

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

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 <= 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 over the test 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 six-minute 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 III. [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)]

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CRG 0002 - Firewater Pump Engines

Group Members: EQT 0005 EQT 0006 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)] 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.
(1) There is no time limit on the use of emergency stationary ICE in emergency situations.
(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.
(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)]
- 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 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)]

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

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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)]

(1) Submit an Initial Notification as required by 40 CFR 63.151(b).

(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).

(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)]

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- 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)] 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).
(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.
(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 inspections according to the procedures in 40 CFR 63.148(c); and conduct annual visual inspections for visible, audible, or olfactory indications of leaks.
(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)]
- 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)]

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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 valve 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 valve 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 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.
- 27 [LAC 33:III.2103.E] ** 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 consist of a gathering system capable of collecting the volatile organic compound (VOC) vapors and a 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.
- 28 [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. 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 **.

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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.

CRG 0006 - 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, 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)]

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- 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)(iii), 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)]

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CRG 0006 - Methanol Product Tanks - Terminal

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- 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.
** PERMIT SHIELD: Compliance with the provisions of 40 CFR 63 Subpart G shall constitute compliance with LAC 33:III.2103 **.
- 57 [LAC 33:III.2103.I] Maintain records to verify compliance with LAC 33:III.2103.
** 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 III. [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 III.
- 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 III. [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 III. [40 CFR 60.4209(a)]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

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 III. [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 III. [40 CFR 60.4211(a)(2)]
- 69 [40 CFR 60.4211(a)(3)] Meet the requirements of 40 CFR 1068, as applicable, except as permitted in 40 CFR 60.4211(g). Subpart III. [40 CFR 60.4211(a)(3)]
- 70 [40 CFR 60.4211(c)] 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 III. [40 CFR 60.4211(c)]
- 71 [40 CFR 60.4211(f)(1)] There is no time limit on the use of emergency stationary ICE in emergency situations. Subpart III. [40 CFR 60.4211(f)(1)]
- 72 [40 CFR 60.4211(f)(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. Subpart III. [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 III. [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 III, 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 III and must meet all requirements for non-emergency engines. Subpart III. [40 CFR 60.4211(f)]
- 75 [40 CFR 60.4211(g)(3)] Keep a maintenance plan and records of conducted maintenance. Subpart III. [40 CFR 60.4211(g)(3)]
- 76 [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 III. [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 III. [40 CFR 60.4211(g)]
- 78 [40 CFR 60.4212] Conduct performance tests according to 40 CFR 60.4212(a) through (e). Subpart III.
- 79 [40 CFR 60.4214(b)] 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 III. [40 CFR 60.4214(b)]

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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 NO_x, CO, PM₁₀, PM_{2.5}, and VOC: Emissions for NO_x, CO, PM₁₀, and PM_{2.5} 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, PM_{2.5}, CO, NO_x, 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)]

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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)(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)]
- 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)]

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- 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 \geq 98 % reduction by weight, or \leq 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 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)]
- 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 NO_x 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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- 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 ≤ 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 NO_x ≤ 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] NO_x 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.
** Note: During SCR bypass, emissions will continue to vent through the stack equipped with the NO_x CEMS. **
- 129 [LAC 33:III.507.H.1.a] Compliance demonstration method for VOC, PM₁₀, and PM_{2.5}: Emissions shall be calculated monthly based on the actual operating rates of the SMR during the calendar month and the emission factor derived from the performance test.
- 130 [LAC 33:III.507.H.1.a] Compliance demonstration method of NO_x and CO: NO_x emissions shall be calculated monthly based on the lb NO_x/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.

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- 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).
- 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 achievable load. 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 every 5 years (plus or minus 6 calendar months). With respect to identical units, the permittee may request that the department approve the testing of only a representative subset rather than each unit. Any such request shall be submitted no later than 90 days before the deadline to conduct the performance test.
- 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.

EQT 0002 BLR - Auxiliary Boiler

- 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)] Compliance shall be determined on a 30-day rolling average basis. [40 CFR 60.44b(i)]
- 140 [40 CFR 60.44b(l)] 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 required to be completed under 40 CFR 60.8, whichever date is first. [40 CFR 60.44b(l)]

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

EQT 0002 BLR - Auxiliary Boiler

- 141 [40 CFR 60.46b(e)(3)] 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 NO_x 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 all of the hourly NO_x emission data for the preceding 30 steam generating unit operating days. [40 CFR 60.46b(e)(3)]
- 142 [40 CFR 60.48b(b)(1),(c-d)] Install, calibrate, maintain, and operate CEMS for measuring NO_x 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 NO_x 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 NO_x 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 NO_x 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(o)] 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 NO_x 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)]

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

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EQT 0002 BLR - Auxiliary Boiler

- 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(l)]
- 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 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 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
Which Months: All Year 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)]

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

EQT 0002 BLR - Auxiliary Boiler

- 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 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)]

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

EQT 0002 BLR - Auxiliary Boiler

- 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 NO_x ≤ 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] NO_x 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 NO_x 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 NO_x: NO_x emissions shall be calculated monthly based on the lb NO_x/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 PM_{2.5}: VOC emissions shall be calculated monthly based on the actual operating rates of the Auxiliary Boiler during the calendar month and the emission factors corresponding to each operating range. Alternatively, the permittee may base emissions on the highest emission factor derived from the performance test results. PM₁₀ and PM_{2.5} 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.
- 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] Submit performance test results to the Office of Environmental Assessment within 60 days after completion of the test.
- 194 [LAC 33:III.509] 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), NO_x emissions to 0.01 lb/MMBtu (12 month rolling average), and VOC emissions to 0.0016 lb/MMBtu (3 hour average).

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

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Air - Title V Significant Modification

EQT 0002 BLR - Auxiliary Boiler

195 [LAC 33:III.509]

Demonstrate compliance with the emission limitations PM_{2.5}, 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 PM_{2.5} and PM₁₀ within 80 percent of the maximum permitted load or within 10 percent of the maximum achievable load available during the performance test. 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 PM_{2.5} 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 every 5 years (plus or minus 6 calendar months). With respect to identical units, the permittee may request that the department approve the testing of only a representative subset rather than each unit. Any such request shall be submitted no later than 90 days before the deadline to conduct the performance test.

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, Appendix F. (c) Data availability shall be stipulated by Part 70 General Condition V of LAC 33:III.535.A.

197 [LAC 33:III.509]

Monitor and record NO_x 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. NO_x: 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 NO_x CEMS is required, the permittee shall also determine the NO₂/NO_x 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.

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(e), 40 CFR 60.18(f)]

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

EQT 0003 FLR - Flare

199 [40 CFR 60.18(d)]

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.

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)]

200 [40 CFR 60.662(b)]

Combust the emissions in a flare that meets the requirements of 40 CFR 60.18. Subpart NNN. [40 CFR 60.662(b)]

201 [40 CFR 60.663(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.

** 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)]

202 [40 CFR 60.664(d)]

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)]

203 [40 CFR 60.665(b)(3)]

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) **.

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.

204 [40 CFR 60.665(d)]

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 60.665(b)(3), 40 CFR 60.665(d), 40 CFR 60.665(f)]

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(l)]

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(l)(2) shall be submitted in lieu of that required by 40 CFR 60.665(l)(2). [40 CFR 60.665(l)]

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)]

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

EQT 0003 FLR - Flare

- 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.

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)]
- 212 [40 CFR 60.705(l)] 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)]

SPECIFIC REQUIREMENTS

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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 V_{max} , 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 than 37.2 m/sec (122 ft/sec) and less than the velocity V_{max} . [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)(ii). [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 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)]

218 [40 CFR 63.113(a)(1)]

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 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(h), 40 CFR 63.116(a)]

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

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.

For any bypass line between the origin of 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.

(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

(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)]

220 [40 CFR 63.117(a)(5)]

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.

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 checked out, and records of any car-seal that has broken. [40 CFR 63.117(a)(5), 40 CFR 63.118(a)]

221 [LAC 33:III.1105]

Burning in connection with pressure valve releases for control over process upsets: Opacity \leq 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 \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: 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.

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

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Air - Title V Significant Modification

EQT 0003 FLR - Flare

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.

Except for monitoring malfunctions, associated repairs, and required quality assurance and quality control activities (including calibration checks and any required adjustments), the permittee shall monitor and record the volume of vent gas routed to the flare at all times that it is operating. Data availability shall be dictated by Part 70 General Condition V of LAC 33:III.535.A.

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

Compliance demonstration method:

Vent gas: The permittee shall continuously monitor and record the volume of vent gas routed to the flare. NO_x emissions shall be calculated monthly using an emission factor of 0.068 lb/MM Btu (AP-42 Section 13.5, Table 13.5-1). CO emissions shall be calculated monthly using an emission factor of 0.31 lb/MM Btu (AP-42 Section 13.5, Table 13.5-2). PM₁₀/PM_{2.5} emissions shall be calculated monthly using an emission factor of 0.12 lb/MM scf. In each case, the emissions shall be calculated utilizing the heating value specified in AP-42 for each specific emission factor. The heat of combustion of each process stream shall be determined using ASTM D4809-95 if published values are not available or cannot be calculated. VOC emissions shall be calculated monthly based on a control efficiency of 98% for the VOCs routed to the flare.

Flare pilot: The permittee shall record the amount of natural gas combusted by the flare pilot each day. NO_x 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/PM_{2.5} 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, NO_x, CO, or VOC is published by EPA in AP-42 Section 1.4 or, for NO_x 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, NO_x, 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.

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

Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and any required adjustments), the permittee shall monitor and record the volume of vent gas routed to the flare at all times that it is operating. Data availability shall be dictated by Part 70 General Condition V of LAC 33:III.535.A.

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

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

229 [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 Emergency Generator

230 [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)]

231 [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)]

232 [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.

233 [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)]

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

EQT 0004 EGEN - Plant Emergency Generator

- 234 [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)]
- 235 [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)]
- 236 [40 CFR 60.4211(f)] 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.
- (1) There is no time limit on the use of emergency stationary ICE in emergency situations.
- (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.
- (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)]
- 237 [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)]
- 238 [40 CFR 60.4212] Conduct performance tests according to 40 CFR 60.4212(a)-(e).
- 239 [40 CFR 60.4218] Comply with the General Provisions in 40 CFR 60.1 - 60.19 per Table 8 to Subpart IIII.
- 240 [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)]
- 241 [LAC 33:III.507.H.1.a] Compliance demonstration for NO_x, CO, PM₁₀, PM_{2.5}, and VOC: Emission for NO_x, CO, PM₁₀, and PM_{2.5} 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.
- 242 [LAC 33:III.509] BACT for PM₁₀, PM_{2.5}, CO, NO_x, and VOC is compliance with 40 CFR 60 Subpart IIII.

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

EQT 0005 FWP-01 - Firewater Pump Engine No. 1

- 243 [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)]
- 244 [LAC 33:III.507.H.1.a] Compliance demonstration for NO_x, CO, PM₁₀, PM_{2.5}, and VOC: Emissions of NO_x, CO, PM₁₀, and PM_{2.5} 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, 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.
- 245 [LAC 33:III.509] BACT for PM₁₀, PM_{2.5}, CO, NO_x, and VOC is determined to be compliance with 40 CFR 60 Subpart IIII.

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

- 246 [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)]
- 247 [LAC 33:III.507.H.1.a] Compliance demonstration for NO_x, CO, PM₁₀, PM_{2.5}, and VOC: Emissions of NO_x, CO, PM₁₀, and PM_{2.5} 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, 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.
- 248 [LAC 33:III.509] BACT for PM₁₀, PM_{2.5}, CO, NO_x, and VOC is determined to be compliance with 40 CFR 60 Subpart IIII.

EQT 0007 CWT - Cooling Water Tower

- 249 [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)]
- 250 [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)]
- 251 [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)]
- 252 [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)]

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

EQT 0007 CWT - Cooling Water Tower

- 253 [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)]
- 254 [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.
- 255 [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.
- 256 [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).
- 257 [LAC 33:III.509] BACT for PM10/PM2.5 is determined to be high efficiency drift eliminators that limit drift to 0.0005%.
- 258 [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

- 259 [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 Vessel

- 260 [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.
- 261 [LAC 33:III.507.H.1.a] The permittee shall monitor and record the throughput of the tank during each calendar month.
- 262 [LAC 33:III.509] 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 - Firewater Pump Engine No. 3

- 263 [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)]
- 264 [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.
- 265 [LAC 33:III.509] BACT for PM10, PM2.5, CO, NOx, and VOC is determined to be compliance with 40 CFR 60 Subpart IIII.

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

EQT 0026 EGEN2 - Admin Building Emergency Generator

- 266 [40 CFR 60.4233(e)] (Excluding formaldehyde) VOC, Total \leq 1.0 g/BHP-hr (0.0022 lb/HP-hr; 86 ppm_{dv} at 15% O₂). Subpart JJJJ. [40 CFR 60.4233(e)]
Which Months: All Year Statistical Basis: None specified
- 267 [40 CFR 60.4233(e)] Carbon monoxide \leq 4.0 g/BHP-hr (0.0088 lb/HP-hr; 540 ppm_{dv} at 15% O₂). Subpart JJJJ. [40 CFR 60.4233(e)]
Which Months: All Year Statistical Basis: None specified
- 268 [40 CFR 60.4233(e)] Nitrogen oxides \leq 2.0 g/BHP-hr (0.0044 lb/HP-hr; 160 ppm_{dv} at 15% O₂). Subpart JJJJ. [40 CFR 60.4233(e)]
Which Months: All Year Statistical Basis: None specified
- 269 [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.
- 270 [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
- 271 [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)]
- 272 [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)]
- 273 [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. Subpart JJJJ. [40 CFR 60.4243(d)(2)(i)]
- 274 [40 CFR 60.4243(d)(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 60.4243(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)(i). Subpart JJJJ. [40 CFR 60.4243(d)(3)]
- 275 [40 CFR 60.4243(d)] 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)(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)]
- 276 [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)]
- 277 [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)]
- 278 [40 CFR 60.4244] Conduct performance tests by following the procedures in 40 CFR 60.4244(a) through (g). Subpart JJJJ.
- 279 [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) through (a)(4). Subpart JJJJ. [40 CFR 60.4245(a)]

SPECIFIC REQUIREMENTS

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Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

EQT 0026 EGEN2 - Admin Building Emergency Generator

- 280 [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)]
- 281 [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)]
- 282 [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)]
- 283 [LAC 33:III.1311.C] 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. (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: Six-minute average
- 284 [LAC 33:III.507.H.1.a] Compliance Demonstration Method: Compliance demonstration for NO_x, CO, and VOC: Emissions for NO_x, 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 PM_{2.5} 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.
- 285 [LAC 33:III.509] BACT for PM₁₀, PM_{2.5}, CO, NO_x, and VOC is determined to be compliance with 40 CFR 60 Subpart JJJJ.

EQT 0027 GASTANK - Gasoline Storage Tank

- 286 [LAC 33:III.2103.A] Equip with a submerged fill pipe.
- 287 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 288 [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.
- 289 [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.
- 290 [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

- 291 [40 CFR 63.126(a)] Equip with a vapor collection system and control device. Subpart G. [40 CFR 63.126(a)]
- 292 [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 Months: All Year Statistical Basis: None specified
- 293 [40 CFR 63.126(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 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)]
- 294 [40 CFR 63.126(f)] 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)]

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

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Air - Title V Significant Modification

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

- 295 [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)]
- 296 [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)]
- 297 [40 CFR 63.126(i)] Each valve 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)]
- 298 [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)]
- 299 [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)]
- 300 [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)]
- 301 [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)]
- 302 [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)]
- 303 [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)]
- 304 [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)]
- 305 [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)]
- 306 [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 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)]
- 307 [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)]
- 308 [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)]
- 309 [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)]
- 310 [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)]

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

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

- 311 [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)]
- 312 [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)]
- 313 [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
- 314 [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
- 315 [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 **.
- 316 [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 **.
- 317 [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 **.
- 318 [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 **.
- 319 [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.

SPECIFIC REQUIREMENTS

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

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Air - Title V Significant Modification

FUG 0001 FUG - Fugitive Emissions - KMe Facility

- 320 [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)]
- 321 [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)]
- 322 [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)]
- 323 [40 CFR 60.485a(f)] Samples used in conjunction with 40 CFR 60.485a(d) and (e) shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare. [40 CFR 60.485a(f)]
- 324 [40 CFR 60.486a(i)] Record the information described in 40 CFR 60.486(i)(1)-(3) in a log that is kept in a readily accessible location for use in determining exemptions as provided in 40 CFR 60.480a(d). [40 CFR 60.486a(i)]
- 325 [40 CFR 60.486a(j)] Record information and data used to demonstrate that a piece of equipment is not in VOC service in a log that is kept in a readily accessible location. [40 CFR 60.486a(j)]
- 326 [40 CFR 63.148(d)] Leaks, as indicated by an instrument reading greater than 500 parts per million above background or by visual inspections, shall be repaired as soon as practicable, except as provided in 40 CFR 63.148(e).
(1) A first attempt at repair shall be made no later than 5 calendar days after the leak is detected.
(2) Repair shall be completed no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). [40 CFR 63.148(d)]
- 327 [40 CFR 63.148(e)] Delay of repair of a vapor collection system, closed vent system, fixed roof, cover, or enclosure for which leaks have been detected is allowed if the repair is technically infeasible without a shutdown, as defined in 40 CFR 63.101, or if the owner or operator determines that emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair of such equipment shall be complete by the end of the next shutdown. [40 CFR 63.148(e)]
- 328 [40 CFR 63.148(g)] Any parts of the vapor collection system, closed vent system, fixed roof, cover, or enclosure that are designated, as described in 40 CFR 63.148(i)(1), as unsafe to inspect are exempt from the inspection requirements of 40 CFR 63.148(b)(1), (b)(2), and (b)(3)(i) if:
(1) The owner or operator determines that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with 40 CFR 63.148(b)(1), (b)(2), or (b)(3)(i); and
(2) The owner or operator has a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times. [40 CFR 63.148(g)]
- 329 [40 CFR 63.148(h)] Any parts of the vapor collection system, closed vent system, fixed roof, cover, or enclosure that are designated, as described in 40 CFR 63.148(i)(2), as difficult to inspect are exempt from the inspection requirements of 40 CFR 63.148(b)(1), (b)(2), and (b)(3)(i) if:
(1) The owner or operator determines that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface; and
(2) The owner or operator has a written plan that requires inspection of the equipment at least once every 5 years. [40 CFR 63.148(h)]

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

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FUG 0001 FUG - Fugitive Emissions - KMe Facility

- 330 [40 CFR 63.148(i)] Record the information specified in 40 CFR 63.148(i)(1)-(5).
(1) Identification of all parts of the vapor collection system, closed vent system, fixed roof, cover, or enclosure that are designated as unsafe to inspect, an explanation of why the equipment is unsafe to inspect, and the plan for inspecting the equipment.
(2) Identification of all parts of the vapor collection system, closed vent system, fixed roof, cover, or enclosure that are designated as difficult to inspect, an explanation of why the equipment is difficult to inspect, and the plan for inspecting the equipment.
(3) 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, keep a record of the information specified in either 40 CFR 63.148(i)(3)(i) or (ii).
(4) For each inspection during which a leak is detected, a record of the information specified in 40 CFR 63.148(i)(4)(i)-(viii).
(5) For each inspection conducted in accordance with 40 CFR 63.148(c) during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.
(6) For each visual inspection conducted in accordance with 40 CFR 63.148(b)(1)(ii) or (b)(3)(ii) during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected. [40 CFR 63.148(i)]
- 331 [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)]
- 332 [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 63.162(c)]
- 333 [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 63.168 and 63.169, and 40 CFR 63.172 through 63.174. [40 CFR 63.162(f)]
- 334 [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).
- 335 [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.
- 336 [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).
- 337 [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 63.166(b)(1)-(4), as applicable.

SPECIFIC REQUIREMENTS

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

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Air - Title V Significant Modification

FUG 0001 FUG - Fugitive Emissions - KMe Facility

- 338 [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) 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.
- 339 [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.
- 340 [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, it shall be repaired as described in 40 CFR 63.169(c) and (d).
- 341 [40 CFR 63.170] 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.
- 342 [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)]
- 343 [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)]
- 344 [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)]
- 345 [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)]
- 346 [40 CFR 63.172] Comply with the provisions of 40 CFR 63.172 for closed-vent systems and control devices used to comply with provisions of Subpart H.

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

FUG 0001 FUG - Fugitive Emissions - KMe Facility

- 347 [40 CFR 63.173] 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.
- 348 [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.
- 349 [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)]
- 350 [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)]
- 351 [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)]
- 352 [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)]
- 353 [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).
- 354 [40 CFR 63.180(a)] Comply with the test methods and procedures requirements provided in 40 CFR 63.180. [40 CFR 63.180(a)]
- 355 [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)]

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

FUG 0001 FUG - Fugitive Emissions - KMe Facility

- 356 [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)]
- 357 [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)]
- 358 [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)]
- 359 [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)]
- 360 [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)]
- 361 [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)]
- 362 [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)]
- 363 [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)]
- 364 [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)]
- 365 [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)]
- 366 [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)]

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

FUG 0001 FUG - Fugitive Emissions - KMe Facility

- 367 [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)]
- 368 [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)]
- 369 [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)]
- 370 [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.
- 371 [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:
- 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;
 - 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;
 - actual emissions following the changes will not exceed the emission limits contained in this permit; and
 - the components are promptly incorporated into any applicable leak detection and repair program.
- 372 [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 SOCM I 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.
- 373 [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 SOCM I 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.
- 374 [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.
- 375 [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.

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

FUG 0001 FUG - Fugitive Emissions - KMe Facility

376 [LAC 33:III.509] BACT for fugitive CO_{2e} 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

377 [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)]

378 [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)]

379 [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)]

380 [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)]

381 [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.

382 [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.

383 [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 Vent CAP - SMR, Boiler, PCS Vent CAP

Group Members: EQT 0001 EQT 0002 RLP 0024

384 [LAC 33:III.501] CO_{2e} emissions ≤ 1,335,462 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 424 of this Title V permit.

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

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GRP 0003 MTPCAP - Methanol Transfer and Product Tank Cap

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

- 385 [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 LOAD, including those associated with roof landings and tank cleanings, to 27.88 tons VOC and 27.29 tons methanol, respectively, per 12-consecutive month period. Emissions above the maximum listed in this Specific Requirement for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.
- 386 [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, shall be submitted to the Enforcement Division as an addendum to the permittee's Part 70 General Condition M compliance certification.
- 387 [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.
- 388 [LAC 33:III.507.H.1.a] 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).
- 389 [LAC 33:III.507.H.1.a] Compliance demonstration method for combustion emissions of VOC, CO, NO_x, PM₁₀ and PM_{2.5} from the vapor combustion unit: VOC (from pilot and enrichment gas), PM₁₀ and PM_{2.5} 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 NO_x 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.
- 390 [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.
- 391 [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.
- 392 [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

- 393 [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.
- 394 [LAC 33:III.509] BACT for CO emissions is determined to be no further controls.

RLP 0025 CTVENT - Condensate Trap Vents

- 395 [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 operation by 0.0127 lb CO/hr.

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

RLP 0025 CTVENT - Condensate Trap Vents

396 [LAC 33:III.509] BACT for CO emissions is determined to be no further controls.

UNF 0001 - Koch Methanol Facility

- 397 [40 CFR 60.] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
- 398 [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:
- (1) Specify the process equipment or maintenance tasks that are anticipated to create wastewater during maintenance activities;
 - (2) Specify the procedures that will be followed to properly manage the wastewater and control organic HAP emissions to the atmosphere; and
 - (3) Specify the procedures to be followed when clearing materials from process equipment. [40 CFR 63.105(b)]
- 399 [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)]
- 400 [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)]
- 401 [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)]
- 402 [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)]
- 403 [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)]
- 404 [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)]
- 405 [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)]

SPECIFIC REQUIREMENTS

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

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

UNF 0001 - Koch Methanol Facility

- 406 [40 CFR 63.152(c)(2)(ii)(A)-(E)] Excursions:
- (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)]
- 407 [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)]
- 408 [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)]
- 409 [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)]
- 410 [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)]

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- 411 [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)]
- 412 [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)]
- 413 [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)]
- 414 [40 CFR 63.] Comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Subparts F, G, H, ZZZZ, and DDDDD.
- 415 [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.
- 416 [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.
- 417 [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.
- 418 [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.
- 419 [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.
- 420 [LAC 33:III.501.C.6] All TPY (Tons/Year) emissions limitations shall be limited per each 12-consecutive month period.
- 421 [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).
- 422 [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 regulation in lieu of this Specific Requirement.

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- 423 [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 424 of this Title V permit.
- 424 [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.
- 425 [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.
- 426 [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.
- 427 [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.
- 428 [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.
- 429 [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.
- 430 [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.
- 431 [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.
- 432 [LAC 33:III.5107.B.2] 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.
- 433 [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.

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- 434 [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.
- 435 [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]
- 436 [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.
- 437 [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.
- 438 [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.
- 439 [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.
- 440 [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.
- 441 [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.
- 442 [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.
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