

December 4, 2023

Re:

#### 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

Violation Notice A-2023-00162

Koppers Inc. Carbon Materials and Chemicals 3900 South Laramie Avenue Cicero, IL 60804-4523 Tel 708 556 9984 Fax 708 656 6079 www.koppers.com

#### RECEIVED STATE OF ILLINOIS

DEC 0 8 2023

ENVIRONMENTAL PROTECTION AGENCY BUREAU OF AIR

Dear Ms. Keppner-Bauman:

ID: 031300AAJ

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.<sup>1</sup> 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.<sup>2</sup> 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.<sup>3</sup> 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

<sup>&</sup>lt;sup>1</sup> Attachment A, February 24, 2023 Deviation Report.

<sup>&</sup>lt;sup>2</sup> 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.<sup>4</sup> 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.<sup>5</sup> 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.<sup>6</sup> 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.

<sup>5</sup> Attachments A & B.

<sup>&</sup>lt;sup>4</sup> Attachment D, Startup, Shutdown, and Malfunction Plan, November 2020 (Revision 03).

<sup>&</sup>lt;sup>6</sup> 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.<sup>7</sup> 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.<sup>8</sup>

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 (SO<sub>2</sub>) emissions based upon three minute samples of air flows and SO<sub>2</sub> 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 (2<sup>nd</sup> half 2022) through June 30, 2023 (1<sup>st</sup> half 2023) was 94.3%. In other words, the SO<sub>2</sub> 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

<sup>&</sup>lt;sup>7</sup> Attachment F, Closed Vent System Monitoring Data.

<sup>&</sup>lt;sup>8</sup> Attachments A & B.

feed samples and to not increase the feed rate to ensure that  $SO_2$  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  $SO_2$  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  $SO_2$  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  $SO_2$  to exceed 260 lb/hr on multiple occasions from August 2022 through June 2023.

#### **Koppers' Response:**

Koppers did not cause or allow emissions of  $SO_2$  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.<sup>9</sup>

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 SO<sub>2</sub> rate to estimate SO<sub>2</sub> emissions when the CEMS was down. The highest measured SO<sub>2</sub> 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 SO<sub>2</sub> 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.

9

Attachments G & H, 2<sup>nd</sup> half 2022 and 1<sup>st</sup> 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.<sup>10</sup>

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.<sup>11</sup> 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.<sup>11</sup> 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

<sup>&</sup>lt;sup>10</sup> Attachment I, Naphthalene Sampling Results.

<sup>&</sup>lt;sup>11</sup> 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.<sup>12</sup>

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:

12

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:

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.<sup>13</sup>

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.

<sup>&</sup>lt;sup>13</sup> 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.<sup>14</sup> 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.<sup>15</sup> 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.

<sup>&</sup>lt;sup>14</sup> Attachment O, May 30, 2023 Deviation Report.

<sup>&</sup>lt;sup>15</sup> 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.<sup>16</sup> 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.

<sup>16</sup> 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.<sup>17</sup> 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. <u>Response to Recommendations</u>

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

<sup>&</sup>lt;sup>17</sup> 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 letter<sup>18</sup>

<sup>18</sup> 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 1<sup>st</sup> 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.<sup>19</sup>

7. Within 45 days of receipt of this Violation Notice, submit to the Illinois EPA, Bureau of Air, Compliance Section, average hourly SO<sub>2</sub> 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.<sup>20</sup>

<sup>&</sup>lt;sup>19</sup> Attachment I.

<sup>&</sup>lt;sup>20</sup> Attachment Q, SO<sub>2</sub> 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 SO<sub>2</sub> emissions from the Phthalic Anhydride Reactor Trains A and B based on average hourly SO<sub>2</sub> 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.<sup>21</sup>

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

<sup>21</sup> 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, SO<sub>2</sub>, particulate matter (PM), or  $PM_{10}/PM_{2.5}$  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.<sup>22</sup>

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.

<sup>&</sup>lt;sup>22</sup> 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

C

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

C



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

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	<ul> <li>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.</li> <li>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.</li> </ul>		
	7/15/2022 5:04 am - 5:35 am: Issue investigated and Thermal Ovidizer restarted		
Taken	9/24/2022 6:27 pm – 6:50 pm: Control issue repaired, and Thermal Oxidizer restarted.		
Steps Taken to Avoid Future Events	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

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

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, 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,

Solto 2

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: the no

Name: L. Seth Herring

**Official Title:** 

Plant Manager CMC NA

**Telephone No.:** 

708-556-9984

Date Signed:

8/30/23

Page 3

ATTACHMENT 1 - REPORT OF MALFUNCTIONS

C

C

**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** 

C

0

Start Time	End Time	Duration (Hr)	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 23:12	2/8/23 23:17	0.08	0.36
2/16/23 9:37	2/16/23 9:42	0.08	0.36
2/16/23 12:27	2/16/23 12:33	0.10	0.44
2/17/23 20:37	2/17/23 20:41	0.07	0.29
2/23/23 17:00	2/23/23 18:21	1.35	5.90
2/23/23 18:21	2/23/23 19:15	0.90	3.93
2/24/23 11:13	2/24/23 11:24	0.18	0.80
2/24/23 11:24	2/24/23 11:28	0.07	0.29
2/24/23 11:28	2/24/23 12:58	1.50	6.56
3/7/23 21:23	3/7/23 21:41	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	0.08	0.36
4/16/23 12:20	4/16/23 13:29	1.15	5.03
4/16/23 13:15	4/16/23 13:17	0.03	0.15
4/16/23 13:17	4/16/23 13:25	0.13	0.58
4/16/23 13:25	4/16/23 14:25	1.00	4.37
4/27/23 18:25	4/27/23 18:49	0.40	1.75
4/27/23 19:23	4/27/23 19:26	0.05	0.22
4/28/23 9:03	4/28/23 9:08	0.08	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	5/22/23 22:59	0.08	0.36
5/23/23 16:39	5/23/23 16:53	0.23	1.02
5/28/23 12:06	5/28/23 12:26	0.33	1.46
5/28/23 12:33	5/28/23 13:05	0.53	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	0.08	0.36
6/15/23 12:07	6/15/23 12:39	0.53	2.33

Start Time	End Time	<b>Duration</b> (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

C

C

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)(l)	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.

C

§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 63.137 of 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, 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

۰,

0

 $\mathbf{C}$ 

- <b>C</b>
3
8
E
3
5
=
.0
- <del>'</del> <del>.</del> .
- H
- 3
5
<b>—</b>
76
1
2
0

(

Reparts/Adjustment to CMS	63-10(C)(12)			
	Corrective Action Taken 63, 10(C)(11)			
Caused or may have	emissions?			
	(hours)	12-12-21		
	Malfanation Description 63 10/0/10)			
	ć	Equipment Description	None during the reporting period	
		Date		

### PAI MACT Periodic Report

0

### 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

0

### 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

				1.0
	Total duration of excess emissions:	23.75 3.3	hours % of total operating time	
Duration of excess emissions due to:				_
St	tartup/shutdown 63.10(c)(7)	0.0	hours	
Ŭ	ontrol equipment problems	23.75	hours	
PI	rocess problems	0.0	hours	
0	tther known causes	0.0	hours	
õ	tther unknown causes	0.0	hours	
				-

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

C

## PAI MACT Periodic Report Excess Emissions and CMS Performance Report

C

## **CMS Information Summary**

Parameter	I ar I hermal Uxidizer
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) <sup>a</sup>	0.0%

<sup>a</sup> Total CMS downtime includes the duration of power failures plus monitoring

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

Tar Thermal Oxidizer	0.00
Parameter	Duration of Excursions (hours)

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)

None during reporting period

(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

0

0

2

The following information is provided regarding the operating parameter exceedances

e following information is	s provided regarding the operating parameter executations.
Reg	Information.
§63.1368(g)(2)(ii)(A)	Daily average values of monitored parameters for all operating days when the average values were outside the ranges established in the Notification of Compitance status report (NCS).
§63.1368(g)(2)(ii)(C)	Operating logs and operating scenarios for all operating days when the values are outside the levels established in the NCS
§63.10(c)(7)	The specific identification of each time period of parameter monitoring exceedances that occurs during SSM events.
§63.10(c)(8)	The specific identification of each time period of parameter monitoring exceedances that occurs during periods other than SSM events.

n the NCS.		Operating Scenario	102.00	Not applicable	
the ranges established i	Minimum Allowable	Value (F)		1350	2001
alues were outside 1		Block Average (F)		1138	463
hen the average vi		End Time		2/2/23 18:15	2/23/23 19:15
Derating days w		Start Time		2/2/23 15:45	2/23/23 17:00
0		Parameter Exceeded <sup>1</sup>			Tar TO Temperature

### PAI MACT Periodic Report Control Device Operating Parameter Exceedances

The following pages provide information regarding the operating parameter exceedances.

Ree Inform

0

Information: 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

31	CO 13 DIMINUS VIRUS AL	
	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
l	02-Feb-23 16:30:00	1090.1
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
ł	02-Feb-23 17:45:00	828.6
1	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

C

0

	Valves in gas/	vapor or light			Connectors in	gas/vapor or	Agitators in gas/	vapor or light		-
18-Aug-20	liquid s	service	Pumps in light l	iquid service	light liquic	l service	liquid se	rvice	Compre	ssors '
LDAR Test Date	Monitored	Leakers	Monitored	Leakers	Monitored	Leakers	Monitored	Leakers	Monitored	Leakers
Totals:	11	0	0	0	45	0	0	0	NA	NA
Percent Leakers:	0.0	%	0.09	0	0.0	%	0.0	0	Ż	

23
200
June
through
2023
January
for
Summary
Testing
LDAR
PAI.

0

6

<sup>1</sup> 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.

0

Creosote Charging Emission Calculations Batch emission estimates from 40 CFR 63.2460(b) are provided below:

0

Emissions from Charging (Vapor Displacement) - 40 CFR 63.1257(d)(2)(i)(A)

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

Where: E=mass of VOM emitted V=volume of gas displace from the vessel Reideal gas las constant T=temperature of the vessal vapor space; absolute P<sub>i</sub>=partial pressure of individual VOM MW<sub>i</sub>=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<sub>VOM</sub>=X<sub>VOM</sub>\*P<sup>sat</sup>

Ţ								
	Evon	(lb/hr)	0 00	70.0	06 0	0/.0	1 33	4.44
	Evom	(ql)	1 0.4	to:T	7 41	T+-/	5	0.40
	Evom	(g)	C C C V	4/3.4	1000	2201.7	(A to a construction	:(7 nours):
	MM	(g/mole)	1004	7T'NOT		T//		ing episode
	Pvow	(atm)	1000 0	c.000.0	CC00 0	0.0035	-	nissions dur
	;	MOVX		C/671/.0		0.28/025		Charging Err
	Part	(atm)		0.000662		0.011		Total C
		MOV		NSR		Creosote		
		. (X)		338.7		366.5		
	~	(L*atm/(mol*K))		0.082057	1010010	0.082057	100000	
	>	> 3		174120 26	00'07T4/T	174170 86	00.021411	

Charging/Transfering Emissions Estimated Using Equation 11

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

6

0

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

Response to Violation Notice A-2023-00162

Koppers Inc.

### REVISED REPORT



Koppers, Inc. Stickney, IL

### Startup, Shutdown, and Malfunction Plan

Revision 03

November 2020

0

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

### **TABLE OF CONTENTS**

5

1.0	SCO	PE AND PURPOSE1
2.0	DEF	INITIONS
3.0	PRC	CEDURES
	3.1	SSM PLAN FOR CRUDE TAR DISTILLATION PROCESS
		3.1.1 Startup
		3.1.2 Shutdown
		3.1.3 Malfunctions
		3.1.4 Monitoring Devices
	3.2	SSM PLAN FOR TYPE A CARBON PITCH TANKS7
		3.2.1 Startup
		3.2.2 Thermal Oxidizer Shutdown
		3.2.3 Malfunctions
		3.2.4 Monitoring Devices
	3.3	MAINTENANCE WASTEWATER11
4.0	REC	ORDKEEPING13
	4.1	GENERAL RECORDS
	4.2	RECORDKEEPING FOR MALFUNCTIONS OF THE CONTINUOUS MONITORING SYSTEM (CMS)14
5 <b>.0</b>	REP	ORTING15
	5.1	COMPLIANCE REPORTS15
	5.2	STATE REPORTING15
6.0	RES.	PONSIBILITIES
7.0	REV	ISIONS TO THE PLAN AND RECORDS RETENTION REQUIREMENTS 17
8.0	ATT	ACHMENTS

### 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″ H<sub>2</sub>O.
- 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**

6

C

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.

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

G



6



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

0

Č

						1			
of	SSM Plan Followed?		001 / 531		162 / 100		Yes / No		
Page	Describe Corrective actions taken, including repairs or adjustments to monitoring system								
	Nature and Cause of Malfunction								
	Date/Time Activity Ends		<u>Dpt. Only</u> Hours/Minutes)		<u>Dpt. Only</u> Hours/Minutes)		<u>ppt. Only</u> Hours/Minutes)		
	Date/Time Activity Starts		<u>Env. Ľ</u> Duration (F		<u>Env. D</u> Duration (F		<u>Env. D</u> Duration (F		
	Activity (circle one)	Inoperative OA/OC Calibration	Other Cause	Inoperative OA/OC Calibration	Other Cause	Inoperative QA/QC Calibration Other Cause			

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

C

100

of	For Env. Dept. Use Only	Duration Hours/Minutes																						
Page		Form 3 Required? (Note 1)		Yes / No			Yes / No			Yes / No		ł	Yes / No		ŝ	Yes / No			Yes/No			Yes / No		
		SSM Plan Foliowed?		Yes / No			Yes / No			Yes / No		5	Yes / No		2	Yes / No			Yes / No			Yes / No		
		If Malfunction, What Was Cause and Corrective Action?																						
		Date/Time Activity Ends	ç																					
		Date/Time Activity Starts																						
		Activity (circle one)	Start-up	Shut Down	Malfunction	Notes:																		
													-						_		_	_	_	÷

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

G

### Form #3 - SSM Event Report

6

C

Identify the Area of	f the Event: Process	Control Device	_
Date:	Shift:	Name:	
Event being reported	ed:		
Start Up	Shutdown	Malfunction	
<u>Please give a brief d</u>	lescription of the event a	and corrective actions taken:	
Time Event started	:(Date, ]	Hour, Minute)_ <u>Time Event ended:</u>	(Date, Hour, Minute)
<u>Please describe in d</u>	etail why the plan was r	aot followed:	

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

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.	HM
11/06/2020	03	Update recordkeeping to include use of the electronic SSM system.	СР
			·

# FORM 4 - SSM Plan Review & Revision Log

C

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

(

 $\epsilon$ 

identification:	FW0115244		Date/Ti	me Printed:	11/27/23 10	:34:58 AN			
Description:	TAR-Y-RC C	ALIBRATIONS (EH	S-006-TE-4729)			Page	s/Printed By	: 1 KOPPEI	RSVFABIN
Address:									
Priority:			Requested:	S-PM-100093		Da	ate 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	
Cap X:	No		Job No.:			A	<b>Ictual Time:</b>	8.00	
Equipment ID:	500000394	8 TE-4729 TEMP E	EMENT ON F-2301 (E	HS-006) TE-4729					
Location:	1760								
Serial No.:				Enterprise:					
Manufacturer:				Region: US	SA		Area:		
Company ID:				Facility: ST	ICKNEY		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	SHE - YEARLY	JOSE REYES	3/11/2022	3/11/2022	0.00	4.00		
	AS FOUND:				1.1.1.1				
	AS LEFT:				-				
2		SHE - YEARLY	STEPHEN SANCHEZ	5/1/2022	- 5/1/2022	0.00	4.00		

Identification:	FW0115243	3 UDN-2200621		Date/Ti	ime Printed:	11/27/23 10	):36:13 A				
Description:	TAR-Y- RC	CALIBRATIONS (EF	IS-005-TE-4744)			Pages/Printed By: 1 KOPPERS\FAB					
Address:											
Priority:			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	1		
Work Code:	ISO		<b>O8P:</b>			Ela	ipsed Days:	220			
Cap X:	No		Job No.:			A	ctual Time:	8.00			
Equipment ID:	5000000394	5 TE-4744 TEMP EI	LEMENT ON F-2301 (EH	IS-005) TE-4744							
Location:	1760										
Serial No.:				Enterprise:							
Manufacturer:				Region: US	A		Area:				
Company ID:				Facility: ST	ICKNEY		Line:				
Reference:				Vend. Inv:			Cust. Inv:				
Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results	Unit of Measure		
1	Тлие	SHE - YEARLY	JOSE REYES	3/11/2022	3/11/2022	0.00	4.00				
	AS FOUND:										
	AS LEFT:										

Identifica	ation: FWO1170	95 UDN-2205198				Date/Ti	ine Printed:	11/27/23 11:06:22 AM
Descrip	ation: Troublesh	oot the Tar T.O.				Page	s/Printed By	: 1 KOPPERS\FABINE
Add	ress:							
Pri	ority: Urgent	· ·	Requested: 07	03/28/23 03:32 A	M by	Da	te Created:	3/28/2023
Örder 1	Type: REQUES	Т	Supervisor: W	AYNE OWENS		D	ate Started:	3/28/2023
Maint. 1	Type: ELECT		Techniclan:			Date	4/5/2023	
Work 0	ode: INSPECT	NSPECT OSP:		Ela	psed Daya:	8		
C	ap X: No		Job No.:			. A	ctual Time:	4.00
Equipme	nt ID: 5000000	001 TAR PLANT TAF	RAREA	•				
Loca	ition: 1760							
Serial	No.:			Enterprise:				
Manufact	urer:			Region:			Агеа;	
Compan	iy ID:			Facility: ST	ICKNEY		Line:	
Refere	ence:			Vend. Inv:			Cust. Inv:	
Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results 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	

0

Identification: FW0115273 UDN-2203704 Description: Troubleshoot TAR T.O.

A26Uhnour Lingersarge/ Link Li

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

Address:									
Priority:	Urgent		Requested:			Da	te Created:	12/8/2022	
Order Type:	CM		Supervisor:	WAYNE OWENS		Ð	ate Started:	12/8/2022	
Maint. Type:	ELECT		Technician:			Date	Completed:	12/7/2022	
Work Code:	BR		OSP:			Ela	psed Days:	0	
Cap X:	No		Job No.:			A	ctual Time:	11.00	
Equipment ID:	500000000	1 TAR PLANT TAR	AREA						
Location:	1760								
Serial No.:				Enterprise:					
Manufacturer:				Region:			Area:		
Company ID:				Facility:	STICKNEY		Line:		
Reference:				Vend. Inv:			Cust. Inv:		
Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results	Unit of Measure
1	Тле	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	2.00		

identification:	FW0115	041 UDN-2203353				Date/Time Printed: 11/27/23 11:08:35 AM						
Description:	TAR-FSD	-R&R and bench test ins	struments for TAR			Pages/Printed By: 1 KOPPE			RSIFABINE			
Address:												
Priority:	Special A	ttention	Requested:			Ď	ete Created:	11/16/2022				
Order Type:	СМ		Supervisor: W	AYNE OWENS	<b>i</b>	D	ate Started:	11/16/2022				
Maint: Type:	ELECT		Technician:			Date	11/21/2022					
Work Code:	SD		OSP:			Ek	psed Days:	6				
Cap X:	No		Job No.:				ctual Time:	8.00				
Equipment ID:	5000003	174 TAR THERMAL OX	DIZER									
Location:	1760											
Serial No.:				Enterprise:								
Manufacturer:				Region:	USA		Area:					
Company ID:				Facility:	STICKNEY		Line;					
Reference:				Vend. Inv:			Cust. Inv:					
Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results	Unit of Nessure			
1	True	TAR-FSD-R&R	JOSE REYES	11/16/2022	11/16/2022	0.00	4.00					
		•										
2	Тпив	TAR-FSD-R&R	EDUARDO DIAZ	11/16/2022	11/16/2022	0.00	4.00					

Identification:	FW01152	34 UDN-2202645		Date/Time Printed: 11/27/23 10:21:48 AM					
Description:	TAR THE	RMAL OXIDIZER VENT A	NUAL			Page	s/Printed By	: 1 KOPPE	RS\FABINE
Address:									
Priority:	Special At	tention	Requested: D	MP100007		Da	te Created:	9/25/2022	
Order Type:	PM		Supervisor: W	AYNE OWENS		D	ate Started:	10/2/2022	
Maint. Type:	ELECT		Technician:			Date	Completed:	12/5/2022	
Work Coda:	PM		OSP:			Ela	psed Days:	65	
Cap X:	No		Job No.:			A	ctual Time:	0.00	
Equipment ID:	50000003	174 TAR THERMAL OXID	ZER						
Location:	1760								
Serial No.:				Enterprise:					
Manufacturer:				Region: US	SA		Area:		
Company ID:				Facility: ST	ICKNEY		Line:		
Reference:				Vend. Inv:			Cust. Inv:		
	Commo	ents. This PM Iwas Done on	the OUTAGE split labo	r time in mulpopie R	equest wos.r the	Ustage Estimated			Unit of
Step	Done	Description	Assigned	Start Date	End Date	Time	Actual Time	Test Results	Measure
1	True	TAR THERMAL		10/2/2022	12/5/2022	0.00	0.00		
		AND #2 FUME SYSTE	ve						
	This proced	iure requires Electricians and k	techanics						
	Install blinds	s at the #1 and #2 vent system							
	Inspect and	repair automatic valves (PCV-	1748, V4749 & V4751) at	necessary					
	Water blast	vent piping from the vent syste	ems to the TO inici.						
	Inspect and	repair velocity section as neor	issery						
	Inspect and	repair heat trace and insulatio	n						
	inspect and	replace the ERV as necessary							
	Inspect, clea	nn, replace the flame sensor a	s necessary						
	PM the ID fa	an .							
	Mechanic -	Name							
	Date:	Ha							
	Electrician N	Kame:		1. 20 19 1	_				
	Date:	Ha							
2	Тше	TAR THERMAL		10/2/2022	12/5/2022	0.00	0.00		
		AND #2 FUME SYSTE	de la constanción de						
	This proced	ure requires Electricians and L	lechanics						
	Install bands	s at the #1 and #2 vent system	5						
	inspect and	repair automatic valves (PCV	1748, V4749 & V4751) as	necessary					
	Water blast	vent piping from the vent syste	ims to the TO inlet						
	Inspect and	repair velocity section as neor	asary						
	inspect and	repair heat trace and insulatio	n						
	Inspect and	replace the ERV as necessary							
/	inspect, clea	an, replace the flame sensor a	a nacassary						
	PM the ID fa	an							
	Mechanic - I	Name							

Identifica	tion: FWO112	392 UDN-2200859			Date/Ti	me Printed:	11/27/23 12	2:58:04 P		
Descrip	tion: Repair Ta	ar TO fume control valve	(per engineering		1	Pages/Printed By: 1 KOPPERS\OTREM8				
Addr	055;									
Prio	rity: Special A	Attention	Requested: Of	03/30/22 12:49	PM by	Da	te Created:	4/12/2022		
Order T	ype: REQUES	T	Supervisor: W	AYNE OWENS		D	ate Started:	4/12/2022		
Maint. T	ype: ELECT		Technician:			Date Completed: 5/4/2022				
Work C	ode: BR		OSP:			Elapsed Days: 23				
Ca	pX: No		Job No.:			A	ctual Time:	10.00		
Equipmen	Equipment ID: 50000003174 TAR THERMAL OXIDIZER Location: 1760									
Locat										
Serial	No.:			Enterprise:						
Manufactu	irer:			Region: U	ŞA	Area:				
Company	/ ID:			Facility: S	TICKNEY		Line:			
Refere	nce:			Vend. Inv:			Cust. Inv:			
Step	itep Done Description		Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results	Unit of Measure	
1	True	Repair Tar TO	RON CLAY	4/12/2022	4/12/2022	2 5.00	5.00			
	dept., furne valve is reportedly no		aportedly not							
2	True	1	ELECTRICIANINSTRUME	4/12/2022	4/12/2022	2 5.00	5.00			

_	Identification:	FW0120140	UDN-2207838				Date/Ti	ime Printed:	11/27/23 11	:40:29 AM
	Description:	TAR-Tar TO-					Pages/Printed	i By: 1 KOP	PERSIOTRE	EMBIAKJW
	Address:									
	Priority:	Routine		Requested:	on 10/11/23 07:34	AM by	Da	te Created:	10/12/2023	
	Order Type:	REQUEST		Supervisor:	WAYNE OWENS		D	ate Started:	10/12/2023	
	Maint. Type:	ELECT		Technician:			Date	Completed:	10/30/2023	
	Work Code:	INSPECT		OSP:			Ek	psed Days:	19	
	Cap X:	No		Job No.:			A	ctual Time:	2.00	
	Equipment ID:	5000013970	THERMAL OXID	IZER						
	Location:	1760								
	Serial No.:				Enterprise:					
	Manufacturer:				Region:	USA		Area:		
	Company ID:				Facility:	STICKNEY		Line:		
	Reference:				Vend. Inv:		_	Cust. Inv:		
Step	>	Done	Description	Assigned	Start Date	End De	e Estimated Time	Actual Time	Test Results	Unit of Measure
1		True	TAR-Tar TO-	ANAS KANTAKJI		10/11/202	3 0.00	1.00		
			Electrician assista	nce to help troubleshoot						
			which has shut do	wn and cannot re-start.						
			ume Valve #2 Ver	t will not open.						
2		True	TAR-Tar TO-	ELECTRICIAN/INSTRUME		10/11/202	3 0.00	1.00		
			Electricien essiste	nce to help troubleshoot						
			which has shut do	wn and cannot re-start.						
			ume Valve #2 Ver	t will not open.						

C

e

Identification:	FW0118968	JDN-2204150				Date/Ti	me Printed:	11/27/23 12	:03:08 PM
Description:	TAR -					Pages/Printe	d By: 1 KOF	PERSVOTRE	EMBLAKJV
Address:									
Priority:	Special Attent	lon	Requested:	on 01/06/23 09:54	4 AM by	Da	to Created:	1/13/2023	
Order Type:	REQUEST		Supervisor:	RALPH STORTO	)	D	ate Started:	1/13/2023	
Maint. Type:			Technician:			Date	Completed:	7/28/2023	
Work Code:	BR		OSP:			Ela	psed Days:	197	
Cap X:	No		Job No.:				ctual Time:	2.00	
Equipment ID:	5000000001	TAR PLANT TAP	RAREA						
Location:	1760								
Serial No.:				Enterprise:					
Manufacturer:				Region:			Агеа:		
Company ID:				Facility:	STICKNEY		Line:		
Reference:				Vend. Inv:			Cust. Inv:		
Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results	Unit of Neasure
1	Тгие	TAR -	CONTRACTOR HELM	1/13/2023	1/13/2023	2.00	2.00		
		steam leak on the	e Tar TO quench main						
		rom the header - I	located just East of						
		pots							

C

Identification:	FWO118394	UDN-2206313		Date/Time Printed: 11/27/23 12:09:43 Pl					
Description:	TAR-					Pages/Printed	By: 1 KOP	PERSIOTRE	:MBIAKJ
Address:									
Priority:	Urgent		Requested: on (	6/19/23 09:3	6 PM by	Da	te Created:	6/21/2023	
Order Type:	REQUEST		Supervisor: WA	YNE OWENS	1	D	ate Started:	6/21/2023	
Maint. Type:	ELECT		Technician:			Date	Completed:	6/21/2023	
Work Code:	INSPECT		OSP:			Ela	psed Days:	1	
Cap X:	No		Job No.:			A	ctual Time:	2.00	
Equipment ID:	5000003174	TAR THERMAL	OXIDIZER						
Location:	1760								
Serial No.:				Enterprise:					
Manufacturer:				Region:	USA		Агеа:		
Company ID:				Facility:	STICKNEY		Line:		
Reference:				Vend. Inv:			Cust. Inv:		
	Comments	Power Blip from	ComEd took out the whole Plant	11 H 2					
Step	Боле	Description	Assigned	Start Date	End Dat	e Estimated Time	Actual Time	Test Results	Unit of Measure
1	True	TAR-	ELECTRICIANINSTRUME	6/21/2023	6/21/202	3 2.00	2.00		
		Troublashoot Tar	TO and Pitch TO get it						

ne

(

Identification: FWO118648 UDN-2206452

### Date/Time Printed: 11/27/23 12:08:26 PM Pages/Printed By: 1 KOPPERS\OTREMBIAKJW

Description: Please troubleshoot the valve PV-

Address:									
Priority:	Routine		Requested:	on 06/28/23 02:1	6 PM by	Da	te Created:	6/29/2023	
Order Type:	REQUEST		Supervisor:	WAYNE OWENS		D	ate Started;	6/29/2023	
Maint. Type:	ELECT		Technician:			Date	Completed:	7/11/2023	
Work Code:	REPAIR		OSP:			Ela	paed Days;	13	
Cap X:	No		Job No.:			P	ctual Time:	12.00	
Equipment ID:	5000000000								
Location:	1760								
Serial No.:				Enterprise:					
Manufacturer:				Region:			Area:		
Company ID:				Facility:	STICKNEY		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	Piease	ANDRE MARTINEZ	6/29/2023	6/29/2023	3.00	3.00		
		4757 on the steam	line to Tar TO						
2	True		ANAS KANTAKJI	6/29/2023	6/29/2023	3.00	3.00		
3	True		EDUARDO DIAZ	6/29/2023	6/29/2023	3.00	3.00		
4	True		STEPHEN SANCHEZ	6/29/2023	6/29/2023	3.00	3.00		

0

 $\bigcirc$ 

Identification:	FWO116333	UDN-2203000				Date/T	ime Printed:	11/27/23 12	:12:33 PI
Description:	*TAR- drain d	rop legs on Tar To	O PWG line -			Pages/Printe	d By: 1 KOI	PPERS\OTR	EMBIAKJ
Address:									
Priority:	Urgent		Requested: on	10/17/22 11:25 /	AM by	Da	te Created:	10/24/2022	
Order Type:	REQUEST		Supervisor: RA	LPH STORTO		D	ate Started:	10/24/2022	
Maint. Type:	MECH		Technician:			Date	Completed:	3/1/2023	
Work Code:	REPAIR		OSP:			Efa	psed Days:	129	
Cap X:	No		Job No.:			A	ctual Time:	0.50	
Equipment ID:	50000000001	TAR PLANT TAR	AREA						
Location:	1760								
Serial No.:				Enterprise:					
Manufacturer:				Region:			Агеа:		
Company ID:				Facility: S	TICKNEY		Line:		
Reference:				Vend. inv:			Cust. Inv:		
	Comments	According to the	Supervisor this WO is Comp	alete					
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 -						
		freeh oir job							

Identification	: FWO115655	UDN-2204149				Date/T	ime Printed:	11/27/23 12	2:21:44 PM
Description	: *TAR -					Pages/Printe	d By: 1 KOF	PERSIOTR	EMBIAKJ
Address	5								
Priority	: Urgent		Requested:	on 01/06/23 09:36 A	AM by	D	ate Created:	1/13/2023	
Order Type	REQUEST		Supervisor:	MILTON MALLARD	1	Ð	ate Started:	1/13/2023	
Maint. Type	: LABOR		Technician:			Date	Completed:	1/10/2023	
Work Code	: IMPROVE		OSP:			Ela	speed Days:	-2	
Cap X	: No		Job No.:			4	Actual Time:	5.00	
Equipment ID	: 5000000001	I TAR PLANT TAR A	REA						
Location:	: 1760								
Serial No.:	:			Enterprise:					
Manufacturer	:			Region:			Area:		
Company ID:	:			Facility: S	TICKNEY		Line:		
Reference:	:			Vend. Inv:			Cust. Inv:		
	Commen!	s Keystone did the wo	ork here						
Step	Dane	Description	Assigned	Start Date	End Date	Estimated	Actual Time	Test Results	Unit of Measure
1	Тле	TAR -	CONTRACTOR	1/13/2023	1/13/2023	5.00	5.00		
		Insulate Tar TO stea	m quench supply						
		line							

C

Identification	: FWO116264	UDN-2204589				Date/T	ime Printed:	11/27/23 12	:14:52 PM
Description	: "TAR -					Pages/Printe	d By: 1 KOF	PERSIOTR	embiakjv
Address									
Priority	: Critical		Requested: 0	02/09/23 06:46 F	'M by	Da	ate Created:	2/14/2023	
Order Type	REQUEST		Supervisor: R	ALPH STORTO		D	ate Started:	2/14/2023	
Maint. Type	: MECH		Technician:			Date	Completed:	2/27/2023	
Work Code:	: REPAIR		OSP:			Ek	apsed Days:	14	
Cap X	: No		Job No.:				Actual Time:	7.00	
Equipment ID:	5000000000	TAR PLANT TAR	REA						
Location	: 1760								
Serial No.:	:			Enterprise:					
Manufacturer				Region:			Area:		
Company ID:	:			Facility: S1	<b>FICKNEY</b>		Line;		
Reference:	:			Vend. Inv:			Cust. inv:		
	Comment	s Work here was don	ie by HELM						
Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results	Unit of Measure
1	True	TAR-	CONTRACTOR	2/14/2023	2/14/2023	7.00	7.00		
		repair leaks on Tar	TO steam eductor						

C

Identifica	tion: FWO1163	14 UDN-2204242				Date/T	ime Printed:	11/27/23 12	13:37 PM
Descrip	tion: TAR -	· · · · · - · · · · · ·				Pages/Printe	d By: 1 KO	PPERSIOTR	EMBIAK.
Addr	·ess:						•		
Pric	prity: Special At	tention	Requested: O	01/12/23 09:47 P	'M by	D	ate Created:	1/18/2023	
Order T	ype: REQUES	r	Supervisor: R	ALPH STORTO		Ð	ate Started:	1/18/2023	
Maint, T	ype: MECH		Technician:			Date	Completed:	2/28/2023	
Work C	ode: REPAIR		OSP:			Eb	apsed Days:	42	
Ca	IPX: No		Job No.:			1	Actual Time:	1.00	
Equipmen	t ID: 5000000	001 TAR PLANT TA	RAREA						
Locat	tion: 1760								
Serial	No.:			Enterprise:					
Manufactu	uref:			<b>Region:</b>			Area:		
Company	y ID:			Facility: ST	ICKNEY		Line:		
Refere	nce:			Vend. Inv:			Cust. inv:		
	Comm	ants According to th	a Supervisor this WO is Com	plete					
Step	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results	Unit of Measure
1	True	TAR -	JOHN DUPLANCICH	1/18/2023	1/18/2023	1.00	1.00		
		move vacuum g	suge from tubeheater						

on Tar TO PWG line

(

Identification:	FW011516	5 UDN-2202995				Date/T	ime Printed:	11/27/23 12	:32:09 PM
Description:	TAR -				Pi	iges/Printe	d By: 1 KOI	PPERS\OTR	EMBIAKJV
Address:									
Priority:	Routine		Requested:	DMP100003		D	ate Created:	10/1/2022	
Order Type:	PM		Supervisor:	RALPH STORTO		D	ate Started;	10/1/2022	
Maint. Type:	MECH		Technician:			Date	Completed:	11/30/2022	
Work Code:	PM		OSP:			Ela	psed Days:	61	
Cap X:	No		Job No.:				ctual Time:	1.00	
Equipment ID:	50000039	29 TAR THERMAL C	XIDIZER (F-2301) F-23	101					
Location:	1760								
Serial No.:				Enterprise:					
Manufacturer:				Region:	USA		Area:		
Company ID:				Facility:	STICKNEY		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	JOHN DUPLANCICH	10/28/2022	10/28/2022	1.00	1.00		
	Lube Require	d: Mobil SHC-100 Grea	se / TAR T/O Fan is Locate	d South East of the	Safety Shop				
	Fan Side Brg	Temp							
	FAN. Pumps	Added							
	Coupl Side B	ag Temp							
	COUPL. Put	aps Added							
	Oller Name:_								
	Date.		_Hax						
2	True	PM		10/1/2022	11/30/2022	0.00	0.00		
3	True	PM		10/1/2022	11/30/2022	0.00	0.00		

1		Identification:	FW01152	34 UDN-2202645				Date/T	Ime Printed:	: 11/27/23 1	2:30:49 PM
E		Description:	TAR THER	MAL OXIDIZER VER	NT ANNUAL		1	Pages/Printe	d By: 1 KOI	PPERS\OTR	EMBIAKJW
		Address:									
		Priority:	Special Att	ention	Requested:	DMP100007		D	ate Created:	9/25/2022	
		Order Type:	PM		Supervisor: \	WAYNE OWENS		Dete	ate Started:	10/2/2022	
		Work Code:	ELEC I PM					Uate	Completed:	12/5/2022	
		Can X	No		Job No.;				Actual Time:	0.00	
	·	Equipment ID:	500000031	74 TAR THERMAL C	XIDIZER						
		Location:	1760								
		Seriat No :				Enternrise:					
		Manufacturar:				Region: Li	SA		Area-		
		Company ID:				Facility: S	TICKNEY		Line:		
		Reference:				Vend. Inv:			Cust. Inv:		
			Comme	nts This PM iwas Don	e on the OUTAGE split lab	or time in mulptiple	Request WOs.f	the Outage			
	Step		Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	Test Results	Unit of Measure
	1		True	TAR THERMAL		10/2/2022	12/5/2022	0.00	0.00		
				AND #2 FUME SY	STEM						
			This procedu	re recutres Electriciana (	and Mechanics						
			Install blinds	at the #1 and #2 yest av	stems						
			Inspect and a	enair extomatic values (	DCWATAR WATAR & VA754)						
			Mater blact u	est nining from the uset	outwork to the TO inter						
			frame and and a	one popular in our and react							
-			Inspectant is	epair venocity secouri as	inductionary						
(			Inspect and P	epair neet trace and trist	Trianous						
-			Inspect and n	eplace the ERV as noce	asary						
			Inspect, clear	n, replace the flame sens	sor as necessary						
			PM the ID far	1							
			Mechanic - N	eme	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-					
			Date:		Hra:						
			Electrician Na	ine:							
			Date:		Hrs:						
	2		True	TAR THERMAL		10/2/2022	12/5/2022	0.00	0.00		
				AND #2 FUME \$Y	STEM						
			This procedu	re requires Electricians a	and Mechanics						
			Install blinds I	at the #1 and #2 vent sys	stems						
			inspect and n	epeir automatic valves (i	PCV4748, V4749 & V4751) a	a necessary					
			Water blast w	ent piping from the vent	systems to the TO inlet						
			inspect and n	mair velocity section as	Recessory						
			loanect and n	and has ince and lass	lation						
			inenect and n	enlace the FRV as nece	teerv						
			Inspect clear	centers the firms care							
			Databa ID ésa	I, repaired the name action	of an electrony						
			e at und au 1981								
			MICRANIC - N			-					
			Date:		- HTR						
Ē			Electrician Na	ime:							
	y		Date:		Hrs:						

### **Finished Work Order** Identification: FWO116239 UDN-2203590 Date/Time Printed: 11/27/23 12:29:24 PM **Description:** TAR -Pages/Printed By: 1 KOPPERS\OTREMBIAKJW Address: **Priority: Routine** Requested: DMP100003 Date Created: 12/1/2022 Order Type: PM Supervisor: RALPH STORTO Date Started: 12/1/2022 Maint, Type: MECH Technician: Date Completed: 2/24/2023 Work Code: PM OSP: Elapsed Days: 86 Cap X: No Job No.: Actual Time: 3.00 Equipment ID: 50000003929 TAR THERMAL OXIDIZER (F-2301) F-2301 Location: 1760 Enterprise: Serial No.: Manufacturer: Region: USA Area: AREA001 Company ID: Facility: STICKNEY Line: LINE001 Referance: Vend, Inv: Cust. Inv: Estimated Unit of Actual Time Test Results Step Done Description Assigned Start Date End Date Меалиге Time 12/8/2022 1 True TAR T/O FAN JOHN DUPLANCICH 2/24/2023 1.00 1.00 Lube Required: Mobil SHC-100 Grease / TAR T/O Pan is Located South East of the Safety Shop Fan Side Brg Temp FAN. Pumps Added Coupl Side Brg Temp COUPL. Pumps Added \_\_\_\_ Olier Name: Hinc Date: TAR T/O FAN JOHN DUPLANCICH 12/13/2022 2/24/2023 0.00 1.00 True 2 Lube Required: Mobil SHC-100 Grease / TAR T/O Pan is Located South East of the Safety Shop Fan Side Brg Temp FAN. Pumps Added \_\_\_\_ Coupl Side Brg Temp COUPL Pumps Added Oller Name:\_\_\_\_ Date:\_\_ Hrs: JOHN DUPLANCICH 0.00 1.00 3 TAR T/O FAN 12/20/2022 2/24/2023 True Lube Required: Mobil SHC-180 Grease / TAR T/O Fan is Located South East of the Salety Shop Fan Side Brg Temp FAN. Pumps Added \_\_\_\_ Coupi Side Brg Temp COUPL. Pumps Added \_\_\_\_ Oiler Name: Date:\_\_\_\_\_Hrs:\_\_\_

. Identification:	FW0112	937 UDN-2200713			Date/T	ime Printed:	11/27/23 12	2:28:13 PM	
Description	Quarterly	TAR TO Fan Motor Lub F	PM (B-2301)		1	Pages/Printe	d By: 1 KO	PPERSVOTR	embiakjw
Address:									
Priority:			Requested: S	-PM-100308		D	ate Created:	3/15/2022	
Order Type:			Supervisor:			0	ate Started:	3/22/2022	
Maint. Type:			Technician:			Date	Completed:	6/6/2022	
Work Code:	PM		OSP:			Ek	ipsed Days:	77	
Cap X:	No		Job No.:			/	Actual Time:	0.00	
Equipment ID:	50000003	1934 TO Fan(B-2301) Moto	or 1800rpm 150 Hp 8-3	2301					
Location:	1760								
Serial No.:				Enterprise:					
Manufacturer:				Region:	USA		Агеа:		
Company ID:				Facility:	STICKNEY		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	Quarterly		3/22/2022	6/6/2022	0.00	0.00		
	Quarterly M	fotor Lubrication - TAR TO Fa	n (2301)						
	MATERIAL	REQUIRED: Precision Synthe	Nic EMB Grease						
		This is the original	greese Required						
	Equipment	Location: TAR TO Pan - Loca	ted South East of Salety	Shop					
	Lubricate E	ach Motor Bearing with 10 gre	ase gun pumps using						
	Precision S	ynthetic EMB Grease							
	Document t	the time spent on the Work On	dar below.						
	After the we	ek is completed return the Wk	ark Order to your						
	Supervisor.								
	SIGNATUR	E OF INDIVIDUAL COMPLET	ING WORK /	DATE COMPLE	TED				
	Print Name	of Persons Completing Work:							
	Hours per d	ay worked:							

Identification:	FWO113012	UDN-2201287				Date/Ti	me Printed:	11/27/23 12	:39:59 PM
Description:	MONTHLY -				P	ages/Printe	d By: 1 KOF	PPERS\OTR	EMBLAKJW
Address:									
Priority:	Routine		Requested: DM	P100003		Da	te Created:	5/23/2022	
Order Type:	PM		Supervisor: RA	LPH STORTO		D	ate Started:	5/23/2022	
Maint. Type:	MECH		Technician:			Date	Completed:	6/13/2022	
Work Code:	PM		OSP:			Ela	psed Days:	22	
Cap X:	No		Job No.:			A	ctual Time:	4.00	
Equipment ID:	5000003929	TAR THERMAL C	XIDIZER (F-2301) F-2301						
Location:	1760								
Serial No.:				Enterprise:					
Manufacturer:				Region: US	A		Area:		
Company ID:				Facility: ST	ICKNEY		Line:		
Reference:				Vend. Inv:			Cust. Inv:		
tep	Done	Description	Assigned	Start Date	End Date	Estimated Time	Actual Time	<b>Test Results</b>	Unit of Measure
	True	TAR T/O FAN	MIKE GRIFFIN	5/27/2022	5/27/2022	2.00	2.00		
	Lube Required:	Mobil SHC-100 Grea	ise / TAR T/O Fan is Located S	outh East of the Saf	ety Shop				
	Fan Side Brg T	етр							
	FAN. Pumpe A	ided							
	Coupl Side Brg	Temp							
	COUPL. Pump	s Added							
	Olier Name:								
	Date:		Hrs:						
	True	РМ	MIKE GRIFFIN	5/23/2022	5/23/2022	0.00	2.00		
	True	РМ		5/23/2022	6/13/2022	0.00	0.00		
	Description: Address: Priority: Order Type: Maint. Type: Work Code: Cap X: Equipment ID: Location: Serial No.: Manufacturer: Company ID: Reference: tep	Description: MONTHLY - Addrese: Priority: Routine Order Type: PM Maint. Type: MECH Work Code: PM Cap X: No Equipment ID: 50000003925 Location: 1760 Serial No.: Manufacturer: Company ID: Reference: tep Done True tep Done True Coupl Side Brg T FAN. Pumpe Au Coupl Side Brg T FAN. Pumpe Au Coupl Side Brg T Otier Name: Date: True True	Description: MONTHLY - Address: Priority: Routine Order Type: PM Maint. Type: MECH Work Code: PM Cap X: No Equipment ID: 50000003929 TAR THERMAL O Location: 1760 Serial No.: Manufacturer: Company ID: Reference: tep Done Description True TAR T/O FAN Lube Required: Mobil SHC-100 Great Fan Skie Brg Temp FAN. Pumpe Added Coupl Skie Brg Temp COUPL. Pumps Added Otier Name. Date: True PM True PM	Description: MONTHLY -         Address:         Priority: Routine       Requested: DM         Order Type: PM       Supervisor: RA         Maint. Type: MECH       Technician:         Work Code: PM       OSP:         Cap X: No       Job No.:         Equipment ID:       50000003929 TAR THERMAL OXIDIZER (F-2301) F-2301         Location:       1760         Serial No.:       Manufacturer:         Company ID:       Reference:         tep       Done       Description         Assigned       True       TAR T/O FAN         Mike GRIFFIN       Lube Required: Mobil SHC-100 Grease / TAR T/O Fan is Located S         Fan Skde Brg Temp	Description:       MONTHLY -         Address:       Priority:         Priority:       Routine         Requested:       DMP100003         Crder Type:       PM         Maint. Type:       MECH         Technician:       Work Code:         Work Code:       PM         OSP:       Cap X: No         Job No.:       Equipment ID:         Equipment ID:       50000003929 TAR THERMAL OXIDIZER (F-2301) F-2301         Location:       1760         Serial No.:       Enterprise:         Manufactures:       Region:       US         Company ID:       Facility:       ST         Reference:       Vand. Inv:       Start Date         True       TAR T/O FAN       MIKE GRIFFIN       5/27/2022         Lube Required: Mobil SHC-100 Grease / TAR T/O Fan is Located South East of the Saf       Fan Skde Brg Temp	Description: MONTHLY -       P         Address:       Priority: Routine       Requested: DMP100003         Order Type: PM       Supervisor: RALPH STORTO         Maint. Type: MECH       Technician:         Work Code: PM       OSP:         Cap X: No       Job No.:         Equipment ID: 5000003929 TAR THERMAL OXIDIZER (F-2301) F-2301       Location: 1760         Serial No.:       Enterprise:         Manufacturer:       Region: USA         Company ID:       Facility: STICKNEY         Reference:       Vend. Inv:         tep       Done       Description       Assigned       Start Data       End Date         True       TAR T/O FAN       MIKE GRIFFIN       5/27/2022       5/27/2022         Lube Required: Mobil SHC-100 Gresse / TAR T/O Fan is Located South East of the Safety Shop       Fan Skide Brg Temp	Description: MONTHLY - Pages/Printer Address:  Priority: Routine Requested: DMP100003 Dat Crider Type: PM Supervisor: RALPH STORTO D Maint. Type: MECH Technician: Data Work Code: PM OSP: Ela Cap X: No Job No.: A Equipment ID: 50000003329 TAR THERMAL OXIDIZER (F-2301) F-2301 Location: 1760 Serial No.: Enterprise: Manufracturer: Region: USA Company ID: Facility: STICKNEY Reference: Vand. Inv: tep Dane Description Assigned Start Date End Date End Date True TAR T/O FAN MIKE GRIFFIN 5/27/2022 5/27/2022 2.00 Lube Required: Mobil SHC-100 Gresse / TAR T/O Fan is Located South East of the Sefety Shop Fan Side Brg Temp COUPL. Pumps Added Coupl Side Brg Temp Date: Hrs: Date: Hrs: True PM MIKE GRIFFIN 5/23/2022 5/23/2022 0.00 True PM Side Start Date Start 2022 5/23/2022 0.00	Description: MONTHLY - Pages/Printed By: 1 KOF Address:  Priority: Routine Requested: DMP100003 Date Created: Order Type: PM Supervisor: RALPH STORTO Date Started: Maint. Type: MECH Technician: Date Complisied: Work Code: PM OSP: Elapsed Days: Cap X: No Job No.: Actual Time: Equipment ID: 5000003929 TAR THERMAL OXIDIZER (F-2301) F-2301 Location: 1760 Serial No.: Enterprise: Manufacturer: Region: USA Area: Company ID: Facility: STICKNEY Line: Reference: Vand. Inv: Cust. Inv: tep Done Description Assigned Start Date End Date End Date Time Actual Time True TAR T/O FAN MIKE GRIFFIN 5/27/2022 5/27/2022 2.00 2.00 Lube Required: Mobil SHC-100 Gresse / TAR T/O Fan is Located South East of the Safety Shop Fan Side Brg Temp	Description:         MONTHLY -         Pages/Printed By: 1 KOPPERSIOTRI           Address:

identification:	FWO11376	3 UDN-2201442				Date/T	Ime Printed:	11/27/23 12	2:38:42 PM
Description:	MONTHLY	-				Pages/Prints	d By: 1 KOI	PERSIOTR	ENBIAKJW
Address:							-		1000
Priority:	Routine		Requested:	DMP100003		D	ate Created:	6/1/2022	
Order Type:	PM		Supervisor:	RALPH STORTO	)	C	ate Started:	6/1/2022	
Maint. Type:	MECH		Technician:			Date	Completed:	8/9/2022	
Work Code:	PM		OSP:			Ek	epsed Days:	70	
Cap X:	No		Job No.:			1	Actual Time:	11.00	
Equipment ID:	500000392	9 TAR THERMAL	OXIDIZER (F-2301) F-23	301					
Location:	1760								
Serial No.:				Enterprise:					
Manufacturer:				Region:	USA		Area:		
Company (D:				Facility:	STICKNEY		Line:		
Reference:				Vend. Inv:			Cust. Inv:		
Step	Done	Description	Assigned	Start Date	End Date	Estimated	Actual Time	Test Results	Unit of
1	True	TAR T/O FAN	MIKE GRIFFIN	6/1/2022	6/1/2022	2.00	2.00		an range (prore age
	Lube Required	t Mobil SHC-100 Gn	nase / TAR T/O Fan Is Locate	d South East of the	Safety Shop				
	Fan Side Brg	Temp							
	FAN. Pumps /	Added							
	Coupl Side Br	Temp							
	COUPL. Pum	ps Added			_				
	Oller Name:								
	Date:		Hrs:						
2	Тгие	PM	MIKE GRIFFIN	7/1/2022	7/1/2022	1.00	1.00		
3	True	PM	MIKE GRIFFIN	6/15/2022	6/24/2022	2.00	2.00		
4	True	PM	MIKE GRIFFIN	7/20/2022	7/22/2022	2.00	5.00		
5	eurT	PM	MIKE GRIFFIN	7/28/2022	7/28/2022	1.00	1.00		
	Identification: Description: Address: Priority: Order Type: Maint. Type: Work Code: <u>Cap X:</u> Equipment ID: Location: Serial No.: Manufacturer: Company ID: Reference: Step 1	Identification:       FW011376         Description:       MONTHLY         Address:       Priority:         Priority:       Routine         Order Type:       PM         Maint. Type:       MECH         Work Code:       PM         Cap X:       No         Equipment ID:       5000000392         Location:       1760         Serial No.:       Manufacturer:         Company ID:       Reference:         Step       Done         1       True         Lube Required       Fen Side Brg         FAN. Pumps /       Coupt Side Brg         COUPL. Pum       Otter Name:	Identification:       FW0113763 UDN-2201442         Description:       MONTHLY -         Address:	Identification:       FW0113763 UDN-2201442         Description:       MONTHLY -         Address:       Priority:         Priority:       Routine       Requested:         Order Type:       PM       Supervisor:         Maint. Type:       MECH       Techniclan:         Work Code:       PM       OSP:         Cap X:       No       Job No.:         Equipment ID:       50000003929 TAR THERMAL OXIDIZER (F-2301) F-23         Location:       1760         Serial No.:       Manufacturer:         Company ID:       Reference:         Step       Done       Description         1       True       TAR T/O FAN         MIKE GRIFFIN       Lube Required: Mobil SHC-100 Grease / TAR T/O Fan Is Locate         Fen Side Brg Temp	Identification:       FW0113763 UDN-2201442         Description:       MONTHLY -         Address:       Priority:         Priority:       Routine         Requested:       DMP100003         Order Type:       PM         Maint. Type:       MECH         Work Code:       PM         OSP:       Cap X:         Cap X:       No         Job No.:       Equipment ID:         5000003929 TAR THERMAL OXIDIZER (F-2301) F-2301       Location:         Location:       1760         Serial No.:       Enterprise:         Manufacturer:       Region:         Company ID:       Facility:         Reference:       Vend. Inv:         Step       Done       Description         Assigned       Start Data         1       True       TAR T/O FAN         Mike GRIFFIN       6///2022         Fan Stde Brg Temp	Identification:       FW0113763 UDN-2201442         Description:       MONTHLY -         Address:       Priority:         Priority:       Rouline       Requested:       DMP100003         Order Type:       PM       Supervisor:       RALPH STORTO         Maint. Type:       MECH       Technician:       OS9:         Cap X:       No       Job No.:       Equipment ID:       50000003929 TAR THERMAL OXIDIZER (F-2301) F-2301         Location:       1760       Serial No.:       Enterprise:       Region:       USA         Company ID:       Facility:       STICKNEY       Region:       USA         Company ID:       Facility:       STICKNEY       Reference:       Vend. Inv:         Step       Done       Description       Assigned       Start Date       End Date         1       True       TAR T/O FAN       MIKE GRIFFIN       B//2022       6///2022         1       Usb Required: Mobil SHC-100 Greeses / TAR T/O Fan is Located South East of the Satety Shop       Fan Stob Bry Temp	Identification:     FW0113763 UDN-2201442     Date/T       Description:     MONTHLY -     Pagea/Printe       Address:     Priority:     Requested:     DMP100003     D       Order Type:     PM     Supervisor:     RALPH STORTO     D       Maint. Type:     MECH     Techniclan:     Date/T       Work Code:     PM     QSP:     Ets       Cap X:     No     Job No.:     ////////////////////////////////////	Identification:       FW0113763 UDN-2201442       Date/Time Printed:         Description:       MONTHLY -       Pages/Printed By: 1 KOI         Address:       Priority:       Rouline       Requested:       DMP100003       Date Created:         Order Type:       PM       Supervisor:       RALPH STORTO       Date Started:         Maint. Type:       MECH       Technician:       Date Completed:         Work Code:       PM       OSP:       Elapsed Days:	Identification:       FW0113763 UDN-2201442       Date/Time Printed: 11/27/23 1:         Description:       MONTHLY -       Pagear/Printed By: 1 KOPPERSIOTR         Address:       Pagear/Printed By: 1 KOPPERSIOTR         Printed::       100/11/20003       Date Created: 6/1/2022         Maint:       Type:       PM       Supervisor:       RALPH STORTO       Date Started: 6/1/2022         Maint:       Type:       PM       Supervisor:       RALPH STORTO       Date Started: 6/1/2022         Work Code:       PM       OSP:       Elepsed Days: 70       Actual Time: 11.00         Equipment ID:       50000003929 TAR THERMAL OXIDIZER (F-2301) F-2301       Location: 1760       Serial No.:       Area:         Step       Done       Description       Assigned       Start Date       Enterprise:         Manufacturer:       Reference:       Vend. Inv:       Cust. Inv:       Cust. Inv:         Step       Done       Description       Assigned       Start Date       Enterprise:       Area:         1       True       TAR T/O FAN       MIKE GRIFFIN       Sril/2022       6/1/2022       2.00       2.00         1       True       TAR T/O FAN       MIKE GRIFFIN       Sril/2022       6/1/2022       2.00       2.00 </td

Identification:	FWO114624	UDN-2201989				Date/Ti	me Printed:	11/27/23 12	:37:43 PM
Description:	MONTHLY -					Pages/Printer	d By: 1 KOP	PPERS\OTRI	ENBIAKJ
Address:									
Priority:	Routine		Requested: Di	VIP 100003		Da	te Created:	8/1/2022	
Order Type:	PM		Supervisor: R/	ALPH STORTO		D	ate Started:	8/1/2022	
Maint. Type:	MECH		Technician:			Date	Completed:	10/16/2022	
Work Code:	PM		OSP:			Ela	psed Days:	77	
Cap X:	No		Job No.:			A	ctual Time:	2.00	
Equipment ID:	5000003929	TAR THERMAL	OXIDIZER (F-2301) F-2301	<u>l</u>					
Location:	1760								
Serial No.:				Enterprise:					
Manufacturer:				Region: l	USA		Area:		
Company ID:				Facility: \$	STICKNEY		Line:		
Reference:				Vend. Inv:			Cust. Inv:		
Step	Done	Description	Assigned	Start Date	End Date	Estimated	Actual Time	Test Results	Unit of Measure
1	True	TAR T/O FAN	MIKE GRIFFIN	8/11/2022	8/11/2022	2 1.00	1.00		
	Lube Required: Mobil SHC-100 Greace / TAR T/O Fan is Located South Best of the Salety Shop								
	Fan Side Brg 1	Temp							
	FAN. Pumps A	dded							
	Coupl Side Br	g Temp							
	COUPL Pump	ps Added			-				
	Otler Name:								
	Date:		Hrs:						
2	True	PM	JOHN DUPLANCICH	9/2/2022	9/2/2022	2 0.50	0.50		

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

C

### 0= Vent lined up 0= Vent lined up to TO 0= Vent lined up to TO Date Date Date to TO 01-Aug-22 00:00:00 0 01-Jun-22 00:00:00 01-Jui-22 00:00:00 0 0 01-Jun-22 00:15:00 0 01-Jul-22 00:15:00 0 01-Aug-22 00:15:00 0 01-Aug-22 00:30:00 0 01-Jun-22 00:30:00 0 01-Jul-22 00:30:00 0 0 0 01-Aug-22 00:45:00 01-Jul-22 00:45:00 01-Jun-22 00:45:00 0 0 01-Aug-22 01:00:00 0 01-Jun-22 01:00:00 0 01-Jul-22 01:00:00 01-Aug-22 01:15:00 0 01-Jul-22 01:15:00 Ò 01-Jun-22 01:15:00 0 0 01-Aug-22 01:30:00 n 0 01-Jul-22 01:30:00 01-Jun-22 01:30:00 01-Aug-22 01:45:00 0 01-Jun-22 01:45:00 0.0 01-Jul-22 01:45:00 0 0 01-Aug-22 02:00:00 0 01-Jul-22 02:00:00 01-Jun-22 02:00:00 1 0 01-Jun-22 02:15:00 1 01-Jul-22 02:15:00 0 01-Aug-22 02:15:00 01-Aug-22 02:30:00 0 0 01-Jun-22 02:30:00 1 01-Jul-22 02:30:00 0 01-Aug-22 02:45:00 n 01-Jun-22 02:45:00 1 01-Jul-22 02:45:00 0 01-Aug-22 03:00:00 01-Jul-22 03:00:00 0 01-Jun-22 03:00:00 1 0 01-Jul-22 03:15:00 0 01-Aug-22 03:15:00 01-Jun-22 03:15:00 1 0 0 01-Aug-22 03:30:00 0.8 01-Jul-22 03:30:00 01-Jun-22 03:30:00 01-Aug-22 03:45:00 0 ۵ 01-Jun-22 03:45:00 0 01-Jul-22 03:45:00 0 01-Aug-22 04:00:00 01-Jun-22 04:00:00 0 01-Jul-22 04:00:00 C 01-Aug-22 04:15:00 0 0 01-Jul-22 04:15:00 0.0 01-Jun-22 04:15:00 0 0 01-Aug-22 04:30:00 01-Jul-22 04:30:00 01-Jun-22 04:30:00 0 01-Aug-22 04:45:00 0 0 01-Jun-22 04:45:00 0 01-Jul-22 04:45:00 0 01-Aug-22 05:00:00 0 01-Jun-22 05:00:00 0 01-Jul-22 05:00:00 01-Aug-22 05:15:00 0 0 01-Jul-22 05:15:00 0 01-Jun-22 05:15:00 01-Aug-22 05:30:00 0 D. 01-Jun-22 05:30:00 0 01-Jul-22 05:30:00 01-Aug-22 05:45:00 0 01-Jul-22 05:45:00 0 0 01-Jun-22 05:45:00 0 01-Aug-22 06:00:00 0 01-Jul-22 06:00:00 0 01-Jun-22 06:00:00 0 01-Aug-22 06:15:00 0 01-Jul-22 06:15:00 01-Jun-22 06:15:00 0 0 0 01-Aug-22 06:30:00 0 01-Jul-22 06:30:00 01-Jun-22 06:30:00 01-Aug-22 06:45:00 0 01-Jul-22 06:45:00 0 01-Jun-22 06:45:00 0 01-Aug-22 07:00:00 0 01-Jul-22 07:00:00 0 0 01-Jun-22 07:00:00 01-Aug-22 07:15:00 0 0 01-Jun-22 07:15:00 0 01-Jul-22 07:15:00 01-Aug-22 07:30:00 0 01-Jul-22 07:30:00 Û 01-Jun-22 07:30:00 0 0 0 01-Aug-22 07:45:00 0 01-Jul-22 07:45:00 01-lun-22 07:45:00 0 01-Aug-22 08:00:00 0 0 01-Jul-22 08:00:00 01-Jun-22 08:00:00 0.0 01-Aug-22 08:15:00 01-Jul-22 08:15:00 0 0 01-Jun-22 08:15:00 01-Aug-22 08:30:00 0 01-Jul-22 08:30:00 0 01-Jun-22 08:30:00 0 01-Aug-22 08:45:00 0 01-Jul-22 08:45:00 0 01-Jun-22 08:45:00 0 0 01-Aug-22 09:00:00 0 0 01-Jul-22 09:00:00 01-Jun-22 09:00:00 0 01-Aug-22 09:15:00 01-Jun-22 09:15:00 0 0 01-Jul-22 09:15:00 0 0 01-Aug-22 09:30:00 01-Jul-22 09:30:00 01-Jun-22 09:30:00 0 01-Aug-22 09:45:00 0 0 01-Jun-22 09:45:00 0 01-Jul-22 09:45:00 0 01-Aug-22 10:00:00 0 01-Jul-22 10:00:00 01-Jun-22 10:00:00 0 0 01-Jul-22 10:15:00 0 01-Aug-22 10:15:00 01-Jun-22 10:15:00 0.0 0 01-Aug-22 10:30:00 0 01-Jun-22 10:30:00 0 01-Jul-22 10:30:00 0 01-Aug-22 10:45:00 0 0 01-Jul-22 10:45:00 01-Jun-22 10:45:00 0 01-Aug-22 11:00:00 0 0 01-Jul-22 11:00:00 01-Jun-22 11:00:00 Ó 01-Aug-22 11:15:00 n 01-Jul-22 11:15:00 0 01-Jun-22 11:15:00 01-Aug-22 11:30:00 0 0.38 01-Jul-22 11:30:00 01-Jun-22 11:30:00 0 0 01-Aug-22 11:45:00 01-Jul-22 11:45:00 0 01-Jun-22 11:45:00 0 01-Aug-22 12:00:00 0 0 0 01-Jul-22 12:00:00 01-Jun-22 12:00:00 0 01-Aug-22 12:15:00 0 01-Jun-22 12:15:00 0 01-Jul-22 12:15:00 0 01-Aug-22 12:30:00 01-Jul-22 12:30:00 0 0 01-Jun-22 12:30:00 0 01-Aug-22 12:45:00 0 01-Jul-22 12:45:00 0.0 01-Jun-22 12:45:00 01-Aug-22 13:00:00 0 0 ñ 01-Jul-22 13:00:00 01-Jun-22 13:00:00 0 01-Aug-22 13:15:00 0 0 01-Jul-22 13:15:00 01-Jun-22 13:15:00 01-Aug-22 13:30:00 0 0 01-Jul-22 13:30:00 01-Jun-22 13:30:00 0 0 01-Jul-22 13:45:00 0 01-Aug-22 13:45:00 01-Jun-22 13:45:00 0 01-Aug-22 14:00:00 Ò 0 01-Jun-22 14:00:00 0 01-Jul-22 14:00:00 0 01-Aug 22 14:15:00 0 01-Jul-22 14:15:00 01-Jun-22 14:15:00 0 01-Aug-22 14:30:00 0 0 01-Jun-22 14:30:00 0 01-Jul-22 14:30:00 0 01-Aug-22 14:45:00 0 01-101-22 14:45:00 01-Jun-22 14:45:00 Ô. 01-Aug-22 15:00:00 0 01-Jul-22 15:00:00 0 01-Jun-22 15:00:00 0

### Records of monitoring of the closed vent system for the creosote blend tanks and associated thermal axidizer (sample data)

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

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

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: 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. Sotto 2

L. Seth Herring Plant Manager CMC NA

Copy:

Illinois EPA – Air Regional Field Office	USEPA, Region 5
Illinois Environmental Protection Agency	Air and Radiation Division
Division of Air Pollution Control	77 West Jackson Boulevard (A-18J)
9511 W. Harrison Street	Chicago, Illinois 60604-3507
Des Plaines, IL 60016	

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

0

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

# 8.6.1 Monitoring Reports

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.

Summary of Monitoring Results	Quarterly visual inspections were completed and no leaking components were detected.	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 C & D Trains never huilt	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 fimit except when PAA process was offline C & D Trains never bulk
Deviation	No	No	Ň	Ŷ	â
Requirement	Perform quarterly visual inspections of the affected stills to detect any leaking components which may need repair	The Permittee shall fuifili 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	Ter Plant distiliation stills	Naphthatene 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
Condition	7.4.8	7.6.8	7.7.88	7.7.8b	7.7.80

TRC

Koppers, Inc. Permit No. 96030134

Page 1 of 4

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

Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are During the reporting period there was There were 869 hours the CEMS unit affected equipment in accordance with 40 CFR 63 Subpart H which are coppers performs leak inspections of Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are failed to monitor the SO2 emissions and 26 of those hours the feed rate changed. CEMS unit downtime was suffur and was below 0.8 wt.%. This not considered a deviation because shows that SO2 emissions were not Summary of Monitoring Results the naphthalene was sampled for SO2 emissions were not exceeded. and 9<sup>th</sup> when the naphthelene feed rate was increased and the CEMS increased due to the loss of steam a 26-hour period on December 8th unit was down. The rate had to be reported under separate cover. reported under separate cover. reported under separate cover. supplied to entire plant. The daily sulfur percent in the naphthalene during these days which indicate sample was less than 0.8 wt.% C & D Trains never built exceeded. Deviation 8 ž ŝ å Continuous monitor and record SO2 with CEMS applicable leak inspection provisions as specified by 40 CFR 63.148 applicable leak inspection provisions as specified by 40 CFR 63.148. applicable leak inspection provisions The Permittee shall fulfill all the The Permittee shall fulfill all the The Permittee shall fulfill all the as specified by 40 CFR 63.148 Requirement Phthalic Anhydride Reactor Refined Phthalic Anhydride Storage Tanks Refined Phthalic Anhydride Vaporizer Bottoms Tank Intermediate Crude and Unit Description Storage Tanks Trains A, B, C, & D-Trains MF-311 & MS-303 PAA-SCT and PAA-RST MF-106 Unit **PAA Plant PAA Plant PAA Plant PAA Plant** Plant Permit Condition 7.7.8d 7.10.8 7.9.8 7.8.8

Koppers, Inc. Permit No. 96030134

Page 2 of 4

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

reporting period and no daily average TO temperatures were below limit except when PAA process was Koppers performs leak inspections of reporting period and no daily average Koppers performs leak inspections of with 40 CFR 63 Subpart H which are Koppers performs leak inspections of with 40 CFR 63 Subpart H which are Koppers performs leak inspections of affected equipment in accordance with 40 CFR 63 Subpart H which are affected equipment in accordance with 40 CFR 63 Subpart H which are reported under separate cover. reporting period and no daily average TO temperatures were below limit monitored and recorded during the **Summary of Monitoring Results** affacted equipment in accordance monitored and recorded during the affected equipment in accordance monitored and recorded during the TO temperatures were below limit Temperature was continuously Temperature was continuously except when PAA process was Temperature was continuously except when PAA process was reported under separate cover, reported under separate cover reported under separate cover C & D Trains never built C & D Trains never built C & D Trains never built Demolished offline offine offline Deviation ŝ ž £ ž ŝ 운 ŝ £ The Permittee shall fulfill all the applicable leak inspection provisions as specified by 40 CFR 63.148 applicable leak inspection provisions as specified by 40 CFR 63.148 applicable leak inspection provisions applicable leak inspection provisions as specified by 40 CFR 63.148 applicable teak inspection provisions applicable monitoring requirements monitoring device equipped with a Continuous monitor and record TO 40 CFR 63.114 - TO temperature applicable monitoring requirements 40 CFR 63.114 - TO temperature monitoring device equipped with a The Permittee shall fulfill all the as specified by 40 CFR 63.114. The Permittee shall fulfill all the as specified by 40 CFR 63.148 The Permittee shall fulfill all the as specified by 40 CFR 63.114. continuous recorder is required The Permittee shall fulfill all the The Permittee shall fulfill all the as specified by 40 CFR 63.148 The Permittee shall fulfill all the continuous recorder is required Requirement temperature Phthalic Anhydride Refining Phthalic Anhydride Refining Stickney Terminal O-Xylene Phthalic Anhydride Refining Refined Phthalic Anhydride Flaked Phthalic Anhydride Tank Wagon and Raikar Storage Remeit Tank Recovery Exhausters Phthalic Anhydride Recovery Exhausters Phthalic Anhydride Unit Description Loading tank PAA-R MS-414 PAA-R PAA-RE PAA-R PAA-RE PAA-L **OL-23** Ē **PAA Plant PAA Plant PAA Plant PAA Plant PAA Plant** PAA Plant PAA Plant Terminal Plant Permit Condition 7.11.8b 7.11.8c 7.14.8 7.20.8 7.21.8a 7.11.88 7.13.8 7.21.8b

Koppers, Inc. Permit No. 96030134

Page 3 of 4

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

e

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	C & D Trains never built
Devlation	No	
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

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

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: 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. Sotto 3

L. Seth Herring Plant Manager CMC NA

Copy:

Illinois EPA – Air Regional Field Office	USEPA, Region 5
Illinois Environmental Protection Agency	Air and Radiation Division
Division of Air Pollution Control	77 West Jackson Boulevard (A-18J)
9511 W. Harrison Street	Chicago, Illinois 60604-3507
Des Plaines, IL 60016	

Page 2

### **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.

1\_\_\_\_\_

Signature:

Name:

L. Seth Herring

**Official Title:** 

Plant Manager CMC NA

5/30/23

**Telephone No.:** 

708-556-9984

Date Signed:

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

E

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

# 8.6.1 Monitoring Reports

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 required monitoring results, as specified in the conditions of this permit, shall be submitted to the Air certified in accordance with Condition 9.9.

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 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 offine C & D Trains never built	Koppers performs laak 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 C & D Trains never built
Deviation	No	No	Ñ	Z	No
Requirement	Perform quarterly visual inspections of the affected stills to detect any teaking components which may need fepair	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 shell fulfil all the applicable leak inspection provisions as specified by 40 CFR 83.148.	Continuous monitor and record TO temperature.
Unit Description	Tar Plant distillation stills	Naphthalene and o-xylene storage tanks	Phthalic Anhydride Reactor Trains	Phthalic Anhydrida 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	7.7.8e	7.7.8b	7.7.8c

Page 1 of 3

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

0

Permit	Plant	Unit	Unit Description	Requirement	Devlation	Summary of Monitoring Results
7.7.8d	PAA Plant	A, B, C, & D-Trains	Phthalic Amhydride Reactor Trains	Continuous montiar and record SO2 with CEMS	64	During the reporting period there were no hours when the naphthalene feed rate was increased and the CEMS unit was down. The SO2 CEMS was unavallable 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. C & D Trains never built
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	No	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.	No	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	N	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 fulfili 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	Q	Temperature was continuously monitored and recorded during the reporting period and no daily average TO temperatures were below ilmit except when PAA process was offline C & D Trains never built
7.11.8b	PAA Plant	PAA-R	Phthalic Anhydride Refining	The Permittee shall fuifill all the applicable leak inspection provisions as specified by 40 CFR 63.148	9N N	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	°Z	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

Koppers, Inc. Permit No. 96030134

Page 2 of 3

TRC

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

e

C

-				r					
	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 offline 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 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
	Deviation	ν	Š	No	Ž		Ŷ	Q X	
	Requirement	The Permittee shall 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 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 tamperature monitoring device equipped with a continuous recorder is required	The Permittee shall fuffill all the applicable leak inspection provisions as specified by 40 CFR 63.148	Continuous monitar and record TO temperature	
	Unit Description	Flaked Prthalic Anhydride Storage Remeit Tank	Refined Phthalic Anhydride Tank Wagon and Railcar Loading	Stickney Terminal O-Xylene tank	Phthalic Anhydride	Recovery Exhausters	Phthailc Anhydride Recovery Exhausters	Phthalic Antrytride Recovery Exhausters	
	Unit	MS-414	PAA-L	OL-23		PAA-KE	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		7.21.68	7.21.8b	7.21.8c	

Koppers, Inc. Permit No. 96030134 Attachment I Naphthalene Sampling Sulfur Analysis Response to Violation Notice A-2023-00162 Koppers Inc.

C

Sunui Sampleing	or Naphulaiene r	cou and roce rates	Banng CEnio Don		
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

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

C

0

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

0



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). 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

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. Soth 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

MON MACT Cover Letter July thru Dec 2022

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:	Sett	9)-	*	
Name:				
L	Seth Herring			
Official Title:				
	Plant Manager	CMC NA		
Telephone No.	s 1			
	708-556-9984	ŀ		
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( $\Theta$ )(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 ( $\Theta$ )(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.

 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-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.

### 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

0

C

C

Descriptions of MCPUs and Associated CMS Reporting Period: July 01, 2022 through December 31, 2022 [40 CFR 63.2520(e)(5)(iii)(G), (H), (I) & (J)]

C

Q

C

Last on or (J)			2
Date of 1 Certificati Audit (	N/A	V/N	12/6/20:
d Parameter (I)	None	None	udizer temperature
Monitore			Thermal o
ssociated CMS (I)	None	None	Pitch thermal oxidizer
×	uene, lyrene, bls, d rbons	ine, in and rbons	rbons
HAP (G)	benzene, xylenes, tol naphthalene, phenol, s ethylbenzene, cress quinoline, bipheny dibenzofuran and polyaromatic hydrosa (PAHs)	naphthalene, quinol biphenyl, dibenzofura polyaromatic hydroca (PAHs).	naphthalene and polyaromatic hydroca (PAHs)
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 sealer 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 prich and coal tar prich are blended together to produce Type A Carbon Pitch. The vents are routed to the prich thermal oxidizer for control.
MCPU	Crude Tar Distrilation	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)]

0

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

	70 c			<u> </u>			Ì	
6-Month	Expected Duration (hours)							
aance For Next Period <sup>2</sup>	Planned Frequency							
Planned Mainten	Description of Maintenance Event							
	Duration (hours)							
ce Event <sup>1</sup>	Time Of Day Event was Concluded							
of Maintenand	Date Event Concluded	ired			:			
Duration	Start Time	ntrols are requ						
	Date							
	Description of Maintenance Event	MON storage tanks and						
	Tank Identification	here are no Group 1						
	MCPU	Not applicable - TI						

NOTES:

Provide this information as required at §63.998(d)(2)(ii).
 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 <sup>1</sup>	
MCPU	Flare Unit Identification	Date	Start Time	End Time	Duration (hours)
Not applica	ble - The flare has	been removed from s	ervice		
-					

### NOTES:

0

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

C

 $\sim$ 

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	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)		e during reporting p									
	List MCPU Where Deviation Occurred		Non									

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<sup>1</sup> 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)]:

If and CCMA Erond I int	<ul> <li>A moust solve solve solve solve solve solve solve solve solves and solves solves</li></ul>	Yes												
Deviation	Total Deviation De as % of Total Do MCPU Du Operating Time Event in this Reporting Event	0.08%	0.10%	0.19%	0.22%	0.07%	0.09%	0.05%	0.80%	0.80%				
Summary of L	Total Deviation Period (hours)	3,50	4.50	8.50	9.75	3.00	3.75	2.25	35.25	35.25				
Deviation <sup>3 4</sup>	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	ime	f the total operating time:	ating time.	al operating time	crating time:	time;
Duration of	Start (mm/dd/yy hh.mm.ss)	17-Jul-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 t	otal duration as a percent of	s a percent of the total oper	ration as a percent of the tot	as a percent of the total ope	ercent of the total operating
	Date of Deviation	July 17, 2022	August 4, 2022	August 11, 2022	August 13, 2022	August 29, 2022	October 7, 2022	October 27, 2022	id 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 CMS downtime as a p
	Identification of Control Device (if applicable)	Pitch TO	due to SSM events an	due to Control Equipr	ue to Process Problen	due to Other Known (	due to Unknown Caus	time and total duration						
	List MCPU or Storage Vessel Where Deviation Occurrd <sup>2</sup>	Pitch	Total duration of Deviations	Total duration of Deviations	Total duration of Deviation d	Total duration of Deviations	Total duration of Deviations	Total duration of CMS down						

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)(ii)(B)).

2) See Table 5 for description of each MCPU and associated CMS.

For CMS deviation, duration does not include times for zero (low-level) and high-level checks(40 CFR 63.2520(e)(5)(iii)(A).
 The duration 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

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

0

0

 $\bigcirc$ 

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

Records of Daily 365-Day Rolling Summation Attached? <sup>1</sup>	(Yes/No)			
ons For Non-Standard Batch (lbs HAP/Batch)	Controlled	to determine group status		
Estimated Emissi	Uncontrolled	000 lb/yr is not used t		
Was each Batch a Standard Batch?	(yes/no)	le - HAP usage <10,0		
MCPU Where Exceedance of Usage	Threshold Occurred	Not applicable		

**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: July 01, 2022 through December 31, 2022

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

NOTES:

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)]<sup>1</sup> Reporting Period: July 01, 2022 through December 31, 2022

0

C

Required Calculations and Engineering Analyses Performed? (yes/no)			
Were Operating Conditions of Control/Treatment Exceeded During Reporting Period? (yes/no)		IOD	
Operating Scenario		NONE DURING THE REPORTING PER	
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: July 01, 2022 through December 31, 2022	
TABLE 8: Summary of Heat Exchange System Leaks with Delayed Repair [40 CFR 63.104]	Reporting Period: July 01, 2022 through December 31, 2022	

		_	 _	 	 į,
Date of Repair	Confirmation				
Date of Repair	Completion				
Date of First	Repair Attempt				
Expected Date of Repair	(attach a schedule)				
Estimated Emissions	due to Delay <sup>1</sup>				
Reasons for Delay of Repair	(attach documentation)		Not Applicable		
Date Leak	Detected				
Leaking Heat	Exchanger ID				
MCBI	INICEO				

## 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 repair. (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.

# 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

				Duration of Maintenance or Other Action <sup>2</sup>			
MCPU	Start Time	End Time	Duration (hours)		1	1	Duration
				Date	Start Time	End Time	(hours)
Type A Carbon Bitch	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	10-7109-22 10:40:00	19.400-22.08:45:00	1.50				
Type A Carbon Pitch	07.0+22.09.45.00	07.04.22.12:45:00	2.00				
Type A Carbon Fitch	27 Oct 22 09:40:00	27 Oct 22 12:45:00	1.75				
Carl Tes Distillation	01 101 22 11:21-00	04 Jul 22 11:45:00	0.09				
Coal Tar Distillation	01-30-22 11.21.00	01-Jul-22 11:20:00	0.00				
Coal Tar Distillation	01-Jul-22 17.15.00	01-Jul-22 17.36.00	0.33				
Coal Tar Distillation	01-Jul-22 18:15:00	01-Jul-22 18:31:00	0.27				
Coal Tar Distillation	02-Jul-22 05:06:00	02-JUI-22 05:11:00	0.08				
Coal Tar Distillation	05-Jul-22 11:17:00	05-Jul-22 11:20:00	0.05	Į			
Coal Tar Disbilation	05-Jul-22 11:20:00	05-JUI-22 13:28:00	0.13				
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	1			
Coal Tar Distillation	21-Jul-22 14:39:00	21-Jul-22 14:48:00	0.15	ļ.			
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	1			
Coal Tar Distillation	27-Jul-22 13:28:00	27-Jul-22 13:35:00	0.12				
Coal Ter Distillation	27-Jul-22 15:15:00	27-Jul-22 15 28:00	0.22				
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	30-101-22 00:46:00	0.13				
Coal Tar Distillation	30-10-22 06:11:00	30-10-22 07:06:00	0.92				
Coal Tar Distillation	03-400-22 07:07:00	03_4//22_07:28:00	0.35				
Coal Tat Distillation	03-Aug-22.01-23:00	03-402-22 07:28:00	1 38				
Coal Tax Distillation	04-Aug-22.01:42:00	04-649-22 01:51:00	0.15				
Coal Tar Distillation	04 Aug 22 01 42 00	04 Aug 22 02:01:00	0.17				
Coal Tar Distillation	04 Aug 22 14 52:00	04-Aug-22 15:12:00	0.17				
Coal Tai Distillation	04-Aug-22 14:55:00	05 Aug 22 22:01:00	0.33				
Coal far Distillation	05-Aug-22 22:55:00	00 Aug 22 23 21.00	0.45				
Coal Tar Distillation	09-A0g-22 14:04:00	09-Aug-22 14:19:00	0.23				
Coal Tar Distillation	10-Aug-22 03 19:00	10-A0g-22 03:32:00	0.22				
Coal Tar Distillation	11-Aug-22 13 39:00	11-Aug-22 14:57:00	1.20				
Coal far 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	1			
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	1			
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	1			
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	01-Sep-22 13:31:00	01-Sep-22 13:45:00	0.23				
Coal Tar Distillation	02-Sep-22 08:41:00	02-Sep-22 08:44:00	0.05				
Coal Tar Distillation	03-Sep-22 11:13:00	03-Sep-22 11:26:00	0.22	1			

0

6
				Duratic		nce or Othe	Action <sup>2</sup>
MCPU	Start Time	Frd Time	Duration (hours)	L7(L) all(	AI OI IVIAIIItela		Duration
Inter o	Statt Tunt	CIRC 1 HING	Daddon (moals)	Date	Start Time	End Time	(hours)
		00 0 - 00 05 00 00	1.22	Date	otatt 1140	Lang Think	(10013)
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 far Distillation	11-Sep-22 23 48 00	11-Sep-22 23:51:00	0,05				
Coal far 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				
Coal Tar Distillation	26-Sep-22 12:52:00	26-Sep-22 13:10:00	0.30				
Coal Tar Distillation	26-Sep-22 13;12:00	26-Sep-22 13:44:00	0.53				
Coal Tar Distillation	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	Į.			
Coal Tar Distillation	05-Oct-22 15:34:00	05-Oct-22 15 38:00	0.07	1			
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	0,08				
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	06-Oct-22 06:58:00	0.10				
Coal Tar Distillation	06-Oct-22 07:07:00	06-Oct-22 07:10:00	0.05				
Coal Tar Distillation	06-Oct-22 10:42:00	06-Oct-22 10:46:00	0.07				
Coal Tar Distillation	06-Oct-22 12:53:00	06-Oct-22 12:57:00	0.07				
Coal Tar Distillation	06-Oct-22 13:11:00	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	06-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 Tat 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			·	
Coal Tar Distillation	07-Oct-22 01:08:00	07-Oct-22 01:11:00	0.05		Not Ap	plicable	
Coal Tar Distillation	07-Oct-22 01:45:00	07-Oct-22 01:49:00	0.07				
Coal Tar Distillation	07-Oct-22 02:35:00	07-Oct-22 02:39:00	0.07				
Coal Tar Distillation	07-Oct-22 03:30:00	07-Oct-22 03:34:00	0.07				
Coal Tar Distillation	07-Oct-22 00:00:00	07-Oct-22 04:16:00	0.07				
Coal Tar Distillation	07-001-22 04-20-00	07-Oct-22 04-32-00	0.05	1			
Coal Tar Distillation	07-0ct-22 04:20:00	07-04-22 05-48-00	0.05				
Coal Tar Distillation	07-00-22 00:41:00	07-04-22 05-45-00	0.07	ł.			
Coal Tar Distillation	07-00-22 00.91.00	07-06-22 09:43:00	0.05	l l			
Coal Tar Distillation	07-00-22 00.71.00	07-00-22 00.14.00	0.05				
Coal Tar Distillation	07-04-22 00.21.00	07-00-22 08-50-00	0.07	1			
Coal Tar Distillation	07-00-22 00.40.00	07-0ct-22 00.00.00	0.07				
Coal Tax Distillation	07-04-22 00-50-00	07-00-22 00.07.00	0.05				
Coal Tar Distillation	07-00-22 09.39.00	07-00/22 10.02.00	0.07	1			
Coal Tar Distillation	07-06-22 10.14.00	07-04-22 10.10.00	0.07				
Coal Tar Distillation	07.001-22.10.00.00	07-00-22 11:00:00	0.07				
Coal Tar Distillation	07-06-22 11:32:00	07-00-22 11.30.00	0.07	1			
Coal Tar Distillation	07-00-22 15:02:00	07-00-22 15:00:00	0.03				
Coal Tar Distillation	07-001-22 15:45:00	07-006-22 10:49:00	0.07				
Coar Tar Distillation	07-00-22 15:59:00	07 04 00 47 40:00	0.07				
Coal Tar Distillation	07-00-22 17:39:00	07-00-22 17:42:00	0.03				
Coal Tar Distillation	11-Oct-22 02:00:00	11-00-22 02:06:00	0.10				
Coal Tar Distillation	11-00-22 03:42:00	11-00-22 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	12-00-22 14:17:00	0.12				
Coal Tar Distillation	12-Oct-22 16:16:00	1 12-Oct-22 16:21:00	80.0	1			
Coal Tar Distillation	17-Oct-22 15:00:00	17-Oct-22 15:30:00	0.50	1			
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	1			
Coal Tar Distillation	18-Oct-22 13:39:00	18-Oct-22 14:57:00	1.30	ł			
Coal Tar Distillation	19-Oct-22 12:02:00	19-Oct-22 12:52:00	0.83	I			

				Duratio	n of Maintenan	ce or Other	Action <sup>2</sup>
MCBI	Start Time	End Time	Duration (hours)		T	r	Duration
MCFU	Start Tulle			Date	Start Time	End Time	(hours)
	40.0+00.42-19-00	10.04.22 14:09:00	0.85				
Coal Tar Distillation	19-Oct-22 13:18:00	19-0:1-22 20:05:00	013				
Coal Tar Distillation	19-00-22 19:57:00	19-00122 20:00:00	0.08				
Coal Tar Distillation	19-06-22 21.40.00	20-Oct-22 03:17:00	0.15				
Coal Tar Distillation	20-06-22 03.08.00	21-0ct-22 13:24:00	0.28				
Coal 1ar Distillation	21-00-22 13:07:00	21-Oct-22 13:58:00	0.30				1
Coal Tar Distillation	21-00-22 13:40:00	21-Oct-22 17:49:00	0.10	ļ			
Coal Tar Distillation	21-06-22 17:43.00	21-Oct-22 18:07:00	0.08				
Coal Tar Distillation	21-00-22 10:02:00	21-Oct-22 18:44:00	0.08				
Coal Tar Distillation	21-00-22 10:35:00	21-Oct-22 19:41:00	0,08				
Coal far Distillation	22-00-22 13:00:00	22-Oct-22 13:05:00	0.08				
Coal Tar Distillation	22-00-22 10:00:00	26-Oct-22 19:17:00	0.12				
Coal Tar Distillation	28-0ct-22 22:48:00	28-Oct-22 23:47:00	0.98				
Coal Tar Distillation	28-Oct-22 23:55:00	29-Oct-22 00:01:00	0.10				
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	I			
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	0,12				
Coal Tar Distillation	30-Oct-22 13:14:00	30-Oct-22 13:22:00	0.13				
Coal Tar Distillation	30-Oct-22 18:45:00	30-Oct-22 18:54:00	0.15	1			
Coal Tar Distillation	30-Oct-22 20:12:00	30-Oct-22 21:04:00	0.87	1			
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	4			
Coal Tar Distillation	03-Nov-22 20:22:00	03-Nov-22 20:28:00	0,10	4			
Coal Tar Distillation	04-Nov-22 11:58:00	04-Nov-22 12:05:00	0.12	4			
Coal Tar Distillation	04-Nov-22 12:24:00	04-Nov-22 12:29:00	0.08	4			
Coal Tar Distillation	04-Nov-22 13:40:00	04-Nov-22 13:45:00	0.08	4			
Coal Tar Distillation	04-Nov-22 14:13:00	04-Nov-22 14:19:00	0.10	4			
Coal Tar Distillation	04-Nov-22 14:40:00	04-Nov-22 14:49:00	0.15	4			
Coal Tar Distillation	04-Nov-22 15:04:00	04-Nov-22 15:15:00	0.18	4			
Coal Tar Distillation	04-Nov-22 15:37:00	04-Nov-22 15:43:00	0.10	4			
Coal Tar Distillation	04-Nov-22 16:18:00	04-Nov-22 16:25:00	0.12	4			
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	4			
Coal Tar Distillation	08-Nov-22 13:33:00	08-Nov-22 13:53:00	0.33	-			
Coal Tar Distillation	08-Nov-22 17:42:00	08-Nov-22 18:33:00	0.85	-			
Coal Tar Distillation	09-Nov-22 08:38:00	09-Nov-22 08:42:00	0.07	4			
Coal Tar Distillation	25-Nov-22 19:50:00	25-Nov-22 21:05:00	1.25	-			
Coal Tar Distillation	26-Nov-22 03:45:00	26-Nov-22 04:25:00	0.67	4			
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	1.25	-			
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-N0V-22 18:42:00	0.40	-			
Coal Tar Distillation	26-Nov-22 21:33:00	20-NUV-22 21:00:00	0.50	1			
Coal Tar Distillation	28-Nov-22 05:04:00	20-NOV-22 U3.U9 UU	0.55	-			
Coal Tar Distillation	06-Dec-22 09:54:00	07 Dec-22 09:25:00	0.35	1			
Coal Tar Distillation	07-Dec-22 08:14:00	07-060-22 06.35.00	1 23	-1			
Coal Tar Distillation	07-Dec-22 20:14:00	07.0ec.22.21.20.00	0.03	-			
Coal Tar Distillation	07-Dec-22 21:38:00	07-000-22 21.40.00	0.05	1			
Coal Tar Distillation	07-Dec-22 22:20:00	07-Dec-22 23:56:00	0.57				
Coal Iar Distillation	00 Dec.22 20.52:00	09-Dec-22 01:31:00	0.63	1			
Coal 1ar Distillation	09 Dec-22 02:40:00	09-Dec-22 03:00:00	0.18	1			
Coal Tar Distillation	10-00-22 02.400	11-Dec-22 00:02:00	0.47	1			
Coal Tar Distillation	15-Dec-22 05-28-00	15-Dec-22 05:36:00	0.17				
Coal Tar Distillation	15-Dec-22 03:20:00	15-Dec-22 08:15:00	0.82				
Coal Tar Disultation	15-Dec-22 11:20:00	15-Dec-22 11:44:00	0.25				
Coal Ter Distillation	15-Dec-22 14:45:00	15-Dec-22 15:15:00	0.50				
Cost 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	0.12				
Coal Tar Distillation	15-Dec-22 22:46:00	15-Dec-22 22:52:00	0.10				
Coal Tar Distillation	16-Dec-22 11:21:00	16-Dec-22 11:31:00	0.17	_			
Coal Ter 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	_			
Coal Tar Distillation	17-Dec-22 17:05:00	17-Dec-22 17:42:00	0.62				
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 Distillation	22-Dec-22 18:43:00	22-Dec-22 20:31:00	1.80	-			
Coal Tar Distillation	22-Dec-22 18:43:00	22-Dec-22 20:31:00	1.80	_			
Coal Tar Distillation	22-Dec-22 21:35:00	22-Dec-22 21:49:00	0.23	_			
Coal Tar Distillation	23-Dec-22 15:01:00	23-Dec-22 15:06:00	0.08				

2/28/2023

( )

6

0

				Duration	of Maintena	ince or Othe	r Action <sup>2</sup>
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:

0

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-sealed 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

			Plan Followed?	Plan Not Followed? <sup>2</sup>
MCPU	Event Date	Description of Malfunction	(Y/N) <sup>1</sup>	Description of Actions Taken
Type A Pitch	July 17, 2022	Flame failure caused by broken shifter in air damper	Y	
Type A Pitch	August 4, 2022	Flame failure	Y	
		· · · · · · · · · · · · · · · · · · ·		
Type A Pitch			N	Operator was not aware Type A Pitch should
	August 11, 2022	Fume System #5 Vent Tank High Level		not be produced when Pitch TO is down
Type A Pitch	August 13, 2022	Fume System #5 Vent Tank High Level	Y	
Type A Pitch	August 19, 2022	Flame failure due to purging tanks	Y	
Type A Pitch	August 29, 2022	Dirty flame eye	Ŷ	
Type A Pitch	October 7, 2022	Flame faiture	Y	
Type A Pitch	October 27, 2022	Fume inlet low	Y	
Coal Tar Distillation	July 1, 2022	Touble booting for your and processor, both ourses failure	Υ	
Coal Tar Distillation	July 1, 2022	Troobidshooding tal vacualiti pressore - bour paritys raikare	Y	
Coul Tes Distillation		Shutting unit 1 down to circulate due to failure of both tar	v	
Coal Tar Disultation	July 1, 2022	vacuum pumps	E	
		Flame Failure - Disruptions to system caused by loss of		
Coal Tar Distillation		feed - dry tar flow rate adjusted up and then down over an	Y	
	July 2, 2022	hour leading up to disruption		
Coal Tar Distillation	July 5, 2022		Y	
Coal Tar Distillation	July 5, 2022	Troublshooting vacuum in #2 tar column - steam outs	Y	
Coal Tar Distillation	July 5, 2022		Υ	
Coal Tar Distillation	July 6, 2022	Troublshooting vacuum in #2 tar column - steam outs	Y	
Coal Tar Distillation	July 7, 2022	Tou debada - anu a mia 42 ta anuar - ana a da	<u> </u>	
Coal Tar Distillation	July 7, 2022	Froubishooding vacuum as we tail column = steam outs	Y	
Coal Tar Distillation	July 7, 2022	Troublshooting vacuum in #2 tar column - steam outs	Y	
Cool Tes Direit-ri-		Unit 1 waste gas to #2 fume system; unit was brought	v	
	July 9, 2022	online very briefly and then shut back down	1	
Coal Tar Distillation	July 9, 2022	Unit 1 waste gas to #2 fume system, unit was brought	Y	
Coal Tar Distillation	July 10, 2022	online very briefly and then shut back down	Y	
Coal Tar Distillation	July 12, 2022	Unit #2 Waste gas to #2 fume system	Y	
Coal Tar Distillation	July 12, 2022	Flame failure control room q switch issues	Y	
Coal Tar Distillation	July 12, 2022		Y	
Coal Tar Distillation	July 15, 2022	- Unit #2 waste gas to #2 tume system	Y	
		Steamed out vacuum pumps; had to shut down due to	Y	
Coal Tar Distillation	July 17, 2022	pitch TO outage time limit		
		Swtiched reboiler pumps - dureseal was leaking from the	Y	
Coal Tar Disbilation	July 19, 2022	line		]
Coal Tar Distillation	July 19, 2022	Unit #2 Waste gas to #2 fume system: changing reboiler	Y	1
Coal Tar Distillation	July 21, 2022	oumos	Y	
Coal Tar Distillation	July 21, 2022	Unit #2 Waste gas to #2 fume system:	Y	
		Init #2 waste gas to #2 fume system leak on tar South	Ŷ	
Coal Tar Distillation	July 24, 2022	Vacuum oumo		
Coal Tar Distillation	July 24, 2022	Unit #2 waste gas to #2 fume system: leak on tar South	Y	
Coal Tar Distillation	July 26, 2022	vacuum aumo	Y	
Coal Ter Distillation	luky 26, 2022	Reboiler 1 tripped out	v v	
Con fa Distillation	July 20, 2022	Linkading an RCO Raicar into T650 everyhelmed the TO:		
Coal Tar Distillation	luly 27, 2022	both units were feeding PMG to the tubeheaters		
Coal Ter Distillation	July 27, 2022	Linkaring an RCO Reject into T650 overwhelmed the TO	Ý	
Coal Tar Distillation	hdy 27, 2022	both units were feering PMG to the tubeheaters	y v	
Coal Ter Distillation	http://www.action.com	Rebailer 1 tripped out	v	
Coal Tar Distillation	hily 27, 2022	Reboiler 1 tripped out	Y	
Coal Tar Distillation	1 July 20, 2022		v	
Coal Tax Distillation	10h 20 2022	- Unit #2 PWG to Fume #2	Y	
Cold Tar L/Isuffation	July 28, 2022	The K/O Det level was blob @ 71% on 3/-110 and 3/-210		
		This counter up to washings on as hoth high-batters. The Tar		1
Coal Ter Distillation		This causes us to waste gas of this We wate shie to get		
COM THE DISTINATION		the KIO Date drained the waste car back on and the Ter		1
1	lub/ 30, 2022	T O performed without bound to circulate the units		
	July 30, 2022	DMC Velas showing closed liggue competed and	v	
Coal Tar Distillation	New 30, 2022	tubehestor restarted	'	
	309 00, 2022	Linit 2 was down: unit 1 was feading to the hubehaster	×	
1		I get the Ter TO early in the shift due to low arros on #2	l '	
Coal Tar Distillation		used nume. Supported cause over heated nume, reset		
	Auroust 3, 2022	litself Linit 2 PWG to Fume #2		
Coal Tax Distillation	August J 2022	I get feet to upit 1	· v	
Coal Tai Disultation	August 4, 2022	Used touching quiteling from T4 to T200 from the entropy feed	y	
Culture Distillation		Had trouble switching from 11 to 1200 from the corner feed	'	
Coal Lar Distillation		pump. They were able to get feed after purging toward		
	August 4, 2022	1200 on the pamp succent sale for 5-10 minutes,		
Coal Tar Distillation	August 4, 2022	Unit disruptions after switching and then losing feed,	Υ	
Coal Tar Distillation	August 5, 2022	Loss of feed caused disruption in unit	Y	
Coal Tar Distillation	August 9, 2022	Loss of feed caused disruption in unit	μ Υ	
Coal Tar Distillation	~	Unit 2 PWG to Fume #2 - process leak on reboiler pump	Y T	
	August 10, 2022	suction side - brought unit down for repairs	[	
Coal Tar Distillation	August 11, 2022	Vent 2 bypassed	γ .	
Coal Tar Distillation	August 11, 2022	Vent 1 & 2 flow bypassed	Y	
Coal Tar Distillation	August 12, 2022	Vent 2 bypassed	Y	
Coal Tar Distillation	August 12, 2022	Vent 2 bypessed	Y	
		power blip caused computer screens to blink off in TAR	Y	
Coal Tar Distillation		control room everything continued running except for TAR		
	August 14, 2022	ITO	1	

6

C

			Plan Followed?	Plan Nat Rollawad <sup>92</sup>
MCPU	Event Date	Description of Malfunction	atest	Description of Actions Taken
			(17/N)"	Description of Actions I shen
Coal Tar Distillation	August 21, 2022	Mark Olympical	Y	
Coal Tar Distillation	August 25, 2022	vern z cypassed	Y	
Coal Tar Distillation	Sentember 1 2022	Feed leques	v	
Coal Tax Distillation	Contember 2, 2022		· · · · · ·	
		No tubeheater shutdown iog comment		
Coal 1 ar Distillation	September 3, 2022		Y	
Coal Tar Distillation	September 6, 2022	Feed issues	Y	
Coal Tar Distillation	September 11, 2022	Shut off reboiler without bringing vacuum above 700 mmHg	Υ.	
Coal Tar Distillation	September 13, 2022	during shut down of unit 1	Y	
		Brining units online after utility outage: While starting up	Y	[
		Upit 1, can into feed issues, operator bad shut off		
Coal Tay Distillation		tubebester to maintain levels in the column vacuum		
Coal rai Disultanon		summariant and off while feed issues were being		
	0	puttips were shut bu, where reeu issues were being		
	September 14, 2022	resolved, SSM torowed.	<u> </u>	
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	
0.17 0.20		Unit 2 brought down to circulation - tubeheater shut off	Y	
Coal 1 ar Distillation	September 23, 2022	before bringing vacuum above 700 mmHg		
		Unit 2 being brought back up - feed not started yet, full	Y	
Coal Tar Distillation	Sentember 24, 2022	vacuum not achieved vet		
Coal Tay Distillation	Sentember 24, 2022	TO was metarted to repair a controls issue. No hypes of	v	
Coal Tar Distillation	Contembor 29, 2022	to was restarted to repair a controle issue, no cypass of	· ·	
Coal Lar Distillation	September 20, 2022			
Coal Tar Distillation		w/2 tar column went empty due to PTF valve leaking	Y Y	
	September 26, 2022	through - lead to low flow in reboiler line		
Cost Tay Distillation		Unit 1 - welded cap leaking on South reboiler pump	Y	
	September 26, 2022	suction, switched pumps		L
		Unit 1 - 1N reboiler pump was smoking. Reboiler tripped	Y	
Coal Tar Distillation		out during the changeover process. Vaccuum was not		
	October 1 2022	taken off the unit.		
Coal Tax Distillation	October 18, 2022	I aw level in the ter column due to leakage from nitch to	v	
Coar Far Dispitabili	00000110,2022	Low level in the tar column due to leakage from pitch to	· · · ·	
Coal Tar Distillation	Ontobar 18, 2022	Low level in the tall country due to reakage norm promo-	'	
	Uctober 16, 2022	mash que to leeking through		
Coal Ter Distillation		Low level in the tar column due to leakage from pitch to	I Y	
Con the Distribution	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	Ý	
Coal Tar Distillation	October 19, 2022	Feed issues	Y	
2.50		Water in instrument air causing process control issues	Y	
Coal Tar Distillation	October 19, 2022	Light 1 was brought down to circulate	·	
Cool Tax Distillation	Ontobor 10, 2022		v	
Coal Tar Distillation	00008119,2022	Feed issues		
Coal Tar Distillation	October 19, 2022		1	
Coal Tar Distillation		Low level in the tar column due to leakage from prich to	Ŷ	
	October 20, 2022	flash due to leaking through		
Coal Tax Distillation		Low level in the tar column due to leakage from pitch to	Y	
Coar rai Distrintion	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	Y	
Coal Tar Distillation	October 21, 2022	flash due to leaking through	Y	
		Low level in the tar column due to leakage from pitch to	Y	
Coal Tar Distillation	October 21, 2022	flash due to leading through	l .	
	00000121,2022	Low load in the for column due to leakage from otch to	v	
Coal Tar Distillation	0.000	Cow level in the calcount one to reakage norm promov	'	
	OCIODEI 21, 2022	mesh due to rearing through		
Coal Tar Distillation	October 21, 2022	Shut on repoiler without oringing vacuum above 700 mining		
Coal Tar Distillation	October 22, 2022	during shut down of unit 1	Υ	
Copl Ter Distillation		Low level in the tar column due to leakage from pitch to	I Y	1
	October 26, 2022	flash due to leaking through		
		Low level in the tar column due to leakage from pitch to	Y	
Coal Lar 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	Y	
Coal Ter Distillation	October 29, 2022	flash due to leaking through	Y	
		I aw level in the ter column due to leakans from ortals to	· · · · · · · · · · · · · · · · · · ·	t
Coal Tar Distillation	Ontentes 20, 0000	Each due to leading through	1 '	
	00000129,2022	Incars work to restrict a second at the basis and the second s		
Coal Tar Distillation	0.111.00	Low ever in the ter column due to leakage from prich to	1 1	
	October 29, 2022	mash due to lealong through		
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	<u> </u>	
Cost Tre Distilled		Low level in the tar column due to leakage from pitch to	Y	
Coal I ar L/ISEITABON	October 30, 2022	flash due to leaking through		
a (a = 36)		Low level in the tar column due to leakage from pitch to	Y	
Coal Tar Distillation	October 30, 2022	flash due to leaking through		
Cost Tar Distillation	October 30, 2022	Low level in the tar column due to leakage from pitch to	Y	
Coal Tar Distillation	October 30, 2022	fiash due to leaking through	·····	1
		I mutant in the for extreme due to lastrane ferm slight to		1
Coal Tar Distillation	Mayambar 9, 9999	Low reversit use tai countri ude to reakage nom pitch to	1 '	
	14046triber 3, 2022	I mulaunt in the fer advance for to be leaders from all the		+
Coal Tar Distillation	Marcola a ana	Low even in the tail column due to leakage from prich to	1	
	November 3, 2022	Inash due to leaking through		
Coal Tar Distillation	November 3, 2022	Low level in the tar column due to leakage from pitch to	Y	
Coal Tar Distillation	November 4, 2022	flash due to leaking through	Y	
0-17-01-01-1		Water in the feed, pressure build up due to obstruction in	Y Y	
COB IN DISUILISON	November 4, 2022	waste line	L	
	<u>_</u>	Water in the feed, pressure build up due to obstruction in	Y	
Coal Tar Disbiliation	November 4, 2022	waste line		
Coal Ter Distillation	November 4, 2022	Water in the feed, pressure build up due to obstantion in	V V	
Coal Tas Natiliatas	Novomber 4, 2002	weeto lino		
		1.000	<u> </u>	1

C

6

0

			Plan Followed?	Plan Not Followed? <sup>2</sup>
MCPU	Event Date	Description of Malfunction	(Y/N) <sup>1</sup>	Description of Actions Taken
Coal Tar Distillation	November 4, 2022	Water in the feed, pressure build up due to obstruction in waste line	Ŷ	
Coal Tar Distillation	November 4, 2022	Water in the feed, pressure build up due to obstruction in weste line	Y	
Coal Ter Distillation	November 4, 2022	Water in the feed, pressure build up due to obstruction in	Y	
Coal Ter Distillation	November 4, 2022	waste line	Y	
Coal Tar Distillation	November 8, 2022	food in the	Y	
Coal Tar Distillation	November 8, 2022		Y	
Coal Tar Distillation	November 25, 2022	fame eye not reading, causing it to go out multiple times	Y	
Coal Tar Distillation	November 25, 2022	forme ever not reacting, causion it to op out multiple times	Y	
Coal Tar Distillation	November 26, 2022	That to also that reading, counting it to go out intercent	Y	
Coal Tar Distillation	November 26, 2022	fiame 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	Y	
Coal Tar Distillation	November 26, 2022	-Itame eve not reading, causing it to go out multiple times	Y	
Coal Tar Distillation	November 26, 2022		Y	
Coal Tar Distillation	November 26, 2022	flame eye not reading, causing it to go out multiple times	<u> </u>	
Coal Tar Distillation	1	Pitch to flash leak and incoming feed issue led to low now	l ' 1	
	November 28, 2022	In the column and eventually hipped the tube heater	V V	· · · · · · · · · · · · · · · · · · ·
Coal Tar Distillation	November 30, 2022	Both of circulation pumps on sclubber were beo	y y	
Coal Tar Distillation	D	Excessive scale buildup on both brits causing the builth to name	! '	
	Uecember 6, 2022	TO readings up to estable, the values wate closed for	- v	<u> </u>
Coal Tar Distillation	December 7, 2022	to leadings were enrol, the values were closed for		
	Lacamber 7, 2022	90 on the TO was not tunned in correctly, it reacted too	Y	
Coal Tar Distillation	December 9, 2022	cancillative to any fluctuation		
	December 8, 2022	PID on the TO was not tunned in correctly, it reacted too	Y	
Coal Tar Distillation	December 9, 2022	sensitively to any fluctuation	1	
	Document of Ever	Shut off rebolier without bringing vacuum above 700 mmHg	Y	
Coal Tar Distillation	December 10, 2022	during shut down of unit 1		
(M 13	000011001 (0, 2000	Issues with the actuator valve not working properly after	Y	
Coal Tar Distillation	December 15, 2022	switching out the vaccum pump		
	1	Issues with the actuator valve not working properly after	Y	
Coal Tar Distillation	December 15, 2022	switching out the vaccum pump		
a ta at at a		Unit 1 brought down to circulation - tubeheater shut off before	Y	
Coal Tar Distillation	December 15, 2022	bringing vacuum above 700 mmHg		
Coal Tar Distillation	December 15, 2022	Reboiler 1 tripped out	Y	
Coal Tar Distillation	December 15, 2022	Reboiler 1 tripped out	Y	
G-d Tee Distillation		vacuum pump leaks and incoming feed issue led to low flow in	Y I	
COR 18 Displayion	December 16, 2022	the column and eventually tripped the tube heater		
Cost Ter Distillation		vacuum pump leaks and incoming feed issue led to low how in	I T	
Cuar Tai Distituation	December 18, 2022	the column and eventually tripped the tube heater	<del> </del>	
Coal Tar Distillation		vacuum pump leaks and incoming feed issue led to low flow in	1	
	December 17, 2022	the column and eventually tripped the tube heater		
Cost Tar Distillation		vacuum pump leaks and incoming reed issue led to low now in	'	
	December 17, 2022	the column and eventually tripped the tube reater		
Coal Tar Distillation	December 18, 2022	Waste gas valve was having issues with now		
Coal Tar Distillation	December 21, 2022	Loss of feed causeo disruption in unic		
Coal Tar Distillation	December 22, 2022	Fire was lost due to extreme cold weather	Y	
Coal Tar Distillation	December 22, 2022	Fire was lost due to extreme cold weather	Y	
Uoal Tar Disbilation	December 23, 2022	vaccum issues in both units and incoming feed issues	Y	l
Coal Ter Distillation	December 23, 2022	vacuum issues in both units and incoming feed issues	Y	
Coal Tar Distillation	December 23, 2022	vaccum issues in both units and incoming feed issues	Υ	
L'UEI 1 EI L'ISUIIEUVII		unit 2 vaccum issue and incoming feed issue led to low flow in	Y	
Coal Tar Distillation	December 24, 2022	the column and eventually tripped the tube heater		
	a second second second second			

C

0

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)].

O

ATTACHMENT 3 - LDAR INFORMATION

C

0

 $\mathbb{C}^{n}$ 

		_	_	_	_	_
Quality Improvement Program initalted for Pumps? (yes/no)	N/A	N/A	N/A	NA	N/A	N/A
Monthly Monitoring of Valves Initiated? (yes/no)	N/A, No LL Valves	<b>NA</b>	AN	AN	NA	NA
No. of Instances Utilizing Delay of Repair	0	N/A	0	0	0	0
No. of Leaking Components Determined to be Nonrepairable	0	N/A	0	0	0	0
No. of Leaking Components Not Repaired	0	N/A	0	0	0	0
Percent of Leaking Components	0.0%	N/A	0.0%	0.0%	0.0%	0.0%
No. of Components Monitored <sup>2</sup>	8	0	282	12	4	4
No. of Leaking Components Detected	0	A/A	0	0	0	0
No. of Components Subject to Requirements	116	0	307*	13*	4	9
Equipment Type	Valves in Gas/Vapor & LL Service	Pumos in LL Service	Connectors in Gas/Vapor & LL Service	Aditators in Gas/Vapor & LL Service	Compressors	Pressure Release Devices Gas/Vapor Service

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

0

Č

0

NOTES:

Represents counts as of the end of the report period. Excludes heavy liquid 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.

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

0

C



Via UPS Overnight Mail

August 30, 2023

0

Koppers Inc. Carbon Materials and Chemicals 3900 South Laramie Avenue Cicero, IL 60804-4523 Tel 708 222-3483 Fax 708 656 607 9 www.koppers.com

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 Device

Table 2: Flare Pilot Flame/Flare Flame Summary

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

MON MACT Cover Letter H1 2023.doc

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,

1. Sitt 24 1

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

MON MACT Cover Letter H1 2023.doc

### Certification by a Responsible Official:

0

0

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: 1 South 2
Name:
L. Seth Herring
Official Title:
Plant Manager CMC NA
Telephone No.:
708-556-9984
Date Signed: 8/30/23

### **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)(li)(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).
  - 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 (lv).
  - (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)(i)(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)(ii)(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 ionger 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-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** 

C

C

(

Descriptions of MCPUs and Associated CMS Reporting Period: January 01, 2023 through June 30, 2023 [40 CFR 63.2520(e)(5)(iii)(G). (H), (I) & (J)]

0

C

MCPU	MCPU Description (H)	HAP (G)	Associated CMS (I)	Monitored Parameter (I)	Date of Last Certification or Audit (J)
Crude Tar Distiliation	The Crude Tar Distillation process comains of raw ande 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.	benzétek, xylenek, kolaetek, arghthateze, phenol, styrene, ethytherazes, cresois, quinoline, bipbenyi, dibenzofuran and polyaromatic hythocerbous	Naue	None	NA
Modified Pavement Scaler Base (MPSB)	The Modified Pavezueri Sealer Base (MPSB) process is a batch operation consisting of four blending banks. Patrolerum iss and pavement acaker base are blended togruther to produce MPSB. The venta do not require control under the MON, Kuppers currently controls three of the four tanks with the existing Tar thermal oxidizer and tube beaters (F-101 and F-201).	naphthalcne, quinollne, biphenyl, dibenzoftvran and polyaromatic hydrocarbons [PAHa],	Noae	None	NIA
Type A Carbon Pitch Production	The Type A Carbon Pitch process is a batch operation consisting of five blending tanks. Pervoleurn pitch and coal at pitch are blended together to produce Type A Carbon Pitch. The vents are routed to the ritch thermal oxidizer for control.	naphfhalens and polyaromatic bydrocarbons (PAHa).	Pitch thermal oxidizer	Thermal oxidizer temperature	12/6/2022

+

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

0

C

Î

( ) )

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

Planned Maintenance For Next 6-Month Period <sup>2</sup>	Description of Planned Expected Maintenance Frequency (hours)					
ce Event <sup>1</sup>	Time Of Day Event was Concluded					
of Maintenanc	Date Event Concluded	uired				
Duration	Duration o	putrols are req				
	Date	therefore no co				
	Description of Maintenance Event	MON storage tanks and				
	nere are no Group I					
	MCPU	Not applicable - I'				

NOTES:

Provide this information as required at §63.998(d)(2)(ii).
 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 I	Deviation	
MCPU	Flare Unit Identification	Date	Start Time	End Time	Duration (hours)
Not applica	ble - The flare has	been removed from s	service		

### NOTES:

(

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

8/30/2023

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)]:

	n Taken?							
	Corrective Action							
	Cause of Deviation?							
Deviation?	Finish (mm/dd/yy hh:mm:ss)							
Duration of	Start (mm/dd/yy hh:mm:ss)							
	Deviation Occurred During SSM Event? (yes/no)							
	MON Compliance Value?							
	Date of Deviation <sup>1</sup>	criod						
Total Operating	Time Of MCPU During this Reporting Period (hours, minutes)	e during reporting t						
	Utilities MCFO Where Deviation Occurred	Non						

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<sup>1</sup> 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)(ii)];

THE REAL FROM	not as M by each of these at a to of these at good of these at a to of these eviation. Control upment problem (CEP); Process blem (PP); Other Known Cause (UC) or Unknown Cause (UC)							
-	Deviation Deviation Occurred During SSM (Oi (Oi						-	
Deviation	Total Deviation as % of Total MCPU Operating Time in this Reporting Period (%)		0.00%	0.00%				
Summary of L	Total Deviation Period (hours)		0.00	0.00				
eviation <sup>3, 4</sup>	Finish (mm/dd/yy hh:mm:ss)		time:	of the total operating	crating time:	otal operating time:	oun uper autric uues. persting time:	g time:
Duration of I	Start (mm/dd/yy hh:mm:ss)		rcent of the total operating	total duration as a percent	total duration as a percent ( as a percent of the total ope ration as a percent of the to as a percent of the total of			
	Date of Deviation		d the total duration as a pe	ment Problems (CEP) and	ns (PP) and total duration :	Causes (OKC) and total du	ses (UC) and total duration	n of CMS downtime as a p
	Identification of Control Device (if applicable)	g period	lue to SSM events an tue to Control Equip ie to Process Problec	due to Other Known	ue to Other Known ( ue to Unknown Caus	time and total duratio		
	List MCPU or Storage Vessel Where Deviation Occurrd <sup>2</sup>	No Deviation during reporting	Total duration of Deviations o	Total duration of Deviations d	Total duration of Deviation di	Total duration of Deviations of	Total duration of Deviations c	Total duration of CMS downt

NOTES:

1) Reporting requirements of 63.10(c)(8) for continuous emission manitoring systems (CEMS) are not required for CMS under the MON (40CFR 63.2520(e)(5)(ii)(B).

See Table 5 for description of each MCPU and associated CMS.

 For CMS deviation, duration does not include times for zero (low-level) and high-level checks(40 CFR 63.2520(e)(5)(ii)(A).
 The duration for 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

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

C

C

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

	Attached?			
Records of Daily	Summanon.			
ons For Non-Standard Batch (lbs	Controlled	to determine group status		
Estimated Emissic	Uncontrolled	000 lb/yr is not used t		
Was each Batch a	(yes/no)	le - HAP usage <10,0		
MCPU Where	Threshold Occurred	Not applicabl		

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

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

### NOTES:

C

(

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)]<sup>1</sup> Reporting Period: January 01, 2023 through June 30, 2023

0

0

	 T		-
Required Calculations and Engineering Analyses Performed? (yes/no)			
Were Operating Conditions of Control/Treatment Exceeded During Reporting Period? (yes/no)		DOL	
Operating Scenario		NONE DURING THE REPORTING PER	
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.

- 18	_	_	_	-			and the second
	Date of Repair	Confirmation					
	Date of Repair	Completion					
	Date of First	Repair Attempt					
	Expected Date of Repair	(attach a schedule)					
	Estimated Emissions	due to Delay					
	Reasons for Delay of Repair	(attach documentation)			Not Applicable		
	Date Leak	Detected					
	Leaking Heat	Exchanger ID					
	MCPL	O IOTAI					

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:

(c)(2) If a shutdown is not expected within the next 2 months, the owner or operator may delay repair as provided in paragraph (c)(2)(i) or (c)(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.
TABLE 9: Vent Stream Dypase Summery For Closed Vent Systems [40 CPR 63.999(c)(2)(ii) and (iii)] Reporting Period: January 01, 2023 through June 30, 2023

C

C

1000	Street These	P-4.75-	Develop	Doration of Maintenance or Other Action <sup>3</sup>
	40. here 100 6 44 9 100		(1999)	(and starting the starting of the starting through through the starting
The A Dates Fich	20-36-62 12-620	20-Jun 20 15126100	15	
1 yrs A Cathon Flick	27-40-23 1004:00	20-601-22 10:00:00	10	
A Coloration	20-10-23 16:10:00	20-Jan-23 18:11:00	60	
	20-Jan-23 10:12:00	20-30-21 16:13:00		
THEY A Curton Plat	01-May-23 08 15:00	01-Mar 23 09 56 00	67	
Dec A Orden tilsh	01-Mar-23 15:24:90	01-Mar-23 17:14:00	2.0	
Type & Carlya Pitch	13-446-73 11-01-00	13-Mar 23 10:37:00		
Dary A United Pitch	25-May -23 07-27-00	23-10-23 01-14-00	21	
<u>1yer A Carlyo Pich</u> Days A Carlyon Pilch	03-Mar-23 (1-51.00	27-Mm-23 19:02:00 02-Mm-23 15 04:00	12	
Type A Carbon Files	03-Men-23 1108:00	03-May-23 18-19:00	5.2	
Drive A Carbon Prick	03-Mey-23 16:82:00	03-May-23 17 21:00		
Direc & Darbert Plan	GB-Mary 23 (49,25:00)	08-May-23 18.03:00	96	
1 nrx A Carlon Flich	00-An-23 00:56:00	05-Au-23 06:17:00	1.4	
Cont Jay Disting	03-380-23 68:03:00	02_len-23 08-20:00	61	
Coal Ter D addeting	03-Jan 22 (2-47-00	03-Jun-23 09.18.90	0.5	
Coll Try Distancing	6.1.55 2.27.00	01-1-22230700	9.0	
Cost Tar Distiliation	10-Jen-23 18-18-00	10-10-23 18 35/00	20	
Cost for Distilution	10-Jan-23 19:54:00	10-Jan-23 21:07:00	1	
Coal Tar Delitation	10-10-23 1864.00	10-Jan-23 21,07,00		
Coll Ter Distriction	17-Jan-23 12-41 00	17-300-23 12-16.00		
Cool for Distillation	17-Jun-23 18:00:00	17-40-23 1523:00	83	
Call (or Distriction	17-Jun-23 10:34:00	17-Jun 23 1839.00	91	
Coal Tax Desilerton	18-Jan-23 07 07:00	14-Jun 23 07-19-00	0.5	
Cost Tar Distilution	18-Jan-23 11:51:00 1	10-10-23 11:55:00	- 94	
Carl Ter Distingen	10-Jan 23 17:30:00	16-Jan-23 17-10:00	<u> </u>	
Coel Ter Distillation	20-Jan-22 07 52:00	20-Jac-23 08:00:00	0.2	
Ceal Tax Displators	20-Jan 23 15-23:00	20-40-23 15.3500	52	
Con Tyr Depletion	23-140-23 05:53:00	23-36-23 05:58:00	<u>84</u>	
Coal Tax Distibution	23-Jan-23 00:11:00	23-Jan 23 07-1500		
Cost Ter Distillation	23-Jan-23 08:01:00	23-Jan 23 08:57:00	<u>11</u> 69	
Cent Tax Direft direc	22-Jan 23 09.01.00	23-Jan 23 08 57.00		
Coll In Distance	23-Jan-23 11:40:00 24-Jan-23 01:43:00	24-Je=23 0149:00		
Ceal (as Uptilaring	24-340-273 (0113.00)	24-Jun-22.03-19-00	0.1	
Cost for Data Indust	24-Jun-23 07-14:00	24-Jan-23 01 01 03 24-Jan-23 11:07:00		
Con Tar Distillation	23-Jan 03 13-37-00	25-10-22 13.98.00	<u></u>	
Coal Inc Distillation	25-Jan-23 22-1900	25-30-23 22 10:00 25-30-23 22 10:00		
Coll for Platheine	The state of the state	25-Jun 23 23 (5:0)		
Cost Tar Distillation	27-Jan-23 09:02:00 27-Jan-23 09:02:00	27-Jan-23 09.11:00		
Cost The DisaNation	TC. 10 10 2500	27-401-21 10.24.00	6.9	
Cost for Distilution	31-00-24 03-6600			
Coal Tax Disting	31-Jun-23 15-68:00	31-Jan-23 15:55:00	10	
Crel Tar Distiliation	01-Feb-23 18:44:00	31-Jan-23 1519:00	- 01	
Crel Ter Distribution	01-20-21-22-1200	01-Feb-23 13,08,00	0.2	
Coel Ter Distilution	01-Feb-23 18:52:00 02:Feb-23 14:04:00	01-Feb-23 17/25:00		
Cost for Distilution	07-Feb-23 14:54:00	0-5-6-73 15:15:00		
Cost Tar Distillation	02-Feb-21 13-34:00 02-Feb-23 17:01:00	02-Feb-23 16:59:00	18	
Cost The Distillation	03-1-0-23-13-28-00	03-FH>23 13.42:00		
Cost for Distiliation	07-146-23 08-3300	07-Feb-23 0507:00 07-Feb-23 11 52:00	- 24	
Cost fac Distillation	N/A	All A	449	
Coal for Distillation	N/A 1		<u>– א/A</u>	
Und Ter Distillation	NA	NA.	NA	
Coll for DetBatter	09-540-22 11:39:00	09-Feb-22 11:42:00	81	
Coul für Distilition	02-140-23 1150:00	09-Feb-23 12:07:00	0.2	
Cost The Desiliption Cost The Distillation	NA NA	HA	N/A	
Cool Tet Distillation	08-Feb-23 12:45-00	09-Fab-231321200	93	
Cost Ter Detilistion	09-4-0-23 12-16-00	08-Fab-23 13 18:00	00	
Coal Tax Disclising	08-Feb-20-18-30-00	09-Feb-23 34:12:00	82	
Cost For Distribution	12-7-0-73 17:19:00	12-Fab-23 17:27:00	<u>e1</u>	
Cost Ter DistRition	13-7-0-23 12-24:00	13-Feb-23 12:31:00	<u>61</u>	
Oct I Distance	12-0-19-100	14-Feb-23-08-42-00	01	
Cost for Distillation	18-6-00-23-08-17.00	10-100-23 09//200		
Coal far Distilation	18-Feb-23 19-37-00	10-Feb-23 194300	<u>01</u>	
Cost Ter Distingtion	17-20-20 04-2200	12-546-22 04:18:00	81	
Cost Tar District	17-Pag-21 20-77-00	17-Feb-20 2041:00	10	
Coal far DiviBeing	22-Feb-23 02 08.00	22-F46-23 62 70,00	02	
Coal for Distillation	23-Feb-23 12:58:00	23-F40-23 1823:00	24	
Cost for Distinction	23-Fab-23 18-21.00	25-Feb-23 19,55.00	16	
Cred The Distillation	05-A-1-2 100-M6100	05-May 23 (90/1100	1.0	
Cost for Distingon	07-Mar. 22, 12-17-00	07-Mm-22 17:52:00	0.3	
Cool for Distiliation	08-Mar-23 22-5300	66 June 22 23:13:09	<u></u>	
Coal Tec Distriction	08-24-22 2010/00	08-Mar-22 23.36.00	91	
Col The Overheim	B. P. PAKAMO	10-444-20 20-10:00		
Cost Tay Distingtion	10-448-20 22:54:00	11-Mar - 210001500	01	
Coal Far Distriction	12112541155500	12-1400-22 15:00:00	94	
Coal Ter Decilition	13-Mar-23 09-90-00	13-Mar-21 09-2500		
Coal Ter Divertieten	11-1-11-11-11-11-11-11-11-11-11-11-11-1	24 23 15 45 60	0.2	
Cost Pur Distingtion	13-Mar-23 15:48:00 2	13-Mar 23 10-51:00		
Cool In: Discliction	20-101-22 02-16:00	20-1408-23100-27-00		
Con Ter Detillatory	20-Mar.42 14-12:00	20-Mar-22 16 28:00	63	
CARL FOR FOR FORMER	I THE REPORT OF	B1 100 PA. TO V	لي عند	

600/2020

MORU	Stort Time	End Time	Deration	Dender of Multisenses or Other Artice <sup>2</sup>
Cost Tor Distilution	22-600-23 16-10:00	22-440-22 15:58-00	6.3	
Casi Tar Distillation Casi Yar Distillation	27-Mar-23 02:30:00	27-May 23 (RAS 00 27-May 23 20:33:00	13	
Coal Tax Distillation	27-Mar-23 18-M800	27-Mar-23 20 33 00	LA	1
Cost To: Perfision	27-Mar-23 20:34:00	20-Mar-21 00:05:00 20-Mar-21 02:10:00	14	
Cost Ter Distince	28-Mar 23 02:18:00	23-Mar-23 (22-70-02	13	
Coal for Distillation	20-00-20 14:25:00	25-Min-23 14:32.00 25-Min-23 15:02:00	81	
Cost Tar Distillation	21-Mar-23 98:+120	21-Mile 22 08:47:20	0.1	
Casel Dir Dischetere.	0-Apr-22.22-08-00	03-Adv23 22-14:00	80	
Cost for Dischales.	03-Act-23 23:28:00	23-Aur-27 22:39:00	8.3	
Cost for Dividence	04-Apr-23 17:50:00	04-Apr-23 17:59:50	81	
Coal The Discillation	08-Apr-23 00:17:00	10 Apr 21 00:32:00		
Cost Der DiegTiston	07-Apr-23 02 23 00 1	07-Ad+23 02.27:50	11	Not Applicable
Coal In Disting	08-Act+23 07:30:09	08-Act-23 07:38:00	<u>81</u>	
Cost 11 Sublishing	13-401-23 18:54:00	13-Agr-23 17:50:00	0.0	
Cost Ter Similation	16-Apr-20 0028-00	16-Apr-2100-3130		
Grail Ter Destillation	16-Apr-23 (2-18-0)	A A A A A A A A A A A A A A A A A A A	90	
Coal De Disciliation	16-App-23 13:17:00	16-Apr-23 13:85:00		
Coni Tw Disting	18-Apr-23 22:38:00	14-Apr-25 23:38:00	.10	
Coel I'v Distiliation	17-40-23 17:37:00	174-20718	10	
Coal Tar Distillation	17-40-30 08:18.00	17-Apr-29-06-19-00	8.2	
Cost I'm Mesilation	11-10-23 00-32:00	13-Apr-25-08:41:00	51	
Coal for Disclining	27-401-27 10:27:00	27-Apr 23 18, 19:00	6.4	
Cusi Te Disfletten	27-40-20 58-23-00	27-Apr 28 19-38,00	81	
Coal Ter Distiliation	24-447-22 09-22-00	20-Au-20-0020-00	9.1	
Cost /sc Disdleting	21-40-2022/20	20-Am-20-20-40 AP	6.2	
Cost The Distillation	39-Apr-22 10-24-00	20-A01-23 19:38:50	0.2	
Cost Top Diretter-	(14 Her 23 07 2100	02-thry-30 08-32-09	11	
Cost The Datifiction	62-14-17-03 10-17-00	12 Hore 20 18 50:00	9.5	
Call Dr. Dietarion	63-64m-21 00:29.00	03-Har-23 08:41.00	Q	
Cost 2c Distriction	044/ww-23 15:06.00	Q4-May 23 15 19:00	0.0	
Citel Ter Dividence	06-48+-23 14:5200	05-449-23 16 03.00	0.1	
Cred The Disalitation	1%-May-23 13:01.00	Cite-Adapt 23 12 (0.50)	0.1	
Cost Dr. Division	12-14-12 22 22 20 20	10-10-22 22:47:20	82	
Cost Tay Distingen	124474-23 22:20:00	12-447-23-23,31/30	61	
Cree The Deschetion	11-4409-23 1130600	13-Hey-23 12:34:00	86	
Cost Tre Distriction	15-444+2312-3000	15-467-23 12 38:00	6.1	
Cont Jar Uturlistico	18-44+-25 08:52:00	19-44m-23 06:01:00	<u></u>	
Coal for Discharges	18-May-23 T3:8200	18-500 23 14:12:00	. 62	
Cold Ter Distribution	19-Mar-23-08-17/00	15-Mey-23 08:42:00	84	
Cost Ter Distlicture	Contraction of the	18-Mm-23 14-15:00	14	
Cred for Obrillaine	19-Mar 21 12:39:09	19-489-22 16-15:00	12	
Coal far Dissilation	18-May 33 13:39:09	19-449-23 14:46:00		
Coal Ter Deallation	18-14y-23 13-1600	10-140-21 14:45:00	11	
Cost Ter Deallistine	21-4km-23 18-2500	21-May 23 18,30,00		
Cost In Detletion	21-1407-21 22:1600	21-Mily 23 22-28:99	0.0	
Cred Dar Disclitation	23-May-23 08:67:00	73-May-23 10:30.90	1.5	
Cost The Desilition	23-May-23 16:39:00 23-May-23 21 09:08	25.Mile-23.21:18:05	42	
Cost Ter Dicitizios	21-May 23 14:12:00	21-140-23 14:25:00	9.4	
Cost Ter Defibilies	21-447-22 (200-00)	27-May 23 93 31 30 29-May 23 12 20:00	- 14	
Cost Dr. Distillation	21-May 23 12:33:09	20 Mar 23 13:95:00	83	
Cost Ter Dedition	28-Ader-20 17:47.00	26-May 23 17:54:00 26-May 23 19:03:00	11	
Cost Ter DestRetion	28-4my-27 18-82-00	28-May 23 19,08:00		
Cold The Disclosion Cond The Disclosion	20-Mer-33 19:00:08	30-May 20 185200	60	
Cost Dr Distiliation	01-Jan-23 08.37.00	01-340-33 00:42:00	- AL	
Coal Ter Deutlichen	01-An-23 (0.47.00 02-An-23 (1.18:00	01-Le-23 06:51:00 02-ke-23 01:27:00	81	
Coal Tar Distillation	Di-Jan-23 08 29:00	04-An-23 97 27:00	19	
Cod Tar Distillation Unit Tar Distillation	05-Ap-23 14:38:00	95-An-23 17:06:00	01	
Coal Tay Discritization	00-Am-23 07-13:00	96-An-23 97-18:00		
Cost for Depilerion	05-Ap-23 14 20:00	06-An-23 14:5250 06-An-23 14:56:00		
Coal Tar Dissibution	00-101-22 18,44:20	06-1-7-23 15:53:00	0.1	
Cost for Distingtion	00-M0-22 16:52:00	92-Ap-20 17:06.50	9.2	
Conf. fer Distiliation	04-41-23 20-43:00	95-An-21 20:48:00	41	
Cost for Desthilter	13-30-22 06:21:00	13-An-23 05:5300	6.3	
Cost Tar Dimilititien	13-Jun-23 09:38:00	3-he 2 684600	0.1	
Cost Ter Distillation	13-Ar-22 10:01:00	13-A0-21 11 24:00	63	
Crel Da Unitariano	12-Ar-22 18:39:00	12-20-22 44300		
Coal /or Disclistion	13-30-23 21-02-00	13-40-23 21 05:00	80	
Casi (nr Uterslerico	\$3-Am-22 21:08:00	12-2022-1100	00	
Cost for Distiliation	14-3/1-23 08-34 00	14-Anzi 65:30:30 14-An-23 08-41 00	0.1	
Cost for Distillation	14-An-23 00:47:00	14-Jun-23 (98:52:50)	0.1	
Cost Dr. Distiliation	14-Ap-23 16:34:90	14-M-23 18-8209		
Cost for plastinger	14-Aun-23 21:58:00	14-Jan 23 2212:00	0.3	
Coal for Distillation	10-An-23 08:51:00	15-Jun-23 98:46:00	01	
Cost De Distinctes	15-An-22-08-48:00	15-Jun 23 085449 18-Jun 23 11 55:00	01	
Cost for Distillation	15-An-23 12:07:00	15-140-23 12:38:00	- 85	
Cost The Discipline	15-341-22 14:00:00	15-jun-23 14:10:00	04	
Cost In Distance	18-Jan-23 10:18:00	15-Am-23 18:24:50	0.4	
Cost De Dettadon	15-Jan-23 23-62-00	15-340-22 22 58:00	0.2	
Cost De Distinguist	18-340-23 12:62:00	18-An-25 12:57:00	9,1	
Cosi De Usudibelos	18-An-23 09:53:92	18-44-23 10:02:00	42	
Cost De Distiliation	18-An-23 11:24:39	18-An-23 11:44:00	92	

NOPU	diart There	Ked Time	Punits	Remains of 26 statements or Office: Added
L			(energy)	fans hen leisten gemeinen (bereit)
Coal Tet Distillation	15-Jun-23 12-36-00	18-Am-23 12-48-00	6.2	
Coal The Distillation	18-40-03 12:57:00	18-8-23 13:05:00	<u> </u>	
Cool Tar Distillation	15-3-23 13-07-00	18-40-22 14:05:00	10	
Cost Ter Distillation	10-Jun-23 17-556(0)	18-349-23 19:07:00		
Cost The Distiliation	19-50-20 19-22-09	13-Jun-22 18-88-90	1.6	
Cred Ter Distillation	19-Jun 23 20:17:00	19-34-23 20/2000	6.2	
Coal for Distingue	19-Jun-23 20-28-50	19-10-23 21:28:00	.10	
Stad The Distillation	21-340-32-01:59-00	21-10-23 92:10:00	0.2	
Sul Tr Distilities	21-Ang) (2:11:00	21-hat 21 02:22:00		
Coal for Distinger	25-Arr-23 02-50:00	21-310-23 (2-46-00)	<u>E1</u>	3
Coul The Orieffeties	21-34-23 19:19:00	21-20-23 19:39:00	47	1
Wart The Distillation	NA I	NA	=/A	
Coal Tar DiscRative	22-Jun-23 11:40:00	Z3-May 23 12:51:00	12	
Coul The Distillation	N/A 1	NA	#/A	
Und Ter Distillation	N&1	NA	N'A	
Cold The Disables	20-30-22 11:49:00 1	28-10-22 11:52:00		)
Cash The DistParton	29-30-23 11:33.00	29-340-23 11:41:00	01	1
Cruel The Distillation	28-3m-23 11:43:00	29-849-23 11:54:00	<u></u>	
Cost for Displiction	29-An-33 12:57:09	29-Jun-23 13:17:00		
<b>Coul Ter Distillation</b>	30-Jun-23 08:14:00	30-Jun-22 09:30:00	0,1	1
Coal Tay Discillation	30-Jun-23 (0:32.00	\$9-Jun-20 10:12:00	1.2	E
Coll Tr Distances	30-50-53 (0:52:00	30-Jun-23 10:12:00	12	
Cost Tor Distillation	30-Am-23 10-19-08	20-40-23 10:58:00		4
Coal Tar Discillation	30-Jan 23 10-59-00	30-Jup-20 11:05:00	61	1
Coal Tay Distillative	\$0.8m-23 11:07:00	30-Am-23 11:13:00		1
Coal Tar Distingtion	30-Jun-23 11:21:00	20-Jun 23 11 20:00	<u></u>	1
Coal Tar Disalisting	30-Jan-23 11:29-00	30-Jun-23 11:63:00	0.2	
Coal Ter Distiliation	30-Jan 23 11:57:00	30-Jan 23 12:03:00	61	4
Coal Res Discipling	30, 60, 73, 20, 32, 00	30-bn-23 20:28:00	<b>u</b> .	

8/30/2023

 $\bigcirc$ 

0

NOTES; 1) Per closest vani optimus (CVS) under positivo pressure addjuct to 40 CPR 43.963 2) Report timer of a CVS under positivo pressure unbjuct to 40 CPR 43.963 when mus the seal is broken, when the hypers line value position is claraped, or when the lary fits a lash-and-lary type contiguouslas has been checked out

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

C

0

	the structure structure in		Plan Followed?	Plan Not Pedered? <sup>3</sup>
MCPU	Event Date	Description of Malfunction	rypol	Description of Actions Takes
			Man	
Type A Plich	1/10/2023	tuning the T.O.	165	
Type A Pitch	1/20/2023	Oxidizer Zero Air Flow Shutdown	Yes	
Type A Pitch	1/20/2023	Flame Fallure	Yes	
Type A Pitch	1/20/2023	Flame Failure	Yes	
Type A Pitch	1/20/2023	Flame Failura	Yes	
Type A Pitch	1/20/2023	Flame Failure	Yes	
Tune & Pitch	2/1/2023	Flow Inlet Low Flow Shutdown PE4847 SP: -0.4 "WC	Yes	
Tune A Ditak	3/1/2023	Electricians worked on the 653 pusho power and the Pitch Y.O.	Yes	
The struct	201000	Eluma Enihern	Yes	
Type A Pisce	3/1/2023	Current Currier of Mark Taule Libert Land	Van	
Type A Plich	3/2/2023	Pune Spiceriso vent tella rega teres	Var	
Type A Pitch	3/13/2013	Partie Fairle	1 cm	
Type A Pitch	3/25/2023	Flow Inset Low How Shattacen P-4647 SP:-U.4 WC	Ice	
Type A Pitch	3/27/2023	Undetermined Fallure	Tes	
Type A Pitch	5/3/2023	Oxidizer Hi-Hi Temp Shutdown	Yet	
Type A Pitch	5/3/2023	Undetermined Failure	Yes	
Type A Pitch	5/3/2023	Flame Feikere	Yes	
Type A Pitch	5/3/2023	Flame Failure	Yes	
Type A Pitch	5/8/2023	Fume Inlet Low Flow Shutdown PI-4847 SP: -0.4"WC	Yes	
Type A Pitch	6/6/2023	Furne Inlet Low Flow Studdown PI-4847 SP: -0.4*WC	Yes	
Type A Pitch	6/19/2023	Flame Falture	Yes	
Coal Tar Distillation	1/2/2023	Centrol Room XII Switch (MMI)	Yes	
Coal Ter Distillation	1/3/2023	Flame Failure	Yes	
Cost Tay Distington	1/4/2002	Control Room Kill Switch (MMI)	Yes	
	1/4/2043	Control Boorn Fill Carloch (AALAN	Yes	
Coll In Ulstander	4 40/2022	Bahailar Duran Law Astar	Var	
Coel Ter Distillation	1/14/2023	Report Fund	Va	
Coal Tar Distillation	1/10/2023	Nebalier Pump Low Amps	103	
Coal Tar Distillation	1/10/2023	Reboter Pump Low Amps	105	
Coal Tar Distillation	1/10/2023	Rebotler Pump Low Amps	Yes	
Coal Tar Distillation	1/13/2023	Reboller Loop Low Flow	Yes	
Coal Tar Distillation	1/17/2023	Flame Failure	Yes	
Coal Tar Distillation	1/17/2023	High Gas Pressure Switch	Yes	
Cost Fat Distillation	1/17/2023	High Ges Pressure Switch	Yes	
Cost Try Distillation	1/17/2023	High Gas Pressure Switch	Yes	
Coal Tas Distillation	1/19/2023	Control Boom Kill Switch (MMI)	Yes	
	\$/14/2022	Lifeh Gas Bresture Sailtrh	Yes	
Cold Tig Distlisation	1 202 2023	Ulab Cas Deserves Suffer	Ves	
Coal Tar Distillation	1/18/2023	(lish Con Descent Switch	Ver	
Coal Ter Distillation	1/18/2023	High Gas Pressure Smith		
Coel Tar Distillation	1/19/2023	Rebower Pump Low Amps	163	
Coal Tar Distillation	1/20/2023	High Gas Pressure Switch	Ide	
Coal Tar Distillation	1/20/2023	No Alerth	16	
Coal Tar Distillation	1/21/2023	Low Loop Flow Bypass Relay Stuck	Yes	
Coal Tar Distillation	1/23/2023	No Alerm	Yes	
Coal Tar Distillation	1/23/2023	No Alarm	Yes	
Coel Ter Distillation	1/23/2023	No Alarm	Yes	
Coal Ter Distiliation	1/23/2023	Reballer Pump Low Amps	Yes	
Coal Ter Distillation	1/27/2023	Rebailer Pump Law Amps	You	
Coal Ter Distillation	1/23/2023	Low Loop Flow Bypass Relay Stuck	Yes	
Coal Ter Distillation	1/24/2023	Reboiler Pump Low Amps	Yes	
Cost Tar Distillation	1/24/2023	Rebailer Pump Low Amos	Yet	
Cont The Desenation	1/34/2022	Control Room Kill Switch (MMII)	Yes	
Con In Displicton	4/4/00/3	Bahadlar Dama Lour Amate	1	User error - the tabe heater was turned all
Coal Ter Distillation	1/24/2013	wearing hereith row verifie	No	prior to turning off the vacuum
	4 Pag 1949.5	Control Room (20 Curbed, 13 Shift)	V	
Coal Tar Distiliation	1/25/20/23		V	
Coal Tar Distillation	1/25/2023	LOW LOOP HOW SYDESS REALLY SELICK	100	
Cosl Tar Distillation	1/25/2023	LOW LOOP HOW BYPASS RELAY SUICE	195	
Coal Tar Distillation	1/25/2023	Low Loop How Bypass Reby Stuck	1 (45	
Coel Tar Distillation	1/27/2023	Control Room Kill Switch (MMII)	Y 65	
Coal Tar Distillation	1/27/2023	Low Loop Flow Bypess Relay Stuck	Yes	
Coal Tar Distillation	1/27/2023	Low Loop Flow Bypass Relay Stuck	Yes	
Coal Tar Distillation	1/31/2023	Flame Fallure	Yes	
Coal Ter Distillation	1/31/2023	Low Loop How Bypass Relay Stuck	Yes	
Coal Tat Distillation	1/31/2023	Flame Feiture	Yes	
Coal Tax Distillation	1/31/2023	Flame Failura	Yes	
Coal Tax Distillation	2/1/2023	Flame Failure	Yes	
Cost Tas Distillation	7/1/3033	Control Room (Oli Switch (MMI)	Yes	
	314/3023	Pame Failure	Yes	
Colu Har Dischargon	2/1/2003	Babolar   pop   pu Elmu	Yes	
Courter Distribution	2/4/6/63	Cabular   past   and Elevel	Ym	
Coal Tar Distillation	447043	Current Ladop Low Flow	Ver	
Coal Ter Distillation	2/2/2023		V	
Coal Tar Distiliation	2/2/2023	Unrecograded	195	
Coal Tar Distillation	2/3/2023	High Gas Pressure Switch	161	
Coal Tar Distillation	2/7/2023	Seal Of Change	106	
Coal Tar Distillation	2/7/2023	Seal Oli Change	Yes	
Coal Tay Distillation	2/8/2023	Unit Shut Down	Yes	
Coal Tat Distillation	2/8/2023	Unit Shut Down	Yes	
Coal Tat Distillation	2/8/2023	Unit Shut Down	Yes	
Coal Ter Distillation	2/8/2023	Unit Shut Down	Yes	
Coal Tay Distillation	2/8/2023	High Gas Pressure Switch	Yes	
Cont Tas Distillation	2/0/2022	Ng Alarm	Yes	
LUBLING DESUBBLICU	64 77 6386A		and the second sec	

8/30/2023

T			Plan Fellowed?	Plan Not Followed? <sup>2</sup>
MCPU	Event Date Description of Withmettows			Description of Actions Taken
Coal Tar Distillation	2/9/2023	Control Room Kill Switch (MMI)	Yes	
Coal Tar Distillation	2/9/2013	No Alarm	Yes	
Coal Tar Distillation	2/9/2023	No Alarm	Yes	
Coal Tar Distillation	2/9/2023	No Alarm	Ver	
Cont Tar Distillation	2/9/2023	No Alarm	Yes	
Coel Ter Distillation	1/9/2023	Cantrol Room Kil Switch (MMR)	Yes	
Coal Ter Distillation	2/9/2023	Reholier Pump Low Amps	Yes	
Coal Tar Distillation	2/12/2023	Reballer Loop Low Flow	Yes	
Cost Ter Distillation	2/13/2023	Reboiler Pump Low Amps	Yes	
Coal Ter Distillation	2/14/2023	Rebailer Pump Low Amps	Yes	
Coal Tat Distillation	2/14/2023	Reboiler Pump Low Amps	Yes	
Coal Ter Distillation	2/16/2023	Flame Fellure	Yes	
Coal Tar Distillation	2/16/2023	Reboiler Loop Low Flow	Yes	
Coal Tar Distillation	2/16/2023	Rebailer Loop Low Flow	Yes.	
Coal Tar Distillation	2/17/2023	Repoter Loop Low Plow	Vas	
Coal Tar Distillation	2/17/2023	Rebailer Loop Low Flow	Yes	
Coal Tar Distillation	2/17/2023	Control Room Kill Switch (MMI)	Yes	
Coal Ter Distilletion	2/13/2023	Burnet Off/On Selector Sw	Yes	
Coal Ter Distilision	2/03/2023	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	Reboiler Loop Low Flow	Yes	
Coal Ter Distillation	3/7/2023	Reboiler Loop Low Flow	Yes	
Coal Ter Distillation	3/8/2023	Reboller Loop Low Prow	Vet	
Coal Tar Distillation	3/8/2023	Reboller Pump Low Amps	Ves	
Coal Tar Distillation	3/9/2023	Reboler Pump Low Amps	Yes	
Coal Ter Distillation	3/30/2023	High Gas Pressure Switch	Yes	
Coal Tar Distillation	3/11/2023	High Gas Pressure Switch	Yes	
Con Tar Distillation	3/12/2023	Low Steam Pressure Alarm	Yes	
Coal Tat Distillation	3/13/2023	Rebailer Logp Low Flow	Yes	
Coal Tar Distillation	3/33/2023	Reboiler Pump Low Amps	Yes	
Cosl Tar Distillation	3/13/2023	High Gas Pressure Switch	Yes	
Coal Ter Distillation	3/13/2023	High Gas Pressure Switch	<u>165</u>	
Coal Tar Distillation	3/18/2023	Maxon Smartlink Alarm	Ves	
Coal Tar Distillation	3/20/2023	Rebolet Loop Low Flow	Yes	
Coal Tar Distillation	3/20/2023	High Gas Pressure Suitch	Yes	
Coal Tar Distillation	3/21/2023	Reboiler Loop Low Flow	Yes	
Coal Fer Displacion	3/23/2023	No Alarm	Yes	
Coal Ter Distillation	3/27/2023	Low Gas Pressure Switch PSL-4725	Yes	
Coal Tar Distillation	3/27/2023	Flame Fallure	Yes	
Coal Tar Distillation	3/27/2023	Low Gas Pressure Switch PSL-4725	Yes	
Coal Tar Distillation	3/28/2023	Low Gas Pressure Switch PSL-4725	195 Ver	
Coal Tar Distillation	3/28/2023	Low Gas Pressure Switch 751-4725	Vat	
Coal Tar Distillation	3/28/2023	No Alam Recorded	Yes	
Coal Ter Distillation	3/26/2023	Rebailer Loop Low Flow	Yes	
Coal Ter Distillation	3/31/2023	Control Room Kill Switch (MSMR)	Yes	
Coal Tax Distillation	4/3/2023	Reboller Pump Low Amps	Yes	
Coal Ter Distillation	4/3/2023	Reboiler Pump Low Amps	Yes	
Coal Ter Distillation	4/4/2023	Rebater Loop Low Flow	Yes	
Coal Tar Distillation	4/4/2023	High Gas Pressure Switch	Yes	
Coal Tar Distillation	4/6/2023	High Gas Pressure Switch	<u>Yes</u>	
Coal Tar Distillation	4/7/2023	No Alarm Recorded	Vet	
Coal Tar Distillation	4/7/2023	Reholer Long Low Fram	Yes	
Coal Tar Distillation	4/9/2023	No Alarm Recorded	Yes	11
Coal Tar Distillation	4/10/2023 A/13/2023	No Alarm Recorded	Yes	
Coal Tar Distillation	4/16/2023	No Alarm Recorded	Yes	
Cost Tar Distillation	4/36/2023	No Alarm Recorded	Yes	
Coal Tar Distillation	4/15/2023	No Alarm Recorded	Yes	
Cual Tar Distillation	4/16/2023	No Alarm Recorded	Yes	
Coal Tar Distillation	4/16/2023	No Alarm Recorded	IG	
Cos  Ter Distillation	4/16/2023	No Alarm Reco/ded	VAR	
Cosl Tar Distillation	4/17/2023	NO AVAILIN RECOLUCIO	Yes	
Coal Tar Distillation	4/1//2023	No Alam Recorded	Yes	
Coal Tar Distillation	4/1//2023	No Alarm Recorded	Yes	
Coal Tar Distillation	W12/10/2			

6/30/2023

C

ATTACHMENT 3 - LDAR INFORMATION

C

C

C

Quality Improvement Program Initatiad for Pumps? (yea/no)	NA	NA	N/A	NVA	NA	N/A
Monthly Monitoring of Valves Initiated? (yes/no)	N/A, No LL Valvea	NA	NA	NA	NA	N/A
No. of Instances Utilizing Delay of Rapair	Ð	N/A	0	0	0	0
No. of Leaking Components Determined to be Nonrepairabl	0	<b>N</b> A	0	0	0	0
No. of Leaking Components Not Repetred	0	×N	0	0	0	0
Percent of Leaking Components	0.0%	NA	%0.0 %	0.0%	0.0%	0.0%
No. of Components Monitored <sup>2</sup>	8	0	282	12		•
No. of Leaking Components Detected	•	N/A	0		e	•
No. of Components Subject to Raquirements	116	e	307*	43*		8
Equipment Type	Valves in Gas/Vapor & LL Service	Bitman [a ] ( Bondon	Putricity RI LE CONVAC	Automa III Car Vana III Sanina		Pressure Release Devices Cas/Vapor Service

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

C

C

NOTES:

Represents counts as of the end of the report period. Excludes heavy liquid service components and components designated for no detectable emissions. Identify with an asterisk (\*) if there are any

 components added due to startup of Tank-101
 components added due to startup of Tank-101
 Several MON Components were not monitored during this reporting period due to being out of service.

Attachment L

 $\bigcirc$ 

C

C

# Carbon Pitch Tank Vent Thermal Oxidizer Compliance Stack Test

Response to Violation Notice A-2023-00162

Koppers Inc.

0

(

Justin Merryman Technology Specialist 6 ISO 9001 Registered Quality System

### 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

T 219-838-6082 F 219-838-6083



 $\bigcirc$ 

0

# TABLE OF CONTENTS

CERTIFICATION SHEET	i
1.0 INTRODUCTION. 1.1 Project Contact Information	1
2.0 SUMMARY OF RESULTS	2
3.0 DISCUSSION OF RESULTS	2
<ul> <li>4.0 SAMPLING AND ANALYSIS PROCEDURES</li></ul>	3 3 4 4 4
5.0 QUALITY ASSURANCE PROCEDURES	5
6.0 TEST RESULTS SUMMARY	6
APPENDIX Thermal Oxidizer Temperature Data Test Section Diagrams Sampling Train Diagrams Calculation Nomenclature and Formulas Test Data and Results (Computerized) Calibration Data Field Data Sheets	9 15 19 23 26 58 78
Calibration Gas Cylinder Sheets	

# **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 11:

Frank H. Jarke Quality Operations Manager

© 2009, General Electric Company. All rights reserved. The contents of this document are the property of General Electric Company. No part of this work may be reproduced or transmitted in any form or by ony means, except as permitted in written license agreement with General Electric Company. General Electric Company has made every reasonable attempt to ensure the completeness and accuracy of this document. The GE logo is a registered trademark of General Electric Company.

i

1.

### 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 %	99.38			

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.

GEII Project M22E1859A

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

C



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,

Seth Herring Plant Manager

# TABLE 1: Summary of DeviationsReporting Period: August 12, 2023 through September 7, 2023

		Repo	rting Period: 4	August 12, 20	23 through September 7, 2023	
		D	aration of Deviation	1	1	1
Identification of Control Device	Dute of Deviation	Start (hh:mm)	Pinish (hh.mm)	Total deviation Period (Minutes)	Cause of the Event	Corrective/Preventive Action Take
Tube Hester/Tar TO	August 12, 2023	5:25 PM	6:22 PM	57	Low steam pressure on waste gas	Investingate and Troubleshoot stat pressure
Tube Heater/Tar TO	August 13, 2023	7:44 PM	8:16 PM	32	Low steam pressure on waste gas	Investiggate and Troubleshoot ste 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 smployee.
Tube Hester/Tar 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 control system
· · · · · · · · · · · · · · · · · · ·		2:29 AM	2:32 AM	3	Nativaction of Tubeheater Waste Gas	Complete Commissioning of back
	7	6:09 AM	6:36 AM	27	Maifunction of Tubeheater Waste Gas	Complete Commissioning of back
		0-28 AM	9-53 444	20	Burning System Components Malfunction of Tubeheater Waste Gas	Complete Commissioning of back
Tube Rester/Ter TO	August 16, 2023	WWY C.2.0	0.00 /44	400	Burning System Compositients Mathematics of Turbahaster Waste Gas	control system Complete Commissioning of hack
		11:58 AM	12:18 PM	22	Burning System Components	control system
		1:59 PM	2:09 PM	10	Maltunction of Tubeheater Waste Gas Burning System Compoundate	control system
		6:58 PM	7:05 PM	7	Matfunction of Tubeheater Waste Gas Barreing System Components	Complete Commissioning of back control system
Tube Heater/Tar TO	August 17, 2023	1:18 AM	1:22 AM	4	Maifunction of Tubeheater Waste Ges Burning System Components	Complete Commissioning of back control system
Tube Heater/Tar TO	August 17, 2023	10:10 AM	10:13 AM	3	Interruption of environmental controls due to commissioning of beck-up control system	Complete Commissioning of back 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 control system
Tube Heater/Tar TO	August 17, 2023	10:27 AM	10:30 AM	3	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back control system
Tube Heater/Tar 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 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 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 control system
Tubs Heater/Tar 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 control system
Tube Heater/Ter TO	August 17, 2023	2:46 PM	2:49 PM	3	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back control system
Tube Heater/Tar TO	August 17, 2023	3:04 PM	4:36 PM	92	PLC code issue, Center flash vacuum pump on Unit #2 was used due to west pump needing a coupler closve replacement. When center flash vacuum pump is used and unit #1 was down the fumes were allowed to anit	Software system needs to be upd Uniii update is in place, an impain form is needed.
Tube Heater/Tar TO	August 18, 2023	12:17 AM	12:22 AM	5	Malfunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of bac control system

()

		Di	ration of Deviation			
Identification 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		3:20 PM	3:23 PM	з	Interruption of environmental cartrals due to commissioning of back-up control system	Complete Commissioning of back-up control system
Heater/Tar 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 mailunction	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 Henter/Tar TO	Augusi 20, 2023	10:04 AM	10:19 AM	15	Mathunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube		10:52 AM	10:57 AM	5	Matiunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Restor/Tar TO	August 21, 2023	6:15 PM	6:43 PM	28	Mathemation of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube Heater/Tar TO	August 22, 2023	7:20 AM	7:25 AM	5	Matiunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube		4:00 AM	4:08 AM	8	Mathunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Heater/Tar TO	August 23, 2023 -	6:06 AM	6:13 AM	7	Matfunction of Tuboheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube Heater/Tar TO	August 24, 2023	2:41 PM	2:44 PM	3	Mailunction of Tubeheater Waste Gas Burning System Compoenents	Complete Commissioning of back-up control system
Tube Heater/Tar TO	August 25, 2023	8:32 AM	8:36 AM	4	Matunction of Tubeheater Waste Gas 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	Maliunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube Heater/Ter TO	August 28, 2023	5:08 PM	5:16 PM	8	Matiunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
		10:59 AM	11:11 AM	12	Matunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
		11:59 AM	12:08 PM	9	Mattunction 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 Hester/Tar TO	August 29, 2023	5:39 PM	5:45 PM	6	interruption of environmental controls due to commissioning of back-up control system n	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	Malfunction of Tubeheater Waste Ges Burning System Components	Complete Commissioning of back-up control system
Heater/Tar TO	August 31, 2023	6:39 PM	6:47 PM	8	Mafunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube Heater/Tar TO	September 2, 2023	2:03 PM	2:08 PM	5	Mattunction of Tubehaster Waste Gas Burning System Components	Complete Commissioning of back-up control system
Tube Hester/Tar TO	September 4, 2023	5:25 PM	6:02 PM	7	Mailunction of Tubehester Waste Gas Burning System Compoenents	Complete Commissioning of back-up control system
Tube Heater/Tar TO	September 4, 2023	6:31 PM	6:35 PM	4	Mailunction 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	Maltunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-up control system

 $\bigcirc$ 

0

O

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

C

C

( )



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

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

	D	station of Deviation			Summery of	of Deviation		112.2	
Date of Deviation	Start (bik:pam)	Finish (hirms)	Total deviation Period (Minutes)	Total Deviation Period (hours)	Regulation/Permit Conditions (see flootnote)	Emission Rate (ilu/ar)	Rationated Emissions (Ibs)	Cause of the Event	Cortextive/Proventive Action Talken
September 8, 2023	1:55 PM	2:06 PM	11	0.183	2,5	58.98	10.8	Malfunction of Tubeheeter Waste Gas Burning System Components	Complete Commissioning of back-u control system
September 9, 2023	3:27 AM	3:32 AM	5	0.063	5	58.98	4.9	Matkunction of Tubeheater Waste Gas Burning System Components	Complete Commissioning of back-u control system
September 11, 2023	9:55 AM	9:59 AM	4	0.087	5	58.96	3.9	Matkunction of Tubehester Weste Gas Burning System Components	Complete Commissioning of back-u control system
September 12, 2023	3:03 AM	3:08 AM	5	0.063	1,3	60.54	5.0	Operational Upsets	Complete Commissioning of back-t control system
September 12, 2023	3:12 AM	3:17 AM	5	0.083	1,3	60.54	5.0	Operational Upsets	Complete Commissioning of back-u control system
September 12, 2023	3:20 AM	3:30 AM	10	0.167	1,2,3	60.54	10.1	Operational Upsets	Complete Commissioning of back-t control system
September 12, 2023	2:00 PM	2:08 PM	8	0.133	1,2,3	60.54	8.1	Operational Upsets	Complete Commissioning of back- control system
September 14, 2023	12:17 AM	12:26 AM	9	0.150	1,2,3	60.54	9.1	Operational Upsets	Complete Commissioning of back- 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- 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- 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- control system
,tember 14, 2023	2:50 PM	2:54 PM	4	0.067	1,3,5	119.52	8.0	Interruption of environmental controls due to commissioning of back-up control system	Complete Commissioning of back- control system
September 14, 2023	3:02 PM	\$: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- 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- control system
September 16, 2023	12:28 AM	12:33 AM	5	0.083	1,5	60.54	5.0	Shutting Down Units, Operator Error	Training & corrective action with employee.
September 16, 2023	1:39 AM	3:20 AM	107	1.783	Ŧ	1.56	2.8	Mechanical failure of #2 Vent Cloutation Pumpe	Fix the Pump and put it back in operation
September 16, 2023	3:20AM	6:40 AM	200	3.333	1	1.26	4.2	Mechanical tailure of #2 Vent Ciculation Pumps	Fix the Pump and put it back in operation
September 17, 2023	4:14 PM	4:19 PM	5	0.083	1,5	60.54	5.0	Operator Error caused low toop flow and tripped the Tubenetics while bringing the unit up to produiton	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- control system
September 20, 2023	4:50 PM	4:56 PM	6	0.100	1,5	60.54	6.1	Operationel Upacta	Complete Commissioning of back- control system
September 20, 2023	5:49 PM	5:52 PM	3	0.050	1	60.54	3.0	Starting Up the unit, Operator Error	Training & corrective action with employee.
September 21, 2023	1:49 PM	1:53 PM	4	0.067	1,5	59.28	4.0	Operational Upsets	Complete Commissioning of back- control system
September 24, 2023	4:33 PM	4:53 PM	20	0.333	1,2,5	60.54	20.2	Operational Upsets	Complete Commitsioning of back- 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- 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- control system
September 26, 2023	11:39 AM	11:43 AM	4	0.067	1,5	60.54	4.0	Operational Upsets	Complete Commissioning of back- 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- 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- control system

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

C										
1		Da	ration of Deviation			Summer of	(Deviation			
	Date of Deviation	Start (hihrann)	Finish (htema)	Total deviation Period (Minuton)	Total Deviation Period (hours)	Regulation/Permit Conditions (see flotnote)	Emission Reto (Balar)	Estimated Emissions (Iba)	Cause of the Event	Corrective/Proventive Action Taken
	October 5, 2023	11:31 AM	11:34 AM	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
	October 5, 2023	11:44 AM	\$1:49 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	Camplete Commissioning of back-up control system

O

- Footnotes

   Regulation/Permit Conditions

   1
   CP#14100012 Permit condition 2.2.1.a. (Naphthelene Plant Tanks)

   2
   IAC 35, § 218.301 (VOM emissions <8 libe/hr)</td>

   3
   CP#15080025 Permit condition 1.a. and/or 5.a. (Tube Heater #1 emission limit)

   4
   CP# 08040005 Permit condition 1.a. and/or 5.b. (Tube Heater #2 emission limit)

   5
   CP#1100041 Permit condition 1.a and/or 5.b. (Tube Heater #2 emission limit)

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

0

0



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

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 ID 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**

0

0

C

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.

C

O



# 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

(

stacktest.com

Birmingham, AL Decatur, AL Anchorage, AK Little Rock, AR Denver, CO Cedar Rapids, IA Baton Rouge, LA LOCATIONS

Pittsburgh, PA Philadelphia, PA Dallas, TX Houston, TX Salt Lake City, UT Roanoke, VA





Source Test Report Test Program Summary

### **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 SO<sub>2</sub>, NOx, NH<sub>3</sub> PM, SO<sub>2</sub>, NOx, CO, VOM VOM SO<sub>2</sub>, 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.

Hold

James Holder, QSTI Alliance Source Testing, LLC

11/19/2020

Date



C

0

C

Run Number	Run 2	Run 3	Run 4	Average
Date	9/29/20	9/30/20	9/30/20	
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, lb/hr	0.059	0.040	0.026	0.042

 Table 2-3

 Summary of Results – Thermal Oxidizer

Attachment Q SO2 Emissions Data Response to Violation Notice A-2023-00162 Koppers Inc.

 $\bigcirc$ 

C

A 1997		
Date	Monthly averaged SO2 rate Train A (Ib 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

0

C

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
	(lb SO2/Day)	(lb SO2/Dav)
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

0

C

		Daily averaged	Daily averaged
	Date	SO2 rate Train A	SO2 rate Train B
		(lb SO2/Dav)	(lb SO2/Dav)
<b>~</b>	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
6	3/23/2022	1140.7	510.5
6	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

		Daily averaged	Daily averaged
	Date	SO2 rate Train A	SO2 rate Train B
		(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
	4/29/2022	13.9	14.8
	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	1100.1	1432.3
	5/14/2022	1170.7	1203.8
	5/16/2022	0/2 7	1255.0
	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
, X	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
		(lh SO2/Dav)	(ih SO2/Davi)
	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
0	6/23/2022	23.7	21.5
0	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
1 3	7/15/2022	1118.7	1006.5
	7/16/2022	1112.7	1002.2
	7/17/2022	1111.2	1002.1

		Daily averaged	Daily averaged
Call	Date	SO2 rate Train A	SO2 rate Train B
		(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
	7/29/2022	998.4	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
0	8/8/2022	405.0	358.3
0	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
	A A A A A A A A A A A A A A A A A A A		00.7

		Daily averaged	Daily averaged
	Date	SO2 rate Train A	SO2 rate Train B
		(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
	9/2//2022	0.0	0.0
	9/20/2022	0.0	0.0
	9/29/2022	0.0	0.0
	10/1/2022	0.0	0.0
	10/1/2022	0.0	17.2
	10/2/2022	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
		(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
0	11/8/2022	639.0	262.2
C	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
$\sim$	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
0	12/24/2022	665.6	617.1
0	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
18	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 R
C.9/8-	Date	(b SO2/Dav)	(lb SO2/Dav)
	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
0	2/8/2023	690.0	399.0
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
1 8	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
1		(lb SO2/Day)	(lb SO2/Day)
	3/5/2023	0.2	832.5
	3/6/2023	0.2	838.6
	3/7/2023	0.1	650.6
	3/8/2023	44.8	790.4
	3/9/2023	168.0	378.9
	3/10/2023	187.3	364.4
	3/11/2023	214.6	367.6
	3/12/2023	196.2	365.3
	3/13/2023	182.1	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	1/4.8	421.9
	<u>3/31/2023</u>	0.3	390.0
	4/1/2023	0.1	200.0
	4/2/2023	2.1	390.0
	4/3/2023	140.0	320.6
	4/4/2023	125.2	310.0
	4/6/2023	132.2	328.2
	4/7/2023	135.5	320.2
	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
C	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
22		(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
	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	100.1	1290.2
	5/21/2023	170.9	1230.7
	5/22/2023	160 4	1330.5
	5/23/2023	167.2	1291.4
	5/25/2023	157.5	1200.2
	5/26/2023	102.2	1238.5
	5/27/2023	143.0	1230.0
	5/28/2023	152.5	1240.1
	5/29/2023	154.1	1254.2
	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
	UN 112020		

	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
7/2/2023	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
7/12/2023	283.0	260.0
7/13/2023	43.0	48.5
7/14/2023	302 3	207.8
7/15/2023	386.6	360.2
7/16/2023	389.6	365.7
7/17/2023	265.7	375.2
7/18/2023	340.6	375.5
7/10/2023	252.0	310.0
7/20/2022	240.0	257 7
11/20/2023	1 349.0	00/./

	Daily averaged	Daily averaged	
Date	SO2 rate Train A	SO2 rate Train B	
	(lb SO2/Day)	(lb SO2/Day)	
7/21/2023	283.8	349.1	
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	

 $\bigcirc$ 

		Daily averaged	Daily averaged
	Date	SO2 rate Train A	SO2 rate Train B
0		(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
C	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