III.2107.E; 5. daily measurements of the exhaust gas temperature immediately downstream of a direct-flame incinerator; and
	6. the date and reason for any maintenance and repair of the control device and the estimated quantity and duration of VOC emissions
	during
	such activities.
	** PERMIT SHIELD: Compliance with the provisions of 40 CFR 63 Subpart G shall constitute compliance with LAC 33:III.2107 **.
320 [LAC 33:III.2107.E]	Determine compliance with LAC 33:III.2107.B by applying the test methods outlined in LAC 33:III.2107.E.1.a-d, as appropriate. Notify the Office of Environmental Services at least 30 days prior to performing any emission test. Submit to the Office of Environmental
	Services a copy of the test results within 60 days of test completion.
	** PERMIT SHIELD: Compliance with the provisions of 40 CFR 63 Subpart G shall constitute compliance with LAC 33:III.2107 **.
321 [LAC 33:III.509]	BACT for VOC emissions is determined to be routing displaced vapors to a vapor control unit capable of achieving 98% reduction of VOC emissions. VOC emissions will also be limited to 18.54 lb/hr.
322 [LAC 33:III.509]	Demonstrate compliance with the emission limitations for VOC of this permit by conducting performance tests within 180 days after
	issuance of Permit 2560-00295-V6. Per LAC 33:III.913.A, provide necessary sampling ports in stacks or ducts and such other safe and
	proper sampling and testing facilities for proper determination of the emission of air contaminants. (a) Submit notification to the Office of
	Environmental Services at 30 days prior to a performance test in order to provide LDEQ with the opportunity to conduct a pretest meeting
	and/or observe the test. (b) Use the following stack test methods from 40 CFR 60, Appendix A (unless otherwise noted). Alternate stack
	test methods may be used with the prior approval of the Office of Environmental Services. VOC: Method 25a - Determination of Total
	Gaseous Organic Concentration Using a Flame Ionization Analyzer. (c) Submit performance test results to the Office of Environmental
	Services within 60 days after the completion of the test. (d) Repeat performance tests annually (plus or minus 1 calendar months).
FUG 0001 FUG - Fugitive Emis	ssions - KMe Facility

323 [40 CFR 60.480a(e)(2)]	When choosing to comply with 40 CFR 63 Subpart H, the requirements of 40 CFR 60.485a(d), (e), and (f), and §60.486a(i) and (j) still
	apply. Comply with 40 CFR 60.1, 60.2, 60.5, 60.6, 60.7(a)(1) and (4), 60.14, 60.15, and 60.16. [40 CFR 60.480a(e)(2)]
324 [40 CFR 60.485a(d)]	Test each piece of equipment unless he demonstrates that a process unit is not in VOC service, i.e., that the VOC content would never be
	reasonably expected to exceed 10 percent by weight. For purposes of this demonstration, the methods and procedures described in 40 CFR
	60.485a(d)(1)-(3) shall be used. [40 CFR 60.485a(d)]
325 [40 CFR 60.485a(e)]	Demonstrate that a piece of equipment is in light liquid service by showing that all the conditions described in 40 CFR 60.485a(e)(1)-(3)
	apply. [40 CFR 60.485a(e)]

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334 [40 CFR 63.148(j)]	Submit with the reports required by 40 CFR 63.182(b) or with the reports required by 40 CFR 63.152(c), the information specified in 40 CFR 63.148(i)(4); reports of the times of all periods recorded under 40 CFR 63.148(i)(3)(i) when the vent stream is diverted from the
	control device through a bypass line; and reports of all periods recorded under 40 CFR 63.148(i)(3)(ii) in which the seal mechanism is broken, the bypass line valve position has changed, or the key to unlock the bypass line valve was checked out. [40 CFR 63.148(j)]
335 [40 CFR 63.162(c)]	Identify each piece of equipment such that it can be distinguished readily from equipment that is not subject to Subpart H. [40 CFR 63.148()]
555 [40 CIR 05.102(0)]	(c)]
336 [40 CFR 63.162(f)]	Comply with the requirements of 40 CFR 63.162(f)(1)-(3) when each leak is detected as specified in 40 CFR 63.163 and 63.164, 40 CFR
2	63.168 and 63.169, and 40 CFR 63.172 through 63.174. [40 CFR 63.162(f)]
337 [40 CFR 63.163]	Monitor each pump monthly to detect leaks by the method specified in 40 CFR 63.180(b) and comply with the requirements of 40 CFR
	63.163(a)-(d), except as provided in 40 CFR 63.163(e)-(j).
338 [40 CFR 63.164]	Equip each compressor with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere,
	except as provided 40 CFR 63.164(h) and (i). Each compressor seal system shall meet the requirements of 40 CFR 63.164(b)(1), (2), or
	(3). The barrier fluid shall not be in light liquid service. Each barrier fluid system shall be equipped with a sensor that will detect failure of
	the seal system, barrier fluid system, or both. Observe each sensor daily or equip it with an alarm. Determine, based on design
	considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. If the sensor
	indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is
	detected. When a leak is detected, repair it as soon as practicable, but not later than 15 calendar days after it is detected, except as provided
	in 40 CFR 63.171. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.
339 [40 CFR 63.165]	Except during pressure releases and as provided in 40 CFR 63.165(c) or (d), operate each pressure relief device in gas/vapor service with
	an instrument reading of less than 500 parts per million above background as measured by the method specified in 40 CFR 63.180(c).
	After each pressure release, return the pressure relief device to a condition indicated by an instrument reading of less than 500 parts per
	million above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40
	CFR 63.171. No later than 5 calendar days after the pressure release and being returned to organic HAP service, monitor the pressure relief device to confirm the condition indicated by an instrument reading of less than 500 parts per million above background, as measured by the
	method specified in 40 CFR 63.180(c).
340 [40 CFR 63.166]	Equip each sampling connection system with a closed-purge, closed-loop, or closed-vent system meeting the requirements of 40 CFR
540 [40 CIAC 05.100]	63.166(b)(1)-(4), as applicable.
341 [40 CFR 63.167]	Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.167(d)
LJ	and (e). The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid
	flow through the open-ended valve or line, or during maintenance or repair. Each open-ended valve or line equipped with a second valve
	shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed. When a double block
	and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block
	valves but shall comply with 40 CFR 63.167(a) at all other times.
342 [40 CFR 63.168]	Monitor all valves, except as provided in 40 CFR 63.168(h) and (i), at the intervals specified in 40 CFR 63.168(c) and (d); and comply with
	all other provisions of 40 CFR 63.168, except as provided in 40 CFR 63.171.

343 [40 CFR 63.169]	Pumps, valves, connectors, and agitators in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and instrumentation systems shall be monitored within 5 calendar days by the method specified in 40 CFR 63.180(b) if evidence of a potential leak to the atmosphere is found by visual, audible, olfactory, or any other detection method. If such a potential leak is repaired as required in 40 CFR 63.169(c) and (d), it is not necessary to monitor the system for leaks by the method specified in 40 CFR 63.180(b). If an instrument reading of 10,000 parts per million or greater for agitators, 5,000 parts per million or greater for pumps handling polymerizing monomers, 2,000 parts per million or greater for all other pumps (including pumps in food/medical service), or 500 parts per million or greater for valves, connectors, instrumentation systems, and pressure relief devices is measured, a leak is detected. When a leak is detected is the law is detected is a detected in 40 CFR 63.160(c) and (d) and (d) the detection of the devices is measured.
344 [40 CFR 63.170]	detected, it shall be repaired as described in 40 CFR 63.169(c) and (d). Each surge control vessel or bottoms receiver that is not routed back to the process and that meets the conditions specified in Table 3 of Subpart H shall be equipped with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements in 40 CFR 63.172, or comply with the requirements of 40 CFR 63.119(b) or (c) of Subpart G.
345 [40 CFR 63.171(a)]	Delay of repair of equipment for which leaks have been detected is allowed if repair within 15 days is technically infeasible without a process unit shutdown. Repair of this equipment shall occur by the end of the next process unit shutdown. [40 CFR 63.171(a)]
346 [40 CFR 63.171(b)]	Delay of repair of equipment for which leaks have been detected is allowed for equipment that is isolated from the process and that does not remain in organic HAP service. [40 CFR 63.171(b)]
347 [40 CFR 63.171(c) and (e)]	Delay of repair for valves, connectors, and agitators is also allowed if the permittee determines that emissions of purged material resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair, and when repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with 40 CFR 63.172. Delay of repair beyond a process unit shutdown will be allowed for a valve if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the second process unit shutdown will not be allowed unless the third process unit shutdown occurs sooner than 6 months after the first process unit shutdown. [40 CFR 63.171(c) and (e)]
348 [40 CFR 63.171(d)]	Delay of repair for pumps is also allowed if repair requires replacing the existing seal design with a new system that the permittee has determined under the provisions of 40 CFR 63.176(d) will provide better performance or a dual mechanical seal system that meets the requirements of 40 CFR 63.163(e), a pump that meets the requirements of 40 CFR 63.163(f), or a closed-vent system and control device that meets the requirements of 40 CFR 63.163(g); and repair is completed as soon as practicable, but not later than 6 months after the leak was detected. [40 CFR 63.171(d)]
349 [40 CFR 63.172] 350 [40 CFR 63.173]	Comply with the provisions of 40 CFR 63.172 for closed-vent systems and control devices used to comply with provisions of Subpart H. Except as provided in 40 CFR 63.173(d), (e), (f), (h), (i), and (j), monitor each agitator monthly to detect leaks by the methods specified in 40 CFR 63.180(b). If an instrument reading of 10,000 parts per million or greater is measured, a leak is detected. Check each agitator by visual inspection each calendar week for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. When a leak is detected, repair it as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 40 CFR 63.171. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.
351 [40 CFR 63.174]	Monitor all connectors in gas/vapor and light liquid service, except as provided in 40 CFR 63.174(f)-(h), at the intervals specified in 40 CFR 63.174(b) and (c). The connectors shall be monitored to detect leaks by the method specified in 40 CFR 63.180(b). If an instrument reading greater than or equal to 500 parts per million is measured, a leak is detected. When a leak is detected, repair it as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.174(g) and in 40 CFR 63.171. A first attempt at repair shall be made no later than 5 calendar days after the leak is detected.

352 [40 CFR 63.175(a)]	Quality improvement program for valves: In Phase III, the permittee may elect to comply with one of the alternative quality improvement programs specified in 40 CFR 63.175(d) and (e). The decision to use one of these alternative provisions to comply with the requirements of 40 CFR 63.168(d)(1)(ii) must be made during the first year of Phase III. [40 CFR 63.175(a)]
353 [40 CFR 63.175(b) and (d)]	If the permittee elects to use a quality improvement program to demonstrate further progress, meet the requirements described in 40 CFR 63.175(d)(1)-(4). Comply with these requirements until the process unit has fewer than 2 percent leaking valves, calculated as a rolling average of 2 consecutive quarters, as specified in 40 CFR 63.168(e). [40 CFR 63.175(b) and (d)]
354 [40 CFR 63.175(b) and (e)]	If the permittee elects to use a quality improvement program of technology review and improvement, meet the requirements described in 40 CFR 63.175(e)(1)-(8). Comply with these requirements until the process unit has fewer than 2 percent leaking valves, calculated as a rolling average of 2 consecutive quarters, as specified in 40 CFR 63.168(e). [40 CFR 63.175(b) and (e)]
355 [40 CFR 63.175(c)]	After the process unit has fewer than 2 percent leaking valves, the permittee may elect to comply with the requirements in 40 CFR 63.168; to continue to comply with the requirements in 40 CFR 63.175(e) (and (d), if appropriate); or comply with both the requirements in 40 CFR 63.168 and 40 CFR 63.175. If the permittee elects to continue the quality improvement program, he is exempt from the requirements for performance trials as specified in 40 CFR 63.175(e)(6), or further progress as specified in 40 CFR 63.175(d)(4), as long as the process unit has fewer than 2 percent leaking valves calculated according to 40 CFR 63.168(e). If the permittee elects to comply with both 40 CFR 63.175(e) and 40 CFR 63.168, he may also take advantage of the lower monitoring frequencies associated with lower leak rates in 40 CFR 63.168(d)(2), (3), and (4). If the permittee elects not to continue the quality improvement program, the program is no longer an option if the process unit again exceeds 2 percent leaking valves, and in such case, monthly monitoring will be required. [40 CFR 63.175(c)]
356 [40 CFR 63.176]	Quality improvement program for pumps: In Phase III, if, on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit (or plant site) or three pumps in a process unit (or plant site) leak, comply with the requirements of 40 CFR 63.176 until the number of leaking pumps is less than the greater of either 10 percent of the pumps or three pumps, calculated as a 6-month rolling average, in the process unit (or plant site). Once the performance level is achieved, comply with the requirements in 40 CFR 63.163. If in a subsequent monitoring period, the process unit (or plant site) has greater than 10 percent of the pumps leaking or three pumps leaking (calculated as a 6-month rolling average), resume the quality improvement program starting at performance trials. The quality improvement program shall include the requirements described in 40 CFR 63.176(d)(1)-(8).
357 [40 CFR 63.180(a)]	Comply with the test methods and procedures requirements provided in 40 CFR 63.180. [40 CFR 63.180(a)]
358 [40 CFR 63.180(b)]	Monitoring shall comply with the requirements described in 40 CFR 63.180(b)(1)-(6). [40 CFR 63.180(b)]
359 [40 CFR 63.180(c)]	When equipment is monitored for compliance as required in 40 CFR $63.164(i)$ , $63.165(a)$ , and $63.172(f)$ or when equipment subject to a leak definition of 500 ppm is monitored for leaks, the permittee may elect to adjust or not to adjust the instrument readings for background. If the permittee elects to not adjust instrument readings for background, monitor the equipment according to the procedures specified in 40 CFR $63.180(b)(1)$ -(4). In such case, all instrument readings shall be compared directly to the applicable leak definition to determine whether there is a leak. If the permittee elects to adjust instrument readings for background, monitor the equipment according to the procedures specified in 40 CFR $63.180(c)(1)$ -(4). [40 CFR $63.180(c)$ ]

360 [40 CFR 63.180(d)]	Each piece of equipment within a process unit that can reasonably be expected to contain equipment in organic HAP service shall be presumed to be in organic HAP service unless the permittee demonstrates that the piece of equipment is not in organic HAP service. For a piece of equipment to be considered not in organic HAP service, determine that the percent organic HAP content can be reasonably expected not to exceed 5 percent by weight on an annual average basis. For purposes of determining the percent organic HAP content of the process fluid that is contained in or contacts equipment, Method 18 of 40 CFR part 60, appendix A shall be used. The permittee may use good engineering judgment rather than the procedures in 40 CFR 63.180(d)(1) to determine that the percent organic HAP content does not exceed 5 percent by weight. Conversely, the permittee may determine that the organic HAP content of the process fluid does not exceed 5 percent by weight by, for example, accounting for 98 percent of the content and showing that organic HAP is less than 3 percent. If the permittee determines that a piece of equipment is in organic HAP service, the determination can be revised after following the
	procedures in 40 CFR 63.180(d)(1), or by documenting that a change in the process or raw materials no longer causes the equipment to be in organic HAP service. Samples used in determining the percent organic HAP content shall be representative of the process fluid that is contained in or contacts the equipment. [40 CFR 63.180(d)]
361 [40 CFR 63.181(a)]	Maintain all records and information required by 40 CFR 63.181 in a manner that can be readily accessed at the plant site. [40 CFR 63.181 (a)]
362 [40 CFR 63.181(b)]	Record the information described in 40 CFR 63.181(b)(1)-(10) for equipment in each process unit subject to the requirements in 40 CFR 63.162 through 63.174. [40 CFR 63.181(b)]
363 [40 CFR 63.181(c)]	For visual inspections of equipment (e.g., 40 CFR 63.163(b)(3), 40 CFR 63.163(e)(4)(i)), document that the inspection was conducted and the date of the inspection. Maintain records for 2 years as specified in 40 CFR 63.163(d) for leaking equipment identified in this inspection. [40 CFR 63.181(c)]
364 [40 CFR 63.181(d)]	Record and keep for 2 years the information described in 40 CFR 63.181(d)(1)-(9) when each leak is detected as specified in 40 CFR 63.163 and 63.164, 40 CFR 63.168 and 63.169, and 40 CFR 63.172 through 63.174. [40 CFR 63.181(d)]
365 [40 CFR 63.181(f)]	Record the dates and results of each compliance test required for compressors subject to the provisions in 40 CFR 63.164(i) and the dates and results of the monitoring following a pressure release for each pressure relief device subject to the provisions in 40 CFR 63.165(a) and (b). Include the background level measured during each compliance test and the maximum instrument reading measured at each piece of equipment during each compliance test. [40 CFR 63.181(f)]
366 [40 CFR 63.181(g)]	Maintain records of the information specified in 40 CFR $63.181(g)(1)$ - $(3)$ for closed-vent systems and control devices subject to the provisions of 40 CFR $63.172$ . Retain the records specified in 40 CFR $63.181(g)(1)$ for the life of the equipment. Retain the records specified in 40 CFR $63.181(g)(2)$ and (3) for 2 years. [40 CFR $63.181(g)$ ]
367 [40 CFR 63.181(h)]	If subject to a quality improvement program as described in 40 CFR 63.175 or 63.176, maintain the records specified in 40 CFR 63.181(h) (1)-(9) for the period of the quality improvement program for the process unit. [40 CFR 63.181(h)]
368 [40 CFR 63.181(i)]	Regarding equipment in heavy liquid service, comply with the requirements of either 40 CFR 63.181(i)(1) or (2), as provided in 40 CFR 63.181(i)(3). [40 CFR 63.181(i)]
369 [40 CFR 63.182(a)]	Submit an Initial Notification as described in 40 CFR 63.182(b), a Notification of Compliance Status as described in 40 CFR 63.182(c), and Periodic Reports as described in 40 CFR 63.182(d). [40 CFR 63.182(a)]
370 [40 CFR 63.182(b)]	Submit a written Initial Notification to the Administrator containing the information described in 40 CFR 63.182(b)(1), according to the schedule in 40 CFR 63.182(b)(2). [40 CFR 63.182(b)]
371 [40 CFR 63.182(c)]	Submit a Notification of Compliance Status within 90 days after startup. Provide the information listed in 40 CFR 63.182(c)(1)(i)-(iv). [40 CFR 63.182(c)]
372 [40 CFR 63.182(d)]	Submit Periodic Reports containing the information described in 40 CFR 63.182(d)(2)-(4) semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). [40 CFR 63.182(d)]

373 [LAC 33:III.2111]	Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
374 [LAC 33:III.501.C.6]	The number of each type of component required to be monitored for each monitoring period under applicable leak definition and repair programs shall be reported to the department by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided: a. changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves; b. the changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than the piping components; c. actual emissions following the changes will not exceed the emission limits contained in this permit; and
	d. the components are promptly incorporated into any applicable leak detection and repair program.
375 [LAC 33:III.507.H.1.a]	Compliance demonstration method: Fugitive CO emissions shall be calculated using actual monitoring data as required by 40 CFR 63 Subpart H and the percent CO gas stream composition or, for components that do not require monitoring by Method 21, Table 2-1 SOCMI Average Emission Factors in EPA's Protocol for Equipment Leak Emission Factors in EPA's Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017) and the composition of CO in the gas stream. CO gas stream composition may be based on process engineering knowledge. Alternatively for components that are not subject to 40 CFR 60 Subpart VVa and streams contain > 5% CO, Koch may use the results of the CO LDAR program to calculate emissions for CO, with methodology approved by LDEQ.
376 [LAC 33:III.507.H.1.a]	Compliance demonstration method: VOC emissions shall be calculated using actual monitoring data as required by 40 CFR 63 Subpart H or, for components that do not require monitoring by Method 21, Table 2-1 SOCMI Average Emission Factors in EPA's Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017) and the composition of VOC in the stream based on process engineering knowledge.
377 [LAC 33:III.509]	BACT for CO emissions is determined to be a combination of equipment design and LDAR pursuant to 40 CFR 60, Subpart VVa and 40 CFR 63, Subpart H. Koch shall implement a CO LDAR program for those components in CO service that are not subject to VVa and that contain >5% CO. The CO LDAR program shall include relevant elements from Subpart VVa such as calendar-based leak monitoring, 5/15 day repair requirements, delay of repair (DOR), etc., and be adjusted to appropriately accommodate requirements for CO. The CO LDAR plan shall be submitted to LDEQ within 60 days of permit issuance. The CO LDAR program will be implemented within 180 days following LDEQ approval of the plan.
378 [LAC 33:III.509]	BACT for VOC is determined to be a combination of equipment design and LDAR pursuant to 40 CFR 60, Subpart VVa and 40 CFR 63, Subpart H.
379 [LAC 33:III.509]	BACT for fugitive CO2e emissions is determined to be a combination of equipment design and LDAR pursuant to 40 CFR 60, Subpart VVa and 40 CFR 63, Subpart H. Koch shall implement a Methane LDAR program for those components in methane service that are not subject to VVa and that contain >10% methane. The Methane LDAR program shall include relevant elements from Subpart VVa such as calendar-based leak monitoring, 5/15 day repair requirements, delay of repair (DOR), etc., and be adjusted to appropriately accommodate requirements for methane. The Methane LDAR plan shall be submitted to LDEQ within 60 days of permit issuance. The Methane LDAR program will be implemented within 180 days following LDEQ approval of the plan.

#### FUG 0002 WWT - Wastewater Treatment

380 [40 CFR 63.132(b)(1)]	Determine whether each wastewater stream requires control for Table 8 compounds by complying with either 40 CFR 63.132(d),
	determining whether the wastewater stream is Group 1 or Group 2 for Table 8 compounds, or 40 CFR 63.132(e), designating the
	wastewater stream as a Group 1 wastewater stream for Table 8 compounds. Comply with 40 CFR 63.132(f). [40 CFR 63.132(b)(1)]
381 [40 CFR 63.132(b)(2)]	Determine whether each wastewater stream requires control for Table 9 compounds by complying with either 40 CFR 63.132(c),
	determining whether the wastewater stream is Group 1 or Group 2 for Table 9 compounds, or 40 CFR 63.132(e), designating the
	wastewater stream as a Group 1 wastewater stream for Table 8 compounds. Comply with 40 CFR 63.132(f). [40 CFR 63.132(b)(2)]
382 [40 CFR 63.132(b)(3)]	Comply with 40 CFR 63.132(b)(3)(i)-(iv), as applicable, for wastewater streams that are Group 1 for Table 8 compounds and/or Table 9 compounds. [40 CFR 63.132(b)(3)]
383 [40 CFR 63.132(b)(4)]	Comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 63.147(b)(8) for wastewater
	streams that are Group 2 for both table 8 and table 9 compounds. [40 CFR 63.132(b)(4)]
384 [40 CFR 63.133-146]	Comply with the applicable process wastewater provisions of 40 CFR 63 Subpart G, including 40 CFR 63.133 (wastewater tanks); 40 CFR
	63.134 (surface impoundments); 40 CFR 63.135 (containers); 40 CFR 63.136 (individual drain systems); 40 CFR 63.137 (oil-water
	separators); 40 CFR 63.138 (performance standards for treatment processes managing Group 1 wastewater streams and/or residuals
	removed from Group 1 wastewater streams); 40 CFR 63.139 (control devices); 40 CFR 63.140 (delay of repair); 40 CFR 63.143
	(inspections and monitoring of operations); 40 CFR 63.144 (test methods and procedures for determining applicability and Group 1/Group
	2 determinations (determining which wastewater streams require control)); 40 CFR 63.145 (test methods and procedures to determine
	compliance); 40 CFR 63.146 (reporting); and 40 CFR 63.147 (recordkeeping). This Specific Requirement may be further refined once
	operations of the facility commence.
385 [LAC 33:III.507.H.1.a]	Compliance demonstration method: VOC emissions shall be calculated using Toxchem (Version 4.4 or most recent version) based on
	representative test samples and operating parameters.
386 [LAC 33:III.509]	BACT for VOC emissions is determined to be compliance with applicable NESHAP requirements (i.e., 40 CFR 63 Subpart G).
GRP 0002 SMR BLR PCS Ver	nt CAP - SMR, Boiler, PCS Vent CAP

# Group Members: EQT 0001 EQT 0002 RLP 0024

387 [LAC 33:III.501]CO2e emissions <= 1,335,462 tons/yr. Tons/year limit is provided for informational purposes only. Koch shall comply comply with a<br/>two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and<br/>Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit.

#### GRP 0003 MTPCAP - Methanol Transfer and Product Tank Cap

#### Group Members: EQT 0028 EQT 0029 EQT 0030 EQT 0031 EQT 0032

388 [LAC 33:III.501.C.6]The permittee shall limit aggregate VOC and methanol emissions from TK-26-202A, TK-26-202B, TK-26-202C, TK-26-202D, RT<br/>LOAD, including those associated with roof landings and tank cleanings, to 27.88 tons VOC and 27.29 tons methanol, respectively, per 12-<br/>consecutive month period. Emissions above the maximum listed in this Specific Requirement for any twelve consecutive month period<br/>shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.389 [LAC 33:III.507.H.1.a]A report showing VOC/methanol emissions in the preceding calendar year, as well as the twelve consecutive month total for each month,<br/>shall be submitted to the Enforcement Division as an addendum to the permittee's Part 70 General Condition M compliance certification.

## GRP 0003 MTPCAP - Methanol Transfer and Product Tank Cap

#### Group Members: EQT 0028 EQT 0029 EQT 0030 EQT 0031 EQT 0032

390 [LAC 33:III.507.H.1.a]	Compliance demonstration method for RT LOAD: VOC emissions shall be calculated monthly using Equation 1 of AP-42 Section 5.2, the volume of methanol loaded into railcars and tank trucks as recorded per 40 CFR 63.130(f)(1) of Subpart G, the saturation factor from Table 5.2-1 applicable to the specific type of loading performed, the average daily temperature of the methanol stored in the methanol product tanks during the calendar month in which the loading occurs, and the control efficiency of the vapor combustion unit determined in accordance with 40 CFR 63.128(a) of Subpart G.
391 [LAC 33:III.507.H.1.a]	accordance with 40 CFR 63.128(a) of Subpart G. Compliance demonstration method for TK-26-202A, TK-26-202B, TK-26-202C, and TK-26-202D: VOC emissions, including those attributed to roof landings, shall be calculated monthly using the equations set forth in AP-42 Section 7.1 (Organic Liquid Storage Tanks); the design parameters of the storage tanks, as constructed (e.g., tank dimensions, paint characteristics, rim-seal system, deck type, deck fittings, etc.); the actual throughput of methanol; and the average daily temperature of the methanol stored during the calendar month. Emissions from tank cleanings shall be calculated using API Technical Document 2568 (Evaporative Loss from the Cleaning of Storage Tanks).
392 [LAC 33:III.507.H.1.a]	Compliance demonstration method for combustion emissions of VOC, CO, NOx, PM10 and PM2.5 from the vapor combustion unit: VOC (from pilot and enrichment gas), PM10 and PM2.5 shall be calculated using AP-42 Section 1.4-2, July 1998; CO shall be calculated using AP-42 Section 1.4-1, July 1998; and NOx shall be calculated using the vendor provided guarantee of 0.25 lb/MMBTU. Heating values shall be based on process knowledge for the full combustion stream.
393 [LAC 33:III.507.H.1.a]	For each loading operation, install a pressure/vacuum gauge on the suction side of the blower system(s) to verify a vacuum in the vessel being loaded. Continuously monitor the pressure/vacuum during loading activities and record the average pressure/vacuum on a rolling 15 minute basis. Loading must be discontinued if positive pressure is indicated, based on a 15-minute rolling average.
394 [LAC 33:III.507.H.1.a]	Monthly emissions shall be summed, and the resultant annual (or 12-month rolling) total shall be compared to the applicable ton per year limit to verify compliance. Where performance test(s) are required, actual emissions shall be based on the results of the most recent test(s). In all cases, alternate methods for calculating actual emissions may be approved by the Office of Environmental Services.
395 [LAC 33:III.507.H.1.a]	Record VOC/methanol emissions each month and total VOC/methanol emissions for the preceding twelve months. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
RLP 0024 PCSVENT - Process	Condensate Stripper Vent
396 [LAC 33:III.507.H.1.a]	Compliance demonstration for CO: Emissions shall be calculated by multiplying the number of hours the process condensate stream was vented to atmosphere by 31.5 lb CO/hr.
397 [LAC 33:III.509]	BACT for CO emissions is determined to be no further controls.
RLP 0025 CTVENT - Condensa	ite Trap Vents
398 [LAC 33:III.507.H.1.a]	Compliance demonstration for CO: Emissions shall be calculated by multiplying the number of hours of process condensate stripper

399 [LAC 33:III.509]operation by 0.0127 lb CO/hr.BACT for CO emissions is determined to be no further controls.

# <u>UNF 0001</u> - Koch Methanol Facility

400 [40 CFR 60.] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

## UNF 0001 - Koch Methanol Facility

401 [40 CFR 63.105(b)]	Prepare a description of maintenance procedures for management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair (i.e., a maintenance-turnaround) and during periods which are not shutdowns (i.e., routine maintenance). The descriptions shall:
	<ol> <li>(1) Specify the process equipment or maintenance tasks that are anticipated to create wastewater during maintenance activities;</li> <li>(2) Specify the procedures that will be followed to properly manage the wastewater and control organic HAP emissions to the atmosphere; and</li> </ol>
	(3) Specify the procedures to be followed when clearing materials from process equipment. [40 CFR 63.105(b)]
402 [40 CFR 63.105(c)]	Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. [40 CFR 63.105(c)]
403 [40 CFR 63.105(d)]	Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the startup, shutdown, and malfunction plan required under 40 CFR 63.6(e)(3). [40 CFR 63.105(d)]
404 [40 CFR 63.105(e)]	Maintain a record of the information required by 40 CFR 63.105(b) and (c) as part of the start-up, shutdown, and malfunction plan required under 40 CFR 63.6(e)(3). [40 CFR 63.105(e)]
405 [40 CFR 63.151(a)]	Submit a Notification of Compliance Status described in 40 CFR 63.152, periodic reports described in 40 CFR 63.152; and other reports described in 40 CFR 63.152. [40 CFR 63.151(a)]
406 [40 CFR 63.152(a)]	Submit the following reports and keep continuous records of monitored parameters as specified in 40 CFR 63.152(f) (1) A Notification of Compliance Status described in 40 CFR 63.152(b). (2) Periodic reports described in 40 CFR 63.152(c).
	(3) Other reports described in 40 CFR 63.152(d). [40 CFR 63.152(a)]
407 [40 CFR 63.152(b)]	Submit a Notification of Compliance Status within 150 calendar days after the compliance dates specified in 40 CFR 63.100.
	(1) The notification shall include the results of any emission point group determinations, performance tests, inspections, continuous monitoring system performance evaluations, values of monitored parameters established during performance tests, and any other information used to demonstrate compliance or required to be included in the Notification of Compliance Status under 40 CFR 63.122 for
	storage vessels. For performance tests and group determinations that are based on measurements, the Notification of Compliance Status shall include one complete test report for each test method used for a particular kind of emission point. A complete test report shall include
	a brief process description, sampling site description, description of sampling and analysis procedures and any modifications to standard procedures, quality assurance procedures, record of operating conditions during the test, record of preparation of standards, record of calibrations, raw data sheets for field sampling, raw data sheets for field and laboratory analyses, documentation of calculations, and any
	other information required by the test method.
	(2) For each monitored parameter for which a range is required to be established under 40 CFR 63.152(e), the Notification of Compliance Status shall include the information in 40 CFR 63.152(b)(2)(i)-(iii). [40 CFR 63.152(b)]
408 [40 CFR 63.152(c)(1)]	Except as specified under 40 CFR 63.152(c)(6), a report containing the information in 40 CFR 63.152(c)(2), (3), and (4) shall be submitted
	semiannually no later than 60 calendar days after the end of each 6-month period. The first report shall be submitted no later than 8 months
	after the date the Notification of Compliance Status is due and shall cover the 6-month period beginning on the date the Notification of
	Compliance Status is due. [40 CFR 63.152(c)(1)]

## UNF 0001 - Koch Methanol Facility

409 [40 CFR 63.152(c)(2)(ii)(A)-	Excursions:
(E)]	(1) An excursion means any of the three cases listed in 40 CFR 63.152(c)(2)(ii)(A)(1), (c)(2)(ii)(A)(2), or (c)(2)(ii)(A)(3). For a control
	device or recovery device where multiple parameters are monitored, if one or more of the parameters meets the excursion criteria in 40
	CFR 63.152(c)(2)(ii)(A)(1), (c)(2)(ii)(A)(2), or (c)(2)(ii)(A)(3), this is considered a single excursion for the control device or recovery
	device. Monitoring data are insufficient to constitute a valid hour of data, as used in 40 CFR 63.152(c)(2)(ii)(A)(2) and (3), if measured
	values are unavailable for any of the 15-minute periods within the hour.
	(2) The number of excused excursions for each control device or recovery device for each semiannual period is specified in 40 CFR 63.152
	(c)(2)(ii)(B)(1)-(6). This provision applies to sources required to submit periodic reports semiannually or quarterly. The first semiannual
	period is the 6-month period starting the date the Notification of Compliance Status is due.
	(3) A monitored parameter that is outside its established range or monitoring data that are not collected are excursions. However, if the
	conditions in 40 CFR 63.152(c)(2)(ii)(C)(1) or (2) are met, these excursions are not violations and do not count toward the number of
	excused excursions for determining compliance.
	(4) Nothing in 40 CFR 63.152(c)(2)(ii) shall be construed to allow or excuse a monitoring parameter excursion caused by any activity that
	violates other applicable provisions of 40 CFR 63 Subpart A, F, or G.
	(5) 40 CFR 63.152(c)(2)(ii), except 40 CFR 63.152(c)(2)(ii)(C), shall apply only to emission points and control devices or recovery devices
	for which continuous monitoring is required. [40 CFR 63.152(c)(2)(ii)(A)-(E)]
410 [40 CFR 63.152(c)(2)]	Periodic reports shall include all information specified in 40 CFR 63.122 for storage vessels, including reports of periods when monitored
	parameters are outside their established ranges.
	(1) For each parameter or parameters required to be monitored for a control device, establish a range of parameter values to ensure that the
	device is being applied, operated, and maintained properly. As specified in 40 CFR 63.152(b)(2), these parameter values and the definition
	of an operating day shall be approved as part of and incorporated into the source's Notification of Compliance Status or operating permit,
	as appropriate. (2) The parameter monitoring data for Group 1 emission points that are required to perform continuous monitoring shall be used to
	determine compliance with the required operating conditions for the monitored control devices or recovery devices. For each excursion,
	except for excused excursions, the owner or operator shall be deemed to have failed to have applied the control in a manner that achieves
	the required operating conditions.
	(3) Periodic reports shall include the daily average values of monitored parameters for both excused and unexcused excursions, as defined
	in 40 CFR 63.152(c)(2)(ii)(A). For excursions caused by lack of monitoring data, the duration of periods when monitoring data were not
	collected shall be specified.
	(4) The provisions of 40 CFR 63.152(c)(2), (c)(2)(i), (c)(2)(ii), and (c)(2)(iii) do not apply to any storage vessel for which the owner or
	operator is not required, by the applicable monitoring plan established under 40 CFR 63.120(d)(2), to keep continuous records. If
	continuous records are required, the owner or operator shall specify in the monitoring plan whether the provisions of 40 CFR 63.152(c)(2),
	(c)(2)(i), (c)(2)(ii), and (c)(2)(iii) apply. [40 CFR 63.152(c)(2)]
411 [40 CFR 63.152(c)(3)]	If any performance tests are reported in a periodic report, one complete test report shall be submitted for each test method used for a
	particular kind of emission point tested. A complete test report shall contain the information specified in 40 CFR 63.152(b)(1)(ii). [40
	CFR 63.152(c)(3)]
412 [40 CFR 63.152(c)(4)]	Periodic reports shall include notification if any Group 2 emission point becomes a Group 1 emission point, including a compliance
	schedule as required in 40 CFR 63.100. [40 CFR 63.152(c)(4)]
413 [40 CFR 63.152(c)(6)]	Submit reports quarterly for particular emission points not included in an emissions average under the circumstances described in 40 CFR
	63.152(c)(6)(i)-(v). [40 CFR 63.152(c)(6)]

#### <u>UNF 0001</u> - Koch Methanol Facility

414 [40 CFR 63.152(d)(1)]	Submit reports of start-up, shutdown, and malfunction required by 40 CFR 63.10(d)(5). The start-up, shutdown and malfunction reports may be submitted on the same schedule as the periodic reports required under 40 CFR 63.152(c) instead of the schedule specified in 40 CFR 63.10(d)(5). [40 CFR 63.152(d)(1)]
415 [40 CFR 63.152(f)]	Owners or operators required to keep continuous records shall keep records as specified in 40 CFR 63.152(f)(1)-(7), unless an alternative recordkeeping system has been requested and approved under 40 CFR 63.151(f), 40 CFR 63.152(e), or 40 CFR 63.8(f), and except as provided in 40 CFR 63.152(c)(2)(ii)(C) or in 40 CFR 63.152(g). If a monitoring plan for storage vessels pursuant to 40 CFR 63.120(d)(2) (i) requires continuous records, the monitoring plan shall specify which provisions, if any, of 40 CFR 63.152(f)(1)-(7) apply. [40 CFR 63.152(f)]
416 [40 CFR 63.152(g)]	For any parameter with respect to any item of equipment, the owner or operator may implement the recordkeeping requirements in 40 CFR 63.152(g)(1) or (2) as alternatives to the continuous operating parameter monitoring and recordkeeping provisions listed in 40 CFR 63.152 (f), except that 40 CFR 63.152(f)(7) shall apply. The owner or operator shall retain each record required by 40 CFR 63.152(g)(1) or (2) as provided in 40 CFR 63.103(c), except as provided otherwise in 40 CFR 63.152(g)(1) or (2). [40 CFR 63.152(g)]
417 [40 CFR 63.]	Comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Subparts F, G, H, ZZZZ, and DDDDD.
418 [40 CFR 82.Subpart F]	Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
419 [LAC 33:III.1103]	Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33: III.111 or intensifies an existing traffic hazard condition are prohibited.
420 [LAC 33:III.1303.B]	Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
421 [LAC 33:III.2113.A]	Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping includes, but is not limited to, the practices listed in LAC 33:III.2113.A.1 through A.5.
422 [LAC 33:III.219]	Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
423 [LAC 33:III.501.C.6]	All TPY (Tons/Year) emissions limitations shall be limited per each 12-consecutive month period.
424 [LAC 33:III.501.C.6]	Carbon Capture and Sequestration (CCS) Reevaluation for GHG: Evaluate opportunities for Carbon Capture and Sequestration (CCS) for control of GHG emissions from the SMR and Auxiliary Boiler. Submit a written report to LDEQ within 5 years of the date of issuance of Permit No. 2560-00295-V6. The report shall include, at a minimum, an evaluation of CCS control technologies for the SMR and Auxiliary Boiler, including an evaluation of the feasibility of, including cost associated with, CCS implementation, including capture, transportation, and storage (state-only).
425 [LAC 33:III.501.C.6]	Fenceline Monitoring: Within 90 days of the issuance of Permit No. 2560-00295-V6, the permittee shall submit to LDEQ a fenceline monitoring plan for the KMe Facility. The plan, at a minimum, shall describe the number, type, and location of the monitors along the fenceline, property boundary, or other facility perimeter; the sampling frequency; the target analyte, which shall be VOC and/or methanol; how monitoring data will be retained and records that will be kept; the monitored levels that will trigger action; and the actions that will be performed when an action level is reached. The fenceline monitoring system shall commence collecting data prior to the introduction of ethane gas from the facility's ethane gas feed line into the SMR. A notification shall be made to the Administrator within 30 days of implementation of the fenceline monitoring system.
	In the event fenceline monitoring becomes required by any applicable requirement, the permittee may comply with such applicable

In the event fenceline monitoring becomes required by any applicable requirement, the permittee may comply with such applicable regulation in lieu of this Specific Requirement.

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#### UNF 0001 - Koch Methanol Facility

426 [LAC 33:III.501]	CO2e emissions <= 1,401,096 tons/yr. Tons/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 427 of this Title V permit.
427 [LAC 33:III.509]	BACT for CO2e emissions is a two-tier, facility-wide 12-month rolling average GHG intensity limit calculated based on the following: 0.56 MT CO2e/MT MeOH at daily methanol (MeOH) production rates above 5100 MT MeOH, and 0.68 MT CO2e/MT MeOH at daily MeOH production rates at or below 5100 MT MeOH.
	Compliance demonstration method: Compliance with the two-tier, facility-wide 12-month rolling average GHG intensity limit shall be determined per prescribed methods and recordkeeping noted in 40 CFR Part 98. By the end of each month following each 12-month rolling average period, determine the applicable daily tier values and the 12-month rolling average of the applicable daily tier values and compare to the actual site-wide GHG intensity during the corresponding 12-month timeframe. Calculate the site-wide GHG intensity as the total CO2e emissions divided by the total MeOH production during the relevant 12-month timeframe. In the event that any global warming potentials listed in Table A-1 to Subpart A of 40 CFR 98 are revised, the CO2e/MT MeOH daily tier values shall be revised accordingly without the need to revise this permit.
428 [LAC 33:III.509]	Comply with the requirements of PSD-LA-851. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-851.
429 [LAC 33:III.5105.A.2]	Do not cause a violation of any ambient air standard listed in LAC 33:III.5112, Table 51.2, unless operating in accordance with LAC 33: III.5109.B.
430 [LAC 33:III.5105.A.3]	Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
431 [LAC 33:III.5105.A.4]	Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
432 [LAC 33:III.5107.A.2]	Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature, and phone number of the responsible official.
433 [LAC 33:III.5107.A]	Submit Annual Emissions Report: Due annually, by the 30th of April unless otherwise directed by DEQ, to the Office of Environmental Services in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
434 [LAC 33:III.5107.B.1]	Submit notification: For any discharge of ammonia into the atmosphere that results or threatens to result in an emergency condition as defined in LAC 33:I.3905.A, notify the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline in accordance with LAC 33:I.3915.A.
435 [LAC 33:III.5107.B.2]	accordance with LAC 33:1.3913.A. Submit notification: Except as provided in LAC 33:III.5107.B.4, for any unauthorized discharge of ammonia into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by this permit, or for upset events that exceed the reportable quantity in LAC 33:I.3931, immediately, but in no case later than 24 hours, provide prompt notification to SPOC in the manner provided in LAC 33:I.3923.
436 [LAC 33:III.5107.B.3]	Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 and 2. Include the information specified in LAC 33:III.5107.B.3.a.i - viii.

## UNF 0001 - Koch Methanol Facility

437 [LAC 33:III.5109.C.2]	Ammonia only: Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.
438 [LAC 33:III.535]	Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]
439 [LAC 33:III.5609.A.1.b]	Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when DEQ declares an Air Pollution Alert.
440 [LAC 33:III.5609.A.2.b]	Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when DEQ declares an Air Pollution Warning.
441 [LAC 33:III.5609.A.3.b]	Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when DEQ declares an Air Pollution Emergency.
442 [LAC 33:III.5609.A]	Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution
	Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7.
443 [LAC 33:III.5901.A]	Comply with the provisions of 40 CFR 68 as incorporated in LAC 33:III.Chapter 59. Modifications or exceptions provided in LAC 33:III. 5901.C shall not relieve the permittee from the obligation to comply timely with any otherwise applicable condition of 40 CFR 68.
444 [LAC 33:III.5907]	Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
445 [LAC 33:III.919]	Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 30th of April to the Office of Environmental Services, for the reporting period of the previous calendar year that coincides with period of ownership or operatorship, unless otherwise directed by DEQ. Submit both an emissions inventory and the certification statement required by LAC 33:III.919.F.1.c, separately for each AI, in a format specified by DEQ. Include the information specified in LAC 33:III.919.F.1.a through F.1.d.