

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

MEMORANDUM

DATE:

December 12, 2023

TO:

Maureen Wozniak, Kevin Hecht, Kent Mohr, Ron Robeen and Bill Marr

FROM:

Yasmine Keppner-Bauman, Compliance Unit

RE:

Proposed Compliance Commitment Agreement from

Koppers Inc

Violation Notice 031300AAJ

I.D. 031300AAJ

Please find attached a proposed Compliance Commitment Agreement (CCA) received from the facility in response to the above-referenced Violation Notice dated October 4, 2023. This facility is requesting a meeting.



December 4, 2023

Via E-mail and Certified U.S. Mail

Yasmine Keppner-Bauman Illinois Environmental Protection Agency Bureau of Air, Compliance Section 1021 North Grand Ave. East P.O. Box 19276 Springfield, IL 62794-9276 Yasmine.Keppner-Bauman@Illinois.gov

Re: Violation Notice A-2023-00162

ID: 031300AAJ

Koppers Inc.
Carbon Materials and Chemicals
3900 South Laramie Avenue
Cicero, IL 60804-4523
Tel 708 556 9984
Fax 708 656 6079
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RECEIVED STATE OF ILLINOIS

DEC 0.8 2023

ENVIRONMENTAL PROTECTION AGENCY
BUREAU OF AIR

Dear Ms. Keppner-Bauman:

Koppers Inc. ("Koppers") appreciates this opportunity to provide the Illinois Environmental Protection Agency ("IEPA") with its initial response to Violation Notice A-2023-00162, which was received by Koppers on October 6, 2023. Koppers requested and received an extension of time from IEPA to provide its initial response on or before December 4, 2023. It is Koppers' intention to cooperatively participate in the Section 31 enforcement process and, if determined to be necessary, to provide IEPA with a proposed Compliance Commitment Agreement following the meeting with IEPA requested herein. Koppers willingness to participate in the Section 31 enforcement process is not, and should not be, construed as an admission of liability and Koppers expressly reserves its rights and any defenses with respect to the alleged violations.

Koppers has recently invested in and commissioned several process control projects at its Stickney Plant to address safety and air quality issues. These projects are summarized as follows:

- 1. Installation of automatic shutdown of tank farm pumps if Fume System #2 opens to atmosphere to automatically stop transferring and blending of creosote.
- 2. Installation of automatic shutdown of the naphthalene process if Fume System #2 opens to atmosphere to stop production to tanks and subsequent emissions.
- 3. Elimination of safety issues with automatic transference of waste gas to the Tar Plant Thermal Oxidizer (Tar TO) to control emissions if a Tube Heater goes down.
- 4. Installation of automatic diversion of flow going to the blending tanks (Group 1 process vents) to T-49 (MON Group 2 storage tank) or T42 (Tar TO controlled tank) if the Pitch Thermal Oxidizer (Pitch TO) goes down.

As of the date of this letter, these projects have been fully commissioned and will result in minimizing many of the self-reported deviations cited in the agency's violation notice. These projects, summarized above, are referred to in this response letter as the "process automation project."

Additionally, faulty programming previously implemented in the naphthalene plant will be corrected to automatically shut down the distillation process in the case of malfunction of the environmental control equipment.

Koppers, reserving all rights and any defenses, responds below to each of the alleged violations as set forth in Attachment A to Violation Notice A-2023-00162.

I. Response to Specific Alleged Violations

1. Sections 9(a) and 9(b) of the Act, 35 Ill. Adm. Code 218.301, and Condition 1.1.3-1(a) of Construction Permit 02020104: Koppers Inc. caused or allowed the discharge of more than 8 lb/hr of organic material into the atmosphere from creosote blending tanks during creosote blending while the associated thermal oxidizer was not operating on July 15 and September 24, 2022, and multiple occasions from January through June 2023.

Koppers' Response:

Koppers respectfully disagrees with the stated violation. 35 IAC § 218.301 requires that owners/operators of emission units with VOM emissions in excess of 8 lb/hr must control emissions using one of the methods identified in 35 IAC § 218.302. The creosote blending operation is controlled by one of the methods identified in 35 IAC § 218.302, specifically thermal incineration. The control device malfunctioned and Koppers self reported the malfunction events to IEPA.

On February 24, 2023, Koppers submitted to the agency a Deviation Report covering two events on July 15 and September 24, 2022. Koppers also submitted to the agency a Compliance Report for 40 C.F.R. Subpart MMM - National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production (PAI) on August 30, 2023, covering the reporting period from January – June 2023. In Attachment 1 of the Compliance Report, Koppers listed the VOM emissions for each parameter exceedance and bypass event. Although emissions from these events were not quantified, all events listed resulted in emissions below 8 lb/hr. Creosote blending emissions calculations show uncontrolled emissions are typically between 4.0 and 4.5 lbs/hr. No creosote blending emission calculations exceed 8 lb/hr. These calculations are based on (1) vapor displacement calculations, which include temperature, flowrate, and type of raw materials to calculate vapor pressure, and (2) VOM emissions using USEPA emission estimating calculations.

These events were caused by equipment malfunctions and emissions were minimized as required under 40 C.F.R. § 63.1360(e)(4) by following the facility's startup, shutdown, malfunction

Attachment A, February 24, 2023 Deviation Report.

Attachment B, August 30, 2023 Compliance Report for 40 C.F.R. Subpart MMM – National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production (PAI).

Attachment C, Creosote Blending Emissions Calculations.

("SSM") plan.⁴ The process automation project, summarized above, will minimize occurrence of these events in the future.

2. Sections 9(b) and 9.1(d) of the Act, 40 CFR 63.1362(b)(2), and Condition 1.1.3-1(b)(i)(A) of Construction Permit 02020104: Koppers Inc. failed to operate the thermal oxidizer controlling the creosote blending tanks in compliance with the requirements in 40 CFR 63.1362(b)(2)(ii) through (iv) on July 15 and September 24, 2022, and multiple occasions from January through June 2023.

Koppers' Response:

Koppers respectfully disagrees with the stated violation. Koppers recognizes that the thermal oxidizer controlling the creosote blending tanks experienced malfunctions during July 15, 2022, September 24, 2022 and on occasion from January through June 2023, as documented in the Deviation Report submitted by Koppers on February 24, 2023 and the PAI Compliance Report submitted by Koppers on August 30, 2023. These events were caused by equipment malfunctions and emissions were minimized as required under 40 C.F.R. § 63.1360(e)(4) by following the facility's SSM plan. The process automation project will minimize occurrence of these events in the future.

3. Section 9(b) of the Act and Condition 1.1.5(b) of Construction Permit 02020104: Koppers Inc. failed to follow good operating practices for the creosote blending tanks and associated thermal oxidizer, including periodic inspection, routine maintenance, and prompt repair of defects.

Koppers' Response:

Koppers respectfully disagrees that it failed to follow "good operating practices" for the creosote blend tanks and associated closed vent system. Condition 1.1.5(b) of Construction Permit 02020104 provides that "[t]he Permittee shall follow good operating practices for the affected tanks and associated close vent system with the thermal oxidizer, including periodic inspection, routine maintenance and prompt repair of defects."

Koppers records indicate that it has followed good operating practices as stated in the permit.⁶ Koppers, further, followed the facility's SSM plan during the subject malfunction events in accordance with the applicable regulations.

4. Sections 9(b) and 9.1(d) of the Act, 40 CFR 63.1366(b)(l)(xiii), and Condition 1.1.8(b) of Construction Permit 02020104: Koppers. Inc may have failed to perform monitoring for the closed vent system in accordance with 40 CFR 63.1366(b)(l)(xiii)(A) or (B) to ensure the vent stream was not diverted through the bypass line.

⁴ Attachment D, Startup, Shutdown, and Malfunction Plan, November 2020 (Revision 03).

⁵ Attachments A & B.

⁶ Attachment E, Good Operating Practices Documentation.

Koppers' Response:

Koppers respectfully disagrees with the stated violation. Koppers complies with 40 C.F.R. § 63.1366(b)(l)(xiii)(A) and condition 1.1.8(b) of Construction Permit 02020104 and has continuous records. 7 40 C.F.R. § 63.1366(b)(l)(xiii)(B) does not apply to Koppers.

5. Section 9(b) of the Act and Condition 1.1.10 of Construction Permit 02020104: Koppers Inc. failed to timely notify the Illinois EPA, Bureau of Air, Compliance Section, of deviations from Construction Permit 02020104 associated with events on July 15 and September 24, 2022, and February 2, 2023.

Koppers' Response:

Koppers respectfully disagrees that there was a failure to timely notify IEPA of deviations from Construction Permit 02020104 associated with events on July 15 and September 24, 2022, and February 2, 2023. Condition 1.1.10 of Construction Permit 02020104 only requires a notification if a material is stored in Tanks 301, 302, and 303 with a vapor pressure greater than 0.5 psia. All materials stored in these tanks were less than 0.5 psia and, therefore, no notification was required to be submitted. Koppers, nonetheless, timely reported these events to the agency in the Deviation Report submitted on February 24, 2023 and the PAI Compliance Report submitted on August 30, 2023.8

6. Section 39.5(6)(a) of the Act and Condition 7.7.8(d)(i) of Clean Air Act Permit Program (CAAPP) Permit 96030134: Koppers Inc. failed to operate the continuous emissions monitoring system (CEMS) for the Phthalic Anhydride Reactor Trains A and B to provide permanent records of the hourly average sulfur dioxide (SO₂) emissions based upon three minute samples of air flows and SO₂ concentrations, on multiple occasions from August 2022 through June 2023.

Koppers' Response:

Koppers recognizes that the CEMS monitor experienced infrequent downtime during August 2022 through June 2023. The majority of the downtime was from one event from 11-24-2022 to 12-9-2022. Koppers contracts to procure calibration gases with an outside supplier. The extended downtime for this event was due to contract issues with the outside supplier of calibration gases. The contract with the calibration gas supplier was resolved and a long-term supply contract is in place. It is not anticipated that there will be an interruption in calibration gas supply in the future.

Monitor availability during the during the period from July 1, 2022 (2nd half 2022) through June 30, 2023 (1st half 2023) was 94.3%. In other words, the SO₂ monitor was down only 5.7% of the time the process was operating. While this level of monitor availability is slightly below the range of certain federal rules, such as 40 C.F.R. Part 75, which has a monitor availability requirement of 95%, those rules, unlike the Koppers' CAAPP permit, have provisions for substituting missing data. Instead of data substitution routines, the Koppers' CAAPP permit has a requirement to take

Attachment F, Closed Vent System Monitoring Data.

⁸ Attachments A & B.

feed samples and to not increase the feed rate to ensure that SO₂ emissions normally measured by the CEMS do not increase or exceed the permit limit. As discussed in the response to items 7 and 8, below, the SO₂ emission limit of 260 lb/hr was not exceeded during this time frame.

7. Section 39.5(6)(a) of the Act and Condition 7.7.8(d)(ii) of CAAPP Permit 96030134: Koppers Inc. failed to maintain Phthalic Anhydride Reactor Trains A and B feeds at previous feed rates during failure of the CEMS and may have failed to sample and analyze the feed stock to demonstrate compliance with S02 emission limitations on multiple occasions from August 2022 through June 2023.

Koppers' Response:

There was a single event during the stated timeframe when the naphthalene feed rate increased when the CEMS unit was down. The event occurred on December 8-9 2022. Increasing the feed rate was necessary for safety reasons. The rate had to be increased due to the loss of steam supplied to the entire plant. Maintaining steam at the facility is critical for safe operation of processes throughout the facility because it is tied to maintaining vacuum on tanks and processes, and loss of vacuum can lead to unsafe conditions at the plant. The available data and calculations, discussed in item 8 below, demonstrate compliance with the allowable hourly SO₂ emission rate and no excess emissions occurred during the event.

8. Section 39.5(6)(a) of the Act and Condition 7.7.6(a)(i)(A) of CAAPP Permit 96030134: Koppers Inc. may have caused or allowed emissions of SO₂ to exceed 260 lb/hr on multiple occasions from August 2022 through June 2023.

Koppers' Response:

Koppers did not cause or allow emissions of SO₂ to exceed the 260 lb/hr limit in the CAAPP Permit.

On February 28, 2023 and August 30, 2023, Koppers submitted to the agency two Semi-Annual Monitoring Reports covering the July – December 2022 and January – June 2023 reporting periods, self reporting the amount of CEMS downtime during the periods.⁹

Naphthalene is the only source of sulfur at the PAA plant. Naphthalene throughput during CEMS downtime was compared to naphthalene throughput during the highest measured SO₂ rate to estimate SO₂ emissions when the CEMS was down. The highest measured SO₂ rate was 88 lb/hr, which was measured on April 20, 2023 for the B-train. The naphthalene throughput on that date (April 20, 2023) was more than double any throughput when the CEMS unit was down. Therefore, the hourly SO₂ emission rates during the CEMS downtime are less than 88 lb/hr per train or 176 lb/hr total, well below the 260 lb/hr limit.

Attachments G & H, 2nd half 2022 and 1st half 2023 Semi-Annual Monitoring Reports.

The results of the naphthalene sampling show that the percent sulfur was below 0.8% in all cases. These results are attached. 10

9. Sections 9(b) and 9.1(d) of the Act, 40 CFR 63.2470, and Condition 3 of Construction Permit 08040005: Koppers Inc. failed to meet each emission limit in Table 4 of 40 CFR 63 Subpart FFFF-National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing for its pitch storage tanks on during multiple occasions from July 2022 through August 2023.

Koppers' Response:

Koppers respectfully disagrees that the pitch storage tanks were not in compliance with the requirements of 40 C.F.R. § 63.2470. Table 4 of 40 C.F.R. 63 Subpart FFFF is for Group 1 storage tanks or tanks that store liquid that contains ethylene oxide. There are no MON Group 1 storage tanks or storage tanks that store a liquid that contains ethylene oxide and, therefore, 40 C.F.R. § 63.2470 and Table 4 do not apply. There are MON Group 1 process vents that are required to be controlled, but that is under a different section, as well as Group 2 storage tanks that do not require control under the MON.

The alleged violation was self reported by Koppers to IEPA in Koppers' MON MACT Semi-Annual Compliance Reports, July 1, 2022 – December 31, 2022 and January 1, 2023 – June 30, 2023. The MON report for July 1, 2023, through December 31, 2023 will be submitted as required in the MON. The process automation project will minimize occurrence of these events in the future.

10. Section 9(b) of the Act and Condition 4(b) of Construction Permit 08040005: Koppers Inc. failed to operate the thermal oxidizer for the pitch tanks to achieve at least 98% destruction efficiency for volatile organic material (VOM) from July 2022 through August 2023.

Koppers' Response:

Koppers respectfully disagrees with the stated violation. Prior to August 12, 2023, Koppers relied on the SSM provisions in the MON rules. An element of the process automation project specifically addresses conditions where the alleged violations occurred. The alleged violation was self reported by Koppers to IEPA in Koppers' MON MACT Semi-Annual Compliance Reports, July 1, 2022 – December 31, 2022 and January 1, 2023 – June 30, 2023. The MON report for July 1, 2023, through December 31, 2023 will be submitted as required in the MON.

The process automation project will minimize occurrence of these events in the future.

11. Sections 9(a) and 39.5(6)(a) of the Act, 35 Ill. Adm. Code 218.301, and Condition 7.2.3(b) of CAAPP Permit 96030134: Koppers Inc. caused or allowed the emission of more than 8 lb/hr of

Attachment I, Naphthalene Sampling Results.

Attachments J & K, H2 2022 and H1 2023 MON MACT Semi-Annual Reports.

organic material into the atmosphere from its pitch tanks on multiple occasions from July 2022 through August 2023.

Koppers' Response:

Koppers respectfully disagrees with the stated violation. 35 IAC § 218.301 requires that owners/operators of emission units with VOM emissions in excess of 8 lb/hr must control emissions using one of the methods identified in 35 IAC § 218.302. The pitch tanks are controlled by one of the methods identified in 35 IAC § 218.302, specifically thermal incineration. The control device malfunctioned and Koppers self reported the malfunction events. The 2009 pitch thermal oxidizer stack test shows the uncontrolled emissions from the pitch tanks is 3.8 lb/hr; therefore, when the pitch thermal oxidizer is down the process emissions do not exceed the 8 lb/hr threshold under 35 IAC § 218.301.¹²

12. Section 9.1(d) of the Act and 40 CFR 63.983(a): Koppers Inc. failed to operate and maintain the closed vent systems for carbon pitch and coal tar distillation processes on multiple occasions from July 2022 through June 2023.

Koppers' Response:

Koppers respectfully disagrees with the stated violation. 40 C.F.R. § 63.983(a) provides:

Closed vent system equipment and operating requirements. Except for closed vent systems operated and maintained under negative pressure, the provisions of this paragraph apply to closed vent systems collecting regulated material from a regulated source.

The closed vent systems are operated and maintained under negative pressure and, therefore, fall within the exception stated in 40 C.F.R. § 63.983(a).

13. Sections 9(a) and 39.5(6)(a) of the Act, 35 Ill. Adm. Code 218.301, and Condition 7.4.3(e)(i) of CAAPP Permit 95030134: Koppers Inc. caused or allowed the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from the coal tar distillation process on multiple occasions from July 2022 through September 2023.

Koppers' Response:

Koppers respectfully disagrees with the stated violation. 35 IAC § 218.301 requires that owners/operators of emission units with VOM emissions in excess of 8 lb/hr must control emissions using one of the methods identified in 35 IAC § 218.302. The coal tar distillation process is controlled by one of the methods identified in 35 IAC § 218.302, specifically thermal incineration. The control device malfunctioned and Koppers self reported the malfunction events.

Koppers recognizes that the Tar Thermal Oxidizer experienced malfunctions during the July 2022 through September 2023 period as documented in the following reports:

¹² Attachment L, 2009 Pitch Thermal Oxidizer Stack Test.

- 1. July December 2022 Compliance Report submitted on February 28, 2023
- 2. January June 2023 Compliance Report submitted on August 30, 2023
- 3. August 12, 2023, though September 7, 2023, Deviation Report submitted on September 8, 2023
- 4. September 8, 2023, through October 5, 2023, Deviation Report submitted on October 6, 2023. 13

Also, Koppers will submit the July – December 2023 Compliance Report as required under the MON.

The events documented in the submitted reports were a result of malfunction events and the facility's SSM plan was followed to minimize emissions. As IEPA is aware, as a result of USEPA regulatory amendments, the SSM provisions were removed from the MON MACT effective August 12, 2023. The process automation project will minimize occurrence of these events in the future.

14. Sections 9(a) and 39.5(6)(a) of the Act, 35 Ill. Adm. Code 218.966(a), and Condition 7.4.3(f)(i) CAAPP Permit 96030134: Koppers Inc. failed to comply with emission capture and control techniques which achieve overall reduction of at least 81 percent of volatile organic material (VOM) emissions from the coal tar distillation process on multiple occasions from July 2022 through September 2023.

Koppers' Response:

Koppers respectfully disagrees with the stated violation. See response to item number 13 above.

15. Sections 9(a) and 39.5(6)(a) of the Act, 35 Ill. Adm. Code 218.991(a)(3)(A), and Condition 7.4.10 of CAAPP 96030134: Koppers Inc. failed to notify the Illinois EPA, Bureau of Air, Compliance Section, of deviations of CAAPP permit 96030134 and 35 Ill. Adm. Code 218, Subpart RR.

Koppers' Response:

Koppers respectfully disagrees with the stated violation. Koppers submitted the reports listed in item number 13 above, including monthly Deviation Reports, starting on August 12, 2023. These reports were submitted within 30 days of discovering the potential deviation.

16. Sections 9(b) and 9.1(d) of the Act, 40 CFR 63.113(a)(2), and Condition 2.1.2-l(a) of Construction Permit 14100012: Koppers Inc. failed to reduce the total organic hazardous air pollutants (HAPs) by 98 weight-percent or to a concentration of 20 parts per million by volume from process vents at the naphthalene distillation plant on January 3 and March 23, 2023.

Attachment J & K; Attachment M, September 8, 2023 Deviation Report; Attachment N, October 6, 2023 Deviation Report.

Koppers' Response:

Koppers respectfully disagrees with the stated violation. Koppers self reported these events to the agency in a Deviation Report submitted on May 30, 2023. In Table 1 of the Deviation Report, Koppers identified the two events which occurred on January 3 and March 23, 2023. Each of these occurrences were the result of a malfunction. Koppers understands that compliance with requirements of the HON and condition 2.1.2-1(a) of the Construction Permit 14100012, which references the HON requirements, is not required during SSM events as stated under 40 C.F.R. § 63.102(a)(1).

Koppers asserts that the Naphthalene Plant was in compliance with the HON during both of these events.

17. Sections 9(b) and 9.1(d) of the Act, 40 CFR 60.662(a), and Condition 2.1.2-l(b) of Construction Permit 14100012: Koppers Inc. failed to reduce total organic compounds (less methane and ethane) by 98 weight-percent or a concentration of less than 20 ppmv (less methane and ethane) from the naphthalene distillation operation on January 3 and March 23, 2023.

Koppers' Response:

Koppers respectfully disagrees with the stated violation. The Naphthalene distillation operation vents are considered Group 1 process vents under the HON and are subject to NSPS subpart NNN but are only required to comply with the HON as stated in 40 C.F.R. § 63.110(d)(4) and condition 2.1.3(a) of Construction Permit 14100012.

18. Sections 9(a) and 9(b) of the Act, 35 Ill. Adm. Code 218.301, and Condition 2.1.2-2(a) of Construction Permit 14100012: Koppers Inc. caused or allowed the emission of more than 8 lb/hr of organic material into the atmosphere from the naphthalene distillation plant process vents on January 3 and March 23, 2023.

Koppers' Response:

Koppers respectfully disagrees with the stated violation. 35 IAC § 218.301 requires that owners/operators of emission units with VOM emissions in excess of 8 lb/hr must control emissions using one of the methods identified in 218.302. The naphthalene distillation plant process vents are controlled by one of the methods identified, thermal incineration. The control device malfunctioned and Koppers self reported the malfunction events.

The naphthalene distillation process is vented to the Naphthalene Plant thermal oxidizer. Based on the September 2020 stack test the VOM emissions from the thermal oxidizer is 0.042 lb/hr. The uncontrolled emissions, assuming 98% control, is 2.1 lbs/hr; therefore, uncontrolled emissions from the naphthalene distillation process does not exceed the 8 lb/hr threshold under 35 IAC § 218.301. Table 1 below shows the duration of the events and VOM emission rate.

Attachment O, May 30, 2023 Deviation Report.

¹⁵ Attachment P, September 2020 Naphthalene Plant Stack Test.

Table 1. Duration and VOM Emission Quantity from January and March Naphthalene Plant Events

Start Time	End Time	Duration (hours)	Emissions (lb/hr)
1/3/2023 1:30	1/3/2023 9:00	7.50	2.1
3/23/2023 2:50	3/23/2023 7:40	4.83	2.1

19. Sections 9(a) and 9(b) of the Act, 35 Ill. Adm. Code 218.986(a), and Condition 2.1.2-2(b) of Construction Permit 14100012: Koppers Inc. failed to control VOM emissions from the naphthalene distillation emission units to achieve an overall reduction in VOM of at least 81 percent on January 3 and March 23, 2023.

Koppers' Response:

Koppers self reported these events to the agency in a Deviation Report submitted on May 30, 2023. In Table 1 of the Deviation Report, Koppers identified the two events which occurred on January 3 and March 23, 2023. As stated in the deviation report, the program to automatically shutdown the process during the loss of the Naphthalene Thermal Oxidizer had an issue experiencing an unforeseen process condition. The process was eventually shutdown manually. Engineering is repairing the programming issue to account for the unforeseen process condition. The duration of the events and VOM emission rates are shown in Table 1 above.

20. Section 9(b) of the Act and Condition 2.1.4(a)(ii) of Construction Permit 14100012: Koppers Inc. failed to operate the naphthalene distillation plant oxidizer to achieve a minimum 98 percent destruction efficiency for organic material on January 3 and March 23, 2023.

Koppers' Response:

See response to item number 19 above.

21. Section 9(b) of the Act and Condition 2.1.4(a)(iii) of Construction Permit 14100012: Koppers Inc. failed to maintain the combustion chamber temperature of the naphthalene distillation plant oxidizer above minimum operating temperature while the affected process vent was in operation January 3 and March 23, 2023.

Koppers' Response:

See response to item number 19 above.

22. Section 9(b) of the Act and Condition 2.1.5(a) of Construction Permit 14100012: Koppers Inc. may have exceeded emissions limits delineated in Condition 2.1.5(a) of Construction Permit 14100012 on January 3 and March 23, 2023.

¹⁶ Attachment O.

Koppers' Response:

See response to item numbers 18 and 19 above.

The process was operated in configuration 2 as defined in Construction Permit 14100012.

23. Section 9(b) of the Act and Condition 2.3.2(a)(i)(C) of Construction Permit 14100012: Koppers Inc. may have failed to operate naphthalene distillation plant oxidizer at all times organic HAP emissions from the truck transfer rack were venting to it on January 3 and March 23, 2023.

Koppers respectfully disagrees with the stated violation. The truck transfer rack did not operate during the January 3 and March 23, 2023, events and, therefore, the facility was in compliance with condition 2.3.2(a)(i)(C) of Construction Permit 14100012.

Koppers' Response:

24. Sections 9(b) and 9.1(d) of the Act, 40 CFR 63.126(b)(l), and Condition 2.3.2(a)(ii) of Construction Permit 14100012: Koppers Inc. may have failed to reduce total organic HAPs by 98 weight-percent or to a concentration of 20 ppmv from the transfer rack on January 3 and March 23, 2023.

Koppers respectfully disagrees with the stated violation. See response to item number 16 above relating to HON compliance and response to item number 23 above relating to truck transfer operations.

Koppers' Response:

25. Section 9(b) of the Act and Condition 1.12 of Construction Permit 14100012: Koppers Inc. failed to timely notify the Illinois EPA of deviations of Construction Permit 14100012 from events occurring January 3 and March 23, 2023.

Koppers respectfully disagrees with the stated violation. These two events were self disclosed to the agency on May 30, 2023.¹⁷ The deviations were discovered during the preparation of the Naphthalene HON periodic report and the Deviation Report was submitted within 30 days of discovering the deviations.

II. Response to Recommendations

The Violation Notice request certain records be provided in connection with Koppers response. Koppers, with this initial response, is providing the following information, some of which is referenced in the narrative response above.

1. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section, a compliance plan which ensures the thermal oxidizer controlling the

¹⁷ Attachment O.

creosote blending tanks is in operation at all times creosote blending is occurring such that compliance with 35 Ill. Adm. Code 218.301, 40 CFR 63.1362(b)(2), and Construction Permit 02020104 is maintained. This compliance plan shall include all interim and/or permanent measures and procedures that have been taken, or will be taken, milestones, and dates by which those milestones will be achieved.

Koppers' Response:

The process automation project, previously summarized, will minimize occurrence of these events in the future.

2. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section, a compliance plan with ensures good operating practices for the creosote blending tanks and associated thermal oxidizer, including periodic inspection, routine maintenance and prompt repair of defects in accordance with Construction Permit 02020104. This compliance plan shall include all interim and/or permanent measures and procedures that have been taken, or will be taken, milestones, and dates by which those milestones will be achieved.

Koppers' Response:

The process automation project will minimize occurrence of these events in the future.

3. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section, a compliance plan which ensures monitoring is performed for the closed vent system in accordance with 40 CFR 63.1366(b)(l)(xiii)(A) or (B) and Construction Permit 02020104 to ensure the vent stream was not diverted through the bypass line. This compliance plan shall include all interim and/or permanent measures and procedures that have been taken, or will be taken, milestones, and dates by which those milestones will be achieved.

Koppers' Response:

The closed vent monitoring equipment has always functioned as designed. Koppers' environmental management and process engineering groups now meet monthly to review compliance data to ensure timely discovery of potential deviations.

4. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section, records of monitoring of the closed vent system for the creosote blend tanks and associated thermal oxidizer from June 2022 through the present.

Koppers' Response:

The requested data is attached to this letter¹⁸

Attachment F.

5. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section, a compliance plan which ensures the CEMS for the Phthalic Anhydride Reactor Trains A and B are operated to provide permanent records of the hourly average S02 emissions based upon three minute samples of air flows and SO2 concentrations. This compliance plan shall include all interim and/or permanent measures and procedures that have been taken, or will be taken, milestones, and dates by which those milestones will be achieved.

Koppers' Response:

In the past, monitor availability was affected by service contractor availability and a transition of the spare parts inventory system. Both of those issues were previously addressed and systems put in place to minimize or eliminate the conditions that led to monitor downtime. In this most recent circumstance, the contract for calibration gases lapsed. A new contract has been put in place to ensure timely delivery of calibration gases. It should be noted that during the 1st half 2023 monitor was unavailable for 42 hours, which equates to a monitor availability of 99.52% of the time. This level of monitor availability is what is expected and well within the requirements of federal CEMS programs such as 40 CFR Part 75 which has a quarterly monitor availability guideline of 95%.

The compliance plan is as follows:

- 1. Maintain spare parts inventory;
- 2. Manage the contractor to ensure availability for routine and non-routine maintenance activities;
- 3. Train Koppers personnel to back-up the contractor; and
- 4. Have long-term contract with calibration gas provider.
- 6. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section, feed stock rates and feed stock sampling and sulfur analysis results for the Phthalic Anhydride Reactor Trains A and B for periods during August 2022 through June 2023, when the associated CEMS for the was inoperable.

Koppers' Response:

The requested data is attached to this letter. 19

7. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section, average hourly SO₂ emissions from the Phthalic Anhydride Reactor Trains A and B from August 2022 through the present.

Koppers' Response:

The requested data is attached to this letter.²⁰

¹⁹ Attachment I.

Attachment Q, SO₂ Emission Data.

8. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section, the daily, monthly and aggregate annual SO₂ emissions from the Phthalic Anhydride Reactor Trains A and B based on average hourly SO₂ emissions and the operating schedule of the Reactor Trains from January 2022 through the present.

Koppers' Response:

The requested data is attached to this letter.²¹

9. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section, a compliance plan which ensures the thermal oxidizer for the pitch tanks is operated in compliance with 35 Ill. Adm. Code 218.301, 40 CFR 63.2470, CAAPP Permit 96030134, and Construction Permit 08040005. This compliance plan shall include all interim and/or permanent measures and procedures that have been taken, or will be taken, milestones, and dates by which those milestones will be achieved.

Koppers' Response:

The process automation project will minimize occurrence of these events in the future.

10. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section a compliance plan which ensures the closed vent system is operated and maintained for carbon pitch and coal tar distillation processes so as to ensure continued compliance 40 CFR 63.983(a). This compliance plan shall include all interim and/or permanent measures and procedures that have been taken, or will be taken, milestones, and dates by which those milestones will be achieved.

Koppers' Response:

The process automation project will minimize occurrence of these events in the future.

11. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section, a compliance plan which ensures the thermal oxidizer for the coal tar distillation process is operated and maintained such that compliance with 35 Ill. Adm. Code 218.301, 35 Ill. Adm. Code 218.966(a), and CAAPP Permit 96030134. This compliance plan shall include all interim and/or permanent measures and procedures that have been taken, or will be taken, milestones, and dates by which those milestones will be achieved.

Koppers' Response:

The process automation project will minimize occurrence of these events in the future.

12. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section, a compliance plan which ensures the naphthalene distillation plant

²¹ Attachment Q.

thermal oxidizer is operated and maintained at all times such that compliance with 35 Ill. Adm. Code 218.301, 35 Ill. Adm. Code 218.986(a), 40 CFR 60.662(a), 40 CFR 63.113(a)(2), 40 CFR 63.126(b)(1) and Construction Permit 14100012 is maintained. This compliance plan shall include all interim and/or permanent measures and procedures that have been taken, or will be taken, milestones, and dates by which those milestones will be achieved.

Koppers' Response:

See responses to items 18 through 25 above. The Naphthalene Distillation Plant has uncontrolled emissions of 2.1 lb/hr and, therefore, the process is not subject to the provisions of 35 Ill. Adm. Code § 218.301. The process does comply with the capture and control provisions in 35 Ill. Adm. Code § 218.986(a), except during times of malfunction. The process is subject to the federal Hazardous Organic NESHAP (HON) rules in 40 C.F.R. §§ 63.113(a)(2) and 63.126(b)(1) and shows compliance with 40 C.F.R. § 60.662(a) by complying with the HON. The HON rules allow for responding to malfunction events by implementing an SSM plan. Koppers has a process control program to automatically shutdown the process and eliminate emissions during the loss of the Naphthalene Thermal Oxidizer. The process control experienced an unanticipated issue due to an unforeseen process condition that resulted in the deviation. Work is currently underway to correct the programming to account for that unforeseen condition.

13. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section, records of nitrogen oxide, carbon monoxide, VOM, S02, particulate matter (PM), and PM10/PM2.5 from the Naphthalene Distillation Plant Project in lbs/hour for January 3 and March 23, 2023, including calculations and supporting documentation.

Koppers' Response:

There were no nitrogen oxide, carbon monoxide, SO₂, particulate matter (PM), or PM₁₀/PM_{2.5} emissions from the Naphthalene Distillation Plant associated with the January 3 and March 23, 2023, events. The VOM emissions during these events are based on the 2020 Naphthalene Plant stack test results of 2.1 lb/hr.²²

14. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section, an internal policy which ensures all permit required and regulatorily required deviation reports will be timely and accurately submitted to the Illinois EPA, Bureau of Air, Compliance Section.

Koppers' Response:

Reporting has improved over the past 3 months by implementing a policy of monthly review. Moving forward it is anticipated that the need for such reporting will drastically reduce due to the implementation of the interlock on the Tar TO and completing recommissioning of the Tar TO as a back-up control device for the Crude Tar Distillation process. Koppers will continue the monthly review moving forward to catch unforeseen events that require short-term reporting.

²² Attachment P.

The contents of deviation reports are as follows: 1) start time, 2) end time, 3) duration, 4) regulation and permit conditions, 5) quantified emissions, 6) cause of event, and 7) corrective/preventative action.

III. Request for Meeting

Koppers believes it would be useful to meet with representatives of IEPA to discuss the alleged violations, Koppers response to those alleged violations, and the actions IEPA believes are required to address the alleged violations. Following the requested meeting, Koppers will, if necessary, supplement this initial response and submit to IEPA proposed terms for a Compliance Commitment Agreement.

Please contact me at 708-556-9984, or by e-mail HerringLS@koppers.com, to schedule the requested meeting.

Thank you for considering this initial response to the Violation Notice and request for a meeting. We look forward to meeting with IEPA to address these matters.

Sincerely,

Seth Herring Plant Manager

Attachments:

Attachment A, February 24, 2023 Deviation Report

Attachment B, August 30, 2023 Compliance Report for 40 C.F.R. Subpart MMM – National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production (PAI)

Attachment C, Creosote Blending Emissions Calculations

Attachment D, Startup, Shutdown, and Malfunction Plan, November 2020 (Revision 03)

Attachment E, Good Operating Practices Documentation

Attachment F, Closed Vent System Monitoring Data

Attachment G, 2nd half 2022 Semi-Annual Monitoring Report

Attachment H, 1st half 2023 Semi-Annual Monitoring Report

Attachment I, Naphthalene Sampling Results

Attachment J, H2 2022 MON Periodic Report

Attachment K, H1 2023 MON Periodic Report

Attachment L, 2009 Pitch Thermal Oxidizer Stack Test

Attachment M, September 8, 2023 Deviation Report

Attachment N, October 6, 2023 Deviation Report

Attachment O, May 30, 2023 Deviation Report

Attachment P, September 2020 Naphthalene Plant Stack Test

Attachment Q, SO2 Emission Data

Attachment A February 24, 2023, Deviation Report Response to Violation Notice A-2023-00162 Koppers Inc.



www.koppers.com

Koppers Inc.
Carbon Materials and Chemicals
3900 South Laramie Avenue
Cicero, IL 60804-4523
Tel 708 222 3483
Fax 708 656 6079

02/24/2023

Illinois Environmental Protection Agency Bureau of Air Compliance Section (MC 40) PO Box 19276 Springfield, IL 62794-9276

RE: Deviation Report

Koppers Inc., Stickney Plant ID Number: 031300AAJ

To Whom It May Concern:

Koppers Inc. (Koppers) operates a chemical manufacturing plant in Stickney, Illinois under Clean Air Act Permit Program (CAAPP) Permit # 96030134. Condition 5.7 of the CAAPP permit requires Koppers to provide prompt notice to the Illinois Environmental Protection Agency (IEPA) of deviations from CAAPP permit requirements.

The reports are to describe the event, the probable cause of the deviations, any corrective actions or preventive measures taken, and steps to avoid future deviations. The attached Table 1 summarizes a deviation from a requirement of the CAAPP permit.

If there are any questions concerning this report, please contact Fola Fayanjuola of Koppers at (708) 427-9057 Sincerely,

Fola Fayanjuola Environment Manager

Table 1 – Deviation Summary

Date and Description	7/15/2022 5:04 am - 5:35 am: Flame failure on the Thermal Oxidizer that serve as the control device for the Creosote blending process tanks.
	9/24/2022 6:27 pm — 6:50 pm: System control issue on the Thermal Oxidizer that serve as the control device for the Creosote blending process tanks.
Cause of the Event	7/15/2022 5:04 am - 5:35 am: Flame failure on the Thermal Oxidizer that serve as the control device for the Creosote blending process tanks during the specified block period of blending in the Creosote process tanks. 9/24/2022 6:27 pm - 6:50 pm: System control issue on the Thermal Oxidizer that serve as the control device for the Creosote blending process tanks during the specified block period of blending in the Creosote process tanks.
Corrective Action Taken	7/15/2022 5:04 am - 5:35 am: Issue investigated, and Thermal Oxidizer restarted. 9/24/2022 6:27 pm - 6:50 pm: Control issue repaired, and Thermal Oxidizer restarted.
Steps Taken to Avoid Future Events	7/15/2022 5:04 am - 5:35 am: Ongoing engineering evaluation to interlock TO with Creosote constituent transfer pumps.
	9/24/2022 6:27 pm - 6:50 pm: Ongoing engineering evaluation to interlock TO with Creosote constituent transfer pumps.

Attachment B

August 30, 2023 Compliance Report for 40 C.F.R. Subpart MMM – National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production (PAI)

Response to Violation Notice A-2023-00162

Koppers Inc.



UPS Overnight Mail

August 30, 2023

Mr. Bill Marr, Manager, Compliance Section Illinois Environmental Protection Agency Bureau of Air – Compliance Section (MC 40) 1021 N. Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

www.koppers.com

Koppers Inc.

Fax 708 656 6079

Carbon Materials and Chemicals

3900 South Laramie Avenue Cicero, IL 60804-4523 Tel 708 222 3483

RE: Koppers Inc., Stickney, Cook County, Illinois

ID Number: 031300AAJ Permit Number: 96030134

Periodic Report for Reporting Period of January 1, 2023 through June 30, 2023 as Required by the Pesticide Active Ingredient (PAI) NESHAP, Section 63.1368(g).

Dear Mr. Marr:

Koppers, Inc. (Koppers) operates a chemical manufacturing facility in Stickney, Illinois. Three creosote blend tanks are subject to the National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production (the PAI MACT) in 40 CFR Part 63, Subpart MMM.

With this letter, Koppers is submitting the semiannual Report of Malfunctions required under 40 CFR §63.1368(i) and the PAI MACT periodic report required under 40 CFR §63.1368(g). The required elements of each report are addressed below.

REPORT OF MALFUNCTIONS

Following revisions to the PAI MACT in March of 2014, affected pesticide active ingredient process units subject to the PAI MACT are no longer covered by the Startup, Shutdown and Malfunction provisions of the MACT. Rather, affected units are subject to 40 CFR §63.1368(i) Reports of Malfunctions as follows:

If a source fails to meet an applicable standard, report such events in the Periodic Report. Report the number of failures to meet an applicable standard. For each instance, report the date, time, and duration of each failure. For each failure the report must include a list of the affected sources or equipment, an estimate of the quantity of each regulated pollutant emitted over any emission limit, and a description of the method used to estimate the emissions.

These failures to meet the applicable emission standards in this reporting period are reflected in Attachment 1.

PAI MACT PERIODIC REPORT

This periodic report covers the period from January 1, 2023 through June 30, 2023, and provides all information required under 40 CFR §63.1368, §63.1363, §63.146, and the 40 CFR Part 63 General Provisions. Periodic Report information is included in Attachments 2, 3, and 4.

Based on reasonable inquiry, the information submitted in this submittal is, to the best of my knowledge and belief, true, accurate, and complete. Should you have any questions or require further information, please contact Sidney Lipp, at 708-222-3111.

Sincerely.

L. Seth Herring

Plant Manager CMC NA

Attachment 1 - Report of Malfunctions

Attachment 2 - Periodic Report Information

Attachment 3 - Periodic Report Records

Attachment 4 - LDAR Results

Copy:

Illinois EPA – Air Regional Field Office Illinois Environmental Protection Agency Division of Air Pollution Control 9511 W. Harrison Street Des Plaines, IL 60016

USEPA, Region 5 Air and Radiation Division 77 West Jackson Boulevard (A-18J) Chicago, Illinois 60604-3507

Certification by a Responsible Official:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: J. St. 7
Name: L. Seth Heming
Official Title:
Plant Manager CMC NA
Telephone No.:
708-556-9984
Date Signed: 8/30/23

ATTACHMENT 1 - REPORT OF MALFUNCTIONS

Parameter Exceedences

Start Time	End Time	Duration (Hr)	VOC Emissions (lbs)
2/2/23 15:45	2/2/23 18:15	2.50	10.93
2/23/23 17:00	2/23/23 19:15	2.25	9.84

Bypass Events

Bypass Events			
Start Time	End Time		VOC Emissions (lbs)
1/27/23 9:02	1/27/23 9:11	0.15	0.66
1/27/23 9:28	1/27/23 10:24	0.93	4.08
2/2/23 15:50	2/2/23 16:59	1.15	5.03
2/2/23 17:01	2/2/23 18:19	1.30	5.68
2/3/23 13:26	2/3/23 13:43	0.28	1.24
	2/8/23 23:17	0.08	0.36
	2/16/23 9:42	0.08	0.36
2/16/23 12:27	2/16/23 12:33		0.44
2/17/23 20:37			0.29
2/23/23 17:00		1.35	5.90
2/23/23 18:21		0.90	3.93
2/24/23 11:13			0.80
2/24/23 11:24		0.07	0.29
2/24/23 11:28		1.50	6.56
3/7/23 21:23		0.30	1.31
3/20/23 0:16	3/20/23 0:27	0.18	0.80
3/23/23 8:30	3/23/23 8:35	80.0	0.36
4/16/23 12:20		1.15	5.03
4/16/23 13:15			0.15
4/16/23 13:17			0.58
4/16/23 13:25			4.37
4/27/23 18:25			1.75
4/27/23 19:23			0.22
4/28/23 9:03	4/28/23 9:08	80.0	0.36
4/28/23 9:22	4/28/23 9:28	0.10	0.44
5/2/23 7:25	5/2/23 7:55	0.50	2.19
5/9/23 13:01	5/9/23 13:07	0.10	0.44
5/22/23 22:54			0.36
5/23/23 16:39			1.02
5/28/23 12:06		<u> </u>	1.46
5/28/23 12:33			2.33
6/5/23 14:38	6/5/23 14:46	0.13	0.58
6/8/23 9:20	6/8/23 9:43	0.38	1.68
6/8/23 9:43	6/8/23 9:55	0.20	0.87
6/8/23 9:55	6/8/23 10:11	0.27	1.17
6/8/23 10:11	6/8/23 10:31	0.33	1.46
6/8/23 10:31	6/8/23 12:43	2.20	9.62
6/8/23 12:43	6/8/23 12:52	0.15	0.66
6/8/23 12:52	6/8/23 13:02	0.17	0.73
6/8/23 13:02	6/8/23 13:47	0.75	3.28
6/8/23 13:47	6/8/23 14:30	0.72	3.13
6/8/23 14:30	6/8/23 14:42	0.20	0.87
6/8/23 17:20	6/8/23 17:57	0.62	2.70
6/8/23 17:57	6/8/23 18:00	0.05	0.22
6/15/23 11:50	6/15/23 11:55		0.36
6/15/23 12:07	6/15/23 12:39	0.53	2.33

Start Time	End Time	Duration (Hr)	VOC Emissions (lbs)
6/15/23 14:09	6/15/23 14:10	0.02	0.07
6/19/23 17:59	6/19/23 19:07	1.13	4.95
6/19/23 19:22	6/19/23 19:59	0.62	2.70
6/19/23 20:17	6/19/23 20:29	0.20	0.87
6/19/23 20:29	6/19/23 21:29	1.00	4.37
6/21/23 1:58	6/21/23 2:10	0.20	0.87
6/21/23 2:11	6/21/23 2:23	0.20	0.87
6/21/23 2:40	6/21/23 2:45	0.08	0.36

Emissions are based on vapor displacement calculations

Source of the emissions are from the creosote blending tanks.

ATTACHMENT 2 - PERIODIC REPORT INFORMATION

This Attachment provides all information required under 40 CFR §63.1368, §63.1363, §63.146, and the 40 CFR Part 63 General Provisions. Information is organized by regulatory reference. Regulatory requirements for this periodic report are listed below in italics, followed by Koppers' comments addressing each element or providing the required information.

40 CFR §63.1368 – PAI MACT PERIODIC REPORTING PROVISIONS

§63.1368(g)(2). Content of periodic report. The owner or operator shall include the information in paragraphs (g)(2)(i) through (xii) of this section, as applicable.

§63.1368(g)(2)(i). Each Periodic report must include the information in §63.10(e)(3)(vi)(A) through (M) of subpart A of this part, as applicable.

Koppers Comments: The periodic report information required by §63.1368(g)(2)(i) is provided in Table 2-1

TABLE 2-1. PERIODIC REPORT INFORMATION IN §63.10(E)(3)(VI)(A) THROUGH (M) - "SUMMARY REPORT---GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE"

Reg. Reference	Description	Required Information
§63.10(e)(3)(vi)(A	The company name and address of the affected source;	Koppers, Inc. 3900 South Laramie Avenue Stickney, Illinois 60650
§63.10(e)(3)(vi)(B)	An identification of each hazardous air pollutant monitored at the affected source;	Hazardous air pollutants monitored are: Creosote (which consists most of polycyclic organic matter)
§63.10(e)(3)(vi)(C)	The beginning and ending dates of the reporting period;	January 1, 2023 through June 30, 2023

Reg. Reference	Description	Required Information
§63.10(e)(3)(vi)(D)	A brief description of the process units;	The PAI process units consist of three creosote blend tanks, specifically Tanks 301, 302, 303.
§63.10(e)(3)(vi)(E)	The emission and operating parameter limitations specified in the relevant standard(s);	Emission limitations required at §63.1362 is 98% reduction of HAPs. Operating parameter limitations required at §63.1366 are listed in Attachment 3.
§63.10(e)(3)(vi)(F)	The monitoring equipment manufacturer(s) and model number(s);	Tar Oxidizer temperature monitor: Lesman Type K
§63.10(e)(3)(vi)(G)	The date of the latest CMS certification or audit;	Tar Oxidizer temperature monitor: 12-6-2022
§63.10(e)(3)(vi)(H)	The total operating time of the affected source during the reporting period;	This information is provided in Attachment 3.
§63.10(e)(3)(vi)(I)	An emission data summary;	This information is provided in Attachment 3.
§63.10(e)(3)(vi)(J)	A CMS performance summary;	This information is provided in Attachment 3.
§63.10(e)(3)(vi)(K)	A description of any changes in CMS, processes, or controls since the last reporting period;	No changes in this reporting period.
§63.10(e)(3)(vi)(L)	The name, title, and signature of the responsible official who is certifying the accuracy of the report; and	This information is provided on the signature page of this letter.
§63.10(e)(3)(vi)(M)	The date of the report.	This information is provided on the signature page of this letter.

§63.1368(g)(2)(ii). If the total duration of excess emissions, parameter exceedances, or excursions for the reporting period is 1 percent or greater of the total operating time for the reporting period, or the total continuous monitoring system downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the Periodic report must include the information in paragraphs (g)(2)(ii)(A) through (D) of this section.

Koppers Comments: This information is provided in Attachment 3.

§63.1368(g)(2)(iii). For each vapor collection system or closed vent system with a bypass line subject to §63.1362(j)(1), records required under §63.1366(f) of all periods when the vent stream is diverted from the control device through a bypass line. For each vapor collection system or closed vent system with a bypass line subject to §63.1362(j)(2), records required under §63.1366(f) of all periods in which the seal mechanism is broken, the bypass valve position has changed, or the key to unlock the bypass line valve was checked out.

Koppers Comments: Koppers elected not to meet the pollution prevention alternative requirement under §63.1362(g) and therefore HAP and VOM factors under 63.1366(f) are not applicable.

§63.1368(g)(2)(iv). The information in paragraphs (g)(2)(iv)(A) through (D) of this section shall be stated in the Periodic report, when applicable.

- (A) No excess emissions.
- (B) No exceedances of a parameter.
- (C) No excursions.
- (D) No continuous monitoring system has been inoperative, out of control, repaired, or adjusted.

Koppers Comments: There are no excursions and no continuous monitoring system has been inoperative, out of control, repaired, or adjusted.

§63.1368(g)(2)(v). For each storage vessel subject to control requirements:

- (A) Actual periods of planned routine maintenance during the reporting period in which the control device does not meet the specifications of §63.1362(c)(5); and
- (B) Anticipated periods of planned routine maintenance for the next reporting period.

Koppers Comments: Not applicable – no storage vessels at this PAI process unit is subject to control requirements. Tanks 301, 302, and 303 are process vessels, not storage vessels.

§63.1368(g)(2)(vi). For each PAI process unit that does not meet the definition of primary use, the percentage of the production in the reporting period produced for use as a PAI.

Koppers Comments: Not applicable – The only PAI process unit is the creosote process unit and this PAI process unit meets the definition of primary use as stated in the NOCSR.

§63.1368(g)(2)(vii). [Reserved]

§63.1368(g)(2)(viii). Updates to the corrective action plan.

Koppers Comments: A corrective action plan is required under §63.1368(e)(6) for fabric filters monitored with bag leak detectors. Since there are no fabric filters monitored with bag leak detectors in the affected source, the corrective action plan requirements are not applicable to Koppers.

§63.1368(g)(2)(ix). Records of process units added to each process unit group, if applicable.

Koppers Comments: Koppers has not elected to develop process unit groups under the PAI MACT. Therefore, process unit group records are not applicable.

§63.1368(g)(2)(x). Records of redetermination of the primary product for a process unit group.

Koppers Comments: The PAI process unit produces a single pesticide active ingredient which is creosote. Therefore, process unit group records are not applicable.

§63.1368(g)(2)(xi). For each inspection conducted in accordance with §63.1366(h) (2) or (3) during which a leak is detected, the records specify in §63.1366(h)(4) must be included in the next Periodic report.

Koppers Comments: This information is provided in Attachment 4

§63.1368(g)(2)(xii). If the owner or operator elects to comply with the provisions of §63.1362(c) by installing a floating roof, the owner or operator shall submit the information specified in §63.122(d) through (f)as applicable. References to §63.152 in §63.122 shall not apply for the purposes of this subpart.

Koppers Comments: Koppers did not elect to install a floating roof to comply with the storage tank requirements. Therefore, the information specified in §63.122(d) through (f) is not required to be included in this report.

§63.1368(h). Notification of process change.

§63.1368(h)(1). Except as specified in paragraph (h)(2) of this section, whenever a process change is made, or any of the information submitted in the Notification of Compliance Status report changes, the owner or operator shall submit the information specified in paragraphs (h)(1)(i) through (iv) of this section with the next Periodic report required under paragraph (g) of this section. For the purposes of this section, a process change means the startup of a new process, as defined in §63.1361.

Koppers Comment: There have been no process changes in this reporting period.

§63.1368(j). Reports of equipment leaks. The owner or operator of an affected source subject to the standards in §63.1363, shall implement the reporting requirements specified in §63.1363(h). Copies of all reports shall be retained as records for a period of 5 years, in accordance with the requirements of §63.10(b)(1) of subpart A of this part.

Koppers Comments: This information is provided in Attachment 4

§63.1368(I). Reports of heat exchange systems. The owner or operator of an affected source subject to the requirements for heat exchange systems in §63.1362(f) shall submit information about any delay of repairs as specified in §63.104(f)(2) of subpart F of this part, except that when the phrase "periodic reports required by §63.152(c) of subpart G of this part" is referred to in §63.104(f)(2) of subpart F of this part, the periodic reports required in paragraph (g) of this section shall apply for the purposes of this subpart.

Koppers Comments: Not applicable - there are no heat exchange systems in the creosote processing unit.

40 CFR §63.1363 - EQUIPMENT LEAK REPORTING

§63.1363(e)(5)(iii). The owner or operator shall determine every 6 months if the overall performance of total valves in the applicable group of processes is less than 2 percent leaking valves and so indicate the performance in the next Periodic report.

Koppers Comments: There were no leaking valves during this reporting period.

§63.1363(e)(5)(vi). Semiannual reports. In addition to the information required by paragraph (h)(3) of this section, the owner or operator shall submit in the Periodic reports the information specified in paragraphs (e)(5)(vi)(A) and (B) of this section.

- (A) Valve reassignments occurring during the reporting period, and
- (B) Results of the semiannual overall performance calculation required by paragraph (e)(5)(iii) of this section.

Koppers Comments: No valves were reassigned or leaking during the reporting period.

§63.1363(h)(3). Periodic reports. The owner or operator of a source subject to this section shall submit Periodic reports.

§63.1363(h)(3)(i). A report containing the information in paragraphs (h)(3)(ii), (iii), and (iv) of this section shall be submitted semiannually. The first Periodic report shall be submitted no later than 240 days after the date the Notification of Compliance Status report is due and shall cover the 6-month period beginning on the date the Notification of Compliance Status report is due. Each subsequent Periodic report shall cover the 6-month period following the preceding period.

§63.1363(h)(3)(ii). For equipment complying with the provisions of paragraphs (b) through (g)of this section, the Periodic report shall contain the summary information listed in paragraphs (h)(3)(ii)(A) through (L) of this section for each monitoring period during the 6-month period.

Koppers Comments: The results of the LDAR monitoring are reported in Attachment 4.

§63.1363(h)(3)(iii). For owners or operators electing to meet the requirements of §63.178(b) of subpart H of this part, the Periodic report shall include the

information listed in paragraphs (h)(3)(iii)(A) through (E) of this section for each process.

Koppers Comments: Koppers has not chosen to use the alternative emission limitations in §63.178, the information in §63.178(h)(3)(iii)(A) through (E) is not required.

§63.1363(h)(3)(iv) Any change in the information submitted under paragraph (h)(2) of this section shall be provided in the next Periodic report.

Koppers Comments: No changes to information provided under paragraph (h)(2).

40 CFR §63.146 – Wastewater Reporting

§63.1362 (d) Wastewater. The owner or operator of each affected source shall comply with the requirements of §§63.132 through 63.147, with the differences noted in paragraphs (d)(1) through (16) of this section for the purposes of this subpart.

§63.1362 (d)(6) When the Periodic report requirements contained in §63.152(c) of subpart G of this part are referred to in §§63.146 and 63.147 of subpart G of this part, the Periodic report requirements contained in §63.1368(g) shall apply for the purposes of this subpart.

§63.146(c). For each waste management unit that receives, manages, or treats a Group 1 wastewater stream or residual removed from a Group 1 wastewater stream, the owner or operator shall submit as part of the next Periodic Report required by §63.152(c) of this subpart the results of each inspection required by §63.143(a) of this subpart in which a control equipment failure was identified. Control equipment failure is defined for each waste management unit in §§63.133 through 63.137of this subpart. Each Periodic Report shall include the date of the inspection, identification of each waste management unit in which a control equipment failure was detected, description of the failure, and description of the nature of and date the repair was made.

Koppers Comments: Not applicable – no Group 1 wastewater stream at the creosote processing unit.

§63.146(d). Except as provided in paragraph (f) of this section, for each treatment process used to comply with §63.138(b)(1), (c)(1), (d), (e), (f), or (g), the owner or

operator shall submit as part of the next Periodic Report required by §63.152(c) the information specified in paragraphs (d)(1), (2), and (3) of this section for the monitoring required by §63.143(b), (c), and (d).

Koppers Comments: No treatment processes are used for PAI wastewater. Therefore, this provision is not applicable.

§63.146(e). Except as provided in paragraph (f) of this section, for each control device used to comply with §§63.133 through 63.139 of this subpart, the owner or operator shall submit as part of the next Periodic Report required by §63.152(c) of this subpart the information specified in either paragraph (e)(1) or (e)(2) of this section.

§63.146(e)(1). The information specified in table 20 of this subpart, or

Koppers Comments: Not applicable - No affected wastewater stream.

§63.146(e)(2). If the owner or operator elects to comply with §63.143(e)(2) of this subpart, i.e., an organic monitoring device installed at the outlet of the control device, the owner or operator shall submit the monitoring results for each operating day during which the daily average concentration level or reading is outside the range established in the Notification of Compliance Status or operating permit.

Koppers Comments: Not applicable - No affected wastewater stream.

§63.146(g). If an extension is utilized in accordance with §63.133(e)(2) or §63.133(h) of this subpart, the owner or operator shall include in the next periodic report the information specified in §63.133(e)(2) or §63.133(h).

Koppers Comments: Not applicable – No affected wastewater stream.

40 CFR §63.10 - GENERAL PROVISIONS PERIODIC REPORTING

§63.10(e)(3). Excess emissions and continuous monitoring system performance report and summary report.

§63.10(e)(3)(i). Excess emissions and parameter monitoring exceedances are defined in relevant standards. The owner or operator of an affected source required to install a CMS by a relevant standard shall submit an excess emissions and continuous monitoring system performance report and/or a summary report to the Administrator semiannually...

Koppers Comments: The summary report information is included in Table 2-1.

§63.10(e)(3)(vii). If the total duration of excess emissions or process or control system parameter exceedances for the reporting period is less than 1 percent of the total operating time for the reporting period, and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report shall be submitted, and the full excess emissions and continuous monitoring system performance report need not be submitted unless required by the Administrator.

Koppers Comments: The excess emissions and CMS performance reports are included in Attachments 1 and 3.

§63.10(e)(3)(viii). If the total duration of excess emissions or process or control system parameter exceedances for the reporting period is 1 percent or greater of the total operating time for the reporting period, or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, both the summary report and the excess emissions and continuous monitoring system performance report shall be submitted.

Koppers Comments: The excess emissions and CMS performance reports are included in Attachments 1 and 3.

ATTACHMENT 3 - PERIODIC REPORT RECORDS

CMS Malfunction Summary

Repairs/Adjustment to CMS	()(11) 63,10(C)(12)		
3	Corrective Action Taken 63-10(C)(11)		
Caused or may have caused excess	emissions?		
Duration	(hours)		
	Malfunction Description 63-10(CX10)		
	Equipment Description	None during the reporting period	
	Date		

PAI MACT Periodic Report

Records of PAI Process Operating Hours Under §63.10(e)(3)(vi)(H) & 63.10(c)(13)

Date	January 1, 2023 through June 30, 2023
Creosote Process Unit	712.5

PAI MACT Periodic Report

Control System Performance Summary Required Under §63.10(e)(3)(vi)(J)

	Downtime Hours
Control System Downtime Causes	
Monitoring equipment malfunctions	0
Nonmonitoring equipment malfunctions	23.75
QA/QC calibrations	0
Other known causes (power failures)	0
Other unknown causes	0.00
Total Control System Downtime for Reporting Period (hr)	23.75
Control System Downtime (% of total operating time)	3.3%

Total operating time for reporting period:

Creosote Processing Unit Total:

712.5 hours

Emissions Data Summary Under §63.10(e)(3)(vi)(I)

Total dura	Total duration of excess emissions:	23.75	hours % of total operating time
Duration of excess emissions due to:			
Startup/shutdc	Startup/shutdown 63.10(c)(7)	0.0	hours
Control equip	Control equipment problems	23.75	hours
Process problems	ems	0.0	hours
Other known causes	causes	0.0	hours
Other unknown causes	wn causes	0.0	hours

PAI MACT Periodic Report Excess Emissions and CMS Performance Report

CMS Information Summary

Parameter	Tar Thermal Oxidizer
Excess Emissions Duration (hours)	23.75
Parameter Exceedances (% of total operating time)	0.7%
Excursions (% of total operating time)	0.0%
CMS Downtime (% of total operating time)	0.0%

Total CMS downtime includes the duration of power failures plus monitoring

Duration of Excursions Required Under §63.1368(g)(2)(ii)(B)

Parameter	Tar Thermal Oxidizer
Duration of Excursions (hours)	0.00

Monitoring Data Required Under §63.1368(g)(2)(ii)(D)

When a continuous monitoring system is used, the information listed in \$63.10(c)(5) through (13) of subpart A is required. The applicable information is provided below.

Listing of Inoperative CMS Periods Required Under §63.10(c)(5)

period
reporting
None

(c)(6) The date and time identifying each period during which the CMS was out of control, as defined in §63.8(c)(7);

None during reporting period

PAI MACT Periodic Report

Control Device Operating Parameter Exceedances

The following information is provided regarding the operating parameter exceedances.

Information,

Daily average values of monitored parameters for all operating days when the average values were outside the ranges established in the Notification of Compliance Status Report (NCS) §63.1368(g)(2)(ii)(A)

Operating logs and operating scenarios for all operating days when the values are outside the levels established in the NCS. §63.1368(g)(2)(ii)(C)

The specific identification of each time period of parameter monitoring exceedances that occurs during SSM events. §63.10(c)(7)

§63.10(c)(8)

The specific identification of each time period of parameter monitoring exceedances that occurs during periods other than SSM events.

Operating days when the average values were outside the ranges established in the NCS.

	perating days we	וכנו ונוב אגניאגי ג	AIRCS WEIL DEISING	Decading days when the average values were decaded.	
				INTERNITION WHENCE	
Parameter Exceeded	Start Time	End Time	Block Average (F)	Value (F)	Operating Scenario
	2/2/23 15:45	2/2/23 18:15	1138	1350	Not applicable
Tar TO Temperature	20202 17:00	1 2/23/23 19:15	463	200	
	2020				

PAI MACT Periodic Report Control Device Operating Parameter Exceedances

The following pages provide information regarding the operating parameter exceedances.

Information Reg.

Intermation:

If the total duration of excess emissions, parameter exceedances, or excursions for the reporting period is 1 percent or greater of the total operating time for the reporting period, or the total continuous monitoring system downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the Periodic report must include the information in paragraphs (g)(2)(ii)(A) through (D) of this section.

§63.1368(g)(2)(ii)(A) 15-minute values of monitored parameters for all operating

days when the average values were outside the ranges established in the NCS.

Dates For Which 15-minute Values Are Provided

ich 15-minute Values An	e Provided
Date	15-Minute Values
02-Feb-23 15:45:00	1125.8
02-Feb-23 16:00:00	629.1
02-Feb-23 16:15:00	848.8
02-Feb-23 16:30:00	1090.1
02-Feb-23 16:45:00	1328.3
02-Feb-23 17:00:00	1404.6
02-Feb-23 17:15:00	952.6
02-Feb-23 17:30:00	587.2
02-Feb-23 17:45:00	828.6
02-Feb-23 18:00:00	1059.2
02-Feb-23 18:15:00	1310.2
02-Feb-23 18:30:00	1409.2
02-Feb-23 18:45:00	1406.5
02-Feb-23 19:00:00	1408.2
02-Feb-23 19:15:00	1407.4
02-Feb-23 19:30:00	1406.0

Date	15-Minute Values
23-Feb-23 17:00:00	446.4
23-Feb-23 17:15:00	464.5
23-Feb-23 17:30:00	471.8
23-Feb-23 17:45:00	474.1
23-Feb-23 18:00:00	477.1
23-Feb-23 18:15:00	474.6
23-Feb-23 18:30:00	437.8
23-Feb-23 18:45:00	433.8
23-Feb-23 19:00:00	464.2
23-Feb-23 19:15:00	470.9

ATTACHMENT 4 - LDAR RESULTS

PAI - LDAR Testing Summary for January 2023 through June 2023

18-Aug-20	Valves in gas/ liquid s	Valves in gas/vapor or light liquid service	Pumps in light liquid service	liquid service	Connectors in gas/vapor or light liquid service	gas/vapor or I service	Agitators in gas/vapor or light liquid service	vapor or light ervice	Compressors	SSOrs 1
LDAR Test Date Monitored	Monitored	Leakers	Monitored	Leakers	Monitored Leakers	Leakers	Monitored	Leakers	Monitored Leakers	Leakers
Totals:	=======================================	0	0	0	45	0	0	0	AN	A'A
Percent Leakers:		0.0%	0.0%	%	0.0%	%	0.0%	%	NA	
			Control of the contro	dinima of the mean	wine neriod					

The process did not contain any compressors requiring monitoring during the reporting period.

Compliance Monitoring Results for Pressure Relief Devices in Gas and Vapor Service

								_
Result Value (ppmv)	4	4	4	4	4	4	4	4
Tag ID	2002a	2002b	2011a	2011b	2022a	2022b	2505a	XX-4a
Date	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023

Attachment C Creosote Blending Emissions Calculations Response to Violation Notice A-2023-00162 Koppers Inc.

Creosote Charging Emission Calculations Batch emission estimates from 40 CFR 63.2460(b) are provided below: Emissions from Charging (Vapor Displacement) - 40 CFR 63.1257(d)(2)(i)(A)

$$E = \frac{(V)}{(R)(T)} x \sum_{i=1}^{n} (P_i)(MW_i)$$
 (Eq.11)

Where:

E=mass of VOM emitted

V=volume of gas displace from the vessel

R=ideal gas las constant

T=temperature of the vessal vapor space; absolute

P_i=partial pressure of individual VOM

MW_i=molecular weight of the individual VOM

VOM Partial Pressure Calculations for Charging/Transfering Steps

The partial pressure of HAP is calculated using Raoult's Law as shown below. Pure component vapor pressures are estimated using the Antoine Equation.

P_{VOM}=X_{VOM}*P^{sat}

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. 3	(L*atm/(mol*K))	(8)	S.O.>	(atm)	Wox	(atm)	(g/mole)	(8)	(q _I)	(lb/hr)
										02.0
174130 06	0.082057	338.7	NSR	0.000662	0.712975	0.0005	160.12	4/3.2	1.04	70.0
1/4120.00	0.005007					0000		0 1000	7.44	07.0
17/130 96	7500800	366.5	Creosote	0.011	0.287025	0.0033	1//	33D1.9	1.41	2.70
1/4120.00	0.0200.0	2						1 1 1 1 1 1 1	74.0	4 23
				Tetal	Total Charging Emissions of	ILIO SUCISSIC	liring enisode (2 hours)	(Z hours):	0.450 0.450	77.6

Total Charging Emissions during episode (2 hours): 8.45 | 4.2 Note 1 - A conservative creosote vapor pressure of 0.168 psia (SDS) was used for this calulation. Other vapor pressure estimates show a lower vapor pressure.

Attachment D

Startup, Shutdown, and Malfunction Plan, November 2020 (Revision 03)

Response to Violation Notice A-2023-00162

Koppers Inc.



Koppers, Inc.

Stickney, IL

Startup, Shutdown, and Malfunction Plan

Revision 03

November 2020

Environmental Resources Management

700 W. Virginia Street, Ste. 601 Milwaukee, WI 53204 (414) 289-9505 www.erm.com

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		7701111 014110 01012111 (0112)	
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1.0 SCOPE AND PURPOSE

The purpose of this plan is to document a Startup, Shutdown and Malfunction (SSM) Plan for equipment at the Koppers, Inc (Koppers) facility in Stickney, Illinois. The Crude Tar Distillation process, the Modified Pavement Sealer Base process and the Type A Carbon Pitch Tanks within the Koppers facility are subject to the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON MACT), 40 CFR Part 63, Subpart FFFF. Section 63.2540 of the MON MACT requires a facility to develop and implement an SSM Plan to document the procedures for operating equipment during such periods to minimize HAP emissions.

As a note, 63.2525(j) of the MON MACT states that an SSM Plan is not required for Group 2 emissions points, unless those emission points are used in an emissions average. While subject to the MON MACT, the Modified Pavement Sealer Base process has no Group 1 emission points as defined in the MON MACT nor emission points used in emissions averaging. Therefore, no SSM Plan content is required for this process.

The purpose of the SSM Plan is to:

- Ensure that at all times the process equipment, including air pollution control devices, is operated and maintained in accordance with good air pollution control practices for minimizing emissions.
- Ensure that Koppers is prepared to correct malfunctions as soon as practicable in order to minimize excess emissions.

The SSM Plan summarizes the basic approach to startup, shutdown, and malfunctions as follows:

- Provide general instructions for proper start up or shutdown of equipment or operations while minimizing pollutant emissions.
- Provide the approach for operators to correct malfunctions as soon as
 possible after their occurrence in order to minimize excess emissions of
 hazardous air pollutants (HAPs).
- Specify that operators will keep records of:
 - o The occurrence, duration, and cause of each malfunction;
 - o The occurrence and duration of each startup or shutdown;
 - Whether or not actions taken during a startup, shutdown, or malfunction are consistent with the procedures identified in the SSM Plan.

It should be noted that the occurrence (or even repeated occurrence) of any of the events listed in this plan would not cause Koppers to be out of compliance with the MACT Standards provided that the SSM Plan is followed and the events are documented as SSM events. The events included in this plan are those that will have the potential to cause excess emissions from the affected process operations or are malfunctions of the control equipment or monitoring equipment. Excess emissions are those beyond the expected, normal range of emissions from a given emission source.

This SSM Plan is effective immediately.

References:

40 CFR Part 63, Subpart FFFF, National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing (MON) 40 CFR 63.2540 Table 12 40 CFR 63.6 (e)(3)

2.0 DEFINITIONS

The definitions for startup, shutdown, and malfunction as they are applied in MON MACT, codified in §63.2550 are as follows:

Startup means:

- The setting in operation of a continuous operation for any purpose.
- The first time a new or reconstructed batch operation begins production.
- For new equipment added, including equipment required or used to comply with this subpart, the first time the equipment is put into operation; or for the introduction of a new product/process, the first time the product or process is run in equipment.
- For batch operations, startup applies to the first time the equipment is
 put into operation at the start of a campaign to produce a product that
 has been produced in the past if the steps taken to begin production
 differ from those specified in a standard batch or nonstandard batch.
- Startup does not apply when the equipment is put into operation as part
 of a batch within a campaign when the steps taken are routine
 operations.

Shutdown means:

- The cessation of operation of a continuous operation for any purpose.
- The cessation of a batch operation, or any related individual piece of equipment required or used to comply with this subpart, if the steps taken to cease operation differ from those described in a standard batch or nonstandard batch.
- Shutdown also applies to emptying and degassing storage vessels.
- Shutdown does not apply to cessation of batch operations at the end of a campaign or between batches within a campaign when the steps taken are routine operations.

Malfunction means:

- Any sudden, infrequent, and not reasonably preventable failure of air
 pollution control equipment, emissions monitoring equipment, process
 equipment, or a process to operate in a normal or usual manner which
 causes, or has the potential to cause, the emission limitations in an
 applicable standard to be exceeded.
- Failures caused all or in part by poor maintenance or careless operation are not malfunctions.

Maintenance wastewater means:

- Wastewater generated by the draining of process fluid from components in the MON MACT affected process into an individual drain system in preparation for or during maintenance activities.
- Maintenance wastewater can be generated during planned and unplanned shutdowns and during periods not associated with a shutdown.
- Examples of activities that can generate maintenance wastewater include descaling of heat exchanger tubing bundles, cleaning of distillation column traps, draining of pumps into an individual drain system, and draining of portions of the MON MACT affected process for repair.
- Wastewater from routine cleaning operations occurring as part of batch operations is not considered maintenance wastewater.

References:

40 CFR Part 63, Subpart FFFF, National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing (MON) 40 CFR 63.2540 Table 12 40 CFR 63.6 (e)(3)



3.0 PROCEDURES

3.1 SSM PLAN FOR CRUDE TAR DISTILLATION PROCESS

In the Crude Tar Distillation process, this plan will be used during a startup, shutdown, or malfunction event as defined in Section 2.0. If an SSM event occurs, the operating procedures, as well as the recordkeeping and reporting requirements outlined in this SSM Plan will be followed to ensure compliance with the MON MACT. The emission limitations of the MON MACT do not apply during SSM events if this SSM Plan is followed. However, if the source is subject to additional federal or state regulations, the reporting or recordkeeping requirements of those regulations still apply.

The Crude Tar Distillation process emissions are typically combusted in Tube Heaters 1 and 2, which utilize the fuel value of the vapors. As stated in 40 CFR 63.2550(i), a gas stream transferred for fuel value is exempt from the MON definition of a continuous process vent by the exemption in 63.107(h)(6), as referenced in 63.2550(i). Accordingly, Koppers considers the combined vent from the Crude Tar Distillation process subject to Group 1 continuous process vent requirements only when the Tube Heater(s) are not available to burn the gases as fuel. Therefore, the miscellaneous organic chemical manufacturing process unit (MCPU) for the Crude Tar Distillation process ends at the tube heaters.

When the tube heaters are not available, the process gases are routed through Fume System #2 to the #2 Fume Scrubber, then to the atmosphere. The #2 Fume Scrubber provides some level of control until the tube heaters are brought back on line or the distillation process is shut down.

3.1.1 Startup

3.1.1.1 Process Startup

Prior to starting up the Crude Tar Distillation Column, the operator(s) will confirm that the tube heaters are operational, and that vent lines are open to these units. Automated column startup procedures will then be followed.

3.1.2 Shutdown

3.1.2.1 Column Shutdown

Column operators will follow automated shutdown procedures whenever taking the column off-line. During the shutdown, all emissions will be controlled by the tube heaters.

3.1.3 Malfunctions

In the event of a malfunction that impacts the operation of the Crude Tar Distillation process or the tube heaters results in emissions being discharged to Fume System #2/Fume Scrubber #2, then directly to the atmosphere, the operator must begin the emergency shutdown procedures to put the equipment into "safe mode" (i.e. no venting). After "safe mode" is achieved, the Supervisor will determine the cause of the malfunction and identify the necessary corrective actions. During a malfunction shutdown, the plant will minimize HAP emissions by one of the following methods:

- Vent emissions to the tube heaters, provided these units are operational;
- Route emissions through the #2 Fume System to the #2 Fume Scrubber.

If relief valves are blown in the process, this material is automatically routed to Tank 75. Recovered material from this vessel is held until it can be recycled back into the Crude Tar Distillation Column when the process becomes operational.

In the event of a malfunction that does not impact the operation of the Crude Tar Distillation process nor results in emissions being discharged directly to the atmosphere, the operator can continue to operate the process. The cause of the malfunction will be determined and the appropriate corrective action will be taken in order to restore the process to normal operating conditions. If the equipment cannot be restored in a timely manner, the process may be shut down to repair malfunctioning equipment.

3.1.4 Monitoring Devices

The Crude Tar Distillation process routes the process vent gases to Tube Heaters 1 and 2, which utilize the gases as fuel. Therefore, there is no affected air pollution control device nor parametric monitoring device.

3.2 SSM PLAN FOR TYPE A CARBON PITCH TANKS

For the Type A Carbon Pitch Tanks (TK-41, TK-47, TK-48, TK-44, TK-46) this plan will be used during a startup, shutdown, or malfunction event as defined in Section 2.0. If an SSM event occurs, the operating procedures, as well as the recordkeeping and reporting requirements outlined in this SSM Plan will be followed to ensure compliance with the MON MACT. The emission limitations of the MON MACT do not apply during SSM events if this SSM Plan is followed. However, if the source is subject to additional federal or state regulations, the reporting or recordkeeping requirements of those regulations still apply.

The Type A Carbon Pitch Tanks are used as both storage tanks and process tanks. Koppers will charge materials into the tanks and blend to produce the final product which is stored in the same tank. During the charging and blending operations, these vessels are considered Group 1 Batch Process Vents. These vents are collected by Fume System #5 and controlled by the Pitch Thermal Oxidizer (Pitch TO). When the product is being stored, these are Group 2 Storage Tanks. There are no SSM requirements for Group 2 Storage Tanks.

3.2.1 Startup

3.2.1.1 Process Startup

Prior to blending materials in the Type A Carbon Pitch Tanks (TK-41, TK-47, TK-48, TK-44, TK-46) the operator(s) will confirm that the Pitch TO and #5 Fume System Scrubber are operational.

3.2.1.2 Thermal Oxidizer Startup

The Pitch TO start-up is primarily computer controlled. The start-up procedure is as follows:

- Make sure manual isolation valves for utilities (natural gas, instrument air, nitrogen, steam, and condensate) are in correct position. Confirm instrument air supply.
- Start control power selector and verify all instruments are powered.
- The safety shutdown interlocks must be in "normal" condition to start up the Pitch TO.

- Begin automated start-up procedure.
- Begin the system purge procedure.
- Start the oxidizer burner. If burner will not start after 3 attempts, a repurge of the oxidizer is necessary.
- Insure that oxidizer temperature is above 1350°F and fume differential pressure is at a minimum of 0.25" H₂O.
- The thermal oxidizer is now operational, and process emissions can be routed to the unit.

3.2.2 Thermal Oxidizer Shutdown

There are three main types of scheduled shutdowns for the Pitch TO: a normal shutdown, emergency automatic shutdown, and an emergency manual shutdown.

Normal Shutdown

- Prior to initiating the shut down, confirm Pitch TO is operational and ready to accept waste gas.
- Shut off the fume streams and stop any transfer to the blending tanks.
- Turn the burner off.

Emergency Automated Shutdown

When the process is shut down during an emergency automatic shutdown, the system automatically begins shutting down if any of the safety shutdown interlocks should trip. The Tar Distillation Operator must then:

 Stop any transfer to the blending tanks and reduce heat on these tanks until the Pitch TO is restarted and above the minimum operating temperature (1350° F).

Emergency Manual Shutdown

An emergency manual shutdown is started by the Tar Distillation Operator when required.

• Shut off the control power to all panel and field components.

 Stop any transfer to the blending tanks and reduce heat on these tanks until the Pitch TO is restarted and above the minimum operating temperature (1350° F).

3.2.3 Malfunctions

In the event of a malfunction that impacts the operation of the Type A Carbon Pitch Tanks, or results in emissions being discharged directly to the atmosphere, the operator must cease all material charging into the tanks. After this is achieved, the Supervisor will determine the cause of the malfunction and identify the necessary corrective actions. During a malfunction shutdown, the plant will minimize HAP emissions by one of the following methods:

- Ceasing blending operations;
- · Vent emissions to the Pitch TO, provided this unit is operational; or
- If emissions are routed to the Pitch TO and the oxidizer is not operational, the #5 Fume Scrubber will provide some control, provided the scrubber is operational.

In the event of a malfunction that does not impact the operation of the tanks or does not result in emissions being discharged directly to the atmosphere, the operator can continue to blending materials in the tanks. The cause of the malfunction will be determined and the appropriate corrective action will be taken in order to restore the process to normal operating conditions. If the equipment cannot be restored in a timely manner, the process may be shut down to repair malfunctioning equipment.

3.2.4 Monitoring Devices

Type A Carbon Pitch MCPU is controlled by the Pitch TO. The oxidizer controls HAP emissions as necessary under the MON MACT. In order to demonstrate that the thermal oxidizer is operating correctly, the facility must continuously monitor the oxidizer combustion chamber temperature to ensure that a minimum temperature of 1350° F is achieved.

To reduce the risk of monitoring device malfunctions, Koppers will do the following:

- Calibrate the thermocouple on the routine schedule recommended by the instrument manufacturers.
- Perform the routine sensor maintenance specified by the manufacturer.

In the event that the monitoring device is observed to malfunction, the operator will cease blending operations and control emissions with the #5 Scrubber. Once the oxidizer is shutdown, troubleshoot the malfunction and repair/replace the device as necessary.

Malfunction	Corrective Action
General Malfunction	Determine cause of malfunction and take appropriate measures to restore malfunctioning equipment to normal operation, if possible.
Failed thermocouple	Cease blending in the affected Pitch Tanks. Control emissions with the #5 Scrubber. Determine the cause of malfunction and take appropriate measures to restore the monitor to normal operation.

3.3 MAINTENANCE WASTEWATER

This section describes the 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).

Maintenance wastewater can be generated during cleaning operations in the Crude Tar Distillation Process, the Pavement Sealer Base process and the Type A Carbon Pitch Tanks. This generally consists of emptying process fluids from lines and equipment, wash-outs, and boil-outs.

The maintenance procedures for wastewater specify the:

- Types of process equipment or maintenance tasks that are anticipated to create wastewater during maintenance activities;
- Procedures that will be followed to properly manage the wastewater and control organic HAP emissions to the atmosphere; and
- Procedures to be followed when clearing materials from process equipment [§63.105].

Management Guidelines for Maintenance Wastewaters

Maintenance wastewaters can be generated from any piece of equipment throughout the MON MACT affected processes.

In addition to general maintenance provisions, the following procedural guidelines are intended to minimize HAP emissions to the atmosphere during clearing for maintenance activities that generate wastewater;

Equipment, Vessel Piping Drains

- Process fluids will be drained to the industrial sewer, if practicable.
- After initial draining of process fluids, equipment may be flushed with water and/or steamed to the industrial sewer.

 Accumulated condensate from steaming process vessels may be drained or flushed to the industrial sewer.

Heat Exchangers/Reboilers

- Process fluids will be transferred out of the exchanger to a storage tank, back to the process, or
- Volatile materials may be removed by steaming to the industrial sewer or flushing with clean water to the industrial sewer.

Pumps and Filter Housing Contents

- Pump contents may be purged back into the process, or drained to the industrial sewer via hard-pipe connection or hose to reclaim material to the extent practicable.
- If pump contents are drained to grade, they should be flushed with water to the industrial sewer.

Storage Tanks

- Tank contents will be transferred to another tank if practicable in order to maximize material recovery.
- Tanks may be drained to the industrial sewer via hard-pipe connection or hose.
- After initial draining of process fluids, vessels may be flushed with water to the industrial sewer, frac tank, or other container.
- Accumulated condensate from steaming process vessels may be stored in appropriate storage vessels.

Instrumentation/Control Valve Loop

 Instrumentation or control valve loops will be drained/purged into the process system, to the extent practicable, or collected in containers for returned to the industrial sewer as appropriate to minimize emissions.

4.0 RECORDKEEPING

4.1 GENERAL RECORDS

A copy of the current SSM Plan and any superseded versions will be maintained at the facility for a period of 5 years following each revision to the SSM Plan. The current version will be maintained at the site for at least 5 years after the life of the affected source or until the affected source is no longer subject to the MON MACT rule (40 CFR 63, Subpart FFFF). The Environmental Department will approve any revisions to the SSM Plan, or to procedures contained in it, before they are incorporated into a revision of the document.

For each startup, shutdown, or malfunction incident that results in excess emissions, information necessary to demonstrate compliance with the provisions presented in this SSM Plan will be documented. Figures 1, 2, 3 and 4 provide flow diagrams of the forms to complete and actions to take for SSM events. Documentation of the SSM events will take the form of a "checklists" that confirms conformance with the startup, shutdown, and malfunction plan and describes the actions taken for that event. Checklists are provided as part of this plan as Form #1 for the continuous temperature monitoring device for the thermal oxidizer and Form #2 for Crude Tar Distillation and the Type A Carbon Pitch Tanks.

The checklists, or their electronically-maintained equivalents, will serve as the records documenting the occurrence and duration of malfunctions of the flame monitoring system and each startup, shutdown, or malfunction of operation and each malfunction of air pollution control equipment. Files of these records will be kept readily available for inspection and review. Any SSM event shall be reported to the Environmental Department for subsequent review of the details to ensure that the SSM Plan was followed and any required reporting to the EPA is addressed.

Any actions taken during an SSM event that are consistent with this SSM Plan will be recorded in order to demonstrate that the procedures specified in this document were followed. This is fulfilled by using the SSM Checklist provided as Form #1 and Form #2. Repairs will be tracked using existing facility programs to document scheduled and actual repair dates and the status of specific repairs.

Any actions taken during an SSM event that potentially are not consistent with the procedures specified in this SSM Plan will be recorded using the Form #3. This form must be completed immediately following the event.

For each startup, shutdown, or malfunction, information necessary to demonstrate compliance with the provisions presented in this SSM Plan shall be documented [as specified at §63.998(c)(1)(ii)(D) through (G); 63.998(d)(3(ii) and 63.2520(e)(4)]. The required information includes:

- Occurrence and duration of each startup, shutdown, or malfunction of process operations or air pollution control equipment.
- Occurrence and duration of each malfunction of continuous monitoring systems.
- When excess emissions occur, were the procedures in the SSM Plan followed and, if not, then what actions were taken to respond to SSM event.

Information related to the startup, shutdown or malfunction of the MON MACT affected units will be recorded on Form #1 and #2. If the actions taken are not consistent with the SSM Plan or the event is not identified in the SSM Plan, so note when completing Form #3.

4.2 RECORDKEEPING FOR MALFUNCTIONS OF THE CONTINUOUS MONITORING SYSTEM (CMS)

Malfunctions of the continuous monitoring system that records the thermal oxidizer temperature are covered on Form #3. The required information includes:

- The date and time identifying each period that the CMS was inoperative;
- The nature and cause of any malfunction (if known);
- The corrective action taken or preventive measures adopted;
- The nature of repairs or adjustments to the CMS that was; and
- Indication if the SSM Plan was followed when dealing with the malfunctioning CMS.

5.0 REPORTING

5.1 COMPLIANCE REPORTS

The MON MACT require that SSM reports be provided as part of the compliance report specified at 63.2520(e). If an SSM event occurs during this reporting period that results in excess emissions, an SSM report will be submitted as part of the compliance report to the appropriate regulatory agency for that reporting period. The report will contain information describing how the actions taken during the SSM event were consistent with the SSM Plan, or documentation of actions taken that are not consistent with the SSM Plan and include a brief description of each malfunction.

5.2 STATE REPORTING

In addition to the federal SSM reporting requirements of the MON MACT, Illinois EPA has reporting requirements for equipment malfunctions with which the facility must comply. The reader is referred to the appropriate construction permit and operating permit for reporting requirements.

6.0 RESPONSIBILITIES

The Environmental Manager will be responsible for reviewing the SSM events and notifying the appropriate authorities, if necessary.

7.0 REVISIONS TO THE PLAN AND RECORDS RETENTION REQUIREMENTS

The Environmental Manager will, for each SSM event, review the actions taken in response to the event and the details provided in the forms to determine whether the procedures identified in the SSM Plan were followed. The Environmental Manager will also determine if the SSM Plan was adequate for the event. If the SSM Plan was not adequate to cover the event, the Plan shall be revised. When evaluating the SSM Plan, the following criteria shall be considered:

- addresses how excess emissions are to be managed for typical startup, shutdown, or malfunction events;
- provides for the operation of equipment during SSM events in a manner consistent with good engineering and air pollution control practices for minimizing emissions;
- provides adequate steps for correcting malfunctioning air pollution control equipment as quickly as practical.

If the SSM Plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the plan shall be revised within 45 days of the event to include procedures for similar malfunction events (40 CFR §63.6(e)(3)(viii)). Form #4 is provided in this plan to track revisions to the plan.

The current and any superseded SSM Plans shall be maintained on-site as specified in \$63.6(e)(3)(v). \$63.6(e)(3)(v) requires that superseded plans remain at the facility for a period of 5 years following their revision.

8.0 ATTACHMENTS

FIGURE 1 - SSM EVENT DOCUMENTATION FLOW DIAGRAM

FIGURE 2 - SSM EVENT WITH OXIDIZER TEMPERATURE MONITORING SYSTEM

FIGURE 3 – SSM EVENT FOR CRUDE TAR DISTILLATION, THERMAL OXIDIZER, OR TYPE A CARBON PITCH TANKS

FORM 1 - OXIDIZER TEMPERATURE CONTINUOUS MONITORING SYSTEM (CMS) - MALFUNCTION CHECKLIST & LOG

FORM 2 - STARTUP, SHUTDOWN AND MALFUNCTION CHECKLIST & LOG FOR CRUDE TAR DISTILLATION, THERMAL OXIDIZER, OR TYPE A CARBON PITCH TANKS

FORM 3 - SSM EVENT REPORT

FORM 4 - MACT SSM PLAN REVIEW AND REVISION LOG

Figure 1 - SSM Event Documentation Flow Charts

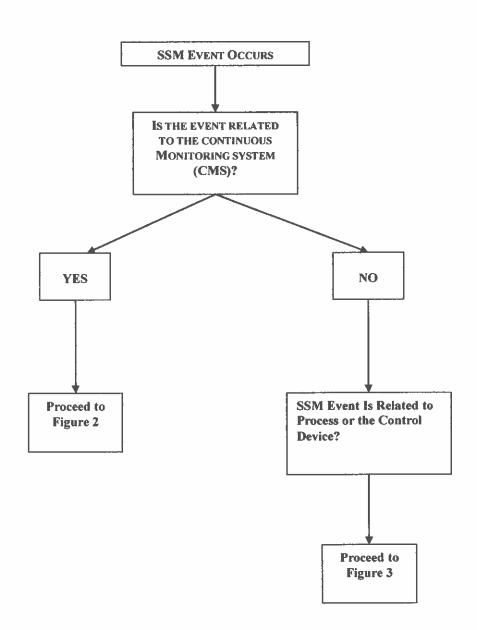


Figure 2 – SSM Event with Monitoring System

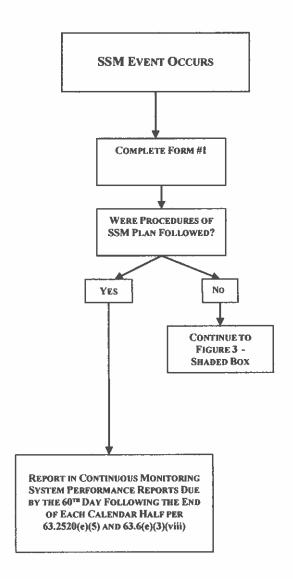


Figure 3
SSM Event for Chemical Processes and Air Pollution Control Devices

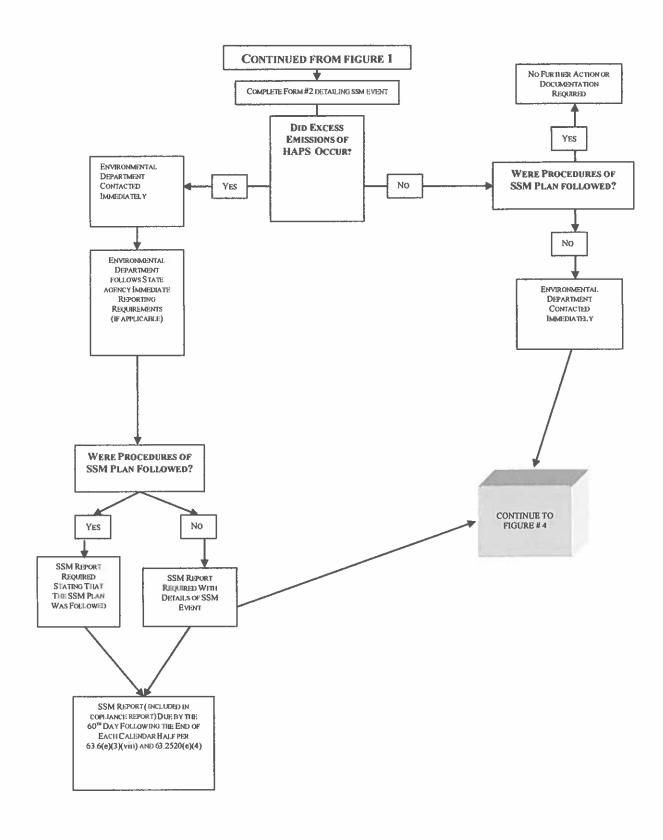


Figure 4
SSM Event Documentation When SSM Plan Was Not Followed



FORM # 1 - MONITORING SYSTEM (CMS) -MALFUNCTION CHECKLIST & LOG

SSM Plan Followed?	Yes / No	Yes / No	Yes / No
Page Describe Corrective actions taken, including repairs or adjustments to monitoring system			
Nature and Cause of Malfunction			
Date/Time Activity Ends	Env. Dpt. Only Duration (Hours/Minutes)	Env. Dpt. Only Duration (Hours/Minutes)	Env. Dpt. Only Duration (Hours/Minutes)
Date/Time Activity Starts	Env. L Duration (F	Env. L Duration (F	Env. L Duration (F
Activity (circle one)	Inoperative QA/QC Calibration Other Cause	Inoperative QA/QC Calibration Other Cause	Inoperative QA/QC Calibration Other Cause

FORM # 2 - STARTUP, SHUTDOWN AND MALFUNCTION CHECKLIST & LOG

					Page	of
						For Env. Dept. Use Only
, , ,	Date/Time	Date/Time		COM Die	Form 3	Duration
Activity (circle one)	Activity Starts	Activity Ends	If Malfunction, What was Cause and Corrective Action?	Followed?	(Note 1)	Hours/Minutes
Start-up		9				
Shut Down				Yes / No	Yes/No	
Malfunction						
Start-up						
Shut Down				Yes / No	Yes/No	
Malfunction						
Start-up				-		
Shut Down				Yes / No	Yes/No	
Malfunction						
Start-up				35		
Shut Down				Yes / No	Yes/No	
Malfunction						
Start-up				3	120	
Shut Down				Yes / No	Yes/No	
Malfunction						
Start-up						
Shut Down				Yes / No	Yes/No	
Malfunction						
Start-up				2		
Shut Down				Yes/No	Yes/No	
Malfunction						

Notes:
1. Form 3 required if the following occurred: Startup, Shutdown or Malfunction occurred and SSM Plan was not followed.

Form #3 - SSM Event Report

Identify the Area of the	e Event: Process	Control Device	
Date:	Shift:	Name:	
Event being reported:			
Start Up	Shutdown	Malfunction	
Please give a brief desc	ription of the event and corre	ctive actions taken:	
Time Event started:	(Date, Hour, Mi	nute)_ <u>Time Event ended:</u>	(Date, Hour, Minute)
Please describe in detail	il why the plan was not follow	ed:	

THESE FORMS MUST BE FORWARDED TO THE ENVIRONMENTAL MANAGER AFTER EACH OCCURRENCE

FORM 4 - SSM Plan Review & Revision Log

Date	Revision #	Action Taken	Initials
05/10/08	00	Original document	
	01		
10/18/19	02	Update procedures to reflect that Tar TO (TO1-4) is not used as a back up to the Tube Heaters 1 & 2, Remove PAI content since SSM no longer applies.	НМ
11/06/2020	03	Update recordkeeping to include use of the electronic SSM system.	СР
	<u> </u>		
	}		
· · · · · · · · · · · · · · · · · · ·			

Attachment E Good Operating Practices Documentation Response to Violation Notice A-2023-00162 Koppers Inc.

Identification: FWO115244 UDN-2200622 Date/Time Printed: 11/27/23 10:34:58 AM Pages/Printed By: 1 KOPPERSVFABINE Description: TAR-Y-RC CALIBRATIONS (EHS-006-TE-4729) Address: Date Created: 5/1/2022 Requested: S-PM-100093 Priority: Date Started: 5/1/2022 Order Type: ISO Supervisor: WAYNE OWENS Date Completed: 12/6/2022 Maint. Type: ELECT Technician: OSP: Elapsed Days: 220 Work Code: ISO Actual Time: 8.00 Cap X: No Job No.: Equipment ID: 50000003948 TE-4729 TEMP ELEMENT ON F-2301 (EHS-006) TE-4729 Location: 1760 Enterprise: Serial No.: Region: USA Area: Manufacturer: Facility: STICKNEY Line: Company ID: Vend. Inv: Cust. Inv: Reference: Estimated Actual Time Test Results Start Date **End Date** Done Description Assigned Step 3/11/2022 0.00 4.00 3/11/2022 JOSE REYES 1 True SHE - YEARLY AS FOUND: AS LEFT: SHE - YEARLY STEPHEN SANCHEZ 5/1/2022 5/1/2022 0.00 4.00 True 2

Identification	: FWO11524	UDN-2200621				Date/Ti	me Printed:	11/27/23 10	:36:13 AM
Description	: TAR-Y-RC	CALIBRATIONS (EH	IS-005-TE-4744)			Page	s/Printed By	: 1 KOPPE	RSVFABINE
Address	s:								
Priority	<i>r</i> :		Requested:	S-PM-100092		Da	te Created:	5/1/2022	
Order Type	: ISO		Supervisor:	WAYNE OWENS		D	ate Started:	5/1/2022	
Maint, Type	: ELECT		Technician:			Date	Completed:	12/6/2022	
Work Code	: ISO		OSP:			Ela	psed Days:	220	
Сар Х	: No		Job No.:			A	ctual Time:	8.00	
Equipment ID	: 5000000394	5 TE-4744 TEMP EI	EMENT ON F-2301 (EF	IS-005) TE-4744					
Location	i: 1760								
Serial No.				Enterprise:					
Manufacture	r:			Region: US	SA		Area:		
Company ID):			Facility: S1	FICKNEY		Line:		
Reference	1:			Vend. Inv:			Cust, Inv;		
Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results	Unit of Measure
1	True	SHE - YEARLY	JOSE REYES	3/11/2022	3/11/2022	0.00	4.00		
	AS FOUND:								
	AS LEFT:								
2	True	SHE - YEARLY	STEPHEN SANCHEZ	5/1/2022	5/1/2022	0.00	4.00		

Identification: FWO117095 UDN-2205198 Description: Troubleshoot the Tar T.O.

Date/Time Printed: 11/27/23 11:06:22 AM

Pages/Printed By: 1 KOPPERS\FABINE

Address:

Priority: Urgent Order Type: REQUEST Maint. Type: ELECT Work Code: INSPECT

Requested: on 03/28/23 03:32 AM by Supervisor: WAYNE OWENS

Date Created: 3/28/2023 Date Started: 3/28/2023 Date Completed: 4/5/2023

OSP: Job No.:

Technician:

Elapsed Days: 9 Actual Time: 4.00

Equipment 10: 50000000001 TAR PLANT TAR AREA

Location: 1760

Cap X: No

Serial No.:

Enterprise:

Region:

Area: Line:

Manufacturer: Company ID:

Facility: STICKNEY

R	eference:			Vend. Inv:			Cust. Inv:		
Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results Unit of Measure	_
1	True	Troubleshoot	STEVE FELLERS	3/28/2023	3/28/2023	0.00	2.00		
2	True	Troubleshoot	STEPHEN SANCHEZ	3/28/2023	3/28/2023	0.00	2.00		

Identification: FWO115273 UDN-2203704

Description: Troubleshoot TAR T.O.

Date/Time Printed: 11/27/23 11:07:43 AM Pages/Printed By: 1 KOPPERS\FABINE

Address:

Priority: Urgent Order Type: CM Maint. Type: ELECT Requested: Supervisor: WAYNE OWENS Technician:

OSP:

Job No.:

Date Created: 12/8/2022 Date Started: 12/8/2022 Date Completed: 12/7/2022 Elapsed Days: 0

Actual Time: 11.00

Work Code: BR Cap X: No

Equipment ID: 50000000001 TAR PLANT TAR AREA

Location: 1760

Serial No.:

Enterprise:

Manufacturer:

Region: Facility: STICKNEY Area: Line:

Company ID:

Vend. Inv:

Start Date

End Date

Estimated

Actual Time Test Re

	Reterence:			A OLIVE: ILIA					
Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results	Unit of Measure
1	True	Troubleshoot	ANDRE MARTINEZ	12/7/2022	12/8/2022	0.00	3.00		
2	True	Troubleshoot	STEPHEN SANCHEZ	12/7/2022	12/8/2022	0.00	3.00		
3	True	Troubleshoot	RAY O'NEIL	12/7/2022	12/8/2022	0.00	3.00		
4	True	Troubleshoot	CONTRACTOR	12/7/2022	12/8/2022	0.00	200		

Identification: FWO115041 UDN-2203353 Description: TAR-FSD-R&R and bench test instruments for TAR

Date/Time Printed: 11/27/23 11:08:35 AM Pages/Printed By: 1 KOPPERS\FABINE

Address:

Priority: Special Attention

Order Type: CM Maint, Type: ELECT Work Code: SD

Requested:

Supervisor: WAYNE OWENS

Technician: OSP: Job No.:

Date Created: 11/16/2022

Date Started: 11/16/2022 Date Completed: 11/21/2022 Elapsed Days: 6

Equipment ID: 50000003174 TAR THERMAL OXIDIZER

Location: 1760

Cap X: No

Serial No.: Manufacturer:

Company ID:

Enterprise:

Region: USA

Facility: STICKNEY

Area: Line:

Actual Time: 8.00

Vend. Inv:

Reference: Cust. Inv: Estimated Time Actual Time Test Results Unit of Measure Step Done Description Assigned Start Date **End Date** 1 True TAR-FSD-R&R **JOSE REYES** 11/16/2022 11/18/2022 0.00 4.00 **EDUARDO DIAZ** 2 True TAR-FSD-R&R 11/16/2022 11/16/2022 0.00 4.00

Finished Work Order Identification: FWO115234 UDN-2202645 Data/Time Printed: 11/27/23 10:21:48 AM Description: TAR THERMAL OXIDIZER VENT ANNUAL Pages/Printed By: 1 KOPPERS\FABINE Address: Date Created: 9/25/2022 Priority: Special Attention Requested: DMP100007 Date Started: 10/2/2022 Supervisor: WAYNE OWENS Order Type: PM Date Completed: 12/5/2022 Technician: Maint, Type: ELECT Elapsed Days: 65 OSP: Work Code: PM Actual Time: 0.00 Job No.: Cap X: No Equipment ID: 50000003174 TAR THERMAL OXIDIZER Location: 1760 Enterprise: Serial No.: Region: USA Area: Manufacturer: Line: Facility: STICKNEY Company ID: Vend, Inv: Cust. inv: Reference: Comments. This PM Iwas Done on the OUTAGE split labor time in mulptiple Request WOs.f the Outage Estimated Unit of Actual Time Test Results Start Date **End Date** Description Assigned Done Time Step 0.00 12/5/2022 0.00 True TAR THERMAL 10/2/2022 AND #2 FUME SYSTEM This procedure requires Electricians and Mechanics install blinds at the #1 and #2 vent systems inspect and repair automatic valves (PCV4748, V4749 & V4751) as necessary Water blast vent piping from the vent systems to the TO inlet inspect and repair velocity section as necessary Inspect and repair heat trace and insulation inspect and replace the ERV as necessary Inspect, clean, replace the flame sensor as necessary PM the E) fan Mechanic - Name __ Electrician Name:_ Date: 10/2/2022 12/5/2022 0.00 0.00 TAR THERMAL 2 True AND #2 FUME SYSTEM This procedure requires Electricians and Mechanics Install blinds at the #1 and #2 vent systems Inspect and repair automatic valves (PCV4748, V4749 & V4751) as necessary Water blast vent piping from the vent systems to the TO inlet Inspect and repair velocity section as necessary inspect and repair heat trace and insulation Inspect and replace the ERV as necessary Inspect, clean, replace the flame sensor as necessary PM the ID fan

Mechanic - Name

Identification: FWO112392 UDN-2200859

Description: Repair Tar TO fume control valve (per engineering

Date/Time Printed: 11/27/23 12:58:04 PM

Pages/Printed By: 1 KOPPERS\OTREMBIAKJW

Address:

Priority: Special Attention

Order Type: REQUEST Maint. Type: ELECT

Requested: on 03/30/22 12:49 PM by Supervisor: WAYNE OWENS

Date Created: 4/12/2022

Date Started: 4/12/2022 Date Completed: 5/4/2022

Technician: OSP: Job No.:

Elapsed Days: 23 Actual Time: 10.00

Work Code: BR Cap X: No

Equipment ID: 50000003174 TAR THERMAL OXIDIZER

Location: 1760

Serial No.:

Enterprise:

Area:

Manufacturer: Company ID:

Region: USA Facility: STICKNEY

Line:

Reference:

Vend. Inv:

Cust. Inv:

11010101							Other trial	
Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Unit of Results Measure
1	True	Repair Tar TO	RON CLAY	4/12/2022	4/12/2022	5.00	5.00	
		dept., fume valve is report	edly not					
2	True	ELEC	CTRICIAN/INSTRUME	4/12/2022	4/12/2022	5.00	5.00	

Identification: FWO120140 UDN-2207838

Description: TAR-Tar TO-

Date/Time Printed: 11/27/23 11:40:29 AM

Pages/Printed By: 1 KOPPERS\OTREMBIAKJW

Address:

Priority: Routine Order Type: REQUEST

Maint. Type: ELECT

Work Code: INSPECT Cap X: No

Requested: on 10/11/23 07:34 AM by

Supervisor: WAYNE OWENS Technician:

OSP: Job No.: Date Created: 10/12/2023

Date Started: 10/12/2023 Date Completed: 10/30/2023

Elapsed Days: 19 Actual Time: 2.00

Equipment ID: 50000013970 THERMAL OXIDIZER

Location: 1760

Serial No.:

Manufacturer:

Company ID:

Enterprise:

Region: USA

Facility: STICKNEY

Area:

Line:

Refe	rence:			Vend. Inv:			Cust. Inv:	
Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results Unit of Measure
1	True	TAR-Tar TO-	ANAS KANTAKJI		10/11/2023	0.00	1.00	
		Electrician assistance	e to help troubleshoot					
		which has shut down	n and cannot re-start.					
		ume Valve #2 Vent v	vill not open.					
2	True	TAR-Tar TO-	ELECTRICIAN/INSTRUME		10/11/2023	0.00	1.00	
		Electrician assistance	e to help troubleshoot					
		which has shut down	n and cannot re-start.					
		ume Valve #2 Vent v	vill not open.					

Identification: FWO118988 UDN-2204150

Description: 'TAR -

Date/Time Printed: 11/27/23 12:03:08 PM

Pages/Printed By: 1 KOPPERS\OTREMBIAKJW

Address:

Priority: Special Attention

Order Type: REQUEST

Maint. Type: Work Code: BR Requested: on 01/06/23 09:54 AM by

Supervisor: RALPH STORTO

OSP: Job No.:

Technician:

Date Created: 1/13/2023
Date Started: 1/13/2023

Date Completed: 7/28/2023 Elapsed Days: 197 Actual Time: 2.00

Equipment ID: 50000000001 TAR PLANT TAR AREA

Location: 1760

True

Cap X: No

Serial No.:

Enterprise:

Region:

Area:

Manufacturer: Company ID:

Facility: STICKNEY Vend. Inv:

Line: Cust. Inv:

2.00

Reference:

Step Done

1

Description

Assigned

CONTRACTOR HELM

Start Date 1/13/2023 End Date 1/13/2023 Estimated Time 2.00

Actual Time Test Results

Measure

steam leak on the Tar TO quench main

rom the header - located just East of

pots

TAR -

Identification: FWQ118394 UDN-2206313

Description: TAR-

Date/Time Printed: 11/27/23 12:09:43 PM

Pages/Printed By: 1 KOPPERS\OTREMBIAKJW

Address:

Priority: Urgent Order Type: REQUEST

Maint. Type: ELECT Work Code: INSPECT Cap X; No

Requested: on 06/19/23 09:36 PM by

Supervisor: WAYNE OWENS Technician:

> OSP: Job No.:

Date Crested: 6/21/2023

Date Started: 6/21/2023 Date Completed: 6/21/2023

Elapsed Days: 1 Actual Time: 2.00

Equipment ID: 50000003174 TAR THERMAL OXIDIZER

Location: 1760

Serial No.:

Reference:

Manufacturer: Company ID: Enterprise:

Region: USA Facility: STICKNEY

Vend. Inv:

Агеа:

Line: Cust. Inv:

Comments Power Blip from ComEd took out the whole Plant

Estimated Actual Time Test Results Start Date End Date Step Done Description Assigned **ELECTRICIAN/INSTRUME** 6/21/2023 6/21/2023 2.00 2.00 TAR-1 True

Troubleshoot Tar TO and Pitch TO get It

Identification: FWO118648 UDN-2206452

Description: Please troubleshoot the valve PV-

Date/Time Printed: 11/27/23 12:08:26 PM

Pages/Printed By: 1 KOPPERS\OTREMBIAKJW

Date Created: 6/29/2023

Address:

Priority: Routine

Order Type: REQUEST Maint. Type: ELECT

Work Code: REPAIR Cap X: No

Requested: on 06/28/23 02:16 PM by

Supervisor: WAYNE OWENS

OSP:

Job No.:

Technician:

Date Started: 6/29/2023 Date Completed: 7/11/2023

Elapsed Days: 13 Actual Time: 12.00

Equipment ID: 50000000000

Location: 1760

Serial No.: Manufacturer: Enterprise:

Region:

Facility: STICKNEY

Area: Line:

Cust Inv:

Company	ID:
Deferen	ma.

Vend, Inv:

Estimated Unit of Measure Step Done Description Assigned Start Date **End Date Actual Time Test Results** Time ANDRE MARTINEZ 6/29/2023 3.00 1 True Please 6/29/2023 3.00 4757 on the steam line to Tar TO ANAS KANTAKJI 6/29/2023 6/29/2023 3.00 3.00 True EDUARDO DIAZ 6/29/2023 3.00 3.00 6/29/2023 3 True STEPHEN SANCHEZ 6/29/2023 6/29/2023 3.00 3.00 True

Identification: FWO116333 UDN-2203000

Description: *TAR- drain drop legs on Tar TO PWG line -

Date/Time Printed: 11/27/23 12:12:33 PM

Pages/Printed By: 1 KOPPERS\OTREMBIAKJW

Date Created: 10/24/2022

Address:

Priority: Urgent

Order Type: REQUEST Maint. Type: MECH Work Code: REPAIR Requested: on 10/17/22 11:25 AM by

Supervisor: RALPH STORTO Technician:

OSP:

Job No.:

Date Started: 10/24/2022 Date Completed: 3/1/2023 Elapsed Days: 129

Elapsed Days: 129
Actual Time: 0.50

Equipment ID: 50000000001 TAR PLANT TAR AREA

Location: 1760

Cap X: No

Serial No.:

Enterprise:

Region:

Area: Line:

Manufacturer: Company ID: Reference:

Facility: STICKNEY Vend. inv:

Cust. Inv:

Comments According to the Supervisor this WO is Complete

Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results Unit of Measure
1	True	TAR- drain	MASTER MECHANIC	10/24/2022	10/24/2022	0.50	0.50	

needs to be done early AM on 10/24 -

fresh air job

Identification: FWO115655 UDN-2204149

Description: "TAR -

Date/Time Printed: 11/27/23 12:21:44 PM

Pages/Printed By: 1 KOPPERS\OTREMBIAKJW

Address:

Priority: Urgent

Order Type: REQUEST

Maint. Type: LABOR Work Code: IMPROVE Requested: on 01/06/23 09:36 AM by

Supervisor: MILTON MALLARD

Technician: OSP: Job No.:

Date Created: 1/13/2023

Date Started: 1/13/2023 Date Completed: 1/10/2023

Elapsed Days: -2 Actual Time: 5.00

Equipment ID: 50000000001 TAR PLANT TAR AREA

Location: 1760

Cap X: No

Serial No.: Manufacturer:

Company ID:

Reference:

Enterprise:

Region:

Facility: STICKNEY

Area: Line:

5.00

Vend. inv:

Cust Inv:

Comments Keystone did the work here

Step Done 1 True

Description TAR -

Assigned CONTRACTOR Start Date 1/13/2023

End Date 1/13/2023 Estimated Time 5.00

Actual Time Test Results Unit of Measure

insulate Tar TO steam quench supply

line

Identification: FWO116264 UDN-2204589

Description: "TAR -

Date/Time Printed: 11/27/23 12:14:52 PM

Pages/Printed By: 1 KOPPERS\OTREMBIAKJW

Address:

Priority: Critical

Order Type: REQUEST

Maint. Type: MECH Work Code: REPAIR Cap X: No Requested: on 02/09/23 06:46 PM by

Supervisor: RALPH STORTO

Technician:

OSP: Job No.: Date Created: 2/14/2023

Date Started: 2/14/2023 Date Completed: 2/27/2023

Elapsed Days: 14 Actual Time: 7.00

Equipment ID: 50000000001 TAR PLANT TAR AREA

Location: 1760

Serial No.:

Manufacturer:

Enterprise:

Region:

Facility: STICKNEY

Area: Line; Cust Inv:

Company ID: Facility: Reference: Vend. Inv:

Comments Work here was done by HELM

Actual Time Test Results Measure Estimated **End Date** Step Done Description Assigned Start Date Time CONTRACTOR 2/14/2023 7.00 7.00 TAR -2/14/2023 1 True

repair leaks on Tar TO steam eductor

Identification: FWO116314 UDN-2204242

Description: TAR -

Pages/Printed By: 1 KOPPERS\OTREMBIAKJW

Date Created: 1/18/2023

Date/Time Printed: 11/27/23 12:13:37 PM

Address:

Priority: Special Attention

Order Type: REQUEST

Maint Type: MECH Work Code: REPAIR Cap X: No Requested: on 01/12/23 09:47 PM by

Supervisor: RALPH STORTO

Technician: OSP: Job No.: Date Started: 1/18/2023 Date Completed: 2/28/2023

Elapsed Days: 42 Actual Time: 1.00

Equipment ID: 50000000001 TAR PLANT TAR AREA

Location: 1760

Serial No.:

Enterprise:

Region:

Facility: STICKNEY

Line:

Manufacturer: Company ID: Reference:

Vend. Inv:

Cust. inv:

Area:

Comments According to the Supervisor this WO is Complete

Estimated Time Step Done Description Assigned Start Date End Date Actual Time Test Results 1 True TAR-JOHN DUPLANCICH 1/18/2023 1/18/2023 1.00 1.00

move vacuum gauge from tubeheater

on Tar TO PWG line

- 4	DMP100003 RALPH STORTO		Da	d By: 1 KOI		MBIAKJW
Supervisor: Technician:	RALPH STORTO				10/1/2022	
Supervisor: Technician:	RALPH STORTO				10/1/2022	
Technician:			D.			
				ate Started;	10/1/2022	
OSP:			Date	Completed:	11/30/2022	
			Ela	psed Days:	61	
Job No.:			P	ctual Time:	1.00	
AAL OXIDIZER (F-2301) F-2	2301					
	Enterprise:					
	Region:	USA		Area:		
	Facility:	STICKNEY		Line:		
*	Vend. Inv:			Cust. inv:		
Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results	Unit of Measure
N JOHN DUPLANCICH	10/28/2022	10/28/2022	1.00	1.00		
Grease / TAR T/O Fan is Local	ted South East of the	Safety Shop				
201- 						
Hrst						
	10/1/2022	11/30/2022	0.00	0.00		
	10/1/2022	11/30/2022	0.00	0.00		
	MAL OXIDIZER (F-2301) F-2 Assigned N JOHN DUPLANCICH O Grease / TAR T/O Fan is Loca	Region: Facility: Vend. Inv: Assigned Start Date N JOHN DUPLANCICH 10/28/2022 D Greace / TAR T/O Fan is Located South East of the	Enterprise: Region: USA Facility: STICKNEY Vend. Inv: Assigned Start Date End Date N JOHN DUPLANCICH 10/28/2022 10/28/2022 D Grease / TAR T/O Fan is Located South East of the Safety Shop Hink 10/1/2022 11/30/2022	Enterprise: Region: USA Facility: STICKNEY Vend. Inv: Assigned Start Date End Date Time N JOHN DUPLANCICH 10/28/2022 10/28/2022 1.00 D Grease / TAR T/O Fan is Located South East of the Safety Shop Hink 10/1/2022 11/30/2022 0.00	### Enterprise: Region: USA Area: Facility: STICKNEY Line: Vend. Inv: Cust. Inv: Assigned Start Date End Date Time N	Enterprise: Region: USA Area: Facility: STICKNEY Line: Vend. Inv: Cust. Inv: Assigned Start Date End Date Time Actual Time Test Results N JOHN DUPLANCICH 10/28/2022 10/28/2022 1.00 1.00 O Grease / TAR T/O Fan is Located South East of the Safety Shop Hist: 10/1/2022 11/30/2022 0.00 0.00

Identification	: FWO115	234 UDN-2202645	<u>. </u>			Date/T	me Printed:	11/27/23 12	2:30:49 PM
Description	: TAR THE	RMAL OXIDIZER VENT	NNUAL		Р	ages/Printe	d By: 1 KOI	PPERS\OTR	EMBIAKJW
Address	•								
Priority	: Special A	ttention	Requested:	DMP100007		D	ite Created;	9/25/2022	
Order Type	: PM		Supervisor:	WAYNE OWENS		0	ate Started:	10/2/2022	
Maint. Type:	: ELECT		Technician:			Date	Completed:	12/5/2022	
Work Code	: PM		OSP:			Ek	psed Days:	65	
Сар Х			Job No.:				ctual Time:	0.00	
Equipment ID:	: 50000003	1174 TAR THERMAL OXI	DIZER						
Location:	: 1760								
Serial No.:	:			Enterprise:					
Manufacturer:	:			Region: US	SA		Area:		
Company ID:				Facility: S1	TICKNEY		Line:		
Reference:	_			Vend. Inv:			Cust Inv:		
		ents This PM iwas Done or				he Outage Estimated			Unit of
Step	Done	Description	Assigned	Start Date	End Date	Time		Test Results	Measure
1	True	TAR THERMAL		10/2/2022	12/5/2022	0.00	0.00		
		AND #2 FUME SYSTE	M						
	This proced	lure requires Electricians and	Mechanics						
	Instell blind:	s at the #1 and #2 vent system							
	Inspect and	repair automatic valves (PCV	4748, ¥4749 & ¥4751)						
	Water blast	veat piping from the yent syst	arms to the TO inlet						
		repair velocity section as nec							
		repair heat trace and insulation	and the same of th						
		replace the ERV as necessar							
	inspect, cles	an, replace the flame sensor a	is necessary						
	PM the ID fa	Ln .							
	Mechanic - I	Name							
	Date:	Hr.	<u> </u>						
	Electrician N	Vame:		Leave The Land	_				
	Date:	Hrs							
2	True	TAR THERMAL		10/2/2022	12/5/2022	0.00	0.00		
		AND #2 FUME SYSTE	M						
	Thus procedure requires Electricians and Mechanics								
	Install blinds at the #1 and #2 vent systems								
		repeir automatic valves (PCV		as necessary					
	Water blast	vent piping from the vent syst	ems to the TO inlet						
	Inspect and	repair velocity section as nec	essary						
	Inspect and	repair heat trace and insulation	n						
	Inspect and	replace the ERV as necessary	y						
	Inspect, cles	in, replace the flame sensor e	a nacessary						
	PM the ID fa	in							
	Mechanic - I	Name							
		Hrs.							
		lame:							
		Hes							
	A AGE STOP	HO							

(denuncar)	DII: FYVO1162	39 UDN-2203590				Date/T	ime Printed:	11/27/23 12	:29:24 PM
Description	on: TAR -				P	ages/Printe	d By: 1 KO	PPERS\OTR	EMBIAKJW
Addre	88:								
Prior	ity: Routine		Requested:	DMP100003		D:	te Created:	12/1/2022	_
Order Ty	pe: PM		Supervisor:	RALPH STORTO			ate Started:		
Maint. Ty	pe: MECH		Technician:			Date	Completed:	2/24/2023	
Work Co			OSP:				psed Days:		
	X: No		Job No.:				Actual Time:	3.00	
Equipment	ID: 50000003	929 TAR THERMAL (XIDIZER (F-2301) F-23	01					
Location	on: 1760								
Serial N	o.:			Enterprise:					
Manufactur	er:			Region: U	ISA		Area:	AREA001	
Company	ID:			Facility: S	TICKNEY		Line:	LINE001	
Referen	ce:			Vend. Inv:			Cust. Inv:		
Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results	Unit of Measure
1	True	TAR T/O FAN	JOHN DUPLANCICH	12/8/2022	2/24/2023	1.00	1.00		
	Lube Requir	red: Mobil SHC-100 Gree	se / TAR T/O Pan is Locate	d South East of the Sa	afety Shop				
	Fan Side Br	ng Temp							
	FAN. Pumps	Added		III ESCHIPTION					
	Caupi Side	Brg Temp							
	COUPL. Pu	mps Added							
2	True	TAR T/O FAN	JOHN DUPLANCICH	12/13/2022	2/24/2023	0.00	1.00		
	Lube Requir	ed: Mobil SHC-100 Gres	se / TAR T/O Fan is Locate	d South East of the Se	stety Shop				
	Fan Side Br	Temp							
	FAN. Pumps	Added							
	Coupl Side	Brg Temp							
	COUPL Pu	mps Added							
	Date:		Hrs.						
3	True	TAR T/O FAN	JOHN DUPLANCICH	12/20/2022	2/24/2023	0.00	1.00		
	Lube Requin	ed; Mobil SHC-180 Grea	se / TAR T/O Fan is Located	South East of the Sa	fety Shop				
	Fan Side Br	g Temp							
	FAN. Pumpa	Added							
	Coupl Side i	Brg Temp							
	COUPL. Pur	mps Added							
	Oiler Name:								
	Date:		Hrs:						

EM04420	27 LIDN_2200742				Data P.	less Datate at	44107105 41	200.40 Bt	
		04 / D 2204)							
446	TAR TO Fall Middle Dub!	-WI (B-2301)			aßesteume	a sy: 1 KO	PPERSYUIR	EMBIAK	
		Requested: S-	PM-100308	.	D	eto Cresteri-	3/15/2022		
		Supervisor:							
		Technician:			Date	Completed:	6/6/2022		
PM		OSP:			Els	psed Days:	77		
No		Job No.:				ctual Time:	0.00		
500000031	934 TO Fan(B-2301) Mot	or 1800rpm 150 Hp B-2	301						
1760									
			Enterprise:						
			Region: USA	V :		Area:			
				CKNEY		Line:			
			Vend. Inv:		5:N	Cust. Inv:			
Done	Description	Assigned	Start Date	End Date	Time	Actual Time	Test Results	Unit of Measure	
True	Quarterly		3/22/2022	6/6/2022	0.00	0.00			
Quarterly Motor Lubrication - TAR TO Fan (2801)									
MATERIAL REQUIRED: Precision Synthetic EMB Grease									
	This is the original	greese Required							
Equipment Location: TAR TO Fan - Located South East of Salety Shop									
Lubricate Each Motor Bearing with 10 grease gun puraps using									
Precision Synthetic EMB Grease									
Document th	e time spent on the Work On	der below.							
After the woo	ek is completed return the Wi	ork Order to your							
Supervisor.									
SIGNATURE	OF INDIVIDUAL COMPLET	ING WORK /	DATE COMPLETED						
Print Name o	of Persons Completing Work								
Mount our de	ne wendonel-								
	PM No 50000003: 1760 Done True Quarterly M MATERIAL I Lubricate Es Precision Sy Document the Supervisor. SIGNATURE Print Name of	PM No 50000003934 TO Fan(B-2301) Moto 1760 Done Description True Quarterly Quarterly Motor Lubrication - TAR TO Fan MATERIAL REQUIRED: Precision Synthe This is the original Equipment Location: TAR TO Fan - Loca Lubricate Each Motor Bearing with 10 gre Precision Synthetic EMB Grease Document the time spent on the Work On After the week is completed return the Work Supervisor.	Requested: S-Supervisor: Technician: PM OSP: No Job No.: 50000003934 TO Fan(B-2301) Motor 1800rpm 150 Hp B-2 1760 Done Description Assigned True Quarterly Quarterly Motor Lubrication - TAR TO Fan (2301) MATERIAL REGUIRED: Precision Synthetic EMB Gresse This is the original gresse Required Equipment Location: TAR TO Fan - Located South East of Safety S Lubricate Each Motor Bearing with 10 gresse gum pursups using Precision Synthetic EMB Gresse Document the time spent on the Work Order below. After the week is completed return the Work Order to your Supervisor. SIGNATURE OF INDIVIDUAL COMPLETING WORK / Print Name of Persons Completing Work	Requested: S-PM-100308 Supervisor: Technician: PM OSP: No Job No.: 50000003934 TO Fan(B-2301) Motor 1800rpm 150 Hp B-2301 1760 Enterprise: Region: USA Facility: STR Vend. Inv: Done Description Assigned Start Date True Quarterly 3/22/2022 Quarterly Motor Lubrication - TAR TO Fan (2301) MATERIAL REQUIRED: Precision Synthetic EMB Gresse This is the original greese Required Equipment Losation: TAR TO Fan - Located South East of Safety Shop Lubricate Each Motor Bearing with 10 gresse gun pursps using Precision Synthetic EMB Gresse Document the time spent on the Work Order below. After the week is completed return the Work Order to your Supervisor. SIGNATURE OF INDIVIDUAL COMPLETING WORK / DATE COMPLETED Print Name of Persons Completing Work:	Requested: S-PM-100308 Supervisor: Technician: PM OSP: No Job No.: 50000003934 TO Fan(B-2301) Motor 1800rpm 150 Hp B-2301 1760 Enterprise: Region: USA Facility: STICKNEY Vend. Inv: Done Description Assigned Start Date End Date True Quarterly 3/22/2022 6/6/2022 Quarterly Motor Lubrication - TAR TO Fan (2301) MATERIAL REQUIRED: Precision Synthetic EMB Grease This is the original grease Required Equipment Lossition: TAR TO Fan - Lossied South East of Safety Shop Lubricate Each Motor Bearing with 10 grease gun pusups using Presistion Synthetic EMB Grease Document the time spent on the Work Order below. After the week is completed return the Work Order to your Supervisor. SIGNATURE OF INDIVIDUAL COMPLETING WORK / DATE COMPLETED Print Name of Persons Completing Work:	Requested: S-PM-100308 Supervisor: Technician: Date PM OSP: No Job No.: Enterprise: Region: USA Facility: STICKNEY Vend. Inv: Done Description Assigned Start Date End Date True Quarterly Motor Lubricetion - TAR TO Fan (2301) MATERIAL REQUIRED: Precision Synthetic EMB Gresse This is the original greece Required Equipment Location: TAR TO Fan - Located South East of Safety Shop Lubricate Each Motor Bearing with 10 greece gain purepe using Precision Synthetic EMB Greace Document the time spent on the Work Order below. After the week is completed return the Work Order to your Supervisor. SIGNATURE OF INDIVIDUAL COMPLETING WORK / DATE COMPLETED Print Name of Persons Completing Work: Date Completed Date D	Requested: S-PM-100308 Supervisor: Date Created: Supervisor: Date Created: Date Started: Date Created: Date Started: Date Completed: PM OSP: Elapsed Days: No Job No.: Actual Time: 50000003934 TO Fan(B-2301) Motor 1800rpm 150 Hp B-2301 1760 Enterprise: Region: USA Faellity: STICKNEY Line: Vend. Inv: Done Description Assigned Start Date End Date Time True Quarterly 322/2022 6/6/2022 0.00 0.00 Quarterly Motor Lubrication - TAR TO Fan (2301) MATERIAL REGUIRED: Precision Synthetic GNB Gresse This is the original greece Required Equipment Lossifor: TAR TO Pan - Lossed South East of Safety Shop Lubricate Each Motor Bearing with 10 greese gun pumps using Precision Synthetic EMB Gresse Document the time spent on the Work Order to your Supervisor. SIGNATURE OF RIDIVIDUAL COMPLETING WORK / DATE COMPLETED Print Name of Persons Completing Work:	Quarterly TAR TO Fan Motor Lub PM (B-2301) Requested: S-PM-100308 Supervisor:	

Identification: FWO113012 UDN-2201287 Date/Time Printed: 11/27/23 12:39:59 PM Description: MONTHLY -Pages/Printed By: 1 KOPPERS\OTREMBIAKJW Address: Priority: Routine Requested: DMP100003 Date Created: 5/23/2022 Supervisor: RALPH STORTO Date Started: 5/23/2022 Order Type: PM Technician: Date Completed: 6/13/2022 Maint. Type: MECH Work Code: PM OSP: Elapsed Days: 22 Job No.: Actual Time: 4.00 Cap X: No Equipment ID: 50000003929 TAR THERMAL OXIDIZER (F-2301) F-2301 Location: 1760 Serial No.: Enterprise: Region: USA Area: Manufacturer: Facility: STICKNEY Line: Company ID: **Gust. Inv:** Reference: Vend. Inv: Start Date End Date Actual Time Test Results Assigned Description Step Done TAR T/O FAN MIKE GRIFFIN 5/27/2022 5/27/2022 2.00 2.00 1 True Lube Required: Mobil SHC-100 Grease / TAR T/O Fan is Located South East of the Safety Shop Fan Side Brg Temp FAN. Pumps Added Coupt Side Brg Temp COUPL. Pumps Added Oller Name: Date: PM MIKE GRIFFIN 5/23/2022 5/23/2022 0.00 2.00 True PM 5/23/2022 6/13/2022 0.00 00.0 True 0.00 6/13/2022 True PM 5/23/2022 0.00

True

PM

Identification: FWO113763 UDN-2201442 Date/Time Printed: 11/27/23 12:38:42 PM Description: MONTHLY -Pages/Printed By: 1 KOPPERS\OTREMBIAKJW Address: Priority: Routine Requested: DMP100003 Date Created: 6/1/2022 Supervisor: RALPH STORTO Order Type: PM Date Started: 6/1/2022 Maint. Type: MECH Technician: Date Completed: 8/9/2022 Work Code: PM OSP: Elapsed Days: 70 Cap X: No Job No.: Actual Time: 11.00 Equipment ID: 50000003929 TAR THERMAL OXIDIZER (F-2301) F-2301 Location: 1760 Serial No.: Enterprise: Manufacturer: Region: USA Area: Company ID: Facility: STICKNEY Line: Reference: Vend. Inv: **Cust. Inv:** Estimated Time Unit of Measure Step Done Description Start Date Assigned End Date Actual Time Test Results 1 True TAR T/O FAN MIKE GRIFFIN 6/1/2022 6/1/2022 2.00 2.00 Lube Required: Mobil SHC-100 Grease / TAR T/O Fan Is Located South East of the Safety Shop Fan Side Brg Temp FAN. Pumps Added Coupi Side Brg Temp COUPL. Pumps Added Oller Name: Date: True PM MIKE GRIFFIN 7/1/2022 7/1/2022 1.00 1.00 True PM MIKE GRIFFIN 6/15/2022 6/24/2022 2.00 2.00 True PM MIKE GRIFFIN 7/20/2022 7/22/2022 2.00 5.00

7/28/2022

7/28/2022

1.00

1.00

MIKE GRIFFIN

Identification:	FWO1146	24 UDN-2201989				Date/Ti	me Printed:	11/27/23 12	::37:43 PM
Description:	MONTHLY				Pa	ages/Printe	d By: 1 KOI	PPERS\OTRI	EMBIAKJW
Address:									
Priority:	Routine		Requested: Di	MP100003		Ďį	te Created:	8/1/2022	
Order Type:	PM		Supervisor: R/	ALPH STORTO		Đ	ate Started:	8/1/2022	
Maint. Type:	MECH		Technician:					10/16/2022	
Work Code:	РМ		OSP:				psed Days:		
Cap X:	No		Job No.:			A	ictual Time:	2.00	
Equipment ID:	500000039	29 TAR THERMAL	OXIDIZER (F-2301) F-2301	l					
Location:	1760								
Seriai No.:				Enterprise:					
Manufacturer:				Region: US	SA		Area:		
Company ID:				Facility: S1	TICKNEY		Line:		
Reference:				Vend. Inv:		·	Cust. Inv:		
Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results	Unit of Measure
1	True	TAR T/O FAN	MIKE GRIFFIN	8/11/2022	8/11/2022	1.00	1.00		
	Lube Requir	ect Mobil SHC-190 Gre	ase / TAR T/O Fen is Located	South East of the Sa	futy Shop				
	Fan Side Br	y Temp							
	FAN. Pumpe	Added							
	Coupl Side	Brg Temp							
	COUPL. Pu	mps Added							
	Oller Name:								
	Date:		Hrs:						
2	True	PM	JOHN DUPLANCICH	9/2/2022	9/2/2022	0.50	0.50		
3	True	PM	BRIAN CYBULSKI	9/2/2022	9/2/2022	0.50	0.50		

Attachment F Monitoring of Closed Vent System Records Response to Violation Notice A-2023-00162 Koppers Inc.

03-Jun 22 0030000	Date	0= Vent lined up to TO	Date	0= Vent lined up to TO	Date	0= Vent lined up to TO
01-Jun-22 003-000 0 0 01-Jun-22 003-000 0 0 01-Aug-22 013-000 0 0 0 01-Aug-22 013-000 0 0 01-Aug-22 013-000 0 0 0 01-Aug-22 013-000	01-Jun-22 00:00:00	0	01-Jul-22 00:00:00	0	01-Aug-22 00:00:00	
01-Jun-22 00:45:00	01-Jun-22 00:15:00	0	01-Jul-22 00:15:00	0	01-Aug-22 00:15:00	
01-Jun-22 01:15:00	01-Jun-22 00:30:00	0	01-Jul-22 00:30:00		To the second se	
0.1-Jun-22 03:15:00 0.1-Jun-22 04:15:00 0.1-Ju	01-Jun-22 00:45:00	0	01-Jul-22 00:45:00			
01-Jun-22 01:30:00	01-Jun-22 01:00:00	0				
0.1-Jun-22 03:15:00 0.0 0.1-Jun-22 02:15:00 0.0 0.1-Jun-22 03:15:00 0.0 0.1-Jun-22 04:15:00 0.0 0.1-Jun-22 05:15:00 0.0 0.1-Ju	01-Jun-22 01:15:00					
O1-Jun-22 02:00:00	01-Jun-22 01:30:00	0	01-Jul-22 01:30:00			
O3-100-22 02:15:00	01-Jun-22 01:45:00	0.0				
O1-Jun-22 02:30:000 1	01-Jun-22 02:00:00	1	01-Jul-22 02:00:00			
01-Jun-22 03:45:00 1 0 01-Jun-22 03:50:00 0 0 01-Aug-22 03:15:00 0 0 01-Jun-22 03:15:00 1 0 01-Jun-22 03:15:00 1 0 01-Jun-22 03:15:00 1 0 01-Jun-22 03:15:00 0 0 01-Aug-22 03:15:00 0 0 01-Aug-22 03:15:00 0 0 01-Jun-22 03:15:00 0 0 01-Aug-22 03:15:00 0 0 01-Aug-22 03:15:00 0 0 01-Jun-22 04:15:00 0 0 01-Jun-22 05:00:00 0 0 01-Jun-22 05:15:00 0 0 01-Jun-22 05:00:00 0 0	01-Jun-22 02:15:00	1	01-Jul-22 02:15:00			
O1-Jun-22 03:00:00	01-Jun-22 02:30:00	1				
O1-Jun-22 0315:00	01-Jun-22 02:45:00	1	01-Jul-22 02:45:00			
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Attachment G

July 1 through December 31, 2022 Semi-Annual Monitoring Report
Response to Violation Notice A-2023-00162
Koppers Inc.



UPS Overnight Mail

February 28, 2023

Mr. Bill Marr, Manager, Compliance Section Illinois Environmental Protection Agency Bureau of Air – Compliance Section (MC 40) 1021 N. Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Koppers Inc.
Carbon Materials and Chemicals
3900 South Laramie Avenue
Cicero, IL 60804–4523
Tel 708 222 3483
Fax 708 656 6079
www.koppers.com

RE: Semi-Annual Monitoring Report – July 1, 2022 – December 31, 2022

Koppers Inc., Stickney Plant ID Number; 031300AAJ

CAAPP Permit Number: 96030134

Dear Mr. Marr:

Per section 8.6.1 of the CAAPP Permit #96030134, the following correspondence is to serve as the semi-annual monitoring report for the period of July 1, 2022 through December 31, 2022 for the above referenced facility.

Should you have any questions or require further information, please contact Fola Fayanjuola, at 708-427-9057.

Sincerely.

L. Seth Herring

Plant Manager CMC NA

Copy:

Illinois EPA – Air Regional Field Office Illinois Environmental Protection Agency Division of Air Pollution Control 9511 W. Harrison Street Des Plaines, IL 60016

USEPA, Region 5 Air and Radiation Division 77 West Jackson Boulevard (A-18J) Chicago, Illinois 60604-3507

Koppers, Inc. Semi-Annual Monitoring Report (SAMR) July 1, 2022 - December 31, 2022

required monitoring results, as specified in the conditions of this permit, shall be submitted to the Air Compliance Section of the Illinois EPA every six months as follows [Section 39.5(7)(f) of the Act]: All instances If monitoring is required by any applicable requirements or conditions of this permit, a report summarizing the Attachment 1 - List of Required Records in Accordance with Permit Condition 8.6.1 8.6.1 Monitoring Reports

of deviations from permit requirements must be clearly identified in such reports. All such reports shall be certified in accordance with Condition 9.9.

Condition	Plant	Unit	Unit Description	Requirement	Devlation	Summary of Monitoring Results
7.4.8	Tar Plant	TPDS1 &TPDS2	Tar Plant distillation stills	Perform quarterly visual inspections of the affected stills to detect any leaking components which may need repair	No	Quarterly visual inspections were completed and no leaking components were detected.
7.6.8	PAA Plant	PAA-NT & PP-OXT	Naphthalene and o-xylene storage tanks	The Permittee shall fulfil all the applicable leak inspection provisions as specified by 40 CFR 63.148.	°Z	Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover
7.7.88	PAA Plant	A, B, C, & O-Trains	Phthalic Anhydride Reactor Trains	Continuous monitor and record TO temperature.	Š	Temperature was continuously monitored and recorded during the reporting period and no daily average TO temperatures were below limit except when PAA process was offline
						C & D Trains never built
7.7.8b	PAA Plant	A, B, C, & D-Trains	Prithalic Anhydride Reactor Trains	The Permittee shall fulfill as the applicable leak inspection provisions as specified by 40 CFR 63.148.	<u>0</u>	Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover.
7.7.8c	PAA Piant	A. B. C. & D-Trains	Phthalic Anhydride Reactor Trains	Continuous monitor and record TO temperature.	9	Temperature was continuously monitored and recorded during the reporting period and no daily average TO temperatures were below limit except when PAA process was offline

Koppers, Inc. Semi-Annual Monitoring Report (SAMR) July 1, 2022 - December 31, 2022

Summary of Monitoring Results	During the reporting period there was a 28-hour period on December 8th and 9th when the naphthalene feed rate was increased and the CEMS unit was down. The rate had to be increased due to the loss of steam supplied to entire plant. The daily sulfur percent in the naphthalene sample was less than 0.8 wt.% during these days which indicate SO2 emissions were not exceeded.	There were 869 hours the CEMS unit failed to monitor the SO2 emissions and 26 of those hours the feed rate changed. CEMS unit downtime was not considered a deviation because the naphthalene was sampled for suifur and was below 0.8 wt.%. This shows that SO2 emissions were not exceeded.	Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover.	Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover.	Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are
Deviation	58		No.	No	N.
Requirement	Continuous monitor and record SO2 with CEMS		The Permittee shall fulfill all the applicable leak inspection provisions as specified by 40 CFR 63.148	The Permittee shall fulfil all the applicable leak inspection provisions as specified by 40 CFR 63.148.	The Permittee shall fuffil all the applicable leak inspection provisions as specified by 40 CFR 63.148
Unit Description	Phthalic Anhydride Reactor Trains		Vaporizer Bottoms Tank	Infermediate Crude and Refined Phthalic Anhydride Storage Tanks	Refined Phthalic Anhydride Storage Tanks
Unit	A, B, C, & D-Trains		MF-106	PAA-SCT and PAA- RST	MF-311 & MS-303
Plant	PAA Plant		PAA Plant	PAA Plant	PAA Plant
Condition	7.7.84		7.8.8	7.0.0	7.10.8

Page 2 of 4

Koppers, Inc. Permit No. 96030134

Page 3 of 4

Koppers, Inc. Semi-Annual Monitoring Report (SAMR) July 1, 2022 - December 31, 2022

Summary of Monitoring Results	Temperature was continuously monitored and recorded during the reporting period and no daily average TO temperatures were below within	except when PAA process was offline	Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover.	Temperature was continuously monitored and recorded during the reporting period and no daily average TO temperatures were below limit except when PAA process was offline.	Koppers performs teak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover.	Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under sensities cover	Demolished	Temperature was continuously monitored and recorded during the reporting period and no daily average TO temperatures were below limit	except when PAA process was offline	Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover
Summary of Mc	Temperature w monitored and re reporting period at TO temperature.	except when P off Off C & D Train	Koppers performs affected equipm with 40 CFR 63 S reported under	Temperature w monitored and re reporting period as TO temperatures except when P, off.	Koppers performs affected equipme with 40 CFR 63 Signated under	Koppers performs affected equipms with 40 CFR 63 Signature	Demo	Temperature w monitored and reference and reference and TO temperatures	except when Pyoff	Koppers performs affected equipme with 40 CFR 63 St reported under
Deviation	4	02	9	8	No	Q.	No	•	ON	Ñ.
Requirement	The Permittee shall fulfill all the applicable monitoring requirements as specified by 40 CFR 63.114.	40 CFR 63.114 – TO temperature monitoring device equipped with a continuous recorder is required	The Permittee shall fulfill all the applicable leak inspection provisions as specified by 40 CFR 63.148	Continuous monitor and record TO temperature	The Permittee shall fulfill all the applicable leak inspection provisions as specified by 40 CFR 63.148	The Permittee shall fuffil all the applicable leak inspection provisions as specified by 40 CFR 63.148	The Permittee shall fuffil all the applicable leak inspection provisions as specified by 40 CFR 63.148	The Permittee shall fulfill all the applicable monitoring requirements as specified by 40 CFR 63.114.	40 CFR 63.114 – TO temperature monitoring device equipped with a continuous recorder is required	The Permittee shall fuffil all the applicable teak inspection provisions as specified by 40 CFR 63.148
Unit Description	Phihalin Anhudidda Befining	Billing Allacing Malling	Phthalic Anhydride Refining	Phthaic Anhydride Refining	Flaked Phthailic Anhydride Storage Remelt Tank	Refined Phthalic Anhydride Tank Wagon and Raitcar Loading	Stickney Terminal O-Xylene tank	Phthalic Anhydride	Recovery Exhausters	Phthalic Anhydride Recovery Exhausters
Unit	0 4 8		PAA-R	PAA-R	MS-414	PAA-L	OL-23	9440		PAA-RE
Plant	PAA Plant		PAA Plant	PAA Plant	PAA Plant	PAA Plant	Terminal	440		PAA Plant
Condition	7 11 Ra		7.11.8b	7,11.8c	7.13.8	7.14.8	7.20.8	7.25.80	3	7.21.8b

Koppers, Inc. Semi-Annual Monitoring Report (SAMR) July 1, 2022 - December 31, 2022

) Results	nuously during the ily average elow limit ess was
Summary of Monitoring Results	Temperature was continuously monitored and recorded during the reporting period and no daily average TO temperatures were below limit except when PAA process was offline
Deviation	ę
Requirement	Continuous monitor and record TO temperature
Unit Description	Phthalic Anhydride Recovery Exhausters
Unit	PAA-RE
Plant	PAA Plant
Permit Condition	7.21.8c

Attachment H Semi-Annual Monitoring Report First Half of 2023 Response to Violation Notice A-2023-00162 Koppers Inc.



UPS Overnight Mail

August 30, 2023

Mr. Bill Marr, Manager, Compliance Section Illinois Environmental Protection Agency Bureau of Air – Compliance Section (MC 40) 1021 N. Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Koppers Inc.
Carbon Materials and Chemicals
3900 South Laramie Avenue
Cicero, IL 60804-4523
Tel 708 222 3483
Fax 708 656 6079
www.koppers.com

RE: Semi-Annual Monitoring Report – January 1, 2023 – June 30, 2023

Koppers Inc., Stickney Plant ID Number; 031300AAJ

CAAPP Permit Number: 96030134

Dear Mr. Marr:

Per section 8.6.1 of the CAAPP Permit #96030134, the following correspondence is to serve as the semi-annual monitoring report for the period of January 1, 2023 through June 30, 2023 for the above referenced facility.

Should you have any questions or require further information, please contact Sidney Lipp, at 708-222-3111.

Sincerely,

L. Seth Herring

Plant Manager CMC NA

Copy:

Illinois EPA - Air Regional Field Office Illinois Environmental Protection Agency Division of Air Pollution Control 9511 W. Harrison Street Des Plaines, IL 60016

USEPA, Region 5 Air and Radiation Division 77 West Jackson Boulevard (A-18J) Chicago, Illinois 60604-3507

Certification by a Responsible Official:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Koppers, Inc. Semi-Annual Monitoring Report (SAMR) January 1, 2023 - June 30, 2023

Attachment 1 - List of Required Records in Accordance With Permit Condition 8.6.1

required monitoring results, as specified in the conditions of this permit, shall be submitted to the Air Compliance Section of the Illinois EPA every six months as follows (Section 39.5(7)(f) of the Act]: All instances of deviations from permit requirements must be clearly identified in such reports. All such reports shall be If monitoring is required by any applicable requirements or conditions of this permit, a report summarizing the certified in accordance with Condition 9.9. 8.6.1 Monitoring Reports

				7	
Summary of Monitoring Results	Quarterly visual inspection were completed.	Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate oover.	Temperature was continuously monitored and recorded during the reporting period and no dally sverage TO temperatures were below limit except when PAA process was offline	Koppers performs leak Inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover. C & D Trains never built	Temperature was continuously monitored and recorded during the reporting period and no daily average TO temperatures were below limit except when PAA process was offline
Devlation	NO	No	No	ON.	No
Requirement	Perform quarterly visual inspections of the affected stills to detect any leaking components which may need repair	The Permittee shall fulfill all the applicable leak inspection provisions as specified by 40 CFR 63.148.	Continuous monitor and record TO temperature.	The Permittee shall fulfill all the applicable leak inspection provisions as specified by 40 CFR 63.148.	Continuous monitor and record TO temperature.
Unit Description	Tar Plant distillation stills	Naphthalene and o-xylene storage tanks	Phthalic Anhydride Reactor Trains	Phthalic Anhydride Reactor Trains	Phthalic Anhydride Reactor Trains
Unit	TPDS1 &TPDS2	PAA-NT & PP-OXT	A, B, C, & D-Trains	A, B, C, & D-Trains	A, B, C, & D-Trains
Plant	Tar Plant	PAA Plant	PAA Plant	PAA Plant	PAA Plant
Permit Condition	7.4.8	7.6.8	7.7.8a	7.7.8b	7.7.8c

Koppers, Inc. Semi-Annual Monitoring Report (SAMR) January 1, 2023 - June 30, 2023

Permit Condition	Plant	Unit	Unit Description	Requirement	Deviation	Summary of Monitoring Results
						During the reporting period there were no hours when the naphthalene feed rate was increased and the CEMS unit was down.
7.7.8d	PAA Plant	A, B, C, & D-Trains	Phthalic Anhydride Reactor Trains	Continuous monitor and record SO2 with CEMS	24	The SO2 CEMS was unavailable for 0.48% of the operating hours during the period. The SO2 emission limits were not exceeded based on CEMS data before and after the downtime.
7.8.8	PAA Plant	MF-106	Vaporizer Bottoms Tank	The Permittee shall fulfill all the applicable leak inspection provisions as specified by 40 CFR 63.148	8	C & D Trains never built Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover.
7.9.8	PAA Plant	PAA-SCT and PAA- RST	Intermediate Crude and Refined Phthalic Anhydride Storage Tanks	The Permittee shall fulfill all the applicable leak inspection provisions as specified by 40 CFR 63.148.	2	Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover.
7.10.8	PAA Plant	MF-311 & MS-303	Refined Phthalic Anhydride Storage Tanks	The Permittee shall fulfill all the applicable leak inspection provisions as specified by 40 CFR 63.148	Q.	Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover.
7.11.88	PAA Plant	PAA-R	Phthalic Anhydride Refining	The Permittee shall fulfill all the applicable monitoring requirements as specified by 40 CFR 63.114. 40 CFR 63.114 – TO temperature monitoring device equipped with a continuous recorder is required.	2	Temperature was confinuously monitored and recorded during the reporting period and no daily average TO temperatures were below limit except when PAA process was offline
7.11.8b	PAA Plant	PAA-R	Phthalic Anhydride Refining	The Permittee shall fulfill all the applicable leak inspection provisions as specified by 40 CFR 63.148	2	Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover.
7.11.8c	PAA Plant	PAA-R	Phthalic Anhydride Refining	Continuous monitor and record TO temperature	2	Temperature was continuously monitored and recorded during the reporting period and no daily average TO temperatures were below limit except when PAA process was offline
						C & D Trains never built

Page 2 of 3

Koppers, Inc. Permit No. 96030134

Koppers, Inc. Semi-Annual Monitoring Report (SAMR) January 1, 2023 - June 30, 2023

Summary of Monitoring Results	Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover.	Koppers performs leak Inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover.	OL-23 tank has been demolished.	Temperature was continuously monitored and recorded during the reporting period and no daily average TO temperatures were below limit except when PAA process was	C & D Trains never built	Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover.	Temperature was confinuously monitored and recorded during the reporting period and no daily average TO temperatures were below limit except when PAA process was offline	C & D Trains never built
Deviation	No	No	No	9 2		oN:	8	
Requirement	The Permittee shall fulfill all the applicable lesk inspection provisions as specified by 40 CFR 63.148	The Permittee shell fulfill all the applicable leak inspection provisions as specified by 40 CFR 63.148	The Permittee shall fulfill all the applicable leak inspection provisions as specified by 40 CFR 63.148	The Permittee shall fulfill all the applicable monitoring requirements as specified by 40 CFR 63.114.	monitoring device equipped with a continuous recorder is required	The Permittee shall furfil all the applicable leak inspection provisions as specified by 40 CFR 63.148	Continuous monitor and record TO temperature	
Unit Description	Flaked Phthalic Anhydride Storage Remelt Tank	Refined Phthalic Anhydride Tank Wagon and Railcar Loading	Stickney Terminal O-Xylene tank	Phthalic Anhydride Recovery Exhausters		Phthalic Anhydride Recovery Exhausters	Phthalic Anhydride Recovery Exhausters	
Unit	MS-414	PAA-L	OL-23	PAA-RE		PAA-RE	PAA-RE	
Plant	PAA Plant	PAA Plant	Terminal	PAA Plant		PAA Plant	PAA Plant	
Permit	7.13.8	7.14.8	7.20.8	7.21.8a		7.21.8b	7.21.8c	_

Attachment I

Naphthalene Sampling Sulfur Analysis
Response to Violation Notice A-2023-00162
Koppers Inc.

Sulfur Sampleing of Naphthalene Feed and Feed Rates During CEMS Down Time

Date CEMS Down	Sulfur Content %	A-train Naph Feed Daily Average (klbs/day)	B-train Naph Feed Daily Average (klbs/day)	A-train Ortho Feed Daily Average (klbs/day)	B-train Ortho Feed Daily Average (klbs/day)
8/22/2022	0.44	14.1	14.6	165.3	213.4
8/23/2022	No Naph Flow	0.0	0.0	165.4	213.3
8/24/2022	No Naph Flow	0.0	0.0	165.7	213.1
8/25/2022	0.42	9.9	8.7	165.4	213.1
8/26/2022	0.44	10.7	9.6	165.2	213.0
9/13/2022	No Naph Flow	0.0	0.0	0.0	0.0
9/14/2022	No Naph Flow	0.0	0.0	0.0	0.0
9/16/2022	No Naph Flow	0.0	0.0	0.0	65.9
10/27/2022	0.41	124.6	124.2	164.1	147.4
11/15/2022	0.41	16.0	81.1	25.1	144.2
11/24/2022	No Naph Flow	0.0	0.0	130.4	134.8
11/25/2022	No Naph Flow	0.0	0.0	131.0	134.5
11/26/2022	No Naph Flow	0.0	0.0	155.8	169.9
11/27/2022	No Naph Flow	0.0	0.0	161.7	209.9
11/28/2022	No Naph Flow	0.0	0.0	162.7	211.3
11/29/2022	No Naph Flow	0.0	0.0	160.0	216.9
11/30/2022	No Naph Flow	0.0	0.0	160.3	221.5
12/1/2022	No Naph Flow	0.0	0.0	145.2	203.7
12/2/2022	No Naph Flow	0.0	0.0	129.9	173.1
12/3/2022	No Naph Flow	0.0	0.0	126.8	135.8
12/4/2022	No Naph Flow	0.0	0.0	52.3	98.6
12/5/2022	No Naph Flow	0.0	0.0	124.4	133.5
12/6/2022	No Naph Flow	0.0	0.0	126.4	146.5
12/7/2022	No Naph Flow	0.0	0.0	109.9	122.1
12/8/2022	0.41	60.9	62.4	72.2	78.7
12/9/2022	0.42	71.8	72.9	63.9	69.2
12/27/2022	0.41	40.4	7.2	103.8	139.7
12/28/2022	0.4	40.0	6.1	104.6	139.5
3/28/2023	0.47	0.0	45.3	162.4	126.8
3/30/2023	0.42	0.0	44.2	129.3	125.5
4/29/2023	0.46	0.0	76.4	165.4	171.8
4/30/2023	0.42	0.0	187.6	164.9	89.2
5/1/2023	0.44	0.0	217.2	164.8	74.6
5/2/2023	0.42	0.0	217.7	165.1	74.5

Attachment J MON MACT Semi-Annual Report Second Half of 2022 Response to Violation Notice A-2023-00162 Koppers Inc.



Koppers Inc.

Cicero, IL 60804-4523 Tel 708 222-3483 Fax 708 656 6079

www.koppers.com

Carbon Materials and Chemicals 3900 South Laramie Avenue

Via UPS Overnight Mail

February 28, 2023

Mr. Bill Marr, Manager Compliance Section Illinois Environmental Protection Agency Bureau of Air- Compliance Section (MC 40) 1021 N. Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

RE: Koppers Inc., Stickney Plant ID Number: 031300AAJ Permit Number: 96030134

> MON MACT Semi-Annual Compliance Report, July 1, 2022 – December 31, 2022 Reporting Period 40 CFR Part 63, Subpart FFFF, Section §63.2520(e).

Dear Mr. Marr:

Attached is Koppers Inc., Stickney Plant MON MACT Semi-Annual Compliance Report for the July 1, 2022 – December 31, 2022 reporting period.

A portion of the Stickney Plant operations is subject to the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON MACT), 40 CFR Part 63, Subpart FFFF. Koppers Stickney Plant is submitting the Semi-Annual Compliance Report to fulfill the requirements of 40 CFR Part 63, Subpart FFFF, Section §63.2520(e) for the MON-affected Miscellaneous Chemical Processing Units (MCPUs).

The facility is an existing source with three miscellaneous organic chemical production units (MCPUs) subject to this standard: Crude Tar Distillation process, Modified Pavement Sealer Base (MPSB) process, and Type A Carbon Pitch process.

During this reporting period, the Crude Tar Distillation process exhaust points were routed to only the two tube heaters (F-101 and F-201) for fuel value. As stated in 40 CFR 63.2550(i), a gas stream transferred for fuel value is exempt from the MON definition of a continuous process vent by the exemption in 63.107(h)(6), as referenced in 63.2550(i). Accordingly, Koppers considers the vent from the Crude Tar Distillation process subject to Group 1 continuous process vent requirements only when it is being routed to the thermal oxidizer.

The Compliance Report consists of the following attached tables:

Table 1: Summary of Routine Maintenance on Storage Vessels Controlled By Flare or Control Device

Table 2: Flare Pilot Flame/Flare Flame Summary

Table 3: Summary of Deviations - Units Operated Without a Continuous Monitoring System (CMS)

Table 4: Summary of Deviations - MCPUs and Storage Vessels Operated With a Continuous Monitoring System (CMS)

Table 5: Summary of MCPU With Group 2 Process Vents With HAP Usage <10,000 lbs/year

that Exceeded a HAP Threshold for the Reporting Period

Table 6: Summary of Process Additions or Revisions from NOCSR

Table 7: Summary of New Operating Scenarios Not Listed in the NOCSR

Table 8: Summary of Heat Exchange System Leaks with Delayed Repair

Table 9: Vent Stream Bypass Summary for Closed Vent Systems

Table 10: SSM Event Resulting in Excess Emissions

Table 11: Semi-Annual Fugitive Emission Report

The MCPUs at Koppers's Stickney Plant facility have no Group 1 Process Wastewater Streams, Group 1 Transfer Racks, or Group 1 storage tanks so reporting information is not required in those categories.

Should you have any questions or require further information, please contact Fola Fayanjuola at 708-656-5900.

Sincerely.

L. Seth Herring

Plant Manager CMC NA

Attachments:

Tables 1-11

Copy: USEPA, Region 5 Air and Radiation Division 77 West Jackson Boulevard (A-18J) Chicago, Illinois 60604-3507

Illinois EPA – Air Regional Field Office Illinois Environmental Protection Agency Division of Air Pollution Control 9511 W. Harrison St. Des Plaines, IL 60016

Certification by a Responsible Official:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Sech	9)	'	
Name:				
L	Seth Herring			
Official Title:				
	Plant Manager	CMC NA		
Telephone No.				
	708-556-998	4		
Date Signed:	2/28/2	023		

ATTACHMENT 1 - COMPLIANCE REPORT INFORMATION

This Attachment provides all information required under 40 CFR §63.2520 and referenced regulations. Information is organized by regulatory reference. Regulatory requirements for this compliance report are listed below in italics, followed by Koppers' comments addressing each element or providing the required information.

40 CFR §63.2520 – MON MACT COMPLIANCE REPORTING PROVISIONS

§63.2520(e). Compliance report. The compliance report must contain the information specified in paragraphs (e)(1) through (10) of this section.

§63.2520(e)(1). Company name and address.

Koppers Comments: Koppers, Inc.

3900 South Laramie Avenue Stickney, Illinois 60650

§63.2520(e)(2). Statement by a responsible official with that official's name, title, and signature, certifying the accuracy of the content of the report.

Koppers Comments: This information is provided on the signature page of this letter.

§63.2520(e)(3). Date of report and beginning and ending dates of the reporting period.

Koppers Comments: The date of the report is February 28, 2023. The reporting period begins on July 1, 2022 through December 31, 2022.

§63.2520(e)(4). For each SSM during which excess emissions occur, the compliance report must include records that the procedures specified in your startup, shutdown, and malfunction plan (SSMP) were followed or documentation of actions taken that are not consistent with the SSMP, and include a brief description of each malfunction.

Koppers Comments: As applicable for each SSM event, Attachment 2 Table 10 indicates whether actions taken were consistent with the procedures specified in the SSM Plan for affected units.

§63.2520(e)(5). The compliance report must contain the information on deviations, as defined in §63.2550, according to paragraphs (e)(5)(i), (ii), (iii), and (iv) of this section.

§63.2520(e)(5)(i). If there are no deviations from any emission limit, operating limit or work practice standard specified in this subpart, include a statement that there were no deviations from the emission limits, operating limits, or work practice standards during the reporting period.

Koppers Comments: Deviations during the reporting period are addressed in §63.2520(e)(5)(iii) below.

§63.2520(e)(5)(ii). For each deviation from an emission limit, operating limit, and work practice standard that occurs at an affected source where you are not using a continuous monitoring system (CMS) to comply with the emission limit or work practice standard in this subpart, you must include the information in paragraphs (e)(5)(ii)(A) through (C) of this section. This includes periods of SSM.

- (A) The total operating time of the affected source during the reporting period.
- (B) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
- (C) Operating logs of processes with batch vents from batch operations for the day(s) during which the deviation occurred, except operating logs are not required for deviations of the work practice standards for equipment leaks.

Koppers Comments: None during reporting period

§63.2520(e)(5)(iii). For each deviation from an emission limit or operating limit occurring at an affected source where you are using a CMS to comply with an emission limit in this subpart, you must include the information in paragraphs (e)(5)(iii)(A) through (L) of this section. This includes periods of SSM.

Koppers Comments: The required information is included in Attachment 2 Table 4.

§63.2520(e)(5)(iv). If you documented in your notification of compliance status report that an MCPU has Group 2 batch process vents because the non-reactive HAP is the only HAP and usage is less than 10,000 lb/yr, the total uncontrolled organic HAP emissions from the batch process vents in an MCPU will be less than 1,000 lb/yr for the anticipated number of standard batches, or total uncontrolled hydrogen halide and halogen HAP emissions from all batch process vents and continuous process vents in a process are less than 1,000 lb/yr, include the records associated with each calculation required by §63.2525(e) that exceeds an applicable HAP usage or emissions threshold.

Koppers Comments: Not applicable there are no Group 2 batch process vents established by the criteria above.

§63.2520(e)(6). If you use a CEMS, and there were no periods during which it was out-of-control as specified in §63.8(c)(7), include a statement that there were no periods during which the CEMS was out-of-control during the reporting period.

Koppers Comments: Not applicable - Koppers does not use CEMS at any MON affected units.

§63.2520(e)(7).Include each new operating scenario which has been operated since the time period covered by the last compliance report and has not been submitted in the notification of compliance status report or a previous compliance report. For each new operating scenario, you must provide verification that the operating conditions for any associated control or treatment device have not been exceeded and that any required calculations and engineering analyses have been performed. For the purposes of this paragraph, a revised operating scenario for an existing process is considered to be a new operating scenario.

Koppers Comments: Not applicable. No new operating scenarios were implemented during the reporting period.

§63.2520(e)(8). Records of process units added to a PUG as specified in §63.2525(i)(4) and records of primary product redeterminations as specified in §63.2525(i)(5).

Koppers Comments: Koppers does not use PUGs, therefore not applicable.

. Applicable records and information for periodic reports as specified in referenced subparts F, G, H, SS, UU, WW, and GGG of this part and subpart F of 40 CFR part 65.

Koppers Comments: Information required by Subpart UU is contained in the Equipment Leak section of this report. Subparts F, G, H, WW, and GGG are not applicable. The information required by Subpart SS is provided below.

Per 40 CFR 63.999(c)(1) (Subpart SS), the compliance report is required to contain the information described in paragraphs 40 CFR 63.999(c)(1) through (7), as applicable.

(1) Periodic reports shall include the reporting period dates, the total source operating time for the reporting period, and, as applicable, all information specified in this section and in the referencing subpart (40 CFR Part 63, Subpart FFFF), including reports of periods when monitored parameters are outside their established ranges.

Koppers Comments: The reporting period as provided above is July 1, 2022 through December 31, 2022. The source operating times are provided in Attachments 2. Reports of the periods when monitored parameters are outside their established ranges are addressed in these tables as well.

- (2) For closed vent systems subject to the requirements of 40 CFR 63.983, the owner or operator shall submit as part of the periodic report the information specified in paragraphs 40 CFR 63.999(c)(2)(i) through (iii) as applicable.
 - (i) For information recorded in 40 CFR 63.998(d)(1)(iii)(B) through (E);
 - (B) The date the leak was detected and the date of the first attempt to repair the leak.

Koppers Comments: If applicable, this information will be included in Attachment 3

(C) The date of successful repair of the leak.

Koppers Comments: If applicable, this information will be included in Attachment 3

(D) The maximum instrument reading measured by the procedures in 40 CFR 63.983(C) after the leak is successfully repaired or determined to be nonrepairable.

Koppers Comments: If applicable, this information will be included in Attachment 3.

(E) "Repair delayed" and the reason for the delay if a leak is not repaired within 15 days after discovery of the leak. The owner or operator may develop a written procedure that identifies the conditions that justify a delay of repair. In such cases, reasons for delay of repair may be documented by citing the relevant sections of the written procedure.

Koppers Comments: If applicable, this information is included in Attachment 3.

- (ii) Reports of the times of all periods recorded under 40 CFR 63.998(d)(1)(ii)(A) when the vent stream is diverted from the control device through a bypass line; and
- (iii) Reports of all times recorded under 40 CFR 63.998(d)(1)(ii)(B) when maintenance is performed in carsealed valves, when the seal is broken, when the bypass line valve position is changed, or the key for a lock-and-key type configuration has been checked out.

Koppers Comments: Bypass events are included in Attachment 2 Table 9.

(3) For flares subject to 40 CFR 63.999, report all periods when all pilot flames were absent or the flare flame was absent as recorded in 40 CFR 63.998(a)(1)(i)(C).

Koppers Comments: Not applicable - there are no flares

- (4) For storage vessels, the owner or operator shall include in each periodic report the information specified in 40 CFR 63.999(c)(4)(i) though (iii).
 - (i) For the 6-month period covered by the periodic report, the information recorded in 40 CFR 63.998(d)(2)(ii)(A) through (C).
 - (A) The first time of day and date of the requirements of 40 CFR 63.983(a), 63.985(a), or 63.987(a), as applicable, were not met at the beginning of the planned routine maintenance, and
 - (B) The first time of day and date the requirements of 63.983(a), 63.985(a), or 63.987(a), as applicable, were met at the conclusion of the planned routine maintenance.

Koppers Comments: Not applicable – there are no MON Group 1 storage vessels

(ii) For the time period covered by the periodic report and the previous periodic report, the total number of hours that the control system did not meet the requirements of 40 CFR 63.983(a), 63.985(a), or 63.987(a) due to planned routine maintenance.

Koppers Comments: Not applicable – there are no MON Group 1 storage vessels

(iii) A description of the planned routine maintenance during the next 6-month periodic reporting period that is anticipated to be performed for the control system when it is not expected to meet the required control efficiency. This description shall include the type of maintenance necessary, planned frequency of maintenance, and expected lengths of maintenance periods.

Koppers Comments: Not applicable – there are no MON Group 1 storage vessels

(5) If a control device other than a flare is used to control emissions from storage vessels or low throughput transfer racks, 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 paragraph 40 CFR 63.999(b)(3). The description shall include the information specified in 40 CFR 63.999(c)(5)(i) and (ii).

- (i) Identification of the control device for which the measured parameters were outside of the established ranges, and
- (ii) The cause for the measured parameters to be outside of the established ranges.

Koppers Comments Not applicable – there are no MON Group 1 storage vessels or transfer racks

- (6) For process vents and transfer racks (except low throughput transfer racks), periodic reports shall include the information specified in 40 CFR 63.999(c)(6)(i) through (iv).
 - (i) Periodic reports shall include the daily average values of monitored parameters, calculated as specified in 40 CFR 63.998(b)(3)(i) for any days when the daily average is outside the bounds as defined in 40 CFR 63.998(c)(2)(iii) or (c)(3)(iii), or the data availability requirements defined in paragraphs 40 CFR 63.999(c)(6)(i)(A) through (D) are not met, whether these excursions are excused or unexcused excursions. For excursions caused by lack of monitoring data, the duration of periods when monitoring data were not collected shall be specified. An excursion means any of the cases listed in 40 CFR 63.999(c)(6)(i)(A) through (C). If the owner or operator elects not to retain the daily average values pursuant to 40 CFR 63.998(b)(5)(ii)(A), the owner or operator shall report this in the Periodic Report.
 - (A) When the daily average value of one or more monitored parameters is outside the permitted range.
 - (B) When the period of control or recovery device operation is 4 hours or greater in an operating day and monitoring data are insufficient to constitute a

valid hour of data for at least 75 percent of the operating hours.

- (C) When the period of control or recovery device operation is less than 4 hours in an operating day and more than one of the hours during the period of operation does not constitute a valid hour of data due to insufficient monitoring data.
- (D) Monitoring data are insufficient to constitute a valid hour of data as used in 40 CFR 63.999(c)(6)(i)(B) and (C), if measured values are unavailable for any of the 15-minute periods within the hour.

Koppers Comments: This information required above is provided in Attachment 2 Table 4.

(ii) Report all carbon-bed regeneration cycles during which the parameters recorded under 40 CFR 63.998(a)(2)(ii)(C) were outside the ranges established in the Notification of Compliance Status or in the operating permit.

Koppers Comments: Not Applicable as Koppers does not operate a carbon bed at any MCPUs.

(iii) The provisions of 40 CFR 63.999(c)(6)(i) and (ii) do not apply to any low throughput transfer rack for which the owner or operator has elected to comply with 40 CFR 63.985 or to any storage vessel for which the owner or operator is not required, by the applicable monitoring plan established under 40 CFR 63.985(c)(1), 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 63.999(c)(6)(i) and (ii) apply.

Koppers Comments: Not Applicable as Koppers does not operate any units identified above at the MON MCPUs.

(iv) If the owner or operator has chosen to use the alternative recordkeeping requirements of 40 CFR 63.998(b)(5), and has not notified the Administrator in the Notification of Compliance Status that the alternative recordkeeping provisions are being implemented as specified in 40 CFR 63.999(b)(5), the owner or operator shall notify the Administrator in the Periodic Report submitted immediately preceding implementation of the alternative. The notifications specified in 40 CFR 63.998(b)(5)(ii) shall be included in the next Periodic Report following the identified event.

Koppers Comments: Koppers included notification of all alternative recordkeeping in the Notification of Compliance Status report.

(7) As specified in 40 CFR 63.997(c)(3), if an owner or operator at a facility not required to obtain a Title V permit elects at a later date to replace an existing control or recovery device with a different control or recovery device, then the Administrator shall be notified by the owner or operator before implementing the change. This notification may be included in the facility's periodic reporting.

Koppers Comments: Koppers is required to obtain a Title V permit; therefore, this statement is not applicable.

§63.2520(e)(10) Notification of process change.

§63.2520(e)(10)(i) Except as specified in paragraph (e)(10)(ii) of this section, whenever you make a process change, or change any of the information submitted in the notification of compliance status report or a previous compliance report, that is not within the scope of an existing operating scenario, you must document the change in your compliance report. A process change does not include moving within a range of conditions identified in the standard batch, and a nonstandard batch does not constitute a process change. The notification must include all of the information in paragraphs (e)(10)(i)(A) through (C) of this section.

- (A) A description of the process change.
- (B) Revisions to any of the information reported in the original notification of compliance status report under paragraph (d) of this section.
- (C) Information required by the notification of compliance status report under paragraph (d) of this section for changes involving the addition of processes or equipment at the affected source.

Koppers Comments: No process changes in this reporting period.

§63.2520(e)(10)(ii) You must submit a report 60 days before the scheduled implementation date of any of the changes identified in paragraph (e)(10)(ii)(A), (B), or (C) of this section.

- (A) Any change to the information contained in the precompliance report.
- (B) A change in the status of a control device from small to large.
- (C) A change from Group 2 to Group 1 for any emission point except for batch process vents that meet the conditions specified in §63.2460(b)(6)(i).

Koppers Comments: No changes during this reporting period, therefore, not applicable.

40 CFR §63.1039 - EQUIPMENT LEAK REPORTING

§63.1039(b) Periodic Reports. The owner or operator shall report the information specified in paragraphs (b)(1) through (b)(8) of this section, as applicable, in the Periodic Report specified in the referencing subpart.

§63.1039(b)(1) For the equipment specified in paragraphs (b)(1)(i) through (b)(1)(v) of this section, report in a summary format by equipment type, the number of components for which leaks were detected and for valves, pumps and connectors show the percent leakers, and the total number of components monitored. Also include the number of leaking components that were not repaired as required by §63.1024, and for valves and connectors, identify the number of components that are determined by §63.1025(c)(3) to be nonrepairable.

- (i) Valves in gas and vapor service and in light liquid service pursuant to §63.1025(b) and (c).
- (ii) Pumps in light liquid service pursuant to §63.1026(b) and (c).
- (iii) Connectors in gas and vapor service and in light liquid service pursuant to §63.1027(b) and (c).
- (iv) Agitators in gas and vapor service and in light liquid service pursuant to §63.1028(c).
- (v) Compressors pursuant to §63.1031(d).

Koppers Comments: This information is included in Attachment 3.

§63.1039(b)(2) Where any delay of repair is utilized pursuant to §63.1024(d), report that delay of repair has occurred and report the number of instances of delay of repair.

Koppers Comments: This information is provided in Attachment 3.

§63.1039(b)(3) If applicable, report the valve subgrouping information specified in §63.1025(b)(4)(iv).

Koppers Comments: No valves were reassigned between subgroups during the reporting period.

§63.1039(b)(4) For pressure relief devices in gas and vapor service pursuant to §63.1030(b) and for compressors pursuant to §63.1031(f) that are to be operated at a leak detection instrument reading of less than 500 parts per million, report the results of all monitoring to show compliance conducted within the semiannual reporting period.

Koppers Comments: This information is included in Attachment 3

§63.1039(b)(5) Report, if applicable, the initiation of a monthly monitoring program for valves pursuant to §63.1025(b)(3)(i).

Koppers Comments: This information is included in Attachment 3

§63.1039(b)(6). Report, if applicable, the initiation of a quality improvement program for pumps pursuant to §63.1035.

Koppers Comments: Not applicable.

§63.1036(b)(7) Where the alternative means of emissions limitation for batch processes is utilized, report the information listed in §63.1036(f).

Koppers Comments: Koppers has not chosen to use the alternative emission limitations in §63.1036(b)(7), therefore the information in §63.1036(f) is not required.

§63.1039(b)(8) Report the information listed in paragraph (a) of this section for the Initial Compliance Status Report for process units or affected facilities with later compliance dates. Report any revisions to items reported in an earlier Initial Compliance Status Report if the method of compliance has changed since the last report.

Koppers Comments: No changes in compliance methods have been made since the previous report.

40 CFR §63.104 – HEAT EXCHANGE SYSTEM REPORTING

§63.104(f)(2). Reports. If an owner or operator invokes the delay of repair provisions for a heat exchange system, the following information shall be submitted in the next semi-annual periodic report required by §63.152(c) of subpart G of this part. If the leak remains unrepaired, the information shall also be submitted in each subsequent periodic report, until repair of the leak is reported.

- (i) The owner or operator shall report the presence of the leak and the date that the leak was detected.
- (ii) The owner or operator shall report whether or not the leak has been repaired.
- (iii) The owner or operator shall report the reason(s) for delay of repair. If delay of repair is invoked due to the reasons described in paragraph (e)(2) of this section, documentation of emissions estimates must also be submitted.
- (iv) If the leak remains unrepaired, the owner or operator shall report the expected date of repair.
- (v) If the leak is repaired, the owner or operator shall report the date the leak was successfully repaired.

Koppers Comments: The heat exchange systems are operated with the minimum pressure on the cooling water side at least 35 kilopascals greater than the maximum pressure on the process side. As provided in 40 CFR §63.104(a)(1), these heat exchangers are not subject to the monitoring requirements of 40 CFR §63.104.

40 CFR §63.10 - GENERAL PROVISIONS PERIODIC REPORTING

§63.10(e)(1) General. When more than one CEMS is used to measure the emissions from one affected source (e.g., multiple breechings, multiple outlets), the owner or operator shall report the results as required for each CEMS.

Koppers Comments: Not applicable - Koppers does not use a CEMS at any MCPU.

§63.10(e)(2) Reporting results of continuous monitoring system performance evaluations.

The owner or operator of an affected source required to install a CMS by a relevant standard shall furnish the Administrator a copy of a written report of the results of the CMS performance evaluation, as required under §63.8(e), simultaneously with the results of the performance test required under §63.7, unless otherwise specified in the relevant standard.

Koppers Comments: Reports of CMS performance evaluation results are only required for CEMS of the MON. Koppers does not use a CEMS in any MON affected MCPU. Therefore, this provision is not applicable.

ATTACHMENT 2 - COMPLIANCE REPORT TABLES

Reporting Period: July 01, 2022 through December 31, 2022

	Date of Last Certification or Audit (I)	NA	N/A	12/6/2022
	Monitored Parameter (I) Certification or Audit (I)	None	None	Thermal oxidizer temperature
	Associated CMS (I)	None	None	Pitch thermal oxidizer
[40 CFR 63.2520(e)(5)(iii)(G), (H), (I) & (J)]	HAP (G)	benzene, xylenes, toluene, naphthalene, phenol, styrene, ethylbenzene, cresols, quinoline, biphenyl, dibenzofuran and polyarografus (PAHs)	naphthalene, quinoline, biphenyl, dibenzofuran and polyaromatic hydrocarbons (PAHs).	naphthalene and polyaromatic hydrocarbons (PAHs).
[40 CFR 63.2520(e)(MCPU Description (H)	The Crude Tar Distillation process consists of raw crude tar being distilled to achieve various refined products for sale or use in other processes at the facility. The combined exhaust point is routed to two tube heaters (F-101 and F-201) for fuel value.	The Modified Pavement Sealer Base (MPSB) process is a batch operation consisting of four blending tanks. Petroleum tar and pavement scaler base are blended together to produce MPSB. The vents do not require control under the MON. Koppers currently controls three of the four tanks with the existing thermal oxidizer and tube heaters (F-101 and F-201).	The Type A Carbon Pitch process is a batch operation consisting of five blending tanks. Petroleum pitch and coal tar pitch are blended together to produce Type A Carbon Pitch. The vents are routed to the pitch thermal oxidizer for control.
	MCPU	Crude Tar Distillation	Modified Pavement Sealer Base (MPSB)	Type A Carbon Pitch Production

TABLE 1: Summary of Routine Maintenance on Storage Vessels Controlled By Flare or Control Device [40 CFR 63.999(c)(4)]

Reporting Period: July 01, 2022 through December 31, 2022

6-Month	Expected Duration (hours)					
Tank Description of Maintenance Event Identification Maintenance Event Description of Maintenance Event Date Event Concluded Was Concluded Conclud						
Duration of Maintenance Event Time Of Time Of Date Event Concluded Concluded Concluded						
e Event	Time Of Day Event was Concluded					
of Maintenanc	Date Event Concluded	ired				
Duration	2					
	Date	and therefore no controls are required				
	Description of Maintenance Event	Not applicable - There are no Group I MON storage tanks and t				
	Tank Identification	iere are no Group I				
	MCPU	Not applicable - Tr				

¹⁾ Provide this information as required at §63.998(d)(2)(ii).
2) Provide this information when planned maintenance may cause the control device to not meet the required control efficiency [§63.999(c)(4)(iii)].

TABLE 2: Flare Pilot Flame / Flare Flame Summary [40 CFR 63.999(c)(3)]

Reporting Period: July 01, 2022 through December 31, 2022

			Duration of I	Deviation ¹	
МСРИ	Flare Unit Identification	Date	Start Time	End Time	Duration (hours)
Not applica	ble - The flare has	been removed from:	service		
<u> </u>	×				
<u> </u>					
L	<u> </u>				

NOTES:

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¹⁾ List all periods during the reporting period when pilot flame(s) are absent or, if only the flare flame is monitored, all periods when the flare flame is absent

TABLE 3: Summary of Deviations - Units Operated without Continuous Monitoring System Reporting Period: July 01, 2022 through December 31, 2022

For each deviation from an emission limit, operating limit, or work practice standard, complete the following information [40CFR 63.2520(e)(5)(ii)]:

	Corrective Action Taken?							
	Cause of Deviation?							
Deviation?	Finish (mm/dd/yy hh:mm:ss)							
Duration of Deviation?	Start (mm/dd/yy hh:mm:ss)							
	Deviation Occurred During SSM Event? (yes/no)							
	MON Compliance Value?							
	Date of Deviation	eriod						
Total Operating	Time Of MCPU During this Reporting Period (hours, minutes)	None during reporting period						
I TO OFFI	Where Deviation Occurred	None						

NOTES

1) For MCPUs with batch vents, attach operating logs of batch operations for the day(s) during which the deviation occurred, except operating logs are not required for deviations of the work practice standards for equipment leaks (LDAR) (40 CFR 63 2520(e)(5)(ii)(C).

N/A = Not Applicable

TABLE 4: Summary of Deviations - MCPUs Operated with Continuous Monitoring System Reporting Period: July 01, 2022 through December 31, 2022

For each deviation from an emission limit or operating limit in an MCPU with a CMS, complete the following information [40CFR 63.2520(e)(5)(iii)]:

15 and CCAM Course	Deviation Deviation Control One of these Categories for the Deviation Deviation Control Occurred Equipment problem Ouring SSM (CEP), Process vent? (yes/no) Problem (PP), Other Known Cause (OKC), or Unknown Cause	Yes												
Seviation	Total Deviation as % of Total MCPU Occurred MCPU During SSM in this Reporting Period (%)	0.08%	0.10%	0.19%	0.22%	0.07%	%60:0	0.05%	%08.0	0.80%				
Summary of Deviation	Total Deviation Period (hours)	3.50	4.50	8.50	9.75	3.00	3.75	2.25	35.25	35.25				
Deviation3 4	Finish (mm/dd/yy hh:mm:ss)	17-Jul-22 11:30:00	04-Aug-22 13:45:00	11-Aug-22 08:45:00	13-Aug-22 09:45:00	29-Aug-22 19:15:00	07-Oct-22 16:30:00	27-Oct-22 11:00:00	me	the total operating time:	ting time:	al operating time	rating time	time.
Duration of Deviation	Start (mm/dd/yy hhmm.ss)	17-Jut-22 08:00:00	04-Aug-22 00:00:00	11-Aug-22 00:15:00	13-Aug-22 00:00:00	29-Aug-22 08:15:00	07-Oct-22 09:30:00	27-Oct-22 08:45:00	cent of the total operating ti	otal duration as a percent of	s a percent of the total opera	ation as a percent of the total	as a percent of the total ope	as a parnent of the total operating time.
	Date of Deviation	July 17, 2022	August 4, 2022	August 11, 2022	August 13, 2022	August 29, 2022	October 7, 2022	October 27, 2022	d the total duration as a per	nent Problems (CEP) and to	ns (PP) and total duration a	Causes (OKC) and total dur	ses (UC) and total duration	n of Chile downtime as a re
	Identification of Control Device (if applicable)	Pitch TO	Pitch TO	Pitch TO	Prtch TO	Pitch TO	Pitch TO	Pitch TO	lue to SSM events an	lue to Control Equipn	te to Process Problem	iue to Other Known C	iue to Unknown Caus	ime and total duration
	List MCPU or Storage Vessel Where Deviation Occurd ²	Pitch	Total duration of Deviations due to SSM events and the total duration as a percent of the total operating time.	Total duration of Deviations due to Control Equipment Problems (CEP) and total duration as a percent of the total operating time:	Total duration of Deviation due to Process Problems (PP) and total duration as a percent of the total operating time.	Total duration of Deviations due to Other Known Causes (OKC) and total duration as a percent of the total operating time.	Total duration of Deviations due to Unknown Causes (UC) and total duration as a percent of the total operating time	Total diseases of CMS downtime and total direction of CMS downtime						

NOTES:

- 1) Reporting requirements of 63.10(c) (8) for continuous emission monitoring systems (CEMS) are not required for CMS under the MON (40CFR 63.2520(e)(5)(iii)(B).
- 2) See Table 5 for description of each MCPU and associated CMS.
- 3) For CMS deviation, duration does not include times for zero (low-level) and high-level checks(40 CFR 63.2520(e)(5)(iii)(A).
 4) The duration of deviation may include times when the temperature is above 1350 °F, however, the period ends when a stable temperature is achieved. The total deviation period includes only those times when the measured value is below 1350 °F.

N/A = Not Applicable

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TABLE 5: Summary of MCPUs With Group 2 Process Vents With HAP Usage <10,000 lbs/year that Exceeded a HAP Threshold for the Reporting Period

Reporting Period: July 01, 2022 through December 31, 2022

MODE W/L.	Was each Batch a	Estimated Emissio	Ferimated Emissions For Non-Standard Batch (Ibs	Records of Daily 365-Day Rolling
MCFO Wilere				
Exceedance of Usage	Standard Batch?		HAP/Batch)	Summation Attached?
Threshold Occurred	(yes/no)	Uncontrolled	Controlled	(Yes/No)
Not applicab	le - HAP usage <10,0	00 lb/yr is not used to	Not applicable - HAP usage <10,000 lb/yr is not used to determine group status	

OTES

1) Records of the daily 365-day rolling summations of emissions, or alternative records that correlate to the emissions (e.g., number of batches), calculated no less frequently than monthly [40 CFR 63.2520(e)(5)(iv)].

TABLE 6: Summary of Process Additions or Revisions from NOCSR [40 CFR 63.2520(e)(10)]

Reporting Period: July 01, 2022 through December 31, 2022

Description of New or Revised Process	Required NOCSR Information Attached? (yes/no) ¹
None during reporting period	N/A

NOTES:

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¹⁾ Attach information required by the notification of compliance status report (NOCSR) for changes involving the addition or revision of processes or equipment at the affected source.

TABLE 7: Summary of New Operating Scenarios not Listed in the NOCSR [40 CFR 63.2520(e)(7)]¹
Reporting Period: July 01, 2022 through December 31, 2022

ions of Engineering Analyses ring Reporting Performed? (yes/no)			
Were Operating Conditions of Control/Treatment Exceeded During Reporting Period? (yes/no)		RIOD	
Operating Scenario		NONE DURING THE REPORTING PERIOD	
MCPU		NON	

NOTES:

¹⁾ For purposes of listing a new operating scenario, a revised operating scenario for an existing process is considered to be a new operating scenario.

TABLE 8: Summary of Heat Exchange System Leaks with Delayed Repair [40 CFR 63.104] Reporting Period: July 01, 2022 through December 31, 2022

e of Repair	nfirmation				
Date of First Date of Repair Date of Repair	Repair Attempt Completion Confirmation				
rst Date	mpt Cor				
Date of Fi	Repair Atte				
te of Repair	chedule)	*			
Expected Date of Repair	(attach a schedule)				
Estimated Emissions	Delay1				
Estimated	due to Delay				
y of Repair	nentation)		cable		
sons for Dela	(attach docum		Not Applicable		
eak Rea					
Date L	Detect				
Leaking Heat Date Leak Reasons for Delay of Repair	Exchanger ID Detected				
) ACODI I	MCFU				

NOTES:

- 1) An emission estimate is required when a delay of repair is invoked for reasons specified in 40 CFR 63.104(e)(2) which states:
- (e)(2) If a shutdown is not expected within the next 2 months, the owner or operator may delay repair as provided in paragraph (e)(2)(i) or (e)(2)(ii) of this section. Documentation of a decision to delay repair shall state the reasons repair was delayed and shall specify a schedule for completing the repair as soon as practical.
- shutdown of the process equipment associated with the leaking heat exchanger. The owner or operator shall document the basis for the determination that a shutdown for (e)(2)(i) If a shutdown for repair would cause greater emissions than the potential emissions from delaying repair, the owner or operator may delay repair until the next repair would cause greater emissions than the emissions likely to result from delaying repair as specified in paragraphs (e)(2)(i)(A) and (e)(2)(i)(B) of this section.
- pollutants listed in table 4 of this subpart in the cooling water from the leaking heat exchanger by the flowrate of the cooling water from the leaking heat exchanger by the expected duration of the delay. The owner or operator may calculate potential emissions using total organic carbon concentration instead of total hazardous air pollutants (e)(2)(i)(A) The owner or operator shall calculate the potential emissions from the leaking heat exchanger by multiplying the concentration of total hazardous air listed in table 4 of this subpart.
- (e)(2)(i)(B) The owner or operator shall determine emissions from purging and depressurizing the equipment that will result from the unscheduled shutdown for the
- (e)(2)(ii) If repair is delayed for reasons other than those specified in paragraph (e)(2)(i) of this section, the owner or operator may delay repair up to a maximum of 120 calendar days. The owner shall demonstrate that the necessary parts or personnel were not available.

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TABLE 9: Vent Stream Bypass Summary For Closed Vent Systems [40 CFR 63.999(c)(2)(ii) and (iii)]

Reporting Period: July 01, 2022 through December 31, 2022

in the second				Duratio	n of Maintens	ance or Other	Action ²
MCPU	Start Time	End Time	Duration (hours)				Duration
				Date	Start Time	End Time	(hours)
Type A Carbon Pitch	17-Jul-22 10:30:00	17-Jul-22 11:30:00	1,00				
Type A Carbon Pitch	04-Aug-22 09:30:00	04-Aug-22 11:00:00	1,50				
Type A Carbon Pitch	11-Aug-22 01:30:00	11-Aug-22 09:00:00	7:50				
Type A Carbon Pitch	13-Aug-22 10;45:00	13-Aug-22 00:45:00	2,00				
Type A Carbon Pitch	19-Aug-22 07:15:00	19-Aug-22 08:45:00	1.50				
Type A Carbon Pitch	07-Oct-22 09:45:00	07-Oct-22 12:45:00	3.00				
Type A Carbon Pitch	27-Oct-22 09:00:00	27-Oct-22 10:45:00	1.75				
Coal Tar Distillation	01-Jul-22 11:21:00	01-Jul-22 11:26:00	0.08				
Coal Tar Distillation	01-Jul-22 17:15:00	01-Jul-22 17:36:00	0,35				
Coal Tar Distillation Coal Tar Distillation	01-Jul-22 18:15:00	01-Jul-22 18:31:00 02-Jul-22 05:11:00	0.27				
Coal Tar Distillation	02-Jul-22 05:06:00 05-Jul-22 11:17:00	05-Jul-22 05 11:00 05-Jul-22 11:20:00	0.05				
Coal Tar Distillation	05-Jul-22 11:20:00	05-Jul-22 11:28:00	0.03				
Coal Tar Distillation	05-Jul-22 11:29:00	05-Jul-22 11:32:00	0.05				
Coal Tar Distillation	06-Jul-22 17:15:00	06-Jul-22 17:23:00	0.13				
Coal Tar Distillation	07-Jul-22 02 58:00	07-Jul-22 03:04:00	0.10				
Coal Tar Distillation	07-Jul-22 04:18:00	07-Jul-22 04:22:00	0,07				
Coal Tar Distillation	07-Jul-22 11:19:00	07-Jul-22 11:26:00	0.12				
Coal Tar Distillation	09-Jul-22 11:47:00	09-Jul-22 11:56:00	0.15				
Coal Tar Distillation	09-Jul-22 11:57:00	09-Jul-22 12:00:00	0.05				
Coal Tar Distillation	10-Jul-22 13:15:00	10-Jul-22 13:21:00	0.10				
Coal Tar Distillation	12-Jul-22 00:28:00	12-Jul-22 00:31:00	0,05				
Coal Tar Distillation	12-Jul-22 02:52:00	12-Jul-22 02 55 00	0.05				
Coal Tar Distillation	12-Jul-22 09:19:00	12-Jul-22 09:53:00	0.57				
Coal Tar Distillation	15-Jul-22 05:04:00	15-Jul-22 05:50:00	0.77				
Coal Tar Distillation	17-Jul-22 10:09:00	17-Jul-22 10 12 00	0.05				
Coal Tar Distillation	19-Jul-22 09:14:00	19-Jul-22 09:37:00	0.38				
Coal Tar Distillation	19-Jul-22 11:56:00	19-Jul-22 12 07:00	0.18				
Coal Tar Distillation	21-Jul-22 09:27:00	21-Jul-22 09 51 00	0.40				
Coal Tar Distillation	21-Jul-22 14:39:00	21-Jul-22 14:48:00	0.15				
Coal Tar Distillation	24-Jul-22 13:57:00	24-Jul-22 14:02:00	0.08				
Coal Tar Distillation	24-Jul-22 15:39:00	24-Jul-22 16:33:00	0.90				
Coal Tar Distillation	26-Jul-22 16:52:00	26-Jul-22 16:57:00	0.08				
Coal Tar Distillation	26-Jul-22 22:15:00	26-Jul-22 22:58:00	0.72				
Coal Tar Distillation	27-Jul-22 08:53:00	27-Jul-22 10:20:00	1.45				
Coal Tar Distillation	27-Jul-22 11:02:00	27-Jul-22 12:31:00	1.48				
Coal Tar Distillation	27-Jul-22 12:49:00	27-Jul-22 13:12:00	0.38				
Coal Tar Distillation Coal Tar Distillation	27-Jul-22 13:28:00 27-Jul-22 15:15:00	27-Jul-22 13:35:00 27-Jul-22 15:28:00	0.12				
Coal Tar Distillation	29-Jul-22 05:14:00	29-Jul-22 05:21:00	0.12				
Coal Tar Distillation	29-Jul-22 05:26:00	29-Jul-22 06:48:00	1.37				
Coal Tar Distillation	30-Jul-22 00:38:00	30-Jul-22 00:46:00	0.13				
Coal Tar Distillation	30-Jul-22 06:11:00	30-Jul-22 07:06:00	0.92				
Coal Tar Distillation	03-Aug-22 07:07:00	03-Aug-22 07:28:00	0.35				
Coal Tar Distillation	03-Aug-22 01:23:00	03-Aug-22 02:46:00	1.38				
Coal Tar Distillation	04-Aug-22 01:42:00	04-Aug-22 01:51:00	0,15				
Coal Tar Distillation	04-Aug-22 01:51:00	04-Aug-22 02:01:00	0.17				
Coal Tar Distillation	04-Aug-22 14:53:00	04-Aug-22 15:13:00	0.33				
Coal Tar Distillation	05-Aug-22 22:55:00	05-Aug-22 23:21:00	0.43				
Coal Tar Distillation	09-Aug-22 14:04:00	09-Aug-22 14:19:00	0,25				
Coal Tar Distillation	10-Aug-22 03:19:00	10-Aug-22 03:32:00	0.22				
Coal Tar Distillation	11-Aug-22 13:39:00	11-Aug-22 14:51:00	1.20				
Coal Tar Distillation	11-Aug-22 18:35:00	11-Aug-22 18:41:00	0,10				
Coal Tar Distillation	11-Aug-22 18:48:00	11-Aug-22 18:58:00	0.17				
Coal Tar Distillation	11-Aug-22 19:48:00	11-Aug-22 22:27:00	2.65				
Coal Tar Distillation	12-Aug-22 16:48:00	12-Aug-22 16:51:00	0.05				
Coal Tar Distillation	12-Aug-22 16:54:00	12-Aug-22 16:57:00	0.05				
Coal Tar Distillation	14-Aug-22 16:46:00	14-Aug-22 20:47:00	0.30				
Coal Tar Distillation	21-Aug-22 07:55:00	21-Aug-22 08:18:00	0.38				
Coal Tar Distillation	25-Aug-22 03:21:00	25-Aug-22 03:24:00	0.05				
Coal Tar Distillation	25-Aug-22 16:32:00	25-Aug-22 16:47:00	0.25				
Coal Tar Distillation	25-Aug-22 18:56:00	25-Aug-22 19:10:00	0.23				
Coal Tar Distillation	26-Aug-22 14:13:00	26-Aug-22 14:29:00	0.27				
Coal Tar Distillation	29-Aug-22 07:32:00	29-Aug-22 07:39:00	0,12				
Coal Tar Distillation	01-Sep-22 09:16:00	01-Sep-22 09:21:00	0.08				
Coal Tar Distillation Coal Tar Distillation	01-Sep-22 13:31:00 02-Sep-22 08:41:00	01-Sep-22 13:45:00 02-Sep-22 08:44:00	0.23				
Coal Tar Distillation		· · · · · · · · · · · · · · · · · · ·	0.05				
r Coar Far Distillation	03-Sep-22 11:13:00	03-Sep-22 11 26 00	U.ZZ				

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				D	CM-'		- A -a:2
MCPU	Start Time	End Time	Duration (hours)	Duratio Date	n of Maintena Start Time	End Time	Duration (hours)
Coal Tar Distillation	06-Sep-22 03:43:00	06-Sep-22 05:02:00	1.32				,
Coal Tar Distillation	06-Sep-22 09:07:00	06-Sep-22 09:21:00	0.23				
Coal Tar Distillation	11-Sep-22 23:48:00	11-Sep-22 23:51:00	0.05				
Coal Tar Distillation	22-Sep-22 01:14:00	22-Sep-22 01:32:00	0.30				
Coal Tar Distillation	22-Sep-22 08:39:00	22-Sep-22 08:59:00	0.33				
Coal Tar Distillation	23-Sep-22 19:06:00	23-Sep-22 19:23:00	0.28				
Coal Tar Distillation	24-Sep-22 02:50:00	24-Sep-22 03:18:00	0.47				
Coal Tar Distillation	24-Sep-22 18:27:00	24-Sep-22 19:27:00	1.00 0.30				
Coal Tar Distillation	26-Sep-22 12:52:00 26-Sep-22 13:12:00	26-Sep-22 13:10:00 26-Sep-22 13:44:00	0.53				
Coal Tar Distillation Coal Tar Distillation	26-Sep-22 15:12:00 26-Sep-22 15:25:00	26-Sep-22 15:49:00	0.40				
Coal Tar Distillation	27-Sep-22 15:17:00	27-Sep-22 15:26:00	0.15				
Coal Tar Distillation	27-Sep-22 15:36:00	27-Sep-22 15:43:00	0.12				
Coal Tar Distillation	01-Oct-22 06:41:00	01-Oct-22 06:56:00	0.25				
Coal Tar Distillation	04-Oct-22 16:09:00	04-Oct-22 16:29:00	0.33				
Coal Tar Distillation	05-Oct-22 15:34:00	05-Oct-22 15:38:00	0.07				
Coal Tar Distillation	05-Oct-22 18:16:00	05-Oct-22 18:19:00	0.05				
Coal Tar Distillation	05-Oct-22 20:09:00	05-Oct-22 20:12:00	0.05				
Coal Tar Distillation	05-Oct-22 20:49:00	05-Oct-22 20:54:00	0.08				
Coal Tar Distillation	05-Oct-22 21:09:00	05-Oct-22 21:14:00	0.08				
Coal Tar Distillation	05-Oct-22 21:39:00	05-Oct-22 21:44:00	80.0				
Coal Tar Distillation	06-Oct-22 02:25:00	06-Oct-22 02:28:00	0.05				
Coal Tar Distillation	06-Oct-22 03:36:00	06-Oct-22 03:39:00	0.05				
Coal Tar Distillation	06-Oct-22 06:17:00	06-Oct-22 06:20:00	0.05				
Coal Tar Distillation	06-Oct-22 06:52:00	08-Oct-22 06:58:00	0.10				
Coal Tar Distillation	06-Oct-22 07:07:00	06-Oct-22 07:10:00 06-Oct-22 10:46:00	0.05				
Coal Tar Distillation Coal Tar Distillation	06-Oct-22 10:42:00	06-Oct-22 10:46:00 06-Oct-22 12:57:00	0.07				
Coal Tar Distillation	06-Oct-22 12:53:00 06-Oct-22 13:11:00	06-Oct-22 12:57:00 06-Oct-22 13:17:00	0.10				
Coal Tar Distillation	06-Oct-22 14:48:00	06-Oct-22 14:51:00	0.05				
Coal Tar Distillation	06-Oct-22 15:03:00	06-Oct-22 15:06:00	0.05				
Coal Tar Distillation	06-Oct-22 15:26:00	08-Oct-22 15:30:00	0.07				
Coal Tar Distillation	06-Oct-22 16:35:00	06-Oct-22 16:38:00	0.05				
Coal Tar Distillation	06-Oct-22 16:41:00	06-Oct-22 16:45:00	0.07				
Coal Tar Distillation	06-Oct-22 17:11:00	06-Oct-22 17:15:00	0,07				
Coal Tar Distillation	06-Oct-22 17:28:00	06-Oct-22 17:31:00	0.05				
Coal Tar Distillation	06-Oct-22 18:19:00	06-Oct-22 18:22:00	0.05				
Coal Tar Distillation	06-Oct-22 18:38:00	06-Oct-22 18:41:00	0,05				
Coal Tar Distillation	06-Oct-22 20:40:00	06-Oct-22 20:43:00	0,05				
Coal Tar Distillation	06-Oct-22 22:14:00	06-Oct-22 22:18:00	0.07				
Coal Tar Distillation	06-Oct-22 23:12:00	06-Oct-22 23:15:00	0.05				
Coal Tar Distillation	07-Oct-22 00:37:00	07-Oct-22 00:41:00	0.07		Not Ap	plicable	
Coal Tar Distillation	07-Oct-22 01:08:00	07-Oct-22 01:11:00	0.05				
Coal Tar Distillation Coal Tar Distillation	07-Oct-22 01:45:00 07-Oct-22 02:35:00	07-Oct-22 01:49 00 07-Oct-22 02:39:00	0.07				
Coal Tar Distillation	07-Oct-22 02:39:00	07-Oct-22 02:39:00 07-Oct-22 03:34:00	0.07				
Coal Tar Distillation	07-Oct-22 04:12:00	07-Oct-22 04 16:00	0.07				
Coal Tar Distillation	07-Oct-22 04:12:00	07-Oct-22 04:32:00	0.05				
Coal Tar Distillation	07-Oct-22 05:43:00	07-Oct-22 05:46:00	0.05				
Coal Tar Distillation	07-Oct-22 06:41:00	07-Oct-22 06:45:00	0.07				
Coal Tar Distillation	07-Oct-22 08:11:00	07-Oct-22 08:14:00	0.05				
Coal Tar Distillation	07-Oct-22 08:27:00	07-Oct-22 08:30:00	0.05				
Coal Tar Distillation	07-Oct-22 08:46:00	07-Oct-22 08:50:00	0.07				
Coal Tar Distillation	07-Oct-22 08:53:00	07-Oct-22 08:57:00	0.07				
Coal Tar Distillation	07-Oct-22 09:59:00	07-Oct-22 10:02:00	0.05				
Coal Tar Distillation	07-Oct-22 10:14:00	07-Oct-22 10:18:00	0.07				
Coal Tar Distillation	07-Oct-22 10:56:00	07-Oct-22 11:00:00	0.07				
Coal Tar Distillation	07-Oct-22 11:32:00 07-Oct-22 15:02:00	07-Oct-22 11:38:00 07-Oct-22 15:05:00	0.07				
Coal Tar Distillation Coal Tar Distillation	07-Oct-22 15:02:00 07-Oct-22 15:45:00	07-Oct-22 15:05:00 07-Oct-22 15:49:00	0.05_				
Coal Tar Distillation	07-Oct-22 15:45:00 07-Oct-22 15:59:00	07-Oct-22 15:49:00 07-Oct-22 16:03:00	0.07				
Coal Tar Distillation	07-Oct-22 17:39:00	07-Oct-22 17:42:00	0.05				
Coal Tar Distillation	11-Oct-22 02:00:00	11-Oct-22 02:06:00	0.10				
Coal Tar Distillation	11-Oct-22 03:42:00	11-Oct-22 03:50:00	0.13				
Coal Tar Distillation	11-Oct-22 03:57:00	11-Oct-22 04:04:00	0.12				
Coal Tar Distillation	12-Oct-22 14:10:00	12-Oct-22 14:17:00	0.12				
Coal Tar Distillation	12-Oct-22 16:16:00	12-Oct-22 16:21:00	0,08				
Coal Tar Distillation	17-Oct-22 15:00:00	17-Oct-22 15:30:00	0.50				
Coal Tar Distillation	18-Oct-22 07:14:00	18-Oct-22 08:03:00	0.82				
Coal Tar Distillation	18-Oct-22 08:37:00	18-Oct-22 09:29:00	0.87				
Coal Tar Distillation	18-Oct-22 10:24:00	18-Oct-22 10:59:00	0.58				
Coal Tar Distillation	18-Oct-22 13:39:00	18-Oct-22 14:57:00	1,30				
Coal Tar Distillation	19-Oct-22 12:02:00	19-Oct-22 12:52:00	0.83	ļ			

			T T	Duratio	n of Maintena	ince or Other	Action
мсри	Start Time	End Time	Duration (hours)	Date	Start Time	End Time	Duration (hours)
Coal Tar Distillation	19-Oct-22 13:18:00	19-Oct-22 14:09:00	0.85		-		
Coal Tar Distillation	19-Oct-22 19:57:00	19-Oct-22 20:05:00	0.13				
Coal Tar Distillation	19-Oct-22 21:40:00	19-Oct-22 21:45:00	0,08				
Coal Tar Distillation	20-Oct-22 03:08:00	20-Oct-22 03:17:00 21-Oct-22 13:24:00	0.13				
Coal Tar Distillation	21-Oct-22 13:07:00 21-Oct-22 13:40:00	21-Oct-22 13:58:00	0.30				1
Coal Tar Distillation Coal Tar Distillation	21-Oct-22 17:43:00	21-Oct-22 17:49:00	0.10				
Coal Tar Distillation	21-Oct-22 18:02:00	21-Oct-22 18:07:00	0.08				
Coal Tar Distillation	21-Oct-22 18:39:00	21-Oct-22 18:44:00	0.08				
Coal Tar Distillation	21-Oct-22 19:36:00	21-Oct-22 19:41:00	0.08				
Coal Tar Distillation	22-Oct-22 13:00:00	22-Oct-22 13:05:00	0.08				
Coal Tar Distillation	26-Oct-22 19:10:00	26-Oct-22 19:17:00 28-Oct-22 23:47:00	0.98				
Coal Tar Distillation	28-Oct-22 22:48:00 28-Oct-22 23:55:00	29-Oct-22 00:01:00	0.10				
Coal Tar Distillation Coal Tar Distillation	29-Oct-22 06:47:00	29-Oct-22 06:56:00	0.15				
Coal Tar Distillation	29-Oct-22 07:48:00	29-Oct-22 07:58:00	0.17				
Coal Tar Distillation	29-Oct-22 20:58:00	29-Oct-22 21:05:00	0,12				
Coal Tar Distillation	29-Oct-22 21:28:00	29-Oct-22 21:35:00	0.12				
Coal Tar Distillation	30-Oct-22 07:25:00	30-Oct-22 07:31:00	0.10				
Coal Tar Distillation	30-Oct-22 12:58:00	30-Oct-22 13:05:00	0.13				
Coal Tar Distillation	30-Oct-22 13:14:00	30-Oct-22 13:22:00 30-Oct-22 18:54:00	0.15				
Coal Tar Distillation	30-Oct-22 18:45:00 30-Oct-22 20:12:00	30-Oct-22 21:04:00	0.87				
Coal Tar Distillation Coal Tar Distillation	03-Nov-22 01:00:00	03-Nov-22 01:12:00	0,20				
Coal Tar Distillation	03-Nov-22 19:32:00	03-Nov-22 19:37:00	0,08				
Coal Tar Distillation	03-Nov-22 20:22:00	03-Nov-22 20:28:00	0.10				
Coal Tar Distillation	04-Nov-22 11:58:00	04-Nov-22 12:05:00	0.12				
Coal Tar Distillation	04-Nov-22 12:24:00	04-Nov-22 12:29:00	0.08				
Coal Tar Distillation	04-Nov-22 13:40:00	04-Nov-22 13:45:00 04-Nov-22 14:19:00	0.10				
Coal Tar Distillation	04-Nov-22 14:13:00 04-Nov-22 14:40:00	04-Nov-22 14:49:00	0.15	1			
Coal Tar Distillation Coal Tar Distillation	04-Nov-22 14:40:00 04-Nov-22 15:04:00	04-Nov-22 15:15:00	0,18				
Coal Tar Distillation	04-Nov-22 15:37:00	04-Nov-22 15:43:00	0.10				
Coal Tar Distillation	04-Nov-22 16:18:00	04-Nov-22 16:25:00	0.12	l l			
Coal Tar Distillation	04-Nov-22 17:56:00	04-Nov-22 17:59:00	0.05				
Coal Tar Distillation	05-Nov-22 04:45:00	05-Nov-22 05:38:00	0.88	1			
Coal Tar Distillation	08-Nov-22 13:33:00	08-Nov-22 13:53:00 08-Nov-22 18:33:00	0.85	i			
Coal Tar Distillation	08-Nov-22 17:42:00	09-Nov-22 08:42:00	0,07	1			
Coal Tar Distillation	09-Nov-22 08:38:00 25-Nov-22 19:50:00	25-Nov-22 21:05:00	1.25	1			
Coal Tar Distillation Coal Tar Distillation	26-Nov-22 03:45:00	26-Nov-22 04:25:00	0.67]			
Coal Tar Distillation	26-Nov-22 14:46 00	26-Nov-22 14:50:00	0.07				
Coal Tar Distillation	26-Nov-22 15:40:00	26-Nov-22 15:53:00	0.22	4			
Coal Tar Distillation	26-Nov-22 16:02:00	26-Nov-22 17:23:00	0.40	-			
Coal Tar Distillation	26-Nov-22 18:18:00	26-Nov-22 18:42:00 26-Nov-22 21:56:00	0.40	1			
Coal Tar Distillation	26-Nov-22 21 33:00	28-Nov-22 05:09:00	0.08	1			
Coal Tar Distillation	28-Nov-22 05:04:00 06-Dec-22 09:54 00	06-Dec-22 10:26:00	0,53	1			
Coal Tar Distillation Coal Tar Distillation	07-Dec-22 08:14:00	07-Dec-22 08:35:00	0.35				
Coal Tar Distillation	07-Dec-22 20:14:00	07-Dec-22 21:28:00	1.23	1			
Coal Tar Distillation	07-Dec-22 21:38:00	07-Dec-22 21:40:00	0.03	-			
Coal Tar Distillation	07-Dec-22 22:26:00	07-Dec-22 22:29:00	0.05	-{			
Coal Tar Distillation	07-Dec-22 23 22 00	07-Dec-22 23:56:00 09-Dec-22 01:31:00	0.63	1			
Coal Tar Distillation	09-Dec-22 00:53:00 09-Dec-22 02:49:00	09-Dec-22 03:00:00	0.03	1			
Coal Tar Distillation Coal Tar Distillation	10-Dec-22 23:34:00	11-Dec-22 00:02:00	0.47	1			
Coal Tar Distillation	15-Dec-22 05:26:00	15-Dec-22 05:36:00	0.17]			
Coal Tar Distillation	15-Dec-22 07:26:00	15-Dec-22 08:15:00	0.82	4			
Coal Tar Distillation	15-Dec-22 11:29:00	15-Dec-22 11:44:00	0.25	-			
Coal Tar Distillation	15-Dec-22 14:45:00	15-Dec-22 15:15:00	0.50	-			
Coal Tar Distillation	15-Dec-22 14:45:00	15-Dec-22 15:40:00	0.92	-			
Coal Tar Distillation	15-Dec-22 18:44:00	15-Dec-22 18:51:00 15-Dec-22 22:52:00	0.12	1			
Coal Tar Distillation	15-Dec-22 22:46:00 16-Dec-22 11:21:00	16-Dec-22 11:31:00	0.17]			
Coal Tar Distillation Coal Tar Distillation	16-Dec-22 12:26:00	16-Dec-22 12:32:00	0.10				
Coal Tar Distillation	17-Dec-22 12:58:00	17-Dec-22 13:17:00	0.32	4			
Coal Tar Distillation	17-Dec-22 17:05:00	17-Dec-22 17:42:00	0.62	4			
Coal Tar Distillation	18-Dec-22 01:54:00	18-Dec-22 02:37:00	0.72	-			
Coal Tar Distillation	21-Dec-22 08:36:00	21-Dec-22 09:07:00	0.52	-			
Coal Tar Distribution	22-Dec-22 18:43:00	22-Dec-22 20:31:00 22-Dec-22 20:31:00	1,80	1			
Coal Tar Distillation	22-Dec-22 18:43:00 22-Dec-22 21:35:00	22-Dec-22 21:49:00	0.23	1			
Coal Tar Distillation Coal Tar Distillation	23-Dec-22 15:01:00	23-Dec-22 15:08:00	0.08				
Coar rat Distribution							

				Duration	of Maintena	ince or Othe	r Action ²
MCPU	Start Time	End Time	Duration (hours)				Duration
		_		Date	Start Time	End Time	(hours)
Coal Tar Distillation	23-Dec-22 19:19:00	23-Dec-22 19:24:00	0.08				
Coal Tar Distillation	23-Dec-22 19:25:00	23-Dec-22 19:32:00	0.12				
Coal Tar Distillation	24-Dec-22 04:55:00	24-Dec-22 05:10:00	0.25				
Coal Tar Distillation	24-Dec-22 05:19:00	24-Dec-22 05;27;00	0.13				
Coal Tar Distillation	27-Dec-22 09:08:00	27-Dec-22 11:35:00	2.45				
Coal Tar Distillation	31-Dec-22 15:31:00	31-Dec-22 16:31:00	1.00				

NOTES:

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¹⁾ For closed vent systems (CVS) under positive pressure subject to 40 CFR 63,983

²⁾ Report times of a CVS under positive pressure subject to 40 CFR 63.983 when maintenance is performed on a car-scaled valve, when the seal is broken, when the bypass line valve position is changed, or when the key for a lock-and-key type configuration has been checked out

Table 10: SSM Event Resulting in Excess Emissions Reporting Period: July 01, 2022 through December 31, 2022

Type A Plob August 1, 2022 Filters filture caused by brother shifter in air dempter Y Type A Plob August 1, 2022 Filters filture caused by brother shifter in air dempter Y Type A Plob August 1, 2022 Filters filture Type A Plob August 1, 2022 Filters filture Type A Plob August 10, 2022 Filty filture over Type A Plob August 10, 2022 Filty filture over Type A Plob August 10, 2022 Filty filture over Type A Plob August 10, 2022 Filty filture over Type A Plob August 10, 2022 Filty filture over Type A Plob August 10, 2022 Filty filture over Type A Plob August 10, 2022 Filty filture over Type A Plob August 10, 2022 Filty filture over Type A Plob August 10, 2022 Filty filture over Type A Plob August 10, 2022 Filty filture over Type A Plob August 10, 2022 Filty filture Type A Plob August 10, 2022 Filty	MCPU	Event Date	Description of Malfunction	Plan Fellowed?	Plan Not Followed? ²
Type A Piloh Appell 1, 2002 Type A Piloh Appell 2, 2002 Ty	MCFU	Event Date	resculation of instranction	(Y/N) ^t	Description of Actions Taken
Type A Prich Type A Prich August 11, 2002 Farme System Ris Vert Turk High Level Y Operator was not a weer Type A Prich Type A Prich August 12, 2002 Farme System Ris Vert Turk High Level Y Y Farme System Ris Vert Turk High Level Y Farm	Type A Pitch	July 17, 2022	Flame failure caused by broken shifter in air damper		
Type A Prich August 11, 2002 Spram System RS Veril Tamh High Level Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Type A Prich August 13, 2002 Type A Prich August 13, 2002 Type A Prich August 12, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 12, 2002 Type A Prich August 12, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 12, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 12, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 12, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 12, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 12, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Y Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Type A Prich August 13, 2002 Firm System RS Veril Tamh High Level Type A Prich August 13, 2002 Firm Syst					
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Coal Tar Distillation July 30, 2022 T.O. also locked out because of this. We were able to get the K/O Pots drained, the waste gas back on, and the Tar T.O. restored without having to circulate the units. PWG Valve showing closed. Issue corrected and tubeheater restarted. Unit 2 was down; unit 1 was feeding to the tubeheater; Lost the Tar TO early in the shift due to low amps on #2 vent pump. Suspected cause over heated pump, reset itself. Unit 2 PWG to Fume #2. Coal Tar Distillation August 4, 2022 Lost feed to unit 1 Had trouble switching from T1 to T200 from the corner feed pump. They were able to get feed after purging toward pump. They were able to get feed after purging toward T200 on the pump suction side for 5-10 minutes. Coal Tar Distillation August 4, 2022 Unit disruptions after switching and then losing feed. Y Coal Tar Distillation August 5, 2022 Loss of feed caused disruption in unit Y Coal Tar Distillation August 10, 2022 Loss of feed caused disruption in unit Y Coal Tar Distillation August 11, 2022 Vent 2 Pypassed Y Coal Tar Distillation August 11, 2022 Vent 2 Pypassed Y Coal Tar Distillation August 12, 2022 Vent 2 Pypassed Y Coal Tar Distillation August 12, 2022 Vent 2 Pypassed Y Coal Tar Distillation August 12, 2022 Vent 2 Pypassed Y				l '	
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Coal Tar Distillation August 12, 2022 Vent 2 bypassed Y					
					
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	Coal Tar Distillation	August 12, 2022	Vent 2 bypassed		
power bitip caused computer screens to blink off in TAR Y		1	power btip caused computer screens to blink off in TAR	I Y	1
Coal Tar Distillation control room everything continued running except for TAR August 14, 2022 TO		1	The second of th		1

	I		Plan Fellowed?	Plan Not Followed? ¹
МСРИ	Event Date	Description of Malfunction	(Y/N) ⁵	Description of Actions Taken
Coal Tar Distillation	August 21, 2022	Vent 2 bypassed	Υ	
Coal Tar Distillation	August 25, 2022	Verit 2 Dypassed	У	
Coal Tar Distillation	September 1, 2022	Feed Issues	Y	
Coal Tar Distillation	September 2, 2022	No tubeheater shutdown log comment	Y	
Coal Tar Distillation	September 3, 2022		Y	
Coal Tar Distillation	September 6, 2022 September 11, 2022	Feed issues Shut off reboiler without bringing vacuum above 700 mmHg	Y	
Coal Tar Distillation Coal Tar Distillation	September 13, 2022	during shut down of unit 1	Y	ļ
Coar 1at Distillation	September 13, 2022	Brining units online after utility outage; While starting up	Y	
		Unit 1, ran into feed issues, operator had shut off		
Coal Tar Distillation		tubeheater to maintain levels in the column, vacuum		
[pumps were shut off, while feed issues were being		
	September 14, 2022	resolved, SSM followed.		
Coal Tar Distillation	September 22, 2022	Electrician permitted to close sidestream on Unit #2 during	Y	
Coal Tar Distillation	September 22, 2022	switch over to PSB run. Lost tubeheater and then Tar TO,	Y	
Coal Tar Distillation	6	Unit 2 brought down to circulation - tubeheater shut off	Y	
	September 23, 2022	before bringing vacuum above 700 mmHg Unit 2 being brought back up - feed not started yet, full	Y	
Coal Tar Distillation	September 24, 2022	vacuum not achieved yet	' '	
Coal Tar Distillation	September 24, 2022	TO was restarted to repair a controls issue; No bypass of	Υ	
Coal Tar Distillation	September 26, 2022	tubeheaters at this time	Υ	
		#2 tar column went empty due to PTF valve leaking	Υ	
Coal Tar Distillation	September 26, 2022	through - lead to low flow in reboiler line		
Coal Tar Distillation		Unit 1 - welded cap leaking on South reboiler pump	Y	
Com the Distribution	September 26, 2022	suction, switched pumps		
December 1981 1981 19		Unit 1 - 1N reboiler pump was smoking. Reboiler tripped	Y	
Coal Tar Distillation	October 1, 2022	out during the changeover process. Vaccuum was not taken off the unit.		
Coal Tar Distillation	October 18, 2022	Low level in the tar column due to leakage from pitch to	y	
	CC(00e) 10, 2022	Low level in the tar column due to leakage from pitch to	Ý	
Coal Tar Distillation	October 18, 2022	flash due to leaking through		
Coltropication		Low level in the tar column due to leakage from pitch to	Υ	
Coal Tar Distillation	October 18, 2022	flash due to leaking through		
Coal Tar Distillation	October 18, 2022	Water in instrument air causing process control issues.	Y	
Coal Tar Distillation	October 18, 2022	Unit 1 was brought down to circulate	Y	
Coal Tar Distillation	October 19, 2022	Feed issues	Y	
Coal Tar Distillation	0-1-1- 40 0000	Water in instrument air causing process control issues.	Y	
Coal Tar Distillation	October 19, 2022 October 19, 2022	Unit 1 was brought down to circulate	Y	
Coal Tar Distillation	October 19, 2022	Feed issues	'	
	October 19, 2022	Low level in the tar column due to leakage from pitch to	Y	
Coal Tar Distillation	October 20, 2022	flash due to leaking through	l '	
0.100.001.001		Low level in the tar column due to leakage from pitch to	Υ	
Coal Tar Distillation	October 21, 2022	flash due to leaking through	<u> </u>	L
Coal Tar Distillation	October 21, 2022	Low level in the tar column due to leakage from pitch to	Υ	
Coal Tar Distillation	October 21, 2022	flash due to leaking through	Υ	
Coal Tar Distillation		Low level in the tar column due to leakage from pitch to	Y	
	October 21, 2022	flash due to leaking through		
Coal Tar Distillation	October 21, 2022	Low level in the tar column due to leakage from pitch to flash due to leaking through	γ	
Coal Tar Distillation	October 21, 2022	Shut off reboiler without bringing vacuum above 700 mmHg	Y	
Coal Tar Distribution	October 22, 2022	during shut down of unit 1	Ÿ	
	03.030, 22, 2002	Low level in the tar column due to leakage from pitch to	Y	
Coal Tar Distillation	October 26, 2022	flash due to leaking through	l	
Coal Tar Distillation		Low level in the tar column due to leakage from pitch to	Y	
COM THE DISTILLATION	October 28, 2022	flash due to leaking through		
Coal Tar Distillation	October 28, 2022	Low level in the tar column due to leakage from pitch to	Υ	ļ
Coal Tar Distillation	October 29, 2022	flash due to leaking through	Y	
Coal Tar Distillation	Codebar on acco	Low level in the tar column due to leakage from pitch to	[Y	l
	October 29, 2022	flash due to leaking through Low level in the tar column due to leakage from pitch to	γ	
Coal Tar Distillation	October 29, 2022	flash due to leaking through	Ι ΄	
Coal Tar Distillation	October 29, 2022	Low level in the tar column due to leakage from pitch to	Y	
Coal Tar Distillation	October 30, 2022	flash due to leaking through	Y	
Coal Tar Distillation	<u> </u>	Low level in the tar column due to leakage from pitch to	Ÿ	
COST 151 F12011800U	October 30, 2022	flash due to leaking through		
Coal Tar Distillation		Low level in the tar column due to leakage from pitch to	Y	
	October 30, 2022	flash due to leaking through		
Coal Tar Distillation	October 30, 2022	Low level in the tar column due to leakage from pitch to	Y Y	
Coal Tar Distillation	October 30, 2022	flash due to leaking through Low level in the tar column due to leakage from pitch to	Y	
Coal Tar Distillation	November 3, 2022	flash due to leaking through	· '	ŀ
	11010111001 0, 2022	Low level in the tar column due to leakage from pitch to	Y	
Coal Tar Distillation	November 3, 2022	flash due to leaking through		l
Coal Tar Distillation	November 3, 2022	Low level in the ter column due to leakage from pitch to	Υ	
Coal Tar Distillation	November 4, 2022	flash due to leaking through	Y	
		Water in the feed, pressure build up due to obstruction in	Y	
Coal Ter Distillation	November 4, 2022	waste line		
Coal Tar Distillation		Water in the feed, pressure build up due to obstruction in	Y	
	November 4, 2022	waste line		
Coal Tar Distillation	November 4, 2022	Water in the feed, pressure build up due to obstruction in waste line	Y Y	
Coal Tar Distillation	November 4, 2022	movio a io		

NCON!	Event Date	Description of Malfunction	Plan Followed?	Plan Not Followed?2
MCPU	Even Date	Description of Management	(Y/N) ¹	Description of Actions Taken
0.1-0.00		Water in the feed, pressure build up due to obstruction in	γ	
Coal Tar Distillation	November 4, 2022	waste line		
Coal Tar Distillation		Water in the feed, pressure build up due to obstruction in	Υ	
COM LE DISTINATION	November 4, 2022	waste line		
Coal Tar Distillation	November 4, 2022	Water in the feed, pressure build up due to obstruction in	Υ	
Coal Tar Distillation	November 4, 2022	waste line	Υ	
Coal Tar Distillation	November 8, 2022	feed issue	Y	
Coal Tar Distillation	November 8, 2022	<u> </u>	Y	
Coal Tar Distillation	November 25, 2022	flame eye not reeding, causing it to go out multiple times	Y	
Coal Tar Distillation	November 25, 2022	flame eye not reading, causing it to go out multiple times	Y	
Coal Tar Distillation	November 26, 2022		Y	
Coal Tar Distribution	November 26, 2022	flame eye not reading, causing it to go out multiple times	Y	
Coal Tar Distillation	November 26, 2022	flame eye not reading, causing it to go out multiple times	Υ	
Coal Tar Distillation	November 26, 2022	flame eye not reading, causing it to go out multiple times	Y	
Coal Tar Distillation	November 26, 2022			
Coal Tar Distillation	November 28, 2022	flame eye not reading, causing it to go out multiple times	Y	
Coal Tar Distillation	., ,	Pitch to flash leak and incoming feed issue led to low flow	'	
	November 28, 2022	in the column and eventually tripped the tube heater	Y	· · · · · · · · · · · · · · · · · · ·
Coal Tar Distillation	November 30, 2022	Both oil circulation pumps on scrubber were bad		
Coal Tar Distillation		Excessive scale buildup on both units causing the pump to have	'	
COM LA DISPITABLE	December 6, 2022	low amps	· v	
Coal Tar Distillation		TO readings were erratic, the valves were closed for	i ' I	
Coa 1a Distillation	December 7, 2022	troubleshooting the issue	V 1	
Coal Tar Distillation		PID on the TO was not tunned in correctly, it reacted too	l ' l	
COM THE DISHITATION	December 9, 2022	sensitively to any fluctuation	 	
Coal Tar Distillation		PID on the TO was not tunned in correctly, it reacted too	'	
Con 12 Distribution	December 9, 2022	sensitively to any fluctuation	 	
Coal Tar Distillation		Shut off reboiler without bringing vacuum above 700 mmHg	1 '	
Coa la Distriatori	December 10, 2022	during shut down of unit 1	 	
Coal Tar Distillation		Issues with the actuator valve not working properly after	1 ' 1	
	December 15, 2022	switching out the vaccum pump		
Coal Tar Distillation	1	Issues with the actuator valve not working properly after	1 ' 1	
COM TAI DISPITATION	December 15, 2022	switching out the vaccum pump	Y	
Coal Tar Distillation		Unit 1 brought down to circulation - tubeheater shut off before	'	
	December 15, 2022	bringing vacuum above 700 mmHg	Y	
Coal Tar Distillation	December 15, 2022	Reboller 1 tripped out	 '	
Coal Tar Distillation	December 15, 2022	Reboiler 1 tripped out	+ · · · · · · · · · · · · · · · · · · ·	
Coal Tar Distillation		vacuum pump leaks and incoming feed issue led to low flow in	'	
	December 16, 2022	the column and eventually tripped the tube heater vacuum pump leaks and incoming feed issue led to low flow in	Y	
Coal Tar Distillation	D	the column and eventually tripped the tube heater	'	
	December 16, 2022	vacuum pump leaks and incoming feed issue led to low flow in	Y	
Coal Tar Distillation	5	the column and eventually tripped the tube heater	1 ' 1	
	December 17, 2022	vacuum pump leaks and incoming feed issue led to low flow in	Y	
Coal Tar Distillation	0	the column and eventually tripped the tube heater		
	December 17, 2022 December 18, 2022	Waste gas valve was having issues with flow	Y	
Coal Tar Distillation		Loss of feed caused disruption in unit	Y	
Coal Tar Distillation	December 21, 2022	Fire was lost due to extreme cold weather	Y	
Coal Tar Distillation	December 22, 2022	Fire was lost due to extreme cold weather.	 	
Coal Tar Distillation	December 22, 2022	Fire was lost due to extreme cold weather.	1 Y	
Coal Tar Distrillation	December 22, 2022	vaccum issues in both units and incoming feed issues	Y 1	
Coal Tar Distillation	December 23, 2022	vaccum issues in both units and incoming feed issues	1 v	
Coal Tar Distillation	December 23, 2022	vaccum issues in both units and incoming feed issues	 	
Coal Tar Distillation	December 23, 2022	unit 2 vaccum issue and incoming feed issue led to low flow in	1	
Coal Tar Distillation	December 24, 2022	the column and eventually tripped the tube heater	1 '	

NOTES:
1) For each SSM event with EXCESS EMISSIONS, include records that the procedures specified in your startup, shutdown, and malfunction plan were followed [40 CFR 63.2520(e)(4)].
2) For each SSM event with EXCESS EMISSIONS, and the SSM Plan was not followed, describe actions taken that were not consistent with the plan [40 CFR 63.2520(e)(4)].

ATTACHMENT 3 - LDAR INFORMATION

TABLE 11: Semiannual Fugitive Emission Report For MON [40 CFR 63.1039(b)] Reporting Period: July 01, 2022 through December 31, 2022

No. of No. of Components Le Subject to Com	No. of Leaking Components Detected	No. of Components Monitored ²	Percent of Leaking Components	No. of Leaking Components 1 Not Repaired	No. of Leaking Components Defermined to be	No. of instances Utilizing Delay of Repair	Monitoring of Valves Initiated? (yes/no)	Quality Improvement Program Initaited for Pumps? (yes/no)
116	°	86	0.0%	0	0	0	N/A, No LL Valves	N/A
0	N/A	0	N/A	N/A	N/A	NA	N/A	N/A
307*	0	282	%0.0	0	0	0	N/A	N/A
13*	0	12	%0.0	0	0	0	ΥN	N/A
4	0	4	%0.0	0	0	0	Ϋ́Α	N/A
9	0	4	%0.0	0	0	0	Ϋ́Α	W/A

1) Represents counts as of the end of the report period. Excludes heavy fiquid service components and components designated for no detectable emissions. Identify with an asterisk (*) if there are any revisions *components added due to startup of Tank-101

2) Several MON Components were not monitored during this reporting period due to being out of service.

2/28/2023

F

Attachment K MON MACT Semi-Annual Report First Half of 2023 Response to Violation Notice A-2023-00162 Koppers Inc.



Koppers Inc.

Cicero, IL 60804-4523 Tel 708 222-3483 Fax 708 656 6079

www.koppers.com

Carbon Materials and Chemicals
3900 South Laramie Avenue

Via UPS Overnight Mail

August 30, 2023

Mr. Bill Marr, Manager Compliance Section Illinois Environmental Protection Agency Bureau of Air- Compliance Section (MC 40) 1021 N. Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

RE: Koppers Inc., Stickney Plant
ID Number: 031300AAJ
Permit Number: 96030134
MON MACT Semi-Annual Compliance Report,
January 1, 2023 – June 30, 2023 Reporting Period
40 CFR Part 63, Subpart FFFF, Section §63.2520(e).

Dear Mr. Marr:

Attached is Koppers Inc., Stickney Plant MON MACT Semi-Annual Compliance Report for the January 1, 2023 – June 30, 2023 reporting period.

A portion of the Stickney Plant operations is subject to the National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON MACT), 40 CFR Part 63, Subpart FFFF. Koppers Stickney Plant is submitting the Semi-Annual Compliance Report to fulfill the requirements of 40 CFR Part 63, Subpart FFFF, Section §63.2520(e) for the MON-affected Miscellaneous Chemical Processing Units (MCPUs).

The facility is an existing source with three miscellaneous organic chemical production units (MCPUs) subject to this standard: Crude Tar Distillation process, Modified Pavement Sealer Base (MPSB) process, and Type A Carbon Pitch process.

During this reporting period, the Crude Tar Distillation process exhaust points were routed to only the two tube heaters (F-101 and F-201) for fuel value. As stated in 40 CFR 63.2550(i), a gas stream transferred for fuel value is exempt from the MON definition of a continuous process vent by the exemption in 63.107(h)(6), as referenced in 63.2550(i). Accordingly, Koppers considers the vent from the Crude Tar Distillation process subject to Group 1 continuous process vent requirements only when it is being routed to the thermal oxidizer.

The Compliance Report consists of the following attached tables:

Table 1: Summary of Routine Maintenance on Storage Vessels Controlled By Flare or Control

Table 2: Flare Pilot Flame/Flare Flame Summary

Table 3: Summary of Deviations - Units Operated Without a Continuous Monitoring System (CMS)

Table 4: Summary of Deviations - MCPUs and Storage Vessels Operated With a Continuous Monitoring System (CMS)

Table 5: Summary of MCPU With Group 2 Process Vents With HAP Usage <10,000 lbs/year that Exceeded a HAP Threshold for the Reporting Period

Table 6: Summary of Process Additions or Revisions from NOCSR

Table 7: Summary of New Operating Scenarios Not Listed in the NOCSR

Table 8: Summary of Heat Exchange System Leaks with Delayed Repair

Table 9: Vent Stream Bypass Summary for Closed Vent Systems

Table 10: SSM Event Resulting in Excess Emissions

Table 11: Semi-Annual Fugitive Emission Report

The MCPUs at Koppers's Stickney Plant facility have no Group 1 Process Wastewater Streams, Group 1 Transfer Racks, or Group 1 storage tanks so reporting information is not required in those categories.

Should you have any questions or require further information, please contact Sidney Lipp at 708-222-3111.

Sincerely,

L. Seth Herring

Plant Manager CMC NA

Attachments:

Tables 1-11

Copy:
USEPA, Region 5
Air and Radiation Division
77 West Jackson Boulevard (A-18J)
Chicago, Illinois 60604-3507

Illinois EPA – Air Regional Field Office Illinois Environmental Protection Agency Division of Air Pollution Control 9511 W. Harrison St. Des Plaines, IL 60016

Certification by a Responsible Official:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	South	21	
Name:			
	L. Seth Herring		
Official Title:			
	Plant Manager	CMC NA	_
Telephone No	A 0-9		
	708-556-9984	1	
Date Signed:	8/30/2	3	

ATTACHMENT 1 — COMPLIANCE REPORT INFORMATION

This Attachment provides all information required under 40 CFR §63.2520 and referenced regulations. Information is organized by regulatory reference. Regulatory requirements for this compliance report are listed below in italics, followed by Koppers' comments addressing each element or providing the required information.

40 CFR §63.2520 - MON MACT COMPLIANCE REPORTING PROVISIONS

§63.2520(e). Compliance report. The compliance report must contain the information specified in paragraphs (e)(1) through (17) of this section.

§63.2520(e)(1). Company name and address.

Koppers Comments: Koppers, Inc.

3900 South Laramie Avenue Stickney, Illinois 60650

§63.2520(e)(2). Statement by a responsible official with that official's name, title, and signature, certifying the accuracy of the content of the report.

Koppers Comments: This information is provided on the signature page of this letter.

§63.2520(e)(3). Date of report and beginning and ending dates of the reporting period.

Koppers Comments: The date of the report is August 30, 2023. The reporting period begins on January 1, 2023 through June 30, 2023.

§63.2520(e)(4). For each SSM during which excess emissions occur, the compliance report must include records that the procedures specified in your startup, shutdown, and malfunction plan (SSMP) were followed or documentation of actions taken that are not consistent with the SSMP, and include a brief description of each malfunction.

Koppers Comments: As applicable for each SSM event, Attachment 2 Table 10 indicates whether actions taken were consistent with the procedures specified in the SSM Plan for affected units.

§63.2520(e)(5). The compliance report must contain the information on deviations, as defined in §63.2550, according to paragraphs (e)(5)(i), (ii), (iii), and (iv) of this section.

§63.2520(e)(5)(i). If there are no deviations from any emission limit, operating limit or work practice standard specified in this subpart, include a statement that there were no deviations from the emission limits, operating limits, or work practice standards during the reporting period.

Koppers Comments: Deviations during the reporting period are addressed in §63.2520(e)(5)(iii) below.

§63.2520(e)(5)(ii). For each deviation from an emission limit, operating limit, and work practice standard that occurs at an affected source where you are not using a continuous monitoring system (CMS) to comply with the emission limit or work practice standard in this subpart, you must include the information in paragraphs (e)(5)(ii)(A) through (C) of this section. This includes periods of SSM.

- (A) The total operating time of the affected source during the reporting period.
- (B) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
- (C) Operating logs of processes with batch vents from batch operations for the day(s) during which the deviation occurred, except operating logs are not required for deviations of the work practice standards for equipment leaks.

Koppers Comments: None during reporting period

§63.2520(e)(5)(iii). For each deviation from an emission limit or operating limit occurring at an affected source where you are using a CMS to comply with an emission limit in this subpart, you must include the information in paragraphs (e)(5)(iii)(A) through (L) of this section. This includes periods of SSM.

Koppers Comments: The required information is included in Attachment 2 Table 4.

§63.2520(e)(5)(iv). If you documented in your notification of compliance status report that an MCPU has Group 2 batch process vents because the non-reactive HAP is the only HAP and usage is less than 10,000 lb/yr, the total uncontrolled organic HAP emissions from the batch process vents in an MCPU will be less than 1,000 lb/yr for the anticipated number of standard batches, or total uncontrolled hydrogen halide and halogen HAP emissions from all batch process vents and continuous process vents in a process are less than 1,000 lb/yr, include the records associated with each calculation required by §63.2525(e) that exceeds an applicable HAP usage or emissions threshold.

Koppers Comments: Not applicable there are no Group 2 batch process vents established by the criteria above.

§63.2520(e)(6) If you use a CEMS, and there were no periods during which it was out-of-control as specified in §63.8(c)(7), include a statement that there were no periods during which the CEMS was out-of-control during the reporting period.

Koppers Comments: Not applicable - Koppers does not use CEMS at any MON affected units.

§63.2520(e)(7) Include each new operating scenario which has been operated since the time period covered by the last compliance report and has not been submitted in the notification of compliance status report or a previous compliance report. For each new operating scenario, you must provide verification that the operating conditions for any associated control or treatment device have not been exceeded and that any required calculations and engineering analyses have been performed. For the purposes of this paragraph, a revised operating scenario for an existing process is considered to be a new operating scenario.

Koppers Comments: Not applicable. No new operating scenarios were implemented during the reporting period.

§63.2520(e)(8). Records of process units added to a PUG as specified in §63.2525(i)(4) and records of primary product redeterminations as specified in §63.2525(i)(5).

Koppers Comments: Koppers does not use PUGs, therefore not applicable.

. Applicable records and information for periodic reports as specified in referenced subparts F, G, H, SS, UU, WW, and GGG of this part and subpart F of 40 CFR part 65.

Koppers Comments: Information required by Subpart UU is contained in the Equipment Leak section of this report. Subparts F, G, H, WW, and GGG are not applicable. The information required by Subpart SS is provided below.

Per 40 CFR 63.999(c)(1) (Subpart SS), the compliance report is required to contain the information described in paragraphs 40 CFR 63.999(c)(1) through (7), as applicable.

(1) Periodic reports shall include the reporting period dates, the total source operating time for the reporting period, and, as applicable, all information specified in this section and in the referencing subpart (40 CFR Part 63, Subpart FFFF), including reports of periods when monitored parameters are outside their established ranges.

Koppers Comments: The reporting period as provided above is January 1, 2023 through June 30, 2023. The source operating times are provided in Attachments 2. Reports of the periods when monitored parameters are outside their established ranges are addressed in these tables as well.

- (2) For closed vent systems subject to the requirements of 40 CFR 63.983, the owner or operator shall submit as part of the periodic report the information specified in paragraphs 40 CFR 63.999(c)(2)(i) through (iii) as applicable.
 - (i) For information recorded in 40 CFR 63.998(d)(1)(iii)(B) through (E);
 - (B) The date the leak was detected and the date of the first attempt to repair the leak.

Koppers Comments: If applicable, this information will be included in Attachment 3

(C) The date of successful repair of the leak.

Koppers Comments: If applicable, this information will be included in Attachment 3

(D) The maximum instrument reading measured by the procedures in 40 CFR 63.983(C) after the leak is successfully repaired or determined to be nonrepairable.

Koppers Comments: If applicable, this information will be included in Attachment 3.

(E) "Repair delayed" and the reason for the delay if a leak is not repaired within 15 days after discovery of the leak. The owner or operator may develop a written procedure that identifies the conditions that justify a delay of repair. In such cases, reasons for delay of repair may be documented by citing the relevant sections of the written procedure.

Koppers Comments: If applicable, this information is included in Attachment 3.

- (ii) Reports of the times of all periods recorded under 40 CFR 63.998(d)(1)(ll)(A) when the vent stream is diverted from the control device through a bypass line; and
- (iii) Reports of all times recorded under 40 CFR
 63.998(d)(1)(ii)(B) when maintenance is performed in carsealed valves, when the seal is broken, when the bypass
 line valve position is changed, or the key for a lock-andkey type configuration has been checked out.

Koppers Comments: Bypass events are included in Attachment 2 Table 9.

(3) For flares subject to 40 CFR 63.999, report all periods when all pilot flames were absent or the flare flame was absent as recorded in 40 CFR 63.998(a)(1)(i)(C).

Koppers Comments: Not applicable – there are no flares

- (4) For storage vessels, the owner or operator shall include in each periodic report the information specified in 40 CFR 63.999(c)(4)(i) though (iii).
 - (i) For the 6-month period covered by the periodic report, the information recorded in 40 CFR 63.998(d)(2)(ii)(A) through (C).
 - (A) The first time of day and date of the requirements of 40 CFR 63.983(a), 63.985(a), or 63.987(a), as applicable, were not met at the beginning of the planned routine maintenance, and
 - (B) The first time of day and date the requirements of 63.983(a), 63.985(a), or 63.987(a), as applicable, were met at the conclusion of the planned routine maintenance.

Koppers Comments: Not applicable – there are no MON Group 1 storage vessels

(ii) For the time period covered by the periodic report and the previous periodic report, the total number of hours that the control system did not meet the requirements of 40 CFR 63.983(a), 63.985(a), or 63.987(a) due to planned routine maintenance.

Koppers Comments: Not applicable – there are no MON Group 1 storage vessels

(iii) A description of the planned routine maintenance during the next 6-month periodic reporting period that is anticipated to be performed for the control system when it is not expected to meet the required control efficiency. This description shall include the type of maintenance necessary, planned frequency of maintenance, and expected lengths of maintenance periods.

Koppers Comments: Not applicable – there are no MON Group 1 storage vessels

(5) If a control device other than a flare is used to control emissions from storage vessels or low throughput transfer racks, 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 paragraph 40 CFR 63.999(b)(3). The description shall include the information specified in 40 CFR 63.999(c)(5)(i) and (ii).

- (i) Identification of the control device for which the measured parameters were outside of the established ranges, and
- (ii) The cause for the measured parameters to be outside of the established ranges.
 - Koppers Comments Not applicable there are no MON Group 1 storage vessels or transfer racks
- (6) For process vents and transfer racks (except low throughput transfer racks), periodic reports shall include the information specified in 40 CFR 63.999(c)(6)(i) through (iv).
 - (i) Periodic reports shall include the daily average values of monitored parameters, calculated as specified in 40 CFR 63.998(b)(3)(i) for any days when the daily average is outside the bounds as defined in 40 CFR 63.998(c)(2)(iii) or (c)(3)(iii), or the data availability requirements defined in paragraphs 40 CFR 63.999(c)(6)(i)(A) through (D) are not met, whether these excursions are excused or unexcused excursions. For excursions caused by lack of monitoring data, the duration of periods when monitoring data were not collected shall be specified. An excursion means any of the cases listed in 40 CFR 63.999(c)(6)(i)(A) through (C). If the owner or operator elects not to retain the daily average values pursuant to 40 CFR 63.998(b)(5)(ii)(A), the owner or operator shall report this in the Periodic Report.
 - (A) When the daily average value of one or more monitored parameters is outside the permitted range.
 - (B) When the period of control or recovery device operation is 4 hours or greater in an operating day and monitoring data are insufficient to constitute a

valid hour of data for at least 75 percent of the operating hours.

- (C) When the period of control or recovery device operation is less than 4 hours in an operating day and more than one of the hours during the period of operation does not constitute a valid hour of data due to insufficient monitoring data.
- (D) Monitoring data are insufficient to constitute a valid hour of data as used in 40 CFR 63.999(c)(6)(i)(B) and (C), if measured values are unavailable for any of the 15-minute periods within the hour.

Koppers Comments: This information required above is provided in Attachment 2 Table 4.

(ii) Report all carbon-bed regeneration cycles during which the parameters recorded under 40 CFR 63.998(a)(2)(ii)(C) were outside the ranges established in the Notification of Compliance Status or in the operating permit.

Koppers Comments: Not Applicable as Koppers does not operate a carbon bed at any MCPUs.

(iii) The provisions of 40 CFR 63.999(c)(6)(i) and (ii) do not apply to any low throughput transfer rack for which the owner or operator has elected to comply with 40 CFR 63.985 or to any storage vessel for which the owner or operator is not required, by the applicable monitoring plan established under 40 CFR 63.985(c)(1), 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 63.999(c)(6)(i) and (ii) apply.

Koppers Comments: Not Applicable as Koppers does not operate any units identified above at the MON MCPUs.

(iv) If the owner or operator has chosen to use the alternative recordkeeping requirements of 40 CFR 63.998(b)(5), and has not notified the Administrator in the Notification of

Compliance Status that the alternative recordkeeping provisions are being implemented as specified in 40 CFR 63.999(b)(5), the owner or operator shall notify the Administrator in the Periodic Report submitted immediately preceding implementation of the alternative. The notifications specified in 40 CFR 63.998(b)(5)(ii) shall be included in the next Periodic Report following the identified event.

Koppers Comments: Koppers included notification of all alternative recordkeeping in the Notification of Compliance Status report.

(7) As specified in 40 CFR 63.997(c)(3), if an owner or operator at a facility not required to obtain a Title V permit elects at a later date to replace an existing control or recovery device with a different control or recovery device, then the Administrator shall be notified by the owner or operator before implementing the change. This notification may be included in the facility's periodic reporting.

Koppers Comments: Koppers is required to obtain a Title V permit; therefore, this statement is not applicable.

§63.2520(e)(10) Notification of process change.

§63.2520(e)(10)(i) Except as specified in paragraph (e)(10)(ii) of this section, whenever you make a process change, or change any of the information submitted in the notification of compliance status report or a previous compliance report, that is not within the scope of an existing operating scenario, you must document the change in your compliance report. A process change does not include moving within a range of conditions identified in the standard batch, and a nonstandard batch does not constitute a process change. The notification must include all of the information in paragraphs (e)(10)(i)(A) through (C) of this section.

- (A) A description of the process change.
- (B) Revisions to any of the information reported in the original notification of compliance status report under paragraph (d) of this section.
- (C) Information required by the notification of compliance status report under paragraph (d) of this section for changes involving the addition of processes or equipment at the affected source.

Koppers Comments: No process changes in this reporting period.

§63.2520(e)(10)(ii) You must submit a report 60 days before the scheduled implementation date of any of the changes identified in paragraph (e)(10)(ii)(A), (B), or (C) of this section.

- (A) Any change to the information contained in the precompliance report.
- (B) A change in the status of a control device from small to large.
- (C) A change from Group 2 to Group 1 for any emission point except for batch process vents that meet the conditions specified in §63.2460(b)(6)(i).

Koppers Comments: No changes during this reporting period, therefore, not applicable.

(11) For each flare subject to the requirements in § 63.2450(e)(5), the compliance report must include the items specified in paragraphs (e)(11)(i) through (vi) of this section in lieu of the information required in § 63.999(c)(3) of subpart SS.

Koppers Comments: Not Applicable as Koppers does not operate a flare at the MON MCPUs.

(12) For bypass lines subject to the requirements § 63.2450(e)(6), the compliance report must include the start date, start time, duration in hours, estimate of the volume of gas in standard cubic feet, the concentration of organic HAP in the gas in parts per million by volume and the resulting mass emissions of organic HAP in pounds that bypass a control device. For periods when the flow indicator is not operating, report the start date, start time, and duration in hours.

Koppers Comments: This bypass lines requirements in § 63.2450(e)(6) are not applicable until after the compliance date (August 12, 2023). Koppers will report this information if applicable in the next periodic report.

(13) For each nonregenerative adsorber and regenerative adsorber that is regenerated offsite subject to the requirements in § 63.2450(e)(7), you must report the date of each instance when breakthrough, as defined in § 63.2550(i), is detected between the first and second adsorber and the adsorber is not replaced according to § 63.2450(e)(7)(iii)(A).

Koppers Comments: Not Applicable as Koppers does not operate an absorber at the MON MCPUs.

(14) For any maintenance vent release exceeding the applicable limits in § 63.2450(v)(1), the compliance report must include the information specified in paragraphs (e)(14)(i) through (iv) of this section. For the purposes of this reporting requirement, if you comply with § 63.2450(v)(1)(iv) then you must report each venting event conducted under those provisions and include an explanation for each event as to why utilization of this alternative was required.

Koppers Comments: This maintenance vents designations are not applicable until after the compliance date (August 12, 2023). Koppers will report this information if applicable in the next periodic report.

(15) Compliance reports for pressure relief devices subject to the requirements § 63.2480(e) must include the information specified in paragraphs (e)(15)(i) through (iii) of this section.

Koppers Comments: This information is not required until after the compliance date (August 12, 2023). Koppers will report this information in the next periodic report.

(16) For each heat exchange system subject to § 63.2490(d), beginning no later than the compliance dates specified in § 63.2445(g), the reporting requirements of § 63.104(f)(2) no longer apply; instead, the compliance report must include the information specified in paragraphs (e)(16)(i) through (v) of this section.

Koppers Comments: Not Applicable all MON affected heat exchange systems are operated with the minimum pressure on the cooling water side at least 35 kilopascals greater than the maximum pressure on the process side.

(17) For process vents and storage tanks in ethylene oxide service subject to the requirements of § 63.2493, the compliance report must include information specified in paragraphs (e)(17)(i) through (iii) of this section.

Koppers Comments: Not Applicable as Koppers does not have equipment in ethylene oxide service at the MON MCPUs.

40 CFR §63.1039 — EQUIPMENT LEAK REPORTING

§63.1039(b) Periodic Reports. The owner or operator shall report the information specified in paragraphs (b)(1) through (b)(8) of this section, as applicable, in the Periodic Report specified in the referencing subpart.

§63.1039(b)(1) For the equipment specified in paragraphs (b)(1)(i) through (b)(1)(v) of this section, report in a summary format by equipment type, the number of components for which leaks were detected and for valves, pumps and connectors show the percent leakers, and the total number of components monitored. Also include the number of leaking components that were not repaired as required by §63.1024, and for valves and connectors, identify the number of components that are determined by §63.1025(c)(3) to be nonrepairable.

- (i) Valves in gas and vapor service and in light liquid service pursuant to \$63.1025(b) and (c).
- (ii) Pumps in light liquid service pursuant to §63.1026(b) and (c).
- (iii) Connectors in gas and vapor service and in light liquid service pursuant to §63.1027(b) and (c).
- (iv) Agitators in gas and vapor service and in light liquid service pursuant to §63.1028(c).
- (v) Compressors pursuant to §63.1031(d).

Koppers Comments: This information is included in Attachment 3.

§63.1039(b)(2) Where any delay of repair is utilized pursuant to §63.1024(d), report that delay of repair has occurred and report the number of instances of delay of repair.

Koppers Comments: This information is provided in Attachment 3.

§63.1039(b)(3) If applicable, report the valve subgrouping information specified in §63.1025(b)(4)(iv).

Koppers Comments: No valves were reassigned between subgroups during the reporting period.

§63.1039(b)(4) For pressure relief devices in gas and vapor service pursuant to §63.1030(b) and for compressors pursuant to §63.1031(f) that are to be operated at a leak detection instrument reading of less than 500 parts per million, report the results of all monitoring to show compliance conducted within the semiannual reporting period.

Koppers Comments: This information is included in Attachment 3

§63.1039(b)(5) Report, if applicable, the initiation of a monthly monitoring program for valves pursuant to §63.1025(b)(3)(i).

Koppers Comments: This information is included in Attachment 3

§63.1039(b)(6). Report, if applicable, the initiation of a quality improvement program for pumps pursuant to §63.1035.

Koppers Comments: Not applicable.

§63.1036(b)(7) Where the alternative means of emissions limitation for batch processes is utilized, report the information listed in §63.1036(f).

Koppers Comments: Koppers has not chosen to use the alternative emission limitations in §63.1036(b)(7), therefore the information in §63.1036(f) is not required.

§63.1039(b)(8) Report the information listed in paragraph (a) of this section for the Initial Compliance Status Report for process units or affected facilities with later compliance dates. Report any revisions to items reported in an earlier Initial Compliance Status Report if the method of compliance has changed since the last report.

Koppers Comments: No changes in compliance methods have been made since the previous report.

40 CFR §63.104 -- HEAT EXCHANGE SYSTEM REPORTING

§63.104(f)(2). Reports. If an owner or operator invokes the delay of repair provisions for a heat exchange system, the following information shall be submitted in the next semi-ennual periodic report required by §63.152(c) of subpart G of this part. If the leak remains unrepaired, the information shall also be submitted in each subsequent periodic report, until repair of the leak is reported.

- (i) The owner or operator shall report the presence of the leak and the date that the leak was detected.
- (ii) The owner or operator shall report whether or not the leak has been repaired.

- (III) The owner or operator shall report the reason(s) for delay of repair. If delay of repair is invoked due to the reasons described in paragraph (e)(2) of this section, documentation of emissions estimates must also be submitted.
- (iv) If the leak remains unrepaired, the owner or operator shall report the expected date of repair.
- (v) If the leak is repaired, the owner or operator shall report the date the leak was successfully repaired.

Koppers Comments: The heat exchange systems are operated with the minimum pressure on the cooling water side at least 35 kilopascals greater than the maximum pressure on the process side. As provided in 40 CFR §63.104(a)(1), these heat exchangers are not subject to the monitoring requirements of 40 CFR §63.104.

40 CFR §63.10 - GENERAL PROVISIONS PERIODIC REPORTING

§63.10(e)(1) General. When more than one CEMS is used to measure the emissions from one affected source (e.g., multiple breechings, multiple outlets), the owner or operator shall report the results as required for each CEMS.

Koppers Comments: Not applicable - Koppers does not use a CEMS at any MCPU.

§63.10(e)(2) Reporting results of continuous monitoring system performance evaluations.

The owner or operator of an affected source required to install a CMS by a relevant standard shall furnish the Administrator a copy of a written report of the results of the CMS performance evaluation, as required under $\S63.8(e)$, simultaneously with the results of the performance test required under $\S63.7$, unless otherwise specified in the relevant standard.

Koppers Comments: Reports of CMS performance evaluation results are only required for CEMS of the MON. Koppers does not use a CEMS in any MON affected MCPU. Therefore, this provision is not applicable.

ATTACHMENT 2 - COMPLIANCE REPORT TABLES

Descriptions of MCPUs and Associated CMS Reporting Period: January 01, 2023 through June 30, 2023 140 CFR 63.2520(e)/(5)/(iii)/(1). (I). (I).

	Date of Last Certification or Audit (3)	۷ ۲	N/A	12/6/2022
	Monitored Parameter (I) Certification or Audit (J)	None	None	Thermal oxidizer temperature
	Associated CMS (I)	Може	None	Pitch thermal oxidizer
40 CFK 63.2520(e)(5)(m)(C), (H), (I) & (J)	HAP (G)	benzene, yplenes, polietie, naphbalacie, phenol, syvene, ethylbenzene, cresols, quinoline, bipbenyl, dibenzenkana and polyaromate in ydrocarbons [PAHs]	naphthalene, quiaoline, biphenyl, dibenzoftran and polyaromatic hydrocarbons (PARs).	naphthalene and polyaromatic hydrocarbons (PAEs).
40 CFR 63.2520(e)(3	MCPU Description (H)	The Crude Tar Discillation process consists of raw crude far being distilled to achieve various refined products for sale or use in other processes at the facility. The combined exhaust point is routed to two labe heaters (F-101 and F-201) for fael value.	The Modified Pavement Scaler Base (MAPSB) process is a batch operation consisting of four blending basis. Patroleum ter and pavement scaler base are blended together to produce MPSB. The vents do bot require control under the MCN, Koppers currently controls three of the four tanks with the existing Tar thermal oxidizer and tabe beaters (F-101 and F-201).	The Type A Carbon Pitch process is a batch operation consisting of five blending tanks. Petroleum pitch and coal arr pitch are blended together to produce Type A Carbon Pitch. The vents are routed to dre pitch thermal oxidizer for control.
	MCPU	Crude Tar Distillation	Modified Pavement Sealer Base (MPSB)	Type A Carbon Pitch Production

TABLE 1: Summary of Routine Maintenance on Storage Vessels Controlled By Flare or Control Device Reporting Period: January 01, 2023 through June 30, 2023 [40 CFR 63.999(c)(4)]

enance For Next Period ²	Planned
Planned Mainte	Description of Maintenance
	Duration
ce Event ¹	Date Event Day Event
Duration of Maintenance Event ¹	Date Event
Duration	Start Time Date Event Da
	Date
	Description of Maintenance Event
	Tank Identification

			1	_	_	1		
6-Month	Expected Duration (hours)							
nance For Next Period ²	Planned Frequency							
Planned Maintenance For Next 6-Month Period ²	Description of Maintenance Event							
	Duration (hours)							
e Event	Date Event Day Event Concluded was Concluded							
Duration of Maintenance Event ¹	Date Event Concluded	ured						
Duration	Start Time	ntrols are requ						
	Date	theretore no co						
	Description of Maintenance Event	Not applicable - There are no Group I MON storage tanks and therefore no controls are required			i			
	Fank Identification	here are no Group I						
	MCPU	Not applicable - T						

¹⁾ Provide this information as required at \$63.998(d)(2)(ii).
2) Provide this information when planned maintenance may cause the control device to not meet the required control efficiency [\$63.999(c)(4)(iii)].

TABLE 2: Flare Pilot Flame / Flare Flame Summary [40 CFR 63.999(c)(3)]

Reporting Period: January 01, 2023 through June 30, 2023

	Duration of Deviation									
Flare Unit Identification	Date	Start Time	End Time	Duration (hours)						
ble - The flare has	been removed from	service								
	Identification	Identification Date	Flare Unit Date Start Time	Flare Unit Identification Date Start Time End Time						

NOTES:

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¹⁾ List all periods during the reporting period when pilot flame(s) are absent or, if only the flare flame is monitored, all periods when the flare flame is absent

TABLE 3: Summary of Deviations - Units Operated without Continuous Monitoring System Reporting Period: January 01, 2023 through June 30, 2023

For each deviation from an emission limit, operating limit, or work practice standard, complete the following information [40CFR 63.2520(e)(5)(ii)]:

	Corrective Action Taken?							
	Cause of Deviation?							
Deviation?	Finish (mm/dd/yy hh:mm:ss)							
Duration of Deviation?	Start (mm/dd/yy hb:mm:ss)							
	Deviation Occurred During SSM Event? (yes/no)							
	MON mpliance Value?							
	Date of Deviation	criod						
Total Operating	Where During this Deviation Occurred Reporting Period Occurred (hours, minutes)	None during reporting period						
I in MCDI	Where Deviation Occurred	None						

NOTES:

1) For MCPUs with batch vents, attach operating logs of batch operations for the day(s) during which the deviation occurred, except operating logs are not required for deviations of the work practice standards for equipment leaks (LDAR) (40 CFR 63.2520(e)(s)(ii)(C).

N/A = Not Applicable

TABLE 4: Summary of Deviations - MCPUs Operated with Continuous Monitoring System Reporting Period: January 01, 2023 through June 30, 2023

For each deviation from an emission limit or operating limit in an MCPU with a CMS, complete the following information [40CFR 63.2520(e)(5)(iii)]:

			Duration of Deviation.	Deviation ^{3, 4}	Summary of Deviation	eviation		If not SSM Event
List MCPU or Storage Vessel Where Deviation Occurrd ²	Identification of Control Device (if applicable)	Date of Deviation	Start (mm/dd/yy hh:mm:ss)	Finish (mm/dd/yy hh:mm:ss)	Total Deviation Period (hours)	as % of Total McPu Operating Time in this Reporting Period (%)	Deviation Occurred During SSM Event? (yes/no)	Deviation Deviation Occurred During SSM (CEP); Process Event? (yes/no) Problem (PP); Other Known Cause (OKC); or Unknown Cause (UC)
П								
rting	No Deviation during reporting period							
Г								
ons d	ue to SSM events an	ed the total churchon as a p	Total duration of Deviations due to SSM events and the total duration as a percent of the total operating time:	time:	0.00	%00.0		
oms d	ue to Control Equips	ment Problems (CEP) and	Total duration of Deviations due to Control Equipment Problems (CEP) and total duration as a percent of the total operating	of the total operating	00'0	0.00%		
ion du	e to Process Probler	ms (PP) and total duration	Total duration of Deviation due to Process Problems (PP) and total duration as a percent of the total operating time:	crating time:				
ons d	ue to Other Known	Causes (OKC) and total d	Total duration of Deviations due to Other Known Causes (OKC) and total duration as a percent of the total operating time:	otal operating time;				
p suo	ue to Unknown Cau	uses (UC) and total duratio	Total duration of Deviations due to Unknown Causes (UC) and total duration as a percent of the total operating time:	perating time:				
ownth	me and total duratio	n of CMS downtime as a	Toral duration of CMS downtime and total duration of CMS downtime as a percent of the total operating time:	ug time:				

NOTES:

- 1) Reporting requirements of 63.10(c)(8) for continuous emission monitoring systems (CEMS) are not required for CMS under the MON (40CFR 63.2520(e)(5)(iii)(B).
- 2) See Table 5 for description of each MCPU and associated CMS.
- 3) For CMS deviation, duration does not include times for zero (low-level) and high-level checks(40 CFR 63.2520(e)(5)(iii)(A).
 4) The duration of deviation may include times when the temperature is above 1350 F, however, the period ends when a stable temperature is achieved. The total deviation period includes only those times when the measured value is below 1350 °F.

N/A = Not Applicable

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TABLE 5: Summary of MCPUs With Group 2 Process Vents With HAP Usage <10,000 lbs/year that Exceeded a HAP Threshold for the Reporting Period

Reporting Period: January 01, 2023 through June 30, 2023

Records of Daily 365-Day Rolling Summation Attached? ¹	(Yes/No)			
Estimated Emissions For Non-Standard Batch (lbs HAP/Batch)	Controlled	usage <10,000 lb/yr is not used to determine group status		
Estimated Emissi	Uncontrolled	300 lb/yr is not used		
Was each Batch a Standard Batch?	(yes/no)	le - HAP usage <10,(
MCPU Where Exceedance of Usage	Threshold Occurred	Not applicable - HAP		

NOTES:

1) Records of the daily 365-day rolling summations of emissions, or alternative records that correlate to the emissions (e.g., number of batches), calculated no less frequently than monthly [40 CFR 63.2520(e)(5)(iv)].

TABLE 6: Summary of Process Additions or Revisions from NOCSR [40 CFR 63.2520(e)(10)]

Reporting Period: January 01, 2023 through June 30, 2023

red NOCSR ion Attached? res/no) ¹
N/A

NOTES:

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¹⁾ Attach information required by the notification of compliance status report (NOCSR) for changes involving the addition or revision of processes or equipment at the affected source.

TABLE 7: Summary of New Operating Scenarios not Listed in the NOCSR [40 CFR 63.2520(e)(7)]¹ Reporting Period: January 01, 2023 through June 30, 2023

Required Calculations and Engineering Analyses Performed? (ves/no)			
Were Operating Conditions of Control/Treatment Exceeded During Reporting Period? (yes/no)		don	
Operating Scenario		NONE DURING THE REPORTING PERIOD	
MCPU			

NOTES:

¹⁾ For purposes of listing a new operating scenario, a revised operating scenario for an existing process is considered to be a new operating scenario.

TABLE 8: Summary of Heat Exchange System Leaks with Delayed Repair [40 CFR 63.104] Reporting Period: January 01, 2023 through June 30, 2023

Date of Repair Confirmation				
Date of First Date of Repair Date of Repair Repair Attempt Completion				
Date of First Repair Attempt				
Expected Date of Repair Date of Repair Date of Repair Date of Repair Completion Confirmation				
Estimated Emissions due to Delay				
Leaking Heat Date Leak Reasons for Delay of Repair Exchanger ID Detected (attach documentation)		Not Applicable		
Date Leak Detected				
Leaking Heat Date Leak Exchanger ID Detected				
MCPU				

NOTES:

1) An emission estimate is required when a delay of repair is invoked for reasons specified in 40 CFR 63.104(e)(2) which states:

(e)(2) If a shutdown is not expected within the next 2 months, the owner or operator may delay repair as provided in paragraph (e)(2)(i) or (e)(2)(ii) of this section. Documentation of a decision to delay repair shall state the reasons repair was delayed and shall specify a schedule for completing the repair as soon as practical. (e)(2)(i) If a shutdown for repair would cause greater emissions than the potential emissions from delaying repair, the owner or operator may delay repair until the next shutdown of the process equipment associated with the leaking heat exchanger. The owner or operator shall document the basis for the determination that a shutdown for repair would cause greater emissions than the emissions likely to result from delaying repair as specified in paragraphs (e)(2)(i)(A) and (e)(2)(i)(B) of this section.

pollutants listed in table 4 of this subpart in the cooling water from the leaking heat exchanger by the flowrate of the cooling water from the leaking heat exchanger by the expected duration of the delay. The owner or operator may calculate potential emissions using total organic carbon concentration instead of total hazardous air (e)(2)(i)(A) The owner or operator shall calculate the potential emissions from the leaking heat exchanger by multiplying the concentration of total hazardous air pollutants listed in table 4 of this subpart.

(e)(2)(i)(B) The owner or operator shall determine emissions from purging and depressurizing the equipment that will result from the unscheduled shutdown for the

(e)(2)(ii) If repair is delayed for reasons other than those specified in paragraph (e)(2)(i) of this section, the owner or operator may delay repair up to a maximum of 120 calendar days. The owner shall demonstrate that the necessary parts or personnel were not available.

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TABLE 9: Vent Stream Bypase Summary For Closed Vent Systems [40 CPR 63.999(c)(2)(\bar{n}) and (\bar{n})] Reporting Period: January 01, 2023 through June 30, 2023

MCFU	Atort Time	Cipil Them	(hours)	Durystles of M sincepure or Other Action Dain Start End Floor Decision See
THE A Codes Flick	70-Jen-23 14-1230 20-Jen-23 12-9530	10-Jan-23 15.30:00 30-Jan-23 15.50:30	1.5	
Lies A Certon Plob	20-Am-23 10:04:00	20-80-22 19:00:00	10	2
Trace A Clarken Pitch	25-lim-23 10.04500	20-An-22 16.00:00 20-An-22 16.00:00	0.0	
Lyor, A Carbon Pilich. Lyor, A Carbon, Pilyth	20-Jen-23 18:10:00 20-Jen-23 18:12:00	29-Jan-23 10:11:00 29-Jan-21 16:11:00	9.0	
LYEN A CHOSE PROB	91-P40-23 UP 27:00	01-Feb-22 11:33:00	15	
Day & Outher Plan	09-May-23-08-19-00	05-Mar-23 09 56 00	9.2	
Tyric A Carbon (Sich	01-Mar-23 18:24:90 02-Mar-23 08:12:00	01-Mar-23 17:14:00 03-Mar-23 16:37:00	2.6	
Lyng A Carlesa Plants	13-98te-23 11:99:00	13-We-23 (3:51:90	1.5	
Dors A. Carbon Pilish	25-Her-23 07-27-00	29-VAH-23 (R: 34:00	- 11	2
Tyre A Carbon Plick	27-46p1-23 17:51:00 03-46y-23 00:47:90	27-Aller 23 19:02:00 03-Aller 23 11:04:00	13	
Torre A Carbon Place Torre A Carbon Place	03-May-23 11:06:00 03-May-23 16:30:00	03-May-23 (\$19-00 03-May-23 17-21-03	5.2	b
Park A Curbon Pilich Face A Curbon Pilich	93-May-23 18:32:00	03-May-23 17:21:00 03-May-23 19-10:00	- 11	
erk A Carbon Plach	03-May-23 17:30:00 30-May-23 00,38:00	03-Mey-33 18:10:00 08-Mey-33 10:10:00	0.0	
Lift A Christa Blick	05-Jun-23 08:58:00	06-Am-23 08:17:90 19-Jun-23 19:37:90	I.A	
Cord The Distillation	19-347-23 19:00:00	19-Am-22 19:37:30 03-Am-21 09-30-40	93	
Cod Tac Drolleton	00-Jan-23 09:03:00 03-Jan-23 08:47:00	(G-Ann-22 (G-20:00 (G-Ann-22 (Bit 18:06		
Cool Dr. Distinction	04-Jan-23 21:40:03 04-Jan-93 22:47.00	04-Jan-23 21:50:00 04-Jan-23 23:50:00	61	
Cont Ter Disellative Cont Ter (Hadlesloe	19-Jan-23 18:10:00	10-Jen-23 10:35:00	93	R
Cost Ter DistRiction	10-Jen-23 18:10:00 10-Jen-23 19:16:00	10-Jun-23 10:35:00 10-Jun-23 19:34,50	0.7	
Cost De Diedletton	10-Jan-23 12:54:00 10-Jan-23 12:54:00	10-Jan-23 21:07:00 10-Jan-23 21:07:00	14	D)
Coal For Dividation	13-Jan-23 13:47:50	13-Jan-23 13 50:00	82	
Cred Tac Dissillation	17-Jan-23 52-41 00	17-Jun-23 12:46:00	61	
Cost Far Discillation Cost Far Discillation	17-Jen-23 18:00:00 17-Jen-23 18:49 00	17-4m-23 15:23:00 17-Jen-23 16:00:00	- 63	
Coel List Disabletion	17-Jan-23 18:34:00	17-Jun-23 19:38:00	91	
Coal Tax Papilletion.	17-Jan-23 16:34:00 18-Jan-29 97,01:00	17-Jun-23 10:30:00 16-Jun-23 07:30:00	25	
Cool For Distillation	18-Jen-23 09:57:50 18-Jen-23 11:51:30	18-Jan-23 19:21:00 18-Jan-23 11:25:00	9.6	
Cost Ter Displation Cost Ter Distillation	18-Jun-23 17:30:00	18-387-22 17:40:00	91	
Cost Tar Bisdfetion	10-Jun-23 17 20 20 10-Jun-23 17 27 20	18-Jan-23 17:40:00 19-Jan-23 17:20:00	0.2	
Coal Inc Distillation Coal Inc Distribution	20-Jan-23 07:52:00 20-Jan-23 15:22:00	25-Jan-23 08:00:00 20-Jan-23 18-25:00	1 01	
Coal De Pipilhetion	21-Jan-23 19:28:00	21-Jun-23 19:51:00	0.4	
Cost Tar Deschiptor	23-Jen-23 (05,53:00	23-81-23 25 38:30	9.1	
Cent Ter Discharton Cent Ter DestRetion	23-Jen-23 06:11:00 23-Jen-23 06:11:00	建設 建	1 11	
Coal Zier Dies@leclos	23-Jan-23 09:01:00 23-Jan-23 09:01:00	23-Jen-23 (9867.50 23-Jen-23 (98.57.50	6.9	
Cond The Disefflation.		20-300-20-04-07-09	- 62	
Cost for Deathers	23-Jan-23 17:49:00 24-Jan-23 01:43:00	23-Att-23 15:00:07 24-At-23 03:49:00	9.1	
Coal Out Workfamore	24-Jun-23 (3:13.00)	24-Jan-23 53: 19'99	0.1	
Cont For Distribution	34-Jenda 08:48:00	96-Jan-23 06 03 00	81	
Cred For Displayers	34-Jan-22 07:14:00 23-Jan-62 13:27:00	24-3m-23 11,07:00 25-3er-23 13,68,00	83	
Cost Far Disdition	25-Jan-23 22:19:00 25-Jan-23 22:19:00	25-Jan-23 Z3:10:00	0.8	
Cost Ter Discillation Cost Fix (Ph/Serios	25-Jun-23 22:19:00	25-Jan-23 23 10:00 23-Jan-23 25 43:00	8,8	
Cree Fee Dissillation	25-Jen-23 22:41.00 27-Jen-23 09:02:00	27-Jan-23 09.11.00	61	
Coul Dr. Divillation	27-Jan-23 0629 位 27-Jan-23 0629 位	27-bin-23 1024.09 27-bin-27 1626.00	0.9	
Cost The Disaffaction Cost Jar Disaffaction	31-Jan-23 00:2000	21-Mn-23 05:00:00	92	
Coul Tur Disablation	31-Jan-23 07:54:00 L	31-Jun-23 09:04:90	12	
Cont the Diedbrine	31-Jan-23 15:49:00 31-Jan-23 16:44:00	31-Jun-23 15:65:00	0.1	
Gred Tar Distribution	01-Feb-23 11:29:00	31-Jen-23 18:69:00 01-Peb-23 11:37:00	93	
Cruil Tay Dissillation	01-Feb-23 11-28-00 01-Feb-23 12-07-00	01-Feb-23 11:37:90 01-Feb-23 13.75:00	0.2	
Coul Yer Distillation Coul The Dwg/Beton	91-Feb-23 16:10:30 92-Feb-23 14:04:00	01-Feb-23-17-98-29 02-Feb-23-H-28-00	0.5	
Cori Jac Discillation	02-Feb-23 14:54:00 53-Feb-47 10:34:00	02-Feb-23 15:15:00	6.3	
Coni Tar Distribution	93-Fat-37 19:34:09	. 02-Feb-23,19:59:00	14	
Coel Jac Disclintion Cyni Tur Disclintion	02-Feb-23 17:01:00 03-Feb-63 13:28:00	02-Pat-23 15-38-00 03-149-23 13-68-00	0.3	
Cool Jac Distillation	770-7700300 074-230-250	07-Fub-23 09:07:00	1.5	
Cond That Distribution		07-Feb-23 11:60:00	24	
Cont. for Distillation.	NA NA	NA.	N/A	
Cosi Se Distindos	NA NA	PMA	MIR	
Coal Ter Discillation Coal Ser Discillation	06-Feb-27 23:12:00	96-Feb-23 23:17:00	N/A	
Coal for Distillation Coal for Destillation	05-Feb-63 11.29-00	09-Feb-25 11-42-00	65	
Civil For Disabletion	98-Feb-22 11:68:00	09-Feb-23 12-07-09	8.2	
Cost Par Decillation	NA NA	NA NA	.M/A	
Cost To: Distillation	09-Feb-23 12-55-00	09-Fash-23 13:12:00	93	
Coal the Disellation	G9-Feb-Z3 13-13-00	09-Fab-23 13-13-09 09-Fab-23 13-13-09 09-Fab-23 13-13-09	8.0	
Cool The Distriction	09-Feb-33-18-10-00 09-Feb-33-18-70-00	09-Enb-23 13-18-09 09-Enb-23 14-12-09	0.7	
Coul Tor Daugheisen	12-F49-63-03-08-09	10-Fab-21 (0)-19-00	9.1	
Conf. Far Distillation	12-740-23 17:19:00	12-Feb-23 17:27:00	9.1	
Coal Tar Displication	13-Pet-23 12-34:00 14-Pet-23 08:12:00	13-Fpb-23 12-31.00 14-Fpb-23 08-20.00	91	
Dent for Distillation	14-Pub-23 09:34:00	\$4-7 Ht-23 09,42:00	- BL	
Coal the Distillation.	18-Feb-23 12-27-00	10-Fab-23 00:42:00 10-Fab-23 12:33:00	61	
Coal Far Distillation	18-Feb-22 19:37:00	18-Pub-23 12:43:00	01	
Cond Tax Direttation	17-Feb-33-04-62-00	17-Fab-23 04:43:00	9.1	
Coal the Dartherns	17-Pag-27-07-20-00 17-Pag-27-20-27-00	17-6本27 (7-25-0)	81	
Coal Var Utställetion	22-Pep-23 02:01:00	23-Feb-23 02-79:00	0.2	
One Tot DisStation.	23-Feb-23 02:93.93 23-Feb-23 07:43.00	23-Feb-23-02-70-00 23-Feb-20-07-03-00	63	
Cool Die Diebbeton	23-Feb-33 18:58:00 23-Feb-33 18:21:00	23-F-(b-23 10:21.00 23-F-(b-23 19:55:00	14	
Cost for Purchasion.	20-Feb-03 18:21:00 (02-Her-23 17:51:00	92-Mer-23 17:10:00	0.1	
Cred the Buiggetien	1 054mm-23 09:38.00	92-Mer-23 17:10:00 03-Mer-23 09:41:00	0.1	
Coel for Dietholog	07-Mar-22 12-17:00 07-Mar-25 21:23:00	97-Mar 23 12:57.00 97-Mar 23 21:41:00	0.3	
Cord for Distillation	00-May 23 22-53-00 06-May 23 23 19-20	09-Mar 23 23:13:09	0.3	
Coal The Doubhases	Oh-May 23 27:19:00	09-May 23 23:13:00 08-May 23 23:30:00	0.5	
Coel the Distillation Coel for Geoffstion	09-44er-23 04:39:90 10-34er-23 20:17:00	10-May 27 07:27:00 10-May 23 30-37:00	0.3	
Cost Tee Discillation	50-May 23 23:54:00	11-Mar-23 00:01:00	0.1	
Coal Tay DecHarges	11-May-23 (82:4350)		0.1	
Cool Dar Dischlerion Cool The Dischlerion	12-46-22 09-20-00	13-May 23 06 25:00	9.1	
Cost By Distillation	12-May -23 16-23000 13-May -23 08-20-00 13-May -23 11-24-00	12 Aller 21 10 20 00 11 Aller 21 10 20 00 13 Aller 22 12 40 00 13 Aller 23 12 40 00	0.0	
Cost Tor Dischlation	1 13486-23 1531.00 I	13-64to-27 15-65-00	0.1	
Cost for Distriction	13-Mar-23 12:40:00 13-Mar-23 18:40:00	13-460-27 92 91 90 18-460-27 95 45 90 20-460-23 95 27 90 20-460-23 95 28 90	0.0	
	20.15 - 20.00 - 1.00	86 14 53 No. 43 Ac.		
on Ter Dard Intern	化工程程程	20-998-23 9/27/99	6.1	

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MCPU	Oner Xine	End Time	Durajim (tows)	Describe of Management or Other Action (Date Visco Egol Class Describe Second
Cool The Distillation Cool The Distillation	発性音楽技器	22-14th-23 15:30:00 23-14th-23 00:45:00	9.3	
Cool The Distillation	27-Mar-20 17;31,00 27-Mar-20 10;48,00	27-Mw-23 20:33:00	-2.2	
Cost for Distillation Cost for Distillation	27-Mar-23 18/48300	27-May-27-20-30.00 28-May-27-00-90.00 28-May-27-02-11-00	14	
Coal Tar Distribution Coal Tar Distribution	27-Mar-23 20:3-130 28-Mar-27 81-00:50 26-Mar-27 82-10:00	25-Ver-23 02:10.00 26-bler-23 02:30:00	13	
C'est Tiv D's Notion	21 44m-23 (E-10.00 Selfer-25 14:23 (E	28-May-33 14:32.00	1.0	
Coal for Distriction Coal for Distriction	204hr-23 11,32,00 3144m-23 00:+1,00	20 May 27 15/02/09 21 - May 27 00:47/20	9.3	
Cont for Distinction Creat flat ObsPlation	31-Mar-23 15:20:00 03-Apr-27 22:08:00	31-May 23 19:25:00 (03-Aur 23:22:14:00	90	
Crei the Distillation	03-Ace-23 23:28:00	03-Apr-21 20:30:50 04-Apr-23 11:24:00	0.1	
Cost De Distillation Cost De Distillation	04-Apr-23 11:18.00 04-Apr-23 17:50:00	94-Asr-23 11;24:00 94-Asr-23 17:39:50	91	
Cred Ter Distillation	01-Acc-23 17:90:00 01-Acc-23 (02:17:00)	06-Apr-23 (05-32-30 06-Apr-23 (05-32-30	0.2	
Coal The Direttrops Crest The Displaces	07-tor-21/20 11/20 07-tor-21/2/2/20	07-A01-23 02:18:00 07-A01-23 02:27:00	61	Not Applicable
Coal Dr. Dividition Coal Ter Decilation	09-40-23 (7:20:00 10-40-23 (0:42:00	00-Apr-23 07:30:00 10-Apr-23 11:01:00	4.1	
Coal 1'st Discitoring.	10 Apr-23 10,43:00 11 Apr-23 10,43:00 16 Apr-23 (0),20:00 11 Apr-23 (1),20:00		0.9	
Cost for Profiletos Cost for Photientos	18-40-23 17-20-00	16-7cm-23 15:20:00	1,2	
Coal Tor Perithting Coal Dr. Perithting		16-Apr-23 13:17:00 16-Apr-23 13:25:00	0.0	
Cost Tar President	16-Apr-23 13:17:00 16-Apr-23 13:25:00	16-Apr-23 13:25:00 16-Apr-23 14:35:00	1.0	
Coal To Distillation Coal in Pretioning	一	15年2月	01	
Cost Ter Distribution Cost Ter Distribution	17-00-2 (2-80) 17-00-2 (7-70) 17-00-2 (7-10) 17-00-2 (8-160)	17.大二	0.0	
Play Tat Pulnished	19 A(r) (00 30 30 30 30 31 A(r) - 23 17 (25 00)	19-Apr-21-08:41:00 34-Apr-21-17-31:00	0.1	
Cost for Depterson	27 Apr. 27 10:27:00 27 Apr. 27 10:27:00 27 Apr. 23 10:23:00	27-Apr-23 18:+9:00	9.5	
Coal Ter Distriction Coal Distriction	27-hor-23 18:23:00 28-hor-23 08:03:00	27-AM-28 19:39 00	0.3	
Coal To: Darbitotox	建定量整理	31/23333	9.1	
Cost De Distillative Cost De Dauthition	29-hp-20 23:27:09 29-hp-22 07:28:00	26-Am-25-26-47:00 26-Am-21-05:41:20	6.2	
Cost For D'artifation	30-Apr-23 10:34:99 02-4epr-23 07 20:00	30-April 23 10:36:00 102-May 23 00:32:00	6.2	
Cost for Distillation Cost for Windfaring	02 4/01/32 08:20000 1	02-MH-73-08:32:00	0.2	
Cost Ter Distriction Cost du Direction	02-Hrv-05 18-17-00 03-44rr-27 08:39:00	03-Mm-29 18:50:00 03-Mm-23 08:44:00	61	
Cost The Distillation Cost The Distillation	00-64-7-27 00:29:00 04-64-7-27 14-67-00 04-64-7-27 12-04-00	05-May-23 08-94-00 04-May-23 34-50-00 94-May-23 15-10-00	0.0	
Crei Tar Distribution	06-May-23 16:00.00 06-May-23 16:0000	06-44ky-23 15:02.00	0.1	
Cost For Distillation Cred The Distillation	06-Mer-23 \$1:47:00 09-Mer-23 \$2:03:00	08-May 23 01:5260 08-May 23 13:07:60	0.1	
Cont The Disclination Cont The Disclination	19-May 20 22:36:08 12-May 20 21:37:00	10-Hen-23 22-A7:00 12-Hen-23 21-A2:00	83	
Croi Tog Discibilise	12-12-27 22:30:00	12-46/23.23.21.00	6.1	
Cred Ter Discillation. Coal Ter Discillation	13-Hov-22 11:48:00 15-Hov-22 12:23:90	13-Her-23 12-24-00 13-Her-23 12-29-09	81	
Opel For Haddlerton	10-Ney-23 12:30:00	19-Hey 23 12:38:00	- NI	
Coal for Utofation Coal for Displation	19-Her-23 04:32:00 17-Her-23 07:34:00	15-May 23 06:01:00 17-May 23 08:03:00	81	
Coal for Distance Coal for Distriction	18-May 27 13:87:00 18-May 27 08:17:00	19-14ty-22 14:12:00 19-14ty-22 08:42:00	94	
Coal the Elinfortee	194My-23 \$2:31:00	F8-Miry-23 13:08:00	0.6	
Cosi Ter DistRetion Cosi Sur DistRetion	19-May 20 12-3000 19-May 20 12-3000 19-May 20 12-3000	19 Her 23 14 45 00 19 Her 23 14 15 00 19 Her 23 14 45 00	12	
Cost for Dissillation.	19-Mer-23 13:38:00	19-101-23 14-45-00	12	
Coal Tay Dissillation	19-May 23 13:38:09 19-May 23 13:38:00	18世紀	1.2	
Coul Tar Distillation. Coul Tar Distillation.	19-May-27 21:07:00 21-May-27 18:27:00	18-147-23 21:20:00 21-14-23 18:30:00	0.2	
Cost Jac Distillation Cost The Distillation	21 -4my-20 58,75(30) 21 -4my-20 22 16 00 21 -4my-20 28,44,40 21 -4my-20 08,67(30) 25 -4my-20 08,67(30) 25 -4my-20 08,000 25 -4my-20 08,000	21-May 23 22 28 00 23-May 23 22 28 00	9.1	
Cost Ter DiedOnton	23-step-27-00:67:00	23 Mary 20 10 20 00 21 Mary 23 10 53 00	13	
Cost The DestRiction Cost The DistRiction	23-May-22 21,09-00 24-May-22 14-12-00 27-May-2-01-28-00	25 May 23 21 18 00 26 May 23 14 20 00	62	
Coal Ter Distributes Coal Ser Herbiteles	27-May-23 10:12:00	26-May-23 14:20:00 27-May-23 03:31:00	0.1	
CARL LIE DIRECTOR PRO	T Non-Amil-201 / ZEDBELLE	27-May 23 03:31:50 30-May 23 12:20:50	- 43	
Cost the Doubleton Cost the Doubleton	28-May-23 12-23-00 28-May-23 17-47-00	79-44ny-23 13-07:50 28-44ny-27 17:84:00	93	
Coal the Discillation.	29-Her-27 1/27/09 29-Her-27 16/20/09	29-44n-23 19:02:00 29-44n-23 19:00:00	81	
Cool List Distillation	28-Merr-27 19:00:00 27-Merrick 11:30:00	25-98ry-23 18:03:00	0.0	
Coal Tot Disallation Coal De Disallation	01-Jun-23 08:37:00 01-Jun-23 08:37:00	20-May 77 15 30:00 91-340-23 00:42:00		
Coel for Disclision	01-An-23 (0:47:00 03-An-23 (1:10:00	01-Ap-23 98-51-00 93-Ap-23 91-27-00	0.1	
Coal Tax Discillation	04-Jun-23 08:29:08	04-Am-23-07-07-00	0.7	
Cod Ter Distillation Cod Ter Distillation	95-An-23 14:30:00 95-An-23 05:59:00	65-Am-27 14:40:00 06-Am-27 (F7:00:00	91	
Cost The Discillation Cost The Discillation	06-km-23 07 13:00 06-km-83 14:28:00	06-Am-23 07-18:00 06-Am-23 14:37:00	81	
Cost Les Discillation	06-bm-25 14:80:00 08-bm-25 18:44:00	06-Am-22 14:56:00 06-Jun-23 15:53:00	0.1	
Cost The Distribution Cost The Distribution	09-Jun-23 16-6209 09-Jun-23 16-6209 06-Jun-23 16-5600	06-Jun-23 18:50:00	83	
Coal for Displacing Coal for Displacing	06-am-23 16:56:00 04-3m-23 20:43:00	06-Am-23 17:08:00 06-Am-23 20:19:00	93	
Cest. Dr Bisschsten.	05-hr-33 21:06:00	00-Au-23.21.16:00	0.1	
Coal for Bartleton Coal for Bartleton	13-An-23 09:2100 13-An-23 09:39:00	13-km-23 00:61:00 '3-km-23 00:61:00	0.1	
Coal for Birdfirths Coal for Birdfirths	13-An-23 10:01:00 13-An-23 11:08:00	13-349-23 10:10:00 13-34/-23 11:20:00	83	
CHI by Underg	12-Ac-22 10-29-00 12-Ac-22 10-29-00	13-349-23 Ve 43-00 13-349-23 18-28-00	0.1	
Cost for Distriction Cost the Distriction	1.12-Ac-83.21:02:99.1	13-Art 23 21 05 00	0.0	
Coal for Distillation Coal for Distillation	13-Am-22 21:00:00 14-Am-22 05:34:00	13-Am 23 21:11:00 14-Apr-23 00:50:00	0.0	
Cost the Western	14-Art-22 09:30:00	1+-Art-21:08:41:00	0.1	
Cost for Direttleton Cost for Elizabletica	14-An-23 19:47:00 14-3n-23 19:34:00	14-Jun-23 08:52:50 14-Jun-23 18:52:00	0.1	
Cook The Discillation	14-An-22.21:08:09	14-An-27212729	9.3	
Cool for Distillation Cool for Distillation	15-Jan-23 21:30:00 15-Jan-23 00:51.00	14-Jun-23 22:13:00 15-Jun-23 00:40:00	61	
Cost Ter Distillation Cost Ter Obsiliation	16-Am-23 09:49:00	16-Jun-23 08:64:00	61	
Cost, the Obstitution Cost, the Distillation	15-An-23 11:00:00 15-An-23 12:07:00	15-Jun-23 11:00:00 16-Jun-23 12:30:00	9.5	
Cost the Distriction	15-Jun-23 14:09:00	15-249-23 14:18:00	0.1	
Cost the Distillation Cost (as Distillation	15-Jan-23 14:21:00 15-Jan-23 10:10:00	15-Jan-23 14:28:00 15-Jan-23 18:24:00	0.3	
Cool De Dictione	15-Jan-23 23:42:00	16-Am-23 23:50:00	0.2	
Cost I'm Distillation Cost I'm Distillation	16-Jer-23 12-(2-00 16-Jer-23 13:54:00	18-Am-23 13:47:00 18-Am-23 13:58:00	91	
Cost De Distillation Cost De Distillation	19-Ap-22 08:53:00	18-Am-23-19:00:00	92	
Cori, i'm Distillation	15-Jun-23 11:34:29 15-Jun-23 11:47:09	18-Am-23 11:4600 18-Am-23 12:17:00	0.5	

930/2023

			Dumba	The state of the state of the state of
MCPU	Stort Thee	ifal The	()	The Sand Land Time District (Sand)
Coul. for Disableton	19-Jun-23 12-30-09	18-349-23 12-49-00	6.2	
Coal Tay Distillation	18-Jun-23 12:57:00	18-Am-23 13:05:00	- 64	
Cool The Distillation	18-Jan-23 13:07:00	18-Am-22 14:05:00	1.0	
Clost The Distribution	19-Jun-23 17:59:00	19-Jun-23 19:07:00	11	
Cool Ter Dissillation	19-Ap-22 19:22:09	19-3-n-22 19:30:00	1.5	
Coul Tar Distillation	19-Jun-23 20:17:00	19-3-0-33 20:20:00	6.2	
Cont Par Dissillation	19-Jun-23 20:29:00	19-kn-23 21:28:80	1.55	
Chail Yor Ofsellather	31-Jun-23 01:58:00	21-km-23 02:10:00	0.2	
Coal Tir Distriction	21-Jun 23 02:11:00	21-Jun-23 02:29:80	6.2	
Cont The Distriction	21-Arr-23 02-40:08	21-3:0-23 02-45:00	63	
Coal The Distillation	21-Jun-23 19:19:90	21-km23 19:30:00	4.7	
Carl For Dissillation	N/A	NA.	N/A	
Cont Tor Dissillative	22-Jun-23 11:40:00	Za-Am-63 12-51.00	12	
Cloud Toy Distillation	N/A	390	44/24	
L'est The Distillation	N/A	MA	R/A	
Coal Tar Disabletion	28-Ary-23 11:49:00	28-A/H2 11:52:00	8.0	
Coal Ter DisdPerion	29-Jun-23 11:33,00	29-Aug-23 11:41:00	01	
Chal The DistRation	29-Jun-23 11:43:09	28-km-23 11:54:00	8.1	
Coal Tor Distillation	29-An-23 12:57:00	28-km-23 13:17:00	6.3	
Chal Tor Distillation	30-Jun-23 08:14:00	30-Am-23 09:30:00	0.3	
Crul Tur Distillation	30-Jun-23 08:32.00	30-Jun-23 10:4280	1.3	
Crul Tur Disultation	30-Jun-23 08:32:00	30-Jun-23 10:12:00	1.2	
Coul Tur Diet Paties	30-Am-23 10:49:00	30-Jun-23 10:58:50	9.1	
Coal Tor Distillation	30-Jan-23 10:58:00	30-Jun-23 11:05:00	0.1	
Coal Tor Distillation	30-Jun-23 11:07:00	30-Jun-23 11:13.60	9.1	
Carl Tor Distillation	30-Jun-23 11:21:00	80-Jun-23 11:28:00	AL.	
Coal Tay Dissillation	30-Jun-23 11:29:00	30-Jun-23 11:43:90	9.7	
Cost Tor Distribution	30-Jun-23 11:57:00	30-hn-23 12:09:90		
Coal Tor Distillation	30-Jun (3) 20:32:00	30-Jun-23 20:38:00	0.1	

NUTES:

1) For closed vanit systems (CVS) earlier pusitive precisive emigrat to 40 CFR 43.593

2) Report vision of a CVS emice possitive pressure subject to 40 CFR 43.593 when resister

Table 10: SSM Event Resulting in Excess Emissions Reporting Period: January 01, 2023 through June 30, 2023

MCPU	Event Date	Description of Malfunction	Plan Followed? (Y/N) ³	Plan for Pollower?" Description of Actions Taken
Type A Pitch	1/10/2023	tuning the T.O.	Yes	
Type A Pitch	1/20/2023	Oxidizer Zero Air Flow Shundown	Yes	
Type A Pisch	1/20/2023	Flame Failure	Yes	
		Flame Failure	Yes	
Type A Pitch	1/20/2023	Firme Failure	Yes	
Type A Pitch	1/20/2023			
Type A Pitch	1/20/2023	Fisme Failure	Yes	
Type A Pitch	2/1/2023	Flow Inlet Low Flow Sturtdown PI-4847 SP: -0.4 "WC	Yes	
Type A Pitch	3/1/2023	Electricians worked on the 651 pump power and the Pitch T.O.	Yes	
Type A Pitch	3/1/2023	Flame Failure	Yas	
Type A Pitch	3/2/2023	Fume System #5 Vent Tank High Level	Yes	
			Yes	
Type A Pitch	3/13/2023	Flame Failure		
Type A Pitch	3/25/2023	Flow Inlet Low Flow Shutdown PI-4847 SP: -0.4 "WC	Yas	
Type A Pisch	3/27/2023	Undetermined Fallure	Yes	
Type A Pitch	5/3/2023	Oxidizer Hi-Hi Temp Shutdown	Yes	
Type A Pitch	5/3/2023	Undetermined Failure	Yes	
Type A Pitch	5/3/2023	Flame Falture	Yes	
	5/3/2023	Flame Fature	Yes	
Tyre A Pitch		Furne Inlet Low Flow Shutdown PI-4847 SP: -0.4°WC	Yes	
Type A Pitch	5/8/2023		Yes	
Type A Pisch	6/6/2023	Furne Inlet Low Flow Shutdown PI-4847 SP: -0.4"WC		
Type A Pitch	6/19/2023	Flame Fallure	Yes	
Coal Tar Distillation	1/2/2023	Control Room (Gl Switch (MMI)	Yes	
Coal Tar Distillation	1/3/2023	Flame Fallure	Yes	l
Coal Tar Distillation	1/4/2023	Control Room Kill Switch (MMI)	Yes	
		Control Room ISII Switch (MMI)	Yes	
Coal Tar Distillation	1/4/2023		Yes	1
Coal Tar Distillation	1/10/2023	fleboiler Pump Low Amps		
Coal Tar Distillation	1/10/2023	Reboiler Pump Low Amps	Yes	
Coal Tar Distillation	1/10/2023	Rehaller Pump Low Amps	Yes	
Coal Tar Distillation	1/10/2023	Rebotler Pump Low Amps	Yes	
Coal Tar Distillation	1/13/2023	Reboiler Loop Low Flow	Yes	
		Flame Faituru	Yes	
Coal Tar Distillation	1/17/2023		Yes	
Coal Tar Distillation	1/17/2023	High Gas Pressure Switch		
Coal Tar Distillation	1/17/2023	High Ges Pressure Switch	Yes	
Coal Tar Distillation	1/17/2023	High Gas Pressure Switch	Yes	
Coal Tar Distillation	1/18/2023	Control Room (III) Switch (MWII)	Yes	
Coal Tar Distillation	1/18/2023	High Gas Pressure Switch	Yes	
		High Ges Pressure Switch	Yes	
Coal Tar Distillation	1/18/2023		Yes	
Coal Tar Distillation	1/18/2023	High Gas Pressure Switch		
Coal Tar Distillation	1/19/2023	Rebotler Pump Low Amps	Yes	
Coal Tar Distillation	1/20/2023	High Gas Pressure Switch	Yes	
Coal Tur Distillation	1/20/2023	No Alarm	Yes	
Coal Tur Distillation	1/21/2023	Low Loop Flow Bypass Relay Stuck	Yes	
		No Alarm	Yes	
Coal Ter Distillation	1/23/2023	No Alarm	Yes	
Coal Tar Distillation	1/23/2023		Yes	
Conl Ter Distillation	1/23/2023	No Alarm		
Coel Ter Distillation	1/23/2023	Reboller Pump Low Amps	Yes	
Cgo) Ter Distillerion	1/23/2023	Reboiler Pump Low Amps	Yes	
Coal Tar Distillation	1/23/2023	Low Loop Flow Bypess Relay Stuck	Yes	
Coal Tar Distillation	1/24/2023	Reboiler Pump Low Amps	Yes	
		Rebailer Pump Low Amps	Yes	
Coel Tar Distillation	1/24/2023		Yes	1
Coal Tar Distillation	1/24/2023	Control Room Kill Switch (MMI)	169	User error - the tube houter was turned
Coal Tar Distillation	1/24/2023	Reboiler Pump Low Amps	No	beiot to mining out the Amenius
Coal Tax Distillation	1/25/2023	Control Room Kill Switch (MMI)	Yes	
Cnal Tar Distillation	1/25/2023	Low Loop Flow Bypass Raisy Stuck	Yes	
		Low Loop Flow Bypess Relay Stuck	Yes	
Coal Tar Distillation	1/25/2023		Yes	†
Coal Ter Distillation	1/25/2023	Low Loop Flow Bypess Relay Stuck		-
Coal Tar Distillation	1/27/2023	Control Room (GIT Switch (MMI))	Yes	
Coal Ter Distillation	1/27/2023	Low Loop Flow Bypass Relay Stuck	Yes	
Coal Tar Distillation	1/27/2023	Low Loop Flow Bypess Relay Stuck	Yes	
Coal Tar Distillation	1/31/2023	Flame Fellure	Yes	
	1/31/2023	Low Loop Flow Bypass Relay Stuck	Yes	
Coal Ter Distillation		Fleme Fallure	Yes	
Coal Tar Distillation	1/31/2023		Yes	
Coal Tar Distillation	1/31/2023	Flema Failure		1
Coal Tar Distillation	2/1/2023	Flame Folium	_Y95	
Coal Tar Distillation	2/1/2023	Control Room (28 Switch (MMI)	Yes	<u> </u>
Coal Tar Distillation	2/1/2023	Flame Fallure	You	
Coal Ter Distillation	2/2/2023	Reboiler Loop Low Flow	Yes	
		Reboiler Loop Low Flow	Yes	
Coal Tar Distillation	2/2/2023		Yes	<u> </u>
Conl Tur Distillation	2/2/2023	Fume High Temp Limit TISH-4745		
Coal Tar Distillation	2/2/2023	Unrecognized	Yes	
	2/3/2023	High Gas Pressure Switch	Yes	
Coal Tar Digitalisation	2/7/2023	Seal Oil Change	Yes	
Coal Ter Distillation Coal Ter Distillation		Seal Of Change	Yes	
Coal Tar Distillation	3/1/2022	Appendix and the property of	Yes	1
Coal Tar Distillation Coal Tar Distillation	2/1/2003	Holy Chie Down		
Coal Tar Distillation Coal Tar Distillation Coal Tar Distillation	2/8/2023	Unit Shut Down		
Coal Tar Distillation Coal Tar Distillation	2/8/2023 2/8/2023	Unit Shut Down	Yos	
Coal Tar Distillation Coal Tar Distillation Coal Tar Distillation	2/8/2023		Yos Yes	
Coal Tar Distillation	2/8/2023 2/8/2023 2/8/2023	Unit Shut Down	Yos	
Coal Tar Distillation Coal Tar Distillation Coal Tar Distillation Coal Tar Distillation	2/8/2023 2/8/2023	Unit Shut Down Unit Shut Down	Yos Yes	

8/30/2023

MCPU	Event Date	Description of Malfanction	Plan Fellowed?	Plan Not Followed? ² Description of Actions Taken
Mero			(Y/N) Yes	Description of Actions 1 and
Coal Tar Distillation	2/9/2023	Control Room KII Switch (MMI)	Yes	
Coal Tar Distillation	2/9/2023	No Alarm	Yes	
Coal Tar Distillation	2/9/2023	No Alarm	Yes	
Coal Tar Distillation	2/9/2023	No Alarm	Yes	
Coal Tar Distillation	2/9/2023	No Alarm	Yes	
Coal Far Distillation	2/9/2023	Control Room KEI Switch (MMII)	Yes	
Coal Tar Distillation	2/10/2023	Reboller Pump Low Amps	Yes	
Cos) Tar Distillation	2/12/2023	Reballer Loop Low Flow	Yes	
Coal Tar Distillation	2/13/2023	Reboiler Pump Low Amps	Yes	
Coal Tar Distillation	2/14/2023	Reboffer Pump Low Amps	Yes	
Coal Tar Distillation	2/14/2023	Rebailer Pump Low Amps	Yes Yes	
Coal Tar Distillation	2/16/2023	Flame Fallure	Yes	
Coal Tar Distillation	2/16/2023	Reboiler Loop Low Flow	Yes	
Coal Tar Distillation	2/16/2023	Reboiler Loop Low Flow Reboiler Loop Low Flow	Yes	
Coal Tar Distillation	2/17/2023	Reballer Loop Low Flow	Yes	
Coal Tar Distillation	2/17/2023	Reboiler Loop Low Flow	Yes	
Coal Tar Distillation	2/17/2023 2/22/2023	Control Room Kill Switch (MMI)	Yes	
Coal Tar Distillation	2/23/2023	Burner Off/On Selector Sw	Yes	
Coal Ter Distillation Coal Ter Distillation	2/23/2023	Control Room Kill Switch (MMI)	Yes	
Coal Tar Distillation	2/23/2023	Burner Off/On Selector Sw	Yes	
Coal Tar Distillation	3/2/2023	Control Room Kill Switch (MMI)	Yes	
Coal Tar Distillation	3/5/2023	Reboiler Loop Low Flow	Yes	
Coal Tar Distillation	3/7/2023	Reboller Loop Low Flow	Yes	
Coal Tar Distillation	3/7/2023	Reboiler Loop Low Flow	Yes	
Coal Ter Distillation	3/8/2023	Reboller Loop Low Flow	Yes Yes	
Coal Tar Distillation	3/8/2023	Reboiler Pump Low Amps	Yes	
Coal Tar Distillation	3/9/2023	Reboiler Pump Low Amps	Yes	
Coal Tar Distillation	3/10/2023	Reboiler Pump Low Amps High Gas Pressure Switch	Yes	
Coal Tar Distillation	3/10/2023	High Gas Pressure Switch	Yes	
Coal Tar Distillation	3/11/2023	Low Steam Pressure Alarm	Yes	
Coal Tar Distillation	3/12/2023	Rebailer Loop Low Flow	Yes	
Coal Tar Distillation	3/13/2023	Reboiler Pump Low Amps	Yes	
Coal Tar Distillation Coal Tar Distillation	3/13/2023	High Gas Pressure Switch	Yes	
Coal Ter Distillation	3/13/2023	High Gas Pressure Switch	Yes	
Coal Ter Distillation	3/18/2023	Maxon Smartlink Alarm	Yes	
Coal Tar Distillation	3/20/2023	High Gas Pressure Switch	Yes	
Coal Tar Distillation	3/20/2023	Reboiler Loop Low Flow	Yes	
Coal Tar Distillation	3/21/2023	High Gas Pressure Switch	Yes Yes	
Coal Tax Distillation	3/22/2023	Rebailer Loop Low Flow	Yes	
Coal Tar Distillation	3/23/2023	No Alarm Low Gas Pressure Switch PSL-4725	Yes	
Coal Tar Distillation	3/27/2023	Flame Fallure	Yes	
Coal Ter Distillation	3/27/2023	Low Gas Pressure Switch PSL-4725	Yes	
Coal Tur Distillation	3/27/2023	Low Gas Pressure Switch PSL-4725	Yes	
Coal Tar Distillation Coal Tar Distillation	3/28/2023	Low Gas Pressure Switch PSL-4725	Yes	
Coal Tar Distillation	3/28/2023	No Alarm Recorded	Yes	
Coal Ter Distillation	3/28/2023	No Alarm Recorded	Yes	
Coal Ter Distillation	3/31/2023	Reboffer Loop Low Flow	Yes	
Coal Tar Distillation	3/31/2023	Control Room IGS Switch (MMI)	Yes	
Coal Tar Distillation	4/3/2023	Reboiler Pump Low Amps	Yes Yes	
Coal Ter Distillation	4/3/2023	Reboiler Pump Law Amps	Yos	
Coal Tar Distillation	4/4/2023	Rebofler Loop Low Flow High Gas Pressure Switch	Yes	
Coal Tar Distillation	4/4/2023	High Gas Pressure Switch	Yes	
Coal Ter Distillation	4/6/2023	No Alarm Recorded	Yes	
Cost Ter Distillation	4/7/2023	No Alarm Recorded	Yes	
Coal Tar Distillation Coal Tar Distillation	4/9/2023	Reboiler Loop Low Flow	Yex	
Coal Tar Distillation	4/10/2023	No Alarm Recorded	Yes	
Coal Far Distillation	4/13/2023	No Alarm Recorded	Yes	
Coal Tar Distillation	4/16/2023	No Alarm Recorded	Yes	
Coal Tag Distillation	4/16/2023	No Alarm Recorded	Yes	
Coal Tar Distillation	4/16/2023	No Alarm Recorded	Yes	
Cual Tar Distillation	4/16/2023	No Alarm Recorded	Yes Yes	
Coal Tar Distillation	4/15/2023	No Alarm Recorded	Yes	
Coal Ter Distillation	4/16/2023	No Alarm Recorded	Yes	
Coal Tar Distillation	4/17/2023	No Alarm Recorded No Alarm Recorded	Yes	
Coal Tay Distillation	4/17/2023	No Alarm Recorded	Yes	
Coal Tar Distillation	4/17/2023	No Alarm Recorded	Yes	
Coal Tar Distillation	4/19/2023			

ATTACHMENT 3 - LDAR INFORMATION

TABLE 11: Semiannual Fugitive Emission Report For MON [40 CFR 63.1039(b)] Reporting Period: January 01, 2023 through June 30, 2023

						No. oi			Quality
Equipment Type	No. of Components Subject to Requirements	No. of Leaking Components Detected	No. of Components Monitored ²	Percent of Leaking Components	No. of Leaking Components Not Repaired	Components Determined to be Nonrepairabl	No. or instances Utilizing Delay of Repair	Monitoring of Valves Initiated? (yes/no)	Improvement Program fritation for Pumps? (yes/no)
Velves in Gas/Vapor & LL Service	116		8	0.0%	0	0	0	N/A, No LL Valves	NA
	•	Al/A	-	N/A	W.A	AN.	N/A	Y.	¥2
Pumps in Lt Service	>					•		AUA	A27A
Connections in Gas/Vapor & LL Service	30%	0	282	0.0%	5	2		S	CA.
Antohore in Geel/Septing Service	43*	0	12	%0.0 %0.0	0	0	0	N/A	W/A
	7	0	4	%0.0	0	0	0	NA	×χ
December Deleges Devices Cast/spor Sarvins	œ		-	0.0%	0	0	0	YN.	NA
Manual Paradas Caves Caves Caves	>								

NOTES:

1) Represents counts as of the end of the report period. Excludes heavy liquid service components and components designeted for no detectable emissions. Identify with an asterisk (*) if there are any components added due to startup of Tank-101
2) Several MON Components were not monitored during this reporting period due to being out of service.

Attachment L

Carbon Pitch Tank Vent Thermal Oxidizer Compliance Stack Test
Response to Violation Notice A-2023-00162
Koppers Inc.

MON (SUBPART FFFF) PERFORMANCE TEST

Performed At
Koppers Inc.
Carbon Pitch Tank Vent Thermal Oxidizer
Stickney, Illinois

Test Date
April 29, 2009

Report No.

GE International, Inc. Report M22E1859A

Report Submittal Date
June 25, 2009

GE International, Inc. 1950 Griffith Boulevard, Suite A Griffith, Indiana 46319 USA





GE Energy

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GE Energy

CERTIFICATION SHEET

Having reviewed the test program described in this report, I hereby certify the data, information, and results in this report to be accurate and true according to the methods and procedures used.

Data collected under the supervision of others is included in this report and is presumed to have been gathered in accordance with recognized standards.

GE INTERNATIONAL, INC.

Frank H. Jarke

Quality Operations Manager

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GE Energy

2.0 SUMMARY OF RESULTS

During this test program, three (3) one-hour VOC tests were performed at the TO inlet and outlet test locations. The results for the tests conducted are summarized in the following table:

Parameter	TO Inlet	TO Outlet
VOC lb/hr as Propane	3.80	0.023
Destruction Efficiency %	747-7-27-20	38

Complete test results are summarized in Section 6.0.

3.0 DISCUSSION OF RESULTS

No problems were encountered with the testing equipment during the test program. Source operation remained normal during the entire test program. The performance testing was conducted at worst-case operating conditions defined in §63.1257(b)(8)(i). Specifically, the testing was performed during absolute worst-case conditions in the 1-hr period of time in which the inlet contained the highest mass loading rate, in lb/hr, capable of being vented to the TO System. This condition occurs when the process is charging coal tar pitch to the tanks while venting the transfer rack as described in the test protocol "Emissions Test Plan for MON (Subpart FFFF) Performance Testing" submitted to the agency on February 17, 2009. During the performance test on April 29, 2009, Unit 2 was charging coal tar pitch (Type A) to Tank 47 while venting the transfer rack from Tank 41 to pitch trucks. Type A was being transferred from 46 Tank to 44 Tank. Fume System #5 Scrubber was in operation during the performance testing. Unit operating data was recorded by plant personnel and are appended to the report.

The diameter of both test locations was greater than 12 inches. Therefore, an s-type pitot and standard inclined manometer were used per EPA Method 1.

Moisture was determined according to EPA Method 4 at a single point in the approximate center of each duct. EPA Method 4 requires that samples are collected at a minimum of eight traverse points located per EPA Method 1 for circular ducts less than 24 inches in diameter. The test requested approval of the option to collect the samples for moisture content determinations at a single point located at the approximate center of each location. This was considered to be a request for a "minor change to test method" as defined in 40 CFR §63.90 and therefore, pursuant to 40 CFR §63.2545, did not require U.S. EPA approval.

Attachment M September 8, 2023, Deviation Report Response to Violation Notice A-2023-00162 Koppers Inc.



Carbon Materials and Chemicals 3900 South Laramie Avenue Cicero, iL 60804-4523 Tel 708 222 3483 Fax 708 656 6079 www.koppers.com

9/8/2023

Illinois Environmental Protection Agency Bureau of Air Compliance Section (MC 40) PO Box 19276 Springfield, IL 62794-9276

RE: Deviation Report

Koppers Inc., Stickney Plant ID Number: 031300AAJ

To Whom It May Concern:

Koppers Inc. (Koppers) operates a chemical manufacturing plant in Stickney. under Clean Air Act Permit Program (CAAPP) Permit # 96030134. Condition 5.7 of the CAAPP permit requires Koppers to provide prompt notice to the Illinois Environmental Protection Agency (IEPA) of deviations from CAAPP permit requirements. Koppers is providing this notification of a recent series of limited-duration events involving the temporary inoperability of components of air pollution control systems at the Stickney plant. With respect to each event, Attached Table 1 describes the event and the cause, and identifies corrective actions.

As shown in Table 1, with limited exceptions that are otherwise being addressed, the majority of the recent events were associated with the commissioning of back-up pollution control systems. Koppers is working diligently to complete the commissioning process and thereby eliminate the cause of the events.

If there are any questions concerning this report, please contact Sidney Lipp of Koppers at (708) 427-6980.

Sincerely,

Plant Manager

TABLE 1: Summary of Deviations Reporting Period: August 12, 2023 through September 7, 2023

		Du	nation of Deviation			
of Control Device	Date of Deviation	Start (bh.com)	Finish (hh:um)	Total deviation Period (Minutes)	Cause of the Event	Corrective/Preventive Action Taken
Tube Hester/Tar TO	August 12, 2023	5:25 PM	6:22 PM	57	Low steam pressure on waste gas	Investingate and Troubleshoot steam pressure
Tube Heater/Tar TO	August 13, 2023	7:44 PM	8:16 PM	32	Low steam pressure on waste gas	Investigate and Troubleshoot steam pressure
Pitch TO	August 14, 2023	11:23 AM	12:00 PM	37	Excess fume loading, Rapid evaporation of condensate in the system due to operator error	Training & corrective action with employee.
Tube Rester/Tur TO	August 14, 2023	3:53 PM	3:57 PM	4	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
		2:29 AM	2:32 AM	3	Mathunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
		6:09 AM	6:36 AM	27	Malfunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube	August 16, 2023	8:25 AM	8:53 AM	28	Malfunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Heater/Tar TO	August 10, 2023	11:56 AM	12:18 PM	22	Melfunction of Tubeheeter Waste Gas Burning System Components	Complete Commissioning of back-up control system
		1:50 PM	2:09 PM	10	Mattunction of Tubeheater Wasta Gas Burning System Components	Complete Commissioning of back-up control system
		6:58 PM	7:05 PM	7	Malfunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube Heater/Tar TO	August 17, 2023	1:18 AM	1:22 AM	4	Mathunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube Heater/Tar TO	August 17, 2023	10:10 AM	10:13 AM	3	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
Tube Heater/Tar TO	August 17, 2023	10:19 AM	10:22 AM	3	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
Tube Heater/Tar TO	August 17, 2023	10:27 AM	10:30 AM	3	tnterruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
Tube Heater/Far TO	August 17, 2023	11:24 AM	11:27 AM	3	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
Tube Heater/Tar TO	August 17, 2023	1:39 PM	1:42 PM	3	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
Tube Heater/Tar TO	August 17, 2023	2:37 PM	2:40 PM	3	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
Tubs Heater/Far TO	August 17, 2023	2:41 PM	2;44 PM	3	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
Tube Heuter/Tar TO	August 17, 2023	2:48 PM	2:49 PM	3	tnterruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
Tube Hester/Tar TO	August 17, 2023	3:04 PM	4:36 PM	92	PLC code tasue, Center flash vacuum pump on Unit #2 was used due to west pump needing a coupler sleeve replacement. When center flash vacuum pump is used and unit #1 was down the fumes were allowed to emil.	Softwere system needs to be updated Until update is in place, an impairment form is needed.
Tube Heater/Ter TO	August 18, 2023	12:17 AM	12:22 AM	5	Malfunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system

Identification	-	Di	ration of Deviation	1		The second secon
of Control Device	Date of Deviation	Start (hh:mm)	Finish (hh.mm)	Total deviation Period (Minutes)	Cause of the Event	Corrective/Preventive Action Taken
Tube	August 40, 2002	3:20 PM	3:23 PM	3	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
Heater/Ter TO	August 18, 2023	3:41 PM	3:44 PM	3	Interruption of environmental controls due to commissioning of back-up control system or other operational mallunction	Complete Commissioning of back-up control system
Pitch TO	August 18, 2023	5:02 PM	5:34 PM	32	Electrical failure cause TO shutdown, Underground cable failure	Replaced cable
Tube Heater/Tar TO	August 20, 2023	10:04 AM	10:19 AM	15	Malfunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube		10:52 AM	10:57 AM	5	Mathunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Reater/Tar TO	August 21, 2023	6:15 PM	6:43 PM	28	Maifunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube Heaten/Tar TO	August 22, 2023	7:20 AM	7:25 AM	5	Malfunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube		4:00 AM	4:08 AM	8	Matfunction of Tubeheater Waste Gas Surning System Components	Complete Commissioning of back-up control system
Heater/Tar TO	August 23, 2023	6:06 AM	6:13 AM	7	Matfunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube Heater/Far TO	August 24, 2023	2:41 PM	2:44 PM	3	Matherction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube Heater/Tar TO	August 25, 2023	8:32 AM	8:36 AM	4	Melfunction of Tubeheater Waste Ges Burning System Components	Complète Commissioning of back-up control system
Tube		3:05 PM	3:11 PM	6	Malfunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Heater/Tar TO	August 26, 2023	3:39 PM	3:44 PM	5	Mathinction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube Heater/Tar TO	August 28, 2023	5:08 PM	5:16 PM	8	Madunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
		10:59 AM	11:11 AM	12	Mathunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
	T	11:59 AM	12:08 PM	9	Maifunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
		5:20 PM	5:23 PM	3	interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
Tube Heater/Tar TO	August 29, 2023	5:39 PM	5:45 PM	6	interruption of environmental controls due to commissioning of back-up control system in	Complete Commissioning of back-up control system
		5:50 PM	5:52 PM	2	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
		6:19 PM	6:28 PM	9	interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
Tube		5:27 PM	5:33 PM	6	Mathunction of Tubehester Waste Gas Burning System Components	Complete Commissioning of back-up control system
Heater/Tar TO	August 31, 2023	8:39 PM	6:47 PM	8	Malfunction of Tubeheater Waste Ges Burning System Components	Complete Commissioning of back-up control system
Tube Heater/Tar TO	September 2, 2023	2:03 PM	2:08 PM	5	Mainmotion of Tubeheater Waste Gus Burning System Components	Complete Commissioning of back-up control system
Tube Heater/Ter TO	September 4, 2023	5:25 PM	6:02 PM	7	Malfunction of Tubeheater Waste Gas Burning System Compounds	Complete Commissioning of back-up control system
Tube Heater/Ter TO	September 4, 2023	6:31 PM	6:35 PM	4	Malfunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube Heater/Tar TO	September 5, 2023	5:30 AM	5:35 AM	5	Mathenation of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system

Attachment N October 6, 2023, Deviation Report Response to Violation Notice A-2023-00162 Koppers Inc.



Carbon Waterials and Chemicals 3900 South Laramie Avenue Cicero, IL 60804-4523 Tel 708 222 3483 Fax 708 656 6079 www.koppers.com

10/6/2023

Illinois Environmental Protection Agency Bureau of Air Compliance Section (MC 40) PO Box 19276 Springfield, IL 62794-9276

RE:

Deviation Report

Koppers Inc., Stickney Plant ID Number: 031300AAJ

To Whom It May Concern:

Koppers Inc. (Koppers) operates a chemical manufacturing plant in Stickney. under Clean Air Act Permit Program (CAAPP) Permit # 96030134. Condition 5.7 of the CAAPP permit requires Koppers to provide prompt notice to the Illinois Environmental Protection Agency (IEPA) of deviations from CAAPP permit requirements. Koppers is providing this notification of a recent series of limited-duration events involving the temporary inoperability of components of air pollution control systems at the Stickney plant. With respect to each event, Attached Table 1 describes the event and the cause, and identifies corrective actions.

As shown in Table 1, with limited exceptions that are otherwise being addressed, the majority of the recent events were associated with the commissioning of back-up pollution control systems. Koppers is working diligently to complete the commissioning process and thereby eliminate the cause of the events.

If there are any questions concerning this report, please contact Sidney Lipp of Koppers at (708) 427-6980.

Sincerely,

Seth Herring
Plant Manager

Table 1: Summary of Deviations Reporting Period: September 8, 2023 through October 7, 2023

1	Di	ration of Deviation		000	Summary o	[Deviation			
Date of Deviation	Stari (Mcmm)	Fielsh (bh:sam)	Total deviation Period (Minutes)	Total Deviation Period (hours)	Regulation/Permit Conditions (see floatnose)	Emission Rate (lb/hr)	Estimated Emissions (lbs)	Cause of the Event	Corrective/Proventive Action Taken
September 8, 2023	1:55 PM	2:06 PM	11	0.183	2,5	58.98	10.8	Malfunction of Tubeheater Weste Gas Burning System Components	Complete Commissioning of track-up control system
September 9, 2023	3:27 AM	3:32 AM	5	0.083	5	58.90	4.9	Matiunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
September 11, 2023	9:55 AM	9:59 AM	4	0.067	5	58.98	3.9	Matfunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
September 12, 2023	3:03 AM	3:00 AM	5	0.083	1,3	60.54	5.0	Operational Upsets	Complete Commissioning of back-up control system
September 12, 2023	3:12 AM	3:17 AM	5	0.083	1,3	60.54	5.0	Operational Upeats	Complete Commissioning of back-up control system
September 12, 2023	3:20 AM	3:30 AM	10	0.167	1,2,3	60.54	10.1	Operational Upaets	Complete Commissioning of back-up control system
September 12, 2023	2:00 PM	2:08 PM	8	0.133	1,2,3	80.54	8.1	Operational Upsets	Complete Commissioning of back-up control system
September 14, 2023	12:17 AM	12:28 AM	9	0.150	1,2,3	60.54	9.1	Operational Upsets	Complete Commissioning of back-up control system
September 14, 2023	9:41 AM	8:44 AM	3	0.050	1,3,5	119.52	6.0	interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
September 14, 2023	9:49 AM	9:55 AM	6	0.100	1,2,3,5	119.52	12.0	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
September 14, 2023	2;39 PM	2:42 PM	3	0.050	1,3,5	119.52	6.0	interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
utember 14, 2023	2:50 PM	2:54 PM	4	8.067	1,3,5	119.52	8.0	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
September 14, 2023	3:02 PM	3:09 PM	7	0.117	1,2,3,5	119.52	13.9	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
September 15, 2023	7:59AM	8:07 AM	8	0.133	1,2,3	60.54	8.1	Operational Upsets	Complete Commissioning of back-up control system
September 16, 2023	12:28 AM	12:33 AM	5	0.083	1,5	60.54	5.0	Shutting Down Units, Operator Enter	Training & corrective action with employee.
September 16, 2023	1:33 AM	3:20 AM	107	1.783	1	1.58	2.8	Mechanical failure of #2 Vent Ciculation Pumps	Fix the Pump and put it back in operation
September 18, 2023	3:20AM	6:40 AM	200	3.333	1	1.26	4.2	Mechanical failure of #2 Vern Ciculation Pumps	Fix the Pump and put it back in operation
September 17, 2023	4:14 PM	4:19 PM	5	0.063	1,5	60.54	5.0	Operator Error caused low loop flow and tripped the Tubeheeler while bringing the unit up to prediction	Training & corrective action with employee.
September 18, 2023	9:38 AM	9:41 AM	3	0.050	1,5	60.54	3.0	Operational Upsets	Complete Commissioning of back-up control system
September 20, 2023	4:50 PM	4:56 PM	8	0.100	1,5	60.54	6.1	Operational Upaets	Complete Commissioning of back-up control system
September 20, 2023	5:49 PM	5:52 PM	3	8.050	1	60.54	3.0	Starting Lip the unit, Operator Error	Training & corrective action with employee.
September 21, 2023	1:49 PM	1:53 PM	4	D.067	1,5	59.28	4.0	Operational Upsets	Complete Commissioning of back-up control system
September 24, 2023	4:33 PM	4:63 PM	20	0.333	1,2,5	60.54	20.2	Operational Upsets	Complete Commissioning of back-up control system
September 25, 2023	7:37 AM	7:57 AM	20	0.333	1	1.56	0.5	PLC Communication Issues	Complete Commissioning of back-up control system
September 26, 2023	11:02 AM	11:07 AM	5	0.083	1,5	60.54	5.0	Operational Upsets	Complete Commissioning of back-up control system
September 26, 2023	11:39 AM	11:43 AM	4	0.067	1.5	80.54	4.0	Operational Upents	Complete Commissioning of back-u control system
October 2, 2023	1:58 AM	2:03 AM	4	0.067	1	1.56	0.1	Operational Upsets	Complete Commissioning of back-up control system
October 5, 2023	10:05 AM	10:11 AM	6	0.100	1,5	60.54	6.1	Operational Upsets	Complete Commissioning of back-up control system

Table 1: Summary of Deviations Reporting Period: September 8, 2023 through October 7, 2023

Date of Deviation	Duration of Deviation			Summery of Deviation					
	Start (lubrumi)	Pinish (hhemm)	Total deviation Period (Minutes)	Total Deviation Period (hours)	Regulation/Permit Conditions (see flootnote)	Projection Rate: (Buffer)	Estimated Emissions (lbs)	Casale of the Riversi	Corrective/Preventive Action Taken
October 5, 2023	11:31 AM	11:34 AM	3	0.060	1	60.54	3.0	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
October 5, 2023	11:44 AM	11:49 AM	5	0.083	1,3	60.54	5.0	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system
October 5, 2023	12:09 PM	12:12 PM	3	0.050	1	60.54	3.0	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back-up control system

Attachment O Naphthalene TO SSM Plan Deviation Notification Response to Violation Notice A-2023-00162 Koppers Inc.



www.koppers.com

Koppers Inc. Carbon Materials and Chemicals 3900 South Laramie Avenue Cicero, IL 60804-4523 Tel 708 222 3483 Fax 708 656 6079

05/30/2023

Illinois Environmental Protection Agency Bureau of Air (MC 11) 1021 N. Grand Avenue EastP.O Box 19276 Springfield, IL 62794-9276

RE:

Notification of Permit Deviation

Koppers Inc., Stickney Plant 1D Number: 031300AAJ

To whom it may concern:

This notification is to report a deviation from a permit condition that occurred at Koppers Inc., Stickney facility. Information about the event is included in this notification as follows:

If you have any questions concerning this notification, please contact Fola Fayanjuola at (708) 427-9057

Sincerely,

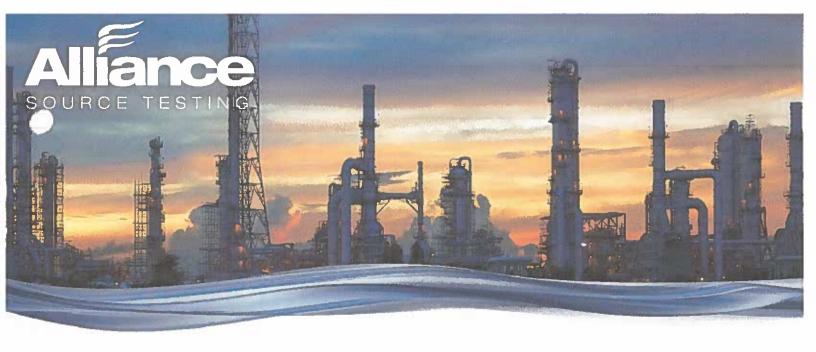
Fola Fayanjuola

Environmental Manager

Table 1 – Deviation Summary

Date and Description	01/03/2023 1:30 am - 9:00 am: SSM plan not followed during Naphthalene Thermal Oxidizer malfunction.
	03/23/2023 02:50 am 07:40 am: SSM plan not followed during Naphthalene Thermal Oxidizer malfunction.
Cause of the Event	Program to shutdown process during the loss of the Naphthalene Thermal Oxidizer had an issue. The process was eventually shutdown manually.
Corrective Action Taken	Engineering is working on repairing programming issue.
Steps Taken to Avoid Future Events	Programming issue repair.

Attachment P Compliance Stack Test Report Response to Violation Notice A-2023-00162 Koppers Inc.



Source Test Report

Koppers, Inc. 3900 South Laramie Ave. Cicero, IL 60804

Sources Tested: Multiple Sources Test Dates: September 29-30, 2020

AST Project No. 2020-1351-001

Prepared By
Alliance Source Testing, LLC
1355 Sherman Road, Suite 300
Hiawatha, IA 52233

CORPORATE OFFICE

255 Grant St. SE Suite 600 Decatur, AL 35601 (256) 351-0121





Regulatory Information

Permit No.

IEPA Construction Permit No. 14100012

Source Information

Source Name
Reboiler/SCR Outlet
Main Stack
Thermal Oxidizer Inlet
Thermal Oxidizer Outlet

Target Parameters
SO₂, NOx, NH₃
PM, SO₂, NOx, CO, VOM
VOM
SO₂, VOM

Contact Information

Test Location Koppers, Inc. 3900 South Laramie Ave. Cicero, IL 60804

Sidney Lipp lippsa@koppers.com (705) 222-3111 Test Company
Alliance Source Testing, LLC
1355 Sherman Road, Suite 300
Hiawatha, IA 52233

Project Manager James Holder james.holder@stacktest.com (870) 421-2910

QA/QC Manager Heather Morgan heather.morgan@stacktest.com (256) 260-3972

Report Coordinator
Destini Anderson
destini.anderson@stacktest.com
(256) 351-0121

Analytical Laboratory
Alliance Source Testing, LLC
5530 Marshall Street
Arvada, CO 80002
James Davidson
james.davidson@stacktest.com
(720) 457-9504 ext. 802



Alliance Source Testing, LLC (AST) has completed the source testing as described in this report. Results apply only to the source(s) tested and operating condition(s) for the specific test date(s) and time(s) identified within this report. All results are intended to be considered in their entirety, and AST is not responsible for use of less than the complete test report without written consent. This report shall not be reproduced in full or in part without written approval from the customer.

To the best of my knowledge and abilities, all information, facts and test data are correct. Data presented in this report has been checked for completeness and is accurate, error-free and legible. Onsite testing was conducted in accordance with approved internal Standard Operating Procedures. Any deviations or problems are detailed in the relevant sections on the test report.

This report is only considered valid once an authorized representative of AST has signed in the space provided below; any other version is considered draft. This document was prepared in portable document format (.pdf) and contains pages as identified in the bottom footer of this document.

James Holder, OSTI

11/19/2020

Alliance Source Testing, LLC



2020-1351-001

Table 2-3
Summary of Results – Thermal Oxidizer

Run Number	Run 2	Run 3	Run 4	Average
Date	9/29/20	9/30/20	9/30/20	W. //
Sulfur Dioxide Data				
Concentration, ppmvd	0.0	0.0	0.0	0.0
Emission Rate, lb/hr	0.00	0.00	0.00	0.00
Volatile Organic Matter Data				
Inlet Concentration, ppmvd	29.9	16.1	19.4	21.8
Outlet Concentration, ppmvd @ 3% O2	9.6	6.4	4.7	6.9
Outlet Emission Rate, 1b/hr	0.059	0.040	0.026	0.042

Attachment Q SO2 Emissions Data Response to Violation Notice A-2023-00162 Koppers Inc.

Date	Monthly averaged SO2 rate Train A (lb SO2/month)	Monthly averaged SO2 rate Train B (lb SO2/month)
Jan-22	16846	9631
Feb-22	14088	14113
Mar-22	22624	16867
Apr-22	1479	1562
May-22	16839	21247
Jun-22	5432	7433
Jul-22	29207	26578
Aug-22	11326	12396
Sep-22	340	319
Oct-22	23992	29511
Nov-22	13640	7422
Dec-22	12759	11183
Jan-23	12263	11606
Feb-23	10453	17714
Mar-23	6494	21974
Apr-23	8124	25028
May-23	5015	36123
Jun-23	17402	20837
Jul-23	14191	13572
Aug-23	15552	7317
Sep-23	1618	0

al total 2022 84 79 al total 2023 46 77

Phthalic Anhydride Reactor Trains A and B SO2 data

	·	
	Daily averaged	Daily averaged
Date	SO2 rate Train A	SO2 rate Train B
	(lb SO2/Day)	(lb SO2/Day)
1/1/2022	1027.5	545.6
1/2/2022	1031.6	548.2
1/3/2022	623.5	386.0
1/4/2022	252.8	314.8
1/5/2022	351.3	349.8
1/6/2022	406.0	348.2
1/7/2022	399.4	348.1
1/8/2022	383.7	330.5
1/9/2022	384.7	319.5
1/10/2022	403.2	336.9
1/11/2022	673.4	340.3
1/12/2022	797.0	340.9
1/13/2022	776.8	349.0
1/14/2022	762.6	349.6

	Daily averaged	Daily averaged
Date	SO2 rate Train A	SO2 rate Train B
Date	(lb SO2/Day)	(lb SO2/Day)
1/15/2022	752.6	350.8
1/16/2022	751.3	357.0
1/17/2022	749.8	355.4
1/18/2022	747.9	354.9
1/19/2022	763.6	357.3
1/20/2022	615.4	363.7
1/21/2022	364.0	323.7
1/22/2022	322.3	278.5
1/23/2022	279.7	244.8
1/24/2022	441.2	0.0
1/25/2022	558.5	0.0
1/26/2022	454.1	173.5
1/27/2022	357.3	253.4
1/28/2022	346.7	240.5
1/29/2022	354.1	247.6
1/30/2022	353.4	246.1
1/31/2022	359.9	275.9
2/1/2022	362.4	290.6
2/2/2022	349.4	274.9
2/3/2022	360.3	269.9
2/4/2022	360.4	273.1
2/5/2022	376.7	286.0
2/6/2022	363.5	275.5
2/7/2022	360.9	287.1
2/8/2022	361.5	557.6
2/9/2022	382.3	687.8
2/10/2022	392.9	709.8
2/11/2022	514.1	330.1
2/12/2022	764.6	0.0
2/13/2022	334.2	1.6
2/14/2022	24.7	23.8
2/15/2022	27.2	87.6
2/16/2022	396.2	909.7
2/17/2022	754.6	427.5
2/18/2022	746.6	24.2
2/19/2022	783.8	879.1
2/20/2022	774.7	671.7
2/21/2022	778.2	926.1
2/22/2022	848.9	940.5
2/23/2022	920.1	898.2
2/24/2022	814.5	893.5
2/25/2022	753.2	980.1
2/26/2022	809.6	1034.5
2/27/2022	372.5	490.4
2/28/2022	0.0	682.5
3/1/2022	0.0	950.0

	Daily averaged	Daily averaged
Date	SO2 rate Train A	SO2 rate Train B
Date	(lb SO2/Day)	(lb SO2/Day)
3/2/2022	0.0	939.9
3/3/2022	0.0	963.3
3/4/2022	527.1	685.3
3/5/2022	939.3	790.1
3/6/2022	1035.6	964.0
3/7/2022	1039.9	961.5
3/8/2022	1054.7	776.1
3/9/2022	1077.5	668.0
3/10/2022	1090.9	671.6
3/11/2022	1077.0	661.9
3/12/2022	79.3	303.6
3/13/2022	203.4	731.6
3/14/2022	971.5	708.5
3/15/2022	1064.9	582.7
3/16/2022	1051.7	498.5
3/17/2022	1059.3	514.2
3/18/2022	995.9	530.2
3/19/2022	993.3	525.7
3/20/2022	985.4	509.6
3/21/2022	1012.3	496.8
3/22/2022	1115.2	523.2
3/23/2022	1140.7	510.5
3/24/2022	1106.7	579.8
3/25/2022	1085.9	383.8
3/26/2022	1046.9	12.1
3/27/2022	474.9	11.4
3/28/2022	0.7	0.1
3/29/2022	0.6	0.1
3/30/2022	0.5	0.0
3/31/2022	392.7	413.3
4/1/2022	521.5	522.5
4/2/2022	507.2	509.1
4/3/2022	221.5	228.1
4/4/2022	6.6	9.1
4/5/2022	3.7	5.7
4/6/2022	0.0	2.4
4/7/2022	0.0	2.7
4/8/2022	0.0	2.2
4/9/2022	0.0	2.2
4/10/2022	0.0	1.9
4/11/2022	0.0	0.7
4/12/2022	0.1	0.0
4/13/2022	0.0	0.0
4/14/2022	0.0	5.2
4/15/2022	7.6	12.3
4/16/2022	11.0	12.7
TITIOLEURE	11.0	14.7

	Daily averaged	Daily averaged
Date	SO2 rate Train A	SO2 rate Train B
Date	(lb SO2/Day)	(lb SO2/Day)
4/17/2022	12.3	16.2
4/18/2022	7.0	13.6
4/19/2022	0.0	20.0
4/20/2022	0.3	7.5
4/21/2022	2.8	3.1
4/22/2022	25.4	27.6
4/23/2022	5.9	7.3
4/24/2022	4.2	4.4
4/25/2022	24.6	25.2
4/26/2022	29.3	29.6
4/27/2022	32.8	33.0
4/28/2022	24.6	25.4
	13.9	14.8
4/29/2022		
4/30/2022	16.5	17.7
5/1/2022	19.7	20.7
5/2/2022	11.1	11.7
5/3/2022	3.1	4.3
5/4/2022	11.9	857.2
5/5/2022	194.1	1175.5
5/6/2022	838.0	1123.0
5/7/2022	839.1	1089.1
5/8/2022	860.8	1105.0
5/9/2022	898.4	1091.5
5/10/2022	979.1	1114.0
5/11/2022	1003.4	1023.9
5/12/2022	1107.3	1371.2
5/13/2022	1155.1	1432.3
5/14/2022	1175.7	1436.6
5/15/2022	1114.1	1293.8
5/16/2022	942.7	1056.1
5/17/2022	1138.2	1176.4
5/18/2022	1185.7	1213.8
5/19/2022	972.6	890.0
5/20/2022	693.9	696.2
5/21/2022	449.7	430.8
5/22/2022	427.5	408.6
5/23/2022	207.9	207.6
5/24/2022	85.2	92.5
5/25/2022	79.3	112.5
5/26/2022	59.0	121.3
5/27/2022	96.0	152.7
5/28/2022	66.0	125.3
5/29/2022	71.4	135.5
5/30/2022	74.3	136.7
5/31/2022	78.7	140.9
6/1/2022	85.4	150.3

	Daily averaged	Daily averaged
Date	SO2 rate Train A	SO2 rate Train B
	(lb SO2/Day)	(lb SO2/Day)
6/2/2022	89.3	90.5
6/3/2022	97.8	24.8
6/4/2022	98.4	106.6
6/5/2022	95.5	104.2
6/6/2022	84.3	92.7
6/7/2022	89.3	97.8
6/8/2022	103.2	146.5
6/9/2022	364.9	226.0
6/10/2022	511.1	662.4
6/11/2022	0.0	811.0
6/12/2022	0.0	779.4
6/13/2022	308.7	654.7
6/14/2022	748.3	776.1
6/15/2022	651.3	661.4
6/16/2022	590.8	701.2
6/17/2022	697.8	603.1
6/18/2022	385.1	371.0
6/19/2022	88.4	86.9
6/20/2022	28.1	26.9
6/21/2022	33.7	31.7
6/22/2022	28.2	25.9
6/23/2022	23.7	21.5
6/24/2022	18.6	17.0
6/25/2022	8.8	7.6
6/26/2022	8.3	5.6
6/27/2022	8.5	6.4
6/28/2022	5.8	4.1
6/29/2022	3.0	1.5
6/30/2022	175.8	138.4
7/1/2022	325.5	293.5
7/2/2022	389.6	361.2
7/3/2022	497.1	384.9
7/4/2022	815.1	376.0
7/5/2022	958.6	558.9
7/6/2022	1107.5	764.0
7/7/2022	1112.4	751.5
7/8/2022	1100.6	720.7
7/9/2022	1067.5	821.5
7/10/2022	1082.9	815.2
7/11/2022	1075.3	889.5
7/12/2022	1073.2	992.3
7/13/2022	1097.8	995.7
7/14/2022	1122.0	1002.7
7/15/2022	1118.7	1006.5
7/16/2022	1112.7	1000.3
7/17/2022	1111.2	1002.2
11112022	1711.4	1002.1

	Daily averaged	Daily averaged
Date	SO2 rate Train A	SO2 rate Train B
Date	(lb SO2/Day)	(lb SO2/Day)
7/18/2022	1113.6	859.6
7/19/2022	918.8	765.1
7/20/2022	805.3	776.5
7/21/2022	846.2	811.1
7/22/2022	858.9	820.7
7/23/2022	856.2	829.0
7/24/2022	852.4	832.2
7/25/2022	849.0	1154.7
7/26/2022	853.3	1439.7
7/27/2022	951.0	1447.8
7/28/2022	1117.4	1183.1
	998.4	
7/29/2022		965.4
7/30/2022	1009.1	975.6
7/31/2022	1009.7	979.2
8/1/2022	782.6	751.2
8/2/2022	626.9	594.1
8/3/2022	624.5	559.2
8/4/2022	615.5	440.2
8/5/2022	612.7	555.3
8/6/2022	624.6	561.2
8/7/2022	648.0	559.5
8/8/2022	405.0	358.3
8/9/2022	291.7	261.7
8/10/2022	288.8	270.0
8/11/2022	292.0	554.1
8/12/2022	466.3	908.7
8/13/2022	660.9	939.4
8/14/2022	658.6	945.9
8/15/2022	462.0	584.9
8/16/2022	353.5	304.6
8/17/2022	354.8	275.6
8/18/2022	355.4	276.7
8/19/2022	353.6	274.6
8/20/2022	352.9	274.3
8/21/2022	355.8	275.0
8/22/2022	103.1	120.6
8/23/2022	0.4	59.2
8/24/2022	0.5	59.9
8/25/2022	0.5	59.2
8/26/2022	129.9	382.4
8/27/2022	265.7	324.1
8/28/2022	267.2	320.3
8/29/2022	179.6	247.8
8/30/2022	103.7	185.4
8/31/2022	89.4	112.8
9/1/2022	93.6	83.4

	Daily averaged	Daily averaged
Date	SO2 rate Train A	SO2 rate Train B
Date	(lb SO2/Day)	(lb SO2/Day)
9/2/2022	58.9	49.6
9/3/2022	23.9	21.9
9/4/2022	23.6	21.6
9/5/2022	22.7	7.7
9/6/2022	14.1	0.0
9/7/2022	32.6	0.0
9/8/2022	18.6	0.0
9/9/2022	20.3	0.0
9/10/2022	19.7	0.0
9/11/2022	11.6	0.0
9/12/2022	0.1	0.0
9/13/2022	0.0	0.0
9/14/2022	0.0	0.0
9/15/2022	0.0	0.0
9/16/2022	0.0	23.6
9/17/2022	0.0	25.1
9/18/2022	0.0	24.9
9/19/2022	0.0	23.6
9/20/2022	0.0	22.8
9/21/2022	0.0	15.2
9/22/2022	0.0	0.0
9/23/2022	0.0	0.0
9/24/2022	0.0	0.0
9/25/2022	0.0	0.0
9/26/2022	0.0	0.0
9/27/2022	0.0	0.0
9/28/2022	0.0	0.0
9/29/2022	0.0	0.0
9/30/2022	0.0	0.0
10/1/2022	0.0	0.0
10/2/2022	0.0	17.2
10/3/2022	0.0	18.3
10/4/2022	10.3	186.9
10/5/2022	31.5	762.2
10/6/2022	449.7	1122.9
10/7/2022	756.8	1175.4
10/8/2022	759.6	1174.3
10/9/2022	748.6	1161.4
10/10/2022	742.6	1155.0
10/11/2022	611.7	1147.9
10/12/2022	304.8	1117.8
10/13/2022	699.3	1099.0
10/14/2022	831.0	1098.6
10/15/2022	869.4	1142.8
10/16/2022	875.9	1147.1
10/17/2022	880.6	1156.4

	Daily averaged	Daily averaged
Date	SO2 rate Train A	SO2 rate Train B
Date	(lb SO2/Day)	(lb SO2/Day)
10/18/2022	885.3	1164.2
10/19/2022	1025.1	1173.7
10/20/2022	1122.1	1160.0
10/21/2022	1117.8	1128.4
10/22/2022	1094.1	1101.0
10/23/2022	1101.6	1109.8
10/24/2022	1107.1	1114.4
10/25/2022	1112.6	1109.0
10/26/2022	1120.9	1114.9
10/27/2022	1123.4	1052.5
10/28/2022	1163.3	945.7
10/29/2022	1180.3	916.5
10/30/2022	1041.3	893.0
10/31/2022	1225.0	844.1
11/1/2022	1241.4	708.6
11/2/2022	1265.2	598.0
11/3/2022	1280.9	449.3
11/4/2022	1286.7	280.7
11/5/2022	1123.7	305.1
11/6/2022	1268.0	270.3
11/7/2022	929.6	274.1
11/8/2022	639.0	262.2
11/9/2022	524.9	258.0
11/10/2022	340.4	251.4
11/11/2022	304.9	251.8
11/12/2022	310.4	255.2
11/13/2022	316.8	263.9
11/14/2022	316.1	264.8
11/15/2022	184.5	209.3
11/16/2022	80.7	641.4
11/17/2022	292.9	273.4
11/18/2022	287.5	257.9
11/19/2022	286.9	246.9
11/20/2022	298.5	243.6
11/21/2022	299.2	244.8
11/22/2022	303.1	242.3
11/23/2022	297.0	236.8
11/24/2022	159.2	129.0
11/25/2022	0.8	0.9
11/26/2022	0.6	0.6
11/27/2022	0.9	0.9
11/28/2022	0.6	0.8
11/29/2022	0.0	0.0
11/30/2022	0.0	0.0
12/1/2022	0.0	0.0
12/2/2022	0.0	0.0

	Daily averaged	Daily averaged
Date	SO2 rate Train A	SO2 rate Train B
	(lb SO2/Day)	(lb SO2/Day)
12/3/2022	0.0	0.0
12/4/2022	0.0	0.0
12/5/2022	0.0	0.0
12/6/2022	0.0	0.0
12/7/2022	0.0	0.0
12/8/2022	0.0	0.0
12/9/2022	350.0	322.5
12/10/2022	686.2	636.9
12/11/2022	660.3	632.1
12/12/2022	691.7	638.2
12/13/2022	688.7	624.2
12/14/2022	676.5	607.3
12/15/2022	410.4	773.6
12/16/2022	664.0	628.5
12/17/2022	667.1	628.6
12/18/2022	667.7	625.4
12/19/2022	677.3	619.4
12/20/2022	785.7	430.2
12/21/2022	652.4	600.9
12/22/2022	636.7	583.7
12/23/2022	713.9	662.4
12/24/2022	665.6	617.1
12/25/2022	629.1	583.7
12/26/2022	610.1	566.9
12/27/2022	345.3	209.4
12/28/2022	217.5	8.5
12/29/2022	133.3	43.8
12/30/2022	253.3	114.5
12/31/2022	276.4	24.8
1/1/2023	277.2	23.4
1/2/2023	255.8	22.3
1/3/2023	255.8	23.6
1/4/2023	126.8	27.7
1/5/2023	73.8	32.6
1/6/2023	101.6	38.9
1/7/2023	60.2	45.9
1/8/2023	43.3	46.0
1/9/2023	44.6	47.7
1/10/2023	34.5	40.8
1/11/2023	33.8	37.8
1/12/2023	29.3	39.2
1/13/2023	21.8	48.4
1/14/2023	58.3	62.2
1/15/2023	63.0	66.3
1/16/2023	63.5	66.8
1/17/2023	423.0	379.8

	Daily averaged	Daily averaged
Date	SO2 rate Train A	SO2 rate Train B
Date	(lb SO2/Day)	(lb SO2/Day)
1/18/2023	924.2	860.2
1/19/2023	887.1	821.3
1/20/2023	905.1	836.3
1/21/2023	908.1	844.9
1/22/2023	592.5	916.3
1/23/2023	416.8	1029.9
1/24/2023	826.2	766.6
1/25/2023	768.3	714.4
1/26/2023		
	767.0	711.5
1/27/2023	769.6	715.1
1/28/2023	780.5	722.5
1/29/2023	784.6	723.7
1/30/2023	559.7	514.3
1/31/2023	407.1	379.7
2/1/2023	405.0	381.8
2/2/2023	586.4	382.8
2/3/2023	697.5	400.4
2/4/2023	686.1	405.8
2/5/2023	667.6	396.1
2/6/2023	666.8	402.2
2/7/2023	682.2	393.2
2/8/2023	690.0	399.0
2/9/2023	679.5	397.8
2/10/2023	490.3	397.0
2/11/2023	405.2	394.4
2/12/2023	402.3	394.5
2/13/2023	399.9	393.0
2/14/2023	397.0	392.8
2/15/2023	284.8	690.8
2/16/2023	208.2	973.6
2/17/2023	164.1	611.4
2/18/2023	218.2	969.5
2/19/2023	210.7	950.0
2/20/2023	212.4	958.8
2/21/2023	215.2	945.4
2/22/2023	195.0	792.1
2/23/2023	217.7	941.9
2/24/2023	196.5	764.8
2/25/2023	224.9	946.6
2/26/2023	218.2	939.8
2/27/2023	31.0	811.3
2/28/2023	0.3	887.0
3/1/2023	0.3	852.6
3/2/2023	0.1	616.3
3/3/2023	0.1	812.1
3/4/2023	0.2	833.2

	Daily averaged	Daily averaged
Date	SO2 rate Train A	SO2 rate Train B
Date	(lb SO2/Day)	(lb SO2/Day)
3/5/2023	0.2	832.5
3/6/2023	0.2	838.6
3/7/2023	0.2	650.6
3/8/2023	44.8	790.4 378.9
3/10/2023	168.0 187.3	364.4
	214.6	367.6
3/11/2023		
3/12/2023	196.2 182.1	365.3
3/13/2023		367.9
3/14/2023	197.7	375.0
3/15/2023	258.7	514.8
3/16/2023	323.8	665.8
3/17/2023	287.9	671.8
3/18/2023	287.1	672.2
3/19/2023	287.8	677.5
3/20/2023	292.3	676.9
3/21/2023	358.8	846.3
3/22/2023	453.6	1171.3
3/23/2023	519.4	1415.9
3/24/2023	522.0	1413.0
3/25/2023	516.4	1390.8
3/26/2023	467.8	1231.6
3/27/2023	234.1	525.3
3/28/2023	201.4	418.3
3/29/2023	115.4	416.1
3/30/2023	174.8	421.9
3/31/2023	0.3	398.8
4/1/2023	0.1	395.7
4/2/2023	2.1	398.8
4/3/2023	146.0	364.1
4/4/2023	127.0	320.6
4/5/2023	125.2	319.9
4/6/2023	132.2	328.2
4/7/2023	135.5	333.3
4/8/2023	136.9	333.5
4/9/2023	111.1	335.6
4/10/2023	139.1	347.3
4/11/2023	143.8	345.1
4/12/2023	177.2	483.4
4/13/2023	236.0	662.7
4/14/2023	353.4	948.1
4/15/2023	391.4	979.6
4/16/2023	226.0	409.9
4/17/2023	0.1	353.8
4/18/2023	521.9	1373.8
4/19/2023	724.4	1783.9

	Daily averaged	Daily averaged
Date	SO2 rate Train A	SO2 rate Train B
Date	(lb SO2/Day)	(lb SO2/Day)
4/20/2023	758.6	1908.0
4/21/2023	773.7	1995.6
4/22/2023	772.5	2003.7
<u> </u>		
4/23/2023	776.0	2010.1
4/24/2023	533.0	1291.4
4/25/2023	158.1	732.1
4/26/2023	146.9	722.1
4/27/2023	135.4	711.3
4/28/2023	125.0	722.5
4/29/2023	79.3	601.9
4/30/2023	36.2	1511.6
5/1/2023	281.1	1863.4
5/2/2023	202.6	1830.1
5/3/2023	321.8	1849.7
5/4/2023	181.2	739.0
5/5/2023	182.4	722.6
5/6/2023	153.6	698.0
5/7/2023	142.8	682.8
5/8/2023	112.0	647.8
5/9/2023	118.0	654.9
5/10/2023	122.0	663.2
5/11/2023	117.2	657.7
5/12/2023	129.2	876.2
5/13/2023	145.9	1276.3
5/14/2023	145.0	1278.0
5/15/2023	149.5	1272.9
5/16/2023	144.2	1260.3
5/17/2023	139.4	1255.5
5/18/2023	139.9	1262.8
5/19/2023	168.4	1281.9
5/20/2023	180.1	1295.2
5/21/2023	170.9	1298.7
5/22/2023	172.9	1330.5
5/23/2023	169.4	1291.4
5/24/2023	157.3	1286.2
5/25/2023	152.2	1339.0
5/26/2023	149.8	1238.5
5/27/2023	152.5	1248.1
5/28/2023	154.1	1251.2
5/29/2023	154.3	1254.3
5/30/2023	154.6	1254.4
5/31/2023	150.6	1262.9
6/1/2023	453.7	957.3
6/2/2023	655.3	650.9
6/3/2023	643.4	646.7
6/4/2023	634.8	638.5

	Daily averaged	Daily averaged
Date	SO2 rate Train A	SO2 rate Train B
	(lb SO2/Day)	(lb SO2/Day)
6/5/2023	298.6	836.8
6/6/2023	106.3	943.5
6/7/2023	129.1	751.4
6/8/2023	381.5	847.9
6/9/2023	591.9	775.0
6/10/2023	373.2	772.3
6/11/2023	460.6	864.8
6/12/2023	777.9	929.8
6/13/2023	947.6	933.6
6/14/2023	947.0	939.3
6/15/2023	942.3	936.2
6/16/2023	946.0	940.1
6/17/2023	935.7	942.1
6/18/2023	935.8	943.3
6/19/2023	709.6	559.6
6/20/2023	575.2	343.8
6/21/2023	411.6	345.3
6/22/2023	336.1	341.1
6/23/2023	375.3	321.6
6/24/2023	326.8	313.5
6/25/2023	321.8	307.3
6/26/2023	324.9	311.8
6/27/2023	657.5	654.3
6/28/2023	787.9	791.7
6/29/2023	727.0	601.1
6/30/2023	687.3	696.1
7/1/2023	684.4	695.3
7/1/2023	652.9	219.4
7/3/2023	673.6	566.9
7/4/2023	690.8	655.6
7/5/2023	469.8	441.1
7/6/2023	303.7	346.6
7/7/2023	368.1	338.5
7/8/2023	371.3	344.0
7/9/2023	365.1	342.8
7/10/2023	367.9	346.4
7/11/2023	378.3	350.0
7/11/2023	283.0	260.9
7/12/2023	43.0	48.5
7/13/2023	302.3	297.8
7/15/2023	386.6	360.2
7/16/2023	389.6	365.7
-		375.2
7/17/2023	365.7	
7/18/2023	349.6	375.5
7/19/2023	353.8	359.6
7/20/2023	349.0	357.7

Daily averaged Daily averaged SO2 rate Train A SO2 rate Train (lb SO2/Day) (lb SO2/Day)	ain B
(lb SO2/Day) (lb SO2/Da	
7/21/2023 283.8 349.1	- 3)
7/22/2023 332.6 337.2	
7/23/2023 327.2 334.8	
7/24/2023 566.5 568.3	
7/25/2023 548.7 695.0	
7/26/2023 645.1 698.3	
7/27/2023 688.8 684.5	
7/28/2023 681.1 678.1	
7/29/2023 602.1 415.0	
7/30/2023 680.6 679.5	
7/31/2023 685.6 684.7	
8/1/2023 811.4 868.5	
8/2/2023 936.1 942.9	
8/3/2023 692.9 714.0	
8/4/2023 698.6 730.2	
8/5/2023 714.1 768.6	
8/6/2023 698.8 747.0	
8/7/2023 693.6 743.0	
8/8/2023 686.2 736.5	
8/9/2023 679.7 732.8	
8/10/2023 620.9 110.5	
8/11/2023 793.8 81.4	
8/12/2023 779.8 71.4	
8/13/2023 795.1 69.9	
8/14/2023 782.3 0.0	
8/15/2023 683.4 0.0	
8/16/2023 530.6 0.0	
8/17/2023 530.0 0.0	
8/18/2023 445.7 0.0	
8/19/2023 370.0 0.0	
8/20/2023 376.4 0.0	
8/21/2023 379.3 0.0	
8/22/2023 377.3 0.0	
8/23/2023 394.9 0.0	
8/24/2023 396.4 0.0	
8/25/2023 98.6 0.0	
8/26/2023 95.5 0.0	
8/27/2023 126.2 0.0	
8/28/2023 147.1 0.0	
8/29/2023 144.9 0.0	
8/30/2023 73.2 0.0	
8/31/2023 0.1 0.0	
9/1/2023 0.0 0.0	
9/2/2023 0.0 0.0	
9/3/2023 0.0 0.0	*
9/4/2023 0.0 0.0	

	Daily averaged	Daily averaged
Date	SO2 rate Train A	SO2 rate Train B
	(lb SO2/Day)	(lb SO2/Day)
9/5/2023	0.3	0.0
9/6/2023	1.9	0.0
9/7/2023	0.7	0.0
9/8/2023	7.3	0.0
9/9/2023	0.2	0.0
9/10/2023	0.1	0.0
9/11/2023	0.0	0.0
9/12/2023	0.4	0.0
9/13/2023	0.0	0.0
9/14/2023	0.0	0.0
9/15/2023	0.0	0.0
9/16/2023	0.2	0.0
9/17/2023	0.6	0.0
9/18/2023	2.8	0.0
9/19/2023	5.9	0.0
9/20/2023	10.7	0.0
9/21/2023	10.9	0.0
9/22/2023	8.5	0.0
9/23/2023	7.8	0.0
9/24/2023	11.0	0.1
9/25/2023	10.5	0.0
9/26/2023	3.2	0.0
9/27/2023	0.0	0.0
9/28/2023	0.0	0.0
9/29/2023	475.8	0.0
9/30/2023	1059.5	0.0