

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5**

In the Matter of:	)	
	)	
Carmeuse Lime, Inc.	)	FINDING OF VIOLATION
Grand River, Ohio	)	
	)	EPA-5-25-OH-5
Proceedings Pursuant to Section	)	
113(a)(3) of the Clean Air Act,	)	
42 U.S.C. §§ 7413(a)(3)	)	

FINDING OF VIOLATION

The U.S. Environmental Protection Agency finds that Carmeuse Lime, Inc. (Carmeuse) has violated Section 112 of the Clean Air Act (CAA), 42 U.S.C. § 7412, at its Grand River Operation at 15 Williams Street, Grand River, Ohio (Facility). Specifically, Carmeuse has violated the National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants (LMPs) at 40 C.F.R. Part 63, Subpart AAAAA (LMP NESHAP) as follows:

Statutory and Regulatory Authority

1. Section 112(d) of the CAA, 42 U.S.C. § 7412(d), requires the EPA to establish emission standards for each category or subcategory of major sources and area sources of hazardous air pollutants (HAPs) listed for regulation under Section 112(c) of the CAA. These emission standards are known as the National Emission Standards for Hazardous Air Pollutants (NESHAP). The purpose of the NESHAP is to apply maximum achievable control technology to each source category for the reduction of HAP emissions.
2. On January 5, 2004, the EPA promulgated the LMP NESHAP at 40 C.F.R. Part 63, Subpart AAAAA. 69 Fed. Reg. 416 (Jan. 5, 2004).
3. An owner or operator of an LMP that is a major source, or that is located at, or is part of, a major source of HAP emissions is subject to the LMP NESHAP, unless the LMP is located at a kraft pulp mill, soda pulp mill, sulfite pulp mill, beet sugar manufacturing plant, or only processes sludge containing calcium carbonate from water softening processes, as set forth at 40 C.F.R. § 63.7081(a).
4. The LMP NESHAP, at 40 C.F.R. § 63.7081(a)(1), states that an LMP is an establishment engaged in the manufacture of lime product (calcium oxide, calcium oxide with magnesium oxide, or dead burned dolomite) by calcination of limestone, dolomite, shells or other calcareous substances.
5. The LMP NESHAP, at 40 C.F.R. § 63.7081(a)(2), states that a major source of HAP is a plant site that emits or has the potential to emit any single HAP at a rate of 9.07 megagrams (10 tons) or more per year or any combination of HAP at a rate of 22.68 megagrams (25 tons) or more per year from all emission sources at the plant site.

6. The LMP NESHAP applies to, among other affected sources, each existing or new lime kiln located at an LMP that is a major source of HAP. *See* 40 C.F.R. § 63.7082(a).

7. The LMP NESHAP, at 40 C.F.R. § 63.7082(f), states that an existing lime kiln is any lime kiln, and (when complying with particulate matter (PM) emissions limitations) its associated lime cooler, that does not meet the definition of a new kiln of 40 C.F.R. § 63.7082(b) and (c):

- a. 40 C.F.R. § 63.7082(b) states that, for purposes of complying with the PM emissions limitations of the LMP NESHAP, a new lime kiln is a lime kiln, and (if applicable) its associated lime cooler, for which construction or reconstruction began after December 20, 2002, if the applicability criteria in 40 C.F.R. § 63.7081 were met at the time the owner or operator began construction or reconstruction.
- b. 40 C.F.R. § 63.7082(c) states that, for purposes of complying with the HCl, mercury, organic HAP, and dioxins/furans emissions limitations of the LMP NESHAP, a new lime kiln is a lime kiln (only) for which construction or reconstruction began after January 5, 2023, if the applicability criteria in 40 C.F.R. § 63.7081 were met at the time the owner or operator began construction or reconstruction.

8. Affected sources under the LMP NESHAP must meet the emission limitations (including operating limits) set forth at 40 C.F.R. § 63.7090.

9. The LMP NESHAP, at 40 C.F.R. § 63.7090(b), requires the owner or operator of an affected lime kiln to meet each applicable operating limit in Table 3 to the LMP NESHAP.

10. Table 3 of the LMP NESHAP, at 1., requires the owner or operator of each lime kiln and lime cooler (if there is a separate exhaust to the atmosphere from the associated lime cooler) equipped with a fabric filter (FF) to maintain and operate the FF such that the bag leak detector system (BLDS) or PM detector alarm condition does not exist for more than 5 percent of the total operating time in a 6-month period; and comply with the requirements in 40 C.F.R. § 63.7113(d) through (f) and Table 6 of the LMP NESHAP. In lieu of a BLDS or PM detector, Table 3 of the LMP NESHAP, at 1., requires the owner or operator to maintain the FF such that the 6-minute average opacity for any 6-minute block period does not exceed 15 percent; and comply with the requirements in 40 C.F.R. § 63.7113(f) and (g) and Table 6 of the LMP NESHAP.

11. Table 3 of the LMP NESHAP, at 3., requires the owner or operator of each lime kiln equipped with an ESP to install a PM detector and maintain and operate the ESP such that the PM detector alarm is not activated and alarm condition does not exist for more than 5 percent of the total operating time in a 6-month period, and comply with 40 C.F.R. § 63.7113(e); or, to maintain the ESP such that the 6-minute average opacity for any 6-minute block period does not exceed 15 percent, and comply with the requirements in 40 C.F.R. § 63.7113(g); and comply with the requirements in 40 C.F.R. § 63.7113(f) and Table 6 of the LMP NESHAP.

12. Table 3 to the LMP NESHAP thus allows an owner or operator to comply with operating limits for each lime kiln equipped with an FF or an ESP, except during startup and shutdown, by maintaining the FF or ESP such that the 6-minute average opacity for any 6-minute block period does

not exceed 15 percent while also complying with, among other things, the requirements in Table 6 to the LMP NESHAP.

13. The LMP NESHAP, at 40 C.F.R. § 63.7121(a), requires an owner or operator to demonstrate continuous compliance with each applicable emission limitation in Table 3 to the LMP NESHAP according to the methods specified in Table 6 to the LMP NESHAP.

14. Table 6 to the LMP NESHAP, at 4., requires the owner or operator of each lime kiln that is equipped with an FF or an ESP and that uses a continuous opacity monitoring system (COMS) as the monitoring device for maintaining and operating the FF or ESP such that the average opacity for any 6-minute block period does not exceed 15 percent to demonstrate continuous compliance by:

- a. Installing, maintaining, calibrating, and operating a COMS as required by 40 C.F.R. Part 63, Subpart A, General Provisions and according to PS-1 of Appendix B to 40 C.F.R. Part 60, except as specified in 40 C.F.R. § 63.7113(g); and
- b. Collecting the COMS data at a frequency of at least once every 15 seconds, determining block averages for each 6-minute period, and demonstrating for each 6-minute block period the average opacity does not exceed 15 percent.

15. The LMP NESHAP, at 40 C.F.R. § 63.7090(c), requires the owner or operator of an affected lime kiln that commenced construction or reconstruction on or after the relevant compliance date specified in 40 C.F.R. § 63.7083(e) *[sic]* to meet each applicable startup and shutdown period emission limit in Table 2 to the LMP NESHAP.

16. The LMP NESHAP, at 40 C.F.R. § 63.7083(g)(1), indicates that the compliance date is January 20, 2021, for the revised requirements promulgated at 40 C.F.R. §§ 63.7090, 63.7100, 63.7112, 63.7113, 63.7121, 63.7130, 63.7131, 63.7132, 63.7140, 63.7141, 63.7142, and 63.7143 and Tables 2, 3, 4, 5, 7, 8 and 9 (with certain exceptions not applicable here) to the LMP NESHAP, if the affected source commenced construction or reconstruction on or before September 16, 2019.

17. Table 2 of the LMP NESHAP, at no. 1, prohibits emissions from all new and existing lime kilns and their associated coolers equipped with an FF or an ESP from exceeding 15 percent opacity (based on startup block average) during each startup. It provides that an owner or operator has demonstrated compliance, if after following the requirements in 40 C.F.R. § 63.7112 the owner or operator has:

- a. Installed, maintained, calibrated and operated a COMS as required by the general provisions of 40 C.F.R. Part 63, Subpart A and according to Performance Specification (PS)-1 of appendix B to 40 C.F.R. Part 60, except as specified in 40 C.F.R. § 63.7113(g)(2);
- b. Collected the COMS data at a frequency of at least once every 15 seconds, determining block averages for each startup period and demonstrating for each startup block period the average opacity does not exceed 15 percent.

18. Table 2 of the LMP NESHAP, at 3., prohibits emissions from all new and existing lime kilns and their associated coolers equipped with an FF or an ESP from exceeding 15 percent opacity

(based on 6-minute average opacity for any 6-minute block period does not exceed 15 percent) during shutdown. It provides that an owner or operator has demonstrated compliance, if after following the requirements in 40 C.F.R. § 63.7112 the owner or operator has:

- a. Installed, maintained, calibrated and operated a COMS as required by the general provisions of 40 C.F.R. Part 63, Subpart A and according to PS-1 of appendix B to 40 C.F.R. Part 60, except as specified in 40 C.F.R. § 63.7113(g)(2);
- b. Collected the COMS data at a frequency of at least once every 15 seconds, determining block averages for each 6-minute period and demonstrating for each 6-minute block period the average opacity does not exceed 15 percent.

19. Table 2 to the LMP NESHAP thus prohibits the owner or operator of a lime kiln equipped with an FF or an ESP from exceeding 15 percent opacity (based on startup period block average during startup or based on 6-minute average opacity for any 6-minute block period during shutdown).

20. The LMP NESHAP, at 40 C.F.R. § 63.7132(a)(2)(i), requires the owner or operator of an affected lime kiln that is subject to a standard during startup that differs from the standard applicable at other times to keep certain startup records. These startup records establish the duration of the startup period for the purpose of determining a startup period block average.

21. The LMP NESHAP, at 40 C.F.R. § 63.7100(a), states that prior to the relevant compliance date specified in 40 C.F.R. § 63.7083(e) *[sic]*, the owner or operator must be in compliance with the LMP NESHAP emission limitations (including operating limits) at all times, except during periods of startup, shutdown, and malfunction (SSM); and that on and after the relevant compliance date, the owner or operator must be in compliance with the applicable emission limitations (including operating limits) at all times. The owner or operator may operate outside of the established operating parameter limit(s) during performance tests in order to establish new operating limits.

22. Section 112(i)(3) of the CAA, 42 U.S.C. § 7412(i)(3), and 40 C.F.R. § 63.4 prohibit the owner or operator of any source from operating such source in violation of any NESHAP applicable to the source.

Statement of Facts

Carmeuse Grand River Operation

23. The Facility is an LMP that uses lime kilns to produce lime product from limestone or other calcareous material by calcination.

24. The Facility is not located at a kraft pulp mill, soda pulp mill, sulfite pulp mill, beet sugar manufacturing plant, and the Facility does not process sludge containing calcium carbonate from water softening processes.

25. The Facility is an LMP site that emits or has the potential to emit any single HAP at a rate of 9.07 megagrams (10 tons) or more per year or any combination of HAP at a rate of 22.68 megagrams (25 tons) or more per year from all emission sources at the plant site and is therefore a major source of HAP under 40 C.F.R. § 63.7081(a)(2).

26. Carmeuse is subject to the LMP NESHAP pursuant to 40 C.F.R. § 63.7081(a) because it owns and operates the Facility.

27. The Facility includes two rotary lime kilns, designated as Lime Kilns #4 and #5, that were constructed or reconstructed before December 20, 2002.

28. Lime Kiln #4 and Lime Kiln #5 are existing Lime Kilns under 40 C.F.R. §63.7082(f), since they do not meet the definition of a new kiln in 40 C.F.R. § 63.7082(b) and (c).

29. Lime Kilns #4 and #5 are affected sources under the LMP NESHAP in accordance with 40 C.F.R. § 63.7082(a) because those units are existing lime kilns at an LMP that is a major source of HAP emissions.

Carmeuse Grand River Title V Permitting

30. The Ohio Environmental Protection Agency (OEPA) issued Title V Permit Number P0118764 to Carmeuse effective August 2, 2017, under its approved CAA permit program. With a minor October 30, 2017 modification, this 2017 permit, renumbered Permit Number P0123524 (the 2017 Title V Permit) continued in effect under Ohio law until OEPA issued Carmeuse a new Title V Permit effective February 14, 2024, Permit Number PO131727 (the 2024 Title V Permit), as Carmeuse had submitted a timely application for renewal. The 2024 Permit is scheduled to expire on February 14, 2029. Both the 2017 Title V Permit and the 2024 Title V Permit incorporated LMP NESHAP requirements by reference.

31. At all relevant times, Conditions C.2.b)(1)f and C.3.b)(1)f, for Kiln #4 and Kiln #5, respectively, of both the 2017 Title V Permit and the 2024 Title V Permit impose the requirement that visible particulate emissions shall not exceed 15% opacity as a 6-minute average.

32. At conditions C.2.b)(1)f and C.3.b)(1)f, the earlier 2017 Permit had identified what are now Tables 3 and 6 to the LMP NESHAP, following the July 24, 2020 revisions to the LMP NESHAP (85 Fed. Reg. 44977), as Table 4 and 5.

Inspection and Information Request

33. On February 7, 2024, the EPA conducted an unannounced CAA inspection of the Facility.

34. Pursuant to Section 114(a) of the CAA, 42 U.S.C. § 7414(a), the EPA issued an Information Request to Carmeuse on June 14, 2024 (June 2024 Request).

35. On July 29, 2024, Carmeuse provided a response to the June 2024 Request (July 2024 Documents).

36. The information gathered from the February 7, 2024 inspection and from reviewing the July 2024 Documents includes, but is not limited to, the facts set forth below.

Opacity Limits for Lime Kilns #4 and #5

37. Carmeuse operates Lime Kilns #4 and #5 24 hours per day, 7 days per week, 365 days per year, except as otherwise reported to OEPA on a quarterly basis (Quarterly Reports).

38. Lime Kiln #4, which is controlled by an FF, and Lime Kiln #5, which is controlled by an ESP, share a common stack equipped with a COMS.

39. Carmeuse's method for complying with the LMP NESHAP operating limits set forth at 40 C.F.R. § 63.7090(b) and (c) includes, among other things, maintaining the FF for Lime Kiln #4 and the ESP for Lime Kiln #5 such that the 6-minute average opacity at the common stack for any applicable block period does not exceed 15 percent.

40. Pursuant to 40 C.F.R. § 63.7100(a), the 15 percent opacity limit did not apply to Lime Kilns #4 and #5 during periods of SSM that occurred before January 20, 2021.

41. Carmeuse did not provide the requested records of startup periods set forth at 40 C.F.R. § 63.7132(a)(2)(i) in the July 2024 Documents.

42. In its narrative response to Request 3 of the June 2024 Request, Carmeuse stated that, "[the Facility] does not follow an opacity standard during Startup periods which differs from that applicable at other times." That narrative response said Carmeuse adheres to an opacity standard of 15% over a 6-minute block average during all times Kilns #4 or #5 are operational, consistent with the 2024 Title V Permit.

Opacity Exceedances

43. Carmeuse submits signed and certified Quarterly Reports to the OEPA Division of Air Pollution Control Northeast District Office that provide information on opacity exceedances and COMS downtime for the Lime Kilns #4 and #5 common stack.

44. In the Quarterly Reports, Carmeuse reported the number of minutes it exceeded the 15 percent opacity limits in Tables 2 and 3 to the LMP NESHAP for the Lime Kilns #4 and #5 common stack. The reported exceedances are listed in Attachment A to the FOV and summarized as follows:

FOV Table 1. Opacity Exceedance Summary

Quarter	Minutes of Excess Opacity		
	Startup (On and After January 20, 2021)	Shutdown (On and After January 20, 2021)	All Other Times
Q2 2020	N/A	N/A	6
Q3 2020	N/A	N/A	18
Q4 2020	N/A	N/A	6
Q1 2021	6	18	12 ¹

¹ The Excess Emissions Report Summary Form only reported 6 minutes, but 12 minutes were listed in the opacity data provided in the attached spreadsheet.

Quarter	Minutes of Excess Opacity		
	Startup (On and After January 20, 2021)	Shutdown (On and After January 20, 2021)	All Other Times
Q2 2021	12	12	66 ^{2,3}
Q3 2021	6 ⁴	60 ⁵	18 ⁶
Q4 2021	0	0	318 ⁷
Q1 2022	0	0	192 ⁸
Q2 2022	0	0	636 ⁹
Q3 2022	0	0	354 ¹⁰
Q4 2022	0	0	66
Q1 2023	132	0	1,518
Q2 2023	132	0	1,284 ¹¹
Q3 2023	90	0	690
Q4 2023	0	0	42
Q1 2024	0	0	162
Q2 2024	42	30	744
Q3 2024	36	0	1,230
Total	456	120	7,362

² 48 minutes of COMS downtime occurred during an exceedance event associated with a power failure on April 4, 2021. Therefore, this downtime was included as an exceedance.

³ The Excess Emissions Report Summary Form reported 240 minutes, but only 66 minutes were listed in the Opacity Exceedances & Downtime Summary Table.

⁴ Event described as “Kiln restart” on July 15, 2021 included in startup duration.

⁵ Event described as “K5 shutdown for fan” on September 13, 2021 included in shutdown duration.

⁶ Exceedances on July 24, 2021 are reported as being caused by a “power failure” but appear to be a COMS calibration. Carmeuse reported these exceedances as exempt and did not include them in the Quarterly Report exceedance summation. Therefore, the event is not included as an exceedance in this FOV.

⁷ Carmeuse has asserted a claim that 66 minutes of exceedance reported to be caused by “rain events” on October 7, October 24, and November 2 of 2021 are exempt. Pursuant to 40 C.F.R. §§ 63.7090(b) and 63.7100(a), the opacity limit applies at all times (except startup and shutdown periods that are addressed elsewhere in the LMP NESHAP). These exceedances did not occur during startup or shutdown; therefore, the 66 minutes was included as an exceedance in this FOV.

⁸ The Excess Emissions Report Summary Form reported 210 minutes, but only 192 minutes were listed in the Opacity Exceedances & Downtime Summary Table.

⁹ The Excess Emissions Report Summary Form reported 654 minutes, but only 636 minutes were listed in the Opacity Exceedances & Downtime Summary Table.

¹⁰ The Excess Emissions Report Summary Form reported 366 minutes, but only 354 minutes were listed in the Opacity Exceedances & Downtime Summary Table.

¹¹ The Opacity Exceedances & Downtime Summary Table lists three 6-minute averages on May 1, 2023 with the same start time (20:59) in a series of consecutive exceedances reportedly caused by “Kiln 5 ESP bank down.” This FOV assumes that the listed start times are erroneous and counts all three instances towards the total, consistent with the accounting in the Excess Emissions Report Summary Form.

45. As set forth in Attachment A, Carmeuse reported causes for the opacity exceedances that include:

- a. 2,370 minutes of exceedances due to unknown causes;
- b. 1,620 minutes of exceedances caused by failures or maintenance at the ESP used to control Lime Kiln #5;
- c. 1,596 minutes of exceedances caused by cleaning and ash management (*e.g.*, “K5 shooting,” “stack cleaning,” “Kiln 5 Cleanout,” “cleaning cooler grates,” etc.); and
- d. 444 minutes of exceedances caused by failures or maintenance at the baghouse used to control Lime Kiln #4.

COMS Downtime

46. In the Quarterly Report for Facility operation during the second quarter of 2020, Carmeuse reported 8,688 minutes of COMS downtime from May 1, 2020 through May 7, 2020 due to a failure of the monitor at the Lime Kilns #4 and #5 common stack.

47. In the Quarterly Report for Facility operation during the second quarter of 2020, Carmeuse certified that source operating time in May of 2020 was equal to the total number of minutes available in the month of May of 2020.

48. Carmeuse provided opacity data for the Lime Kilns #4 and #5 common stack collected at a frequency of 15 seconds in the July 2024 Documents (15 Second Data).

49. The 15 Second Data had a recorded opacity value that did not deviate from $1.915 \pm 0.005\%$ for 4,344 consecutive minutes beginning at 9:24 a.m. on May 12, 2020.

50. The 4,344 minute period described by paragraph 49 above, corresponds to unreported COMS downtime because the measured variance ($3 \cdot 10^{-6}$) was significantly smaller than COMS variance during normal operation over similar time periods.

51. In the Quarterly Report for Facility operation during the third quarter of 2023, Carmeuse reported 1,560 minutes of COMS downtime on November 29 and 30, 2023 due to a failure of the system to log data.

Violations

52. Carmeuse exceeded the 15 percent average opacity limit at Tables 2 and 3 to the LMP NESHAP for the Lime Kilns #4 and #5 common stack for 7,938 minutes between April 3, 2020 and September 23, 2024, in violation of 40 C.F.R. § 63.7090(b) and (c).

53. Carmeuse failed to demonstrate continuous compliance with each operating limit in Table 3 to the LMP NESHAP according to the methods specified in Table 6 to the LMP NESHAP by failing

to collect COMS data at the Lime Kilns #4 and #5 common stack for 14,592 minutes during May 1–15, 2020 and August 29–30, 2023, in violation of 40 C.F.R. § 63.7121(a).

54. Pursuant to 42 U.S.C. § 7412(i)(3), the violations described above are violations of the CAA.

Environmental Impact of Violations

55. These violations have caused or can cause excess emissions of metal HAPs, including, but not limited to, antimony, arsenic, beryllium, cadmium, chromium, lead, manganese, mercury, nickel, and selenium.

56. Metal HAP emissions are associated with a variety of adverse health effects, including chronic health disorders (*e.g.*, irritation of the lung, skin, and mucus membranes; effects on the central nervous system; cancer; and damage to the kidneys), and acute health disorders (*e.g.*, lung irritation and congestion, alimentary effects such as nausea and vomiting, and effects on the kidney and central nervous system).

Michael D. Harris
Division Director
Enforcement and Compliance Assurance Division

Attachment A: Itemized Opacity Exceedances

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
4/3/2020	18.73	K5 ID fan start	12:48	12:54	6
8/19/2020	17.42	unknown	10:06	10:12	6
8/28/2020	15.52	unknown	7:36	7:42	6
8/28/2020	17.97	unknown	7:48	7:54	6
12/20/2020	20.26	unknown	20:18	20:24	6
1/9/2021	15.79	unknown	3:48	3:54	6
2/15/2021	17.32	unknown	12:18	12:24	6
3/7/2021	16.19	K5 shutdown	19:42	19:48	6
3/7/2021	15.81	K5 shutdown	19:48	19:54	6
3/7/2021	15.30	K5 shutdown	20:18	20:24	6
3/22/2021	16.89	K5 ID fan test	11:24	11:30	6
4/21/2021	N/A	storm power failure (COMS downtime)	02:24	3:12	48
4/21/2021	42.06	restart after power failure	03:12	3:18	6
4/21/2021	28.48	restart after power failure	03:18	3:24	6
5/29/2021	16.90	unknown	06:40	6:54	6
6/21/2021	15.09	K5 coating	02:30	2:36	6
6/21/2021	17.87	K5 coating	02:42	2:48	6
6/29/2021	20.96	dual kiln outage K5 shutdown	18:00	18:06	6
6/29/2021	22.95	dual kiln outage K5 shutdown	19:00	19:06	6
7/9/2021	21.61	Rain Event	12:18	0:24	6
7/13/2021	16.47	rain event	21:06	21:12	6
7/15/2021	19.03	Kiln restart	01:54	2:00	6
8/27/2021	20.87	K5 Cooler Feeder repair	06:24	6:30	6
8/27/2021	16.45	K5 Cooler Feeder repair	07:36	7:42	6
8/27/2021	15.29	K5 Cooler Feeder repair	09:06	9:12	6
8/27/2021	15.71	K5 Cooler Feeder repair	09:42	9:48	6
8/27/2021	15.82	K5 Cooler Feeder repair	10:06	10:12	6
8/27/2021	17.64	K5 Cooler Feeder repair	10:12	10:18	6
8/27/2021	15.75	K5 Cooler Feeder repair	10:24	10:30	6
8/27/2021	22.77	K5 Cooler Feeder repair	10:30	10:36	6
8/27/2021	22.77	K5 Cooler Feeder repair	10:36	10:42	6
9/13/2021	16.92	K5 shutdown for fan	9:18	9:24	6
9/22/2021	23.72	unknown	16:30	16:36	6
10/7/2021	16.09	rain event	19:42	19:48	6
10/10/2021	22.45	K5 blowdown	21:36	21:42	6
10/14/2021	22.16	K5 Shooting	15:06	15:12	6
10/15/2021	24.87	unknown	21:48	21:54	6
10/24/2021	17.47	rain event	17:06	17:12	6
10/24/2021	15.46	rain event	17:12	17:18	6
10/24/2021	23.09	rain event	17:18	17:24	6
10/24/2021	19.52	rain event	17:24	17:30	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
10/24/2021	20.01	rain event	17:54	18:00	6
10/24/2021	17.30	rain event	19:24	19:30	6
10/25/2021	29.73	K5 Shooting	13:18	13:24	6
11/2/2021	19.05	rain event	19:18	19:24	6
11/2/2021	16.24	rain event	19:24	19:30	6
11/12/2021	18.21	K5 precip bank kicked	13:36	13:42	6
11/12/2021	15.21	K5 precip bank kicked	14:36	14:42	6
11/14/2021	54.12	K5 ESP bank kicked	23:54	0:00	6
11/15/2021	24.79	K5 ESP bank kicked	0:00	0:06	6
12/1/2021	20.57	K5 cooler grates	20:30	20:36	6
12/1/2021	20.55	K5 cooler grates	20:54	21:00	6
12/1/2021	19.64	K5 cooler grates	21:00	21:06	6
12/1/2021	17.76	K5 cooler grates	21:24	21:30	6
12/1/2021	15.23	K5 cooler grates	21:30	21:36	6
12/1/2021	16.65	K5 cooler grates	21:48	21:54	6
12/1/2021	29.54	K5 cooler grates	21:54	22:00	6
12/1/2021	15.05	K5 cooler grates	22:00	22:06	6
12/1/2021	16.26	K5 cooler grates	22:06	22:12	6
12/1/2021	17.99	K5 cooler grates	22:12	22:18	6
12/1/2021	20.38	K5 cooler grates	22:18	22:24	6
12/1/2021	21.93	K5 cooler grates	22:24	22:30	6
12/1/2021	33.57	K5 cooler grates	22:30	22:36	6
12/1/2021	21.38	K5 cooler grates	22:36	22:42	6
12/1/2021	20.36	K5 cooler grates	22:42	22:48	6
12/1/2021	20.79	K5 cooler grates	22:48	22:54	6
12/1/2021	21.90	K5 cooler grates	22:54	23:00	6
12/1/2021	23.50	K5 cooler grates	23:00	23:06	6
12/1/2021	29.27	K5 cooler grates	23:06	23:12	6
12/1/2021	36.24	K5 cooler grates	23:12	23:18	6
12/1/2021	20.34	K5 cooler grates	23:18	23:24	6
12/1/2021	17.32	K5 cooler grates	23:24	23:30	6
12/1/2021	26.71	K5 cooler grates	23:30	23:36	6
12/1/2021	33.41	K5 cooler grates	23:36	23:42	6
12/1/2021	25.27	K5 cooler grates	23:42	23:48	6
12/2/2021	17.74	K5 cooler grates	0:06	0:12	6
12/2/2021	18.59	K5 cooler grates	0:12	0:18	6
12/2/2021	18.27	K5 cooler grates	0:54	1:00	6
12/2/2021	19.03	K5 cooler grates	01:18	1:24	6
12/2/2021	21.35	K5 cooler grates	01:24	1:30	6
12/2/2021	21.10	K5 cooler grates	01:30	1:36	6
12/2/2021	18.86	K5 cooler grates	02:06	2:12	6
12/2/2021	20.65	K5 cooler grates	02:12	2:18	6
12/11/2021	28.12	high winds	05:12	5:18	6
12/11/2021	20.20	high winds	05:18	5:24	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
12/31/2021	15.96	unknown	11:42	11:48	6
1/1/2022	24.67	Unknown	14:36	14:42	6
1/3/2022	15.28	Unknown	13:24	13:30	6
1/3/2022	22.71	Unknown	14:42	14:48	6
1/16/2022	28.26	Equipment Inspection	8:30	8:36	6
1/16/2022	27.92	Equipment Inspection	8:36	8:42	6
1/16/2022	20.33	Equipment Inspection	8:42	8:48	6
1/24/2022	24.70	K5 Shooting/Ash Removal	10:24	10:30	6
1/24/2022	27.91	K5 Shooting/Ash Removal	10:30	10:36	6
1/24/2022	17.32	K5 Shooting/Ash Removal	13:42	13:48	6
1/24/2022	20.96	K5 Shooting/Ash Removal	13:48	13:54	6
1/24/2022	18.13	K5 Shooting/Ash Removal	13:54	14:00	6
2/25/2022	18.85	Unknown	12:36	12:42	6
2/28/2022	15.93	K5 ESP Bank Malfunction	12:18	12:24	6
2/28/2022	15.38	K5 ESP Bank Malfunction	12:36	12:42	6
3/6/2022	15.52	Unknown	14:18	14:24	6
3/11/2022	37.21	K5 Shooting/Ash Removal	12:42	12:48	6
3/11/2022	31.56	K5 Shooting/Ash Removal	12:48	12:54	6
3/11/2022	30.60	K5 Shooting/Ash Removal	12:54	13:00	6
3/18/2022	17.80	K5 Shooting/Ash Removal	13:54	14:00	6
3/28/2022	15.74	K5 Shooting/Ash Removal	10:06	10:12	6
3/28/2022	21.16	K5 Shooting/Ash Removal	10:12	10:18	6
3/28/2022	25.25	K5 Shooting/Ash Removal	10:18	10:24	6
3/28/2022	30.18	K5 Shooting/Ash Removal	10:24	10:30	6
3/28/2022	39.78	K5 Shooting/Ash Removal	10:30	10:36	6
3/28/2022	38.77	K5 Shooting/Ash Removal	10:36	10:42	6
3/28/2022	45.73	K5 Shooting/Ash Removal	10:42	10:48	6
3/28/2022	44.98	K5 Shooting/Ash Removal	10:48	10:54	6
3/28/2022	42.12	K5 Shooting/Ash Removal	10:54	11:00	6
3/28/2022	52.51	K5 Shooting/Ash Removal	11:00	11:06	6
3/28/2022	54.16	K5 Shooting/Ash Removal	11:06	11:12	6
3/28/2022	37.47	K5 Shooting/Ash Removal	11:12	11:18	6
3/28/2022	15.74	K5 Shooting/Ash Removal	14:42	14:48	6
4/18/2022	27.03	Coal Mill Journal Repair	11:48	11:54	6
5/3/2022	20.29	Rain Event	20:30	20:36	6
5/3/2022	16.92	Rain Event	20:36	20:42	6
5/20/2022	16.05	Unknown Cause	12:18	12:24	6
5/21/2022	16.28	Rain Event	12:18	12:24	6
5/21/2022	45.37	Rain Event	17:36	17:42	6
5/21/2022	25.25	Rain Event	18:30	18:36	6
5/21/2022	16.70	Rain Event	18:36	18:42	6
5/21/2022	15.67	Rain Event	19:00	19:06	6
5/21/2022	23.05	Rain Event	19:06	19:12	6
5/22/2022	26.21	Stack Cleaning for Inspection	18:06	18:12	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
5/22/2022	21.50	Stack Cleaning for Inspection	18:18	18:24	6
5/22/2022	22.44	Stack Cleaning for Inspection	18:24	18:30	6
5/22/2022	18.17	Stack Cleaning for Inspection	18:30	18:36	6
5/22/2022	24.20	Stack Cleaning for Inspection	18:36	18:42	6
5/22/2022	15.21	Stack Cleaning for Inspection	18:42	18:48	6
5/22/2022	19.88	Stack Cleaning for Inspection	18:48	18:54	6
5/22/2022	28.68	Stack Cleaning for Inspection	18:54	19:00	6
5/22/2022	25.14	Stack Cleaning for Inspection	19:00	19:06	6
5/22/2022	27.33	Stack Cleaning for Inspection	19:06	19:12	6
5/22/2022	37.65	Stack Cleaning for Inspection	19:12	19:18	6
5/22/2022	30.94	Stack Cleaning for Inspection	19:18	19:24	6
5/22/2022	37.01	Stack Cleaning for Inspection	19:24	19:30	6
5/22/2022	62.20	Stack Cleaning for Inspection	19:30	19:36	6
5/22/2022	64.00	Stack Cleaning for Inspection	19:36	19:42	6
5/22/2022	43.59	Stack Cleaning for Inspection	19:42	19:48	6
5/22/2022	30.07	Stack Cleaning for Inspection	19:48	19:54	6
5/22/2022	30.57	Stack Cleaning for Inspection	19:54	20:00	6
5/22/2022	29.41	Stack Cleaning for Inspection	20:00	20:06	6
5/22/2022	27.68	Stack Cleaning for Inspection	20:06	20:12	6
5/22/2022	21.49	Stack Cleaning for Inspection	20:12	20:18	6
5/22/2022	20.58	Stack Cleaning for Inspection	20:18	20:24	6
5/22/2022	37.23	Stack Cleaning for Inspection	20:24	20:30	6
5/22/2022	37.09	Stack Cleaning for Inspection	20:30	20:36	6
5/22/2022	31.94	Stack Cleaning for Inspection	20:36	20:42	6
5/22/2022	33.56	Stack Cleaning for Inspection	20:42	20:48	6
5/22/2022	25.05	Stack Cleaning for Inspection	20:48	20:54	6
5/22/2022	26.24	Stack Cleaning for Inspection	20:54	21:00	6
5/22/2022	29.04	Stack Cleaning for Inspection	21:00	21:06	6
5/22/2022	23.24	Stack Cleaning for Inspection	21:06	21:12	6
5/22/2022	27.07	Stack Cleaning for Inspection	21:12	21:18	6
5/22/2022	24.05	Stack Cleaning for Inspection	21:18	21:24	6
5/22/2022	21.98	Stack Cleaning for Inspection	21:24	21:30	6
5/22/2022	17.83	Stack Cleaning for Inspection	21:30	21:36	6
5/22/2022	16.98	Stack Cleaning for Inspection	21:36	21:42	6
5/22/2022	23.91	Stack Cleaning for Inspection	21:42	21:48	6
5/22/2022	20.27	Stack Cleaning for Inspection	21:48	21:54	6
5/22/2022	18.68	Stack Cleaning for Inspection	21:54	22:00	6
5/22/2022	20.69	Stack Cleaning for Inspection	22:00	22:06	6
5/22/2022	15.14	Stack Cleaning for Inspection	22:06	22:12	6
5/22/2022	16.41	Stack Cleaning for Inspection	22:12	22:18	6
5/22/2022	16.36	Stack Cleaning for Inspection	22:18	22:24	6
5/22/2022	35.93	Stack Cleaning for Inspection	22:24	22:30	6
5/22/2022	37.38	Stack Cleaning for Inspection	22:30	22:36	6
5/22/2022	30.80	Stack Cleaning for Inspection	22:36	22:42	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
5/22/2022	24.22	Stack Cleaning for Inspection	22:42	22:48	6
5/22/2022	24.86	Stack Cleaning for Inspection	22:48	22:54	6
5/22/2022	26.20	Stack Cleaning for Inspection	22:54	23:00	6
5/22/2022	21.14	Stack Cleaning for Inspection	23:00	23:06	6
5/22/2022	19.87	Stack Cleaning for Inspection	23:06	23:12	6
5/22/2022	27.00	Stack Cleaning for Inspection	23:12	23:18	6
5/22/2022	19.46	Stack Cleaning for Inspection	23:18	23:24	6
5/22/2022	18.76	Stack Cleaning for Inspection	23:24	23:30	6
5/22/2022	19.74	Stack Cleaning for Inspection	23:30	23:36	6
5/22/2022	22.26	Stack Cleaning for Inspection	23:36	23:42	6
5/22/2022	21.70	Stack Cleaning for Inspection	23:42	23:48	6
5/22/2022	23.93	Stack Cleaning for Inspection	23:48	23:54	6
5/22/2022	24.17	Stack Cleaning for Inspection	23:54	0:00	6
5/22/2022	21.61	Stack Cleaning for Inspection	0:00	0:06	6
5/22/2022	22.92	Stack Cleaning for Inspection	0:06	0:12	6
5/22/2022	23.96	Stack Cleaning for Inspection	0:12	0:18	6
5/22/2022	17.76	Stack Cleaning for Inspection	0:18	0:24	6
5/22/2022	19.86	Stack Cleaning for Inspection	0:24	0:30	6
5/23/2022	16.05	Unknown Cause	4:00	4:06	6
5/24/2022	24.93	Rain Event	1:36	1:42	6
5/27/2022	27.32	K5 Ash Shooting	13:24	13:30	6
5/27/2022	26.66	K5 Ash Shooting	13:30	13:36	6
5/27/2022	19.43	K5 Ash Shooting	13:36	13:42	6
5/27/2022	19.55	K5 Ash Shooting	13:42	13:48	6
5/27/2022	15.11	Cooling Tower Screw Malfun.	15:42	15:48	6
5/27/2022	24.74	Cooling Tower Screw Malfun.	16:36	16:42	6
5/27/2022	21.19	Cooling Tower Screw Malfun.	16:42	16:48	6
5/27/2022	21.93	Cooling Tower Screw Malfun.	16:48	16:54	6
5/27/2022	18.43	Cooling Tower Screw Malfun.	16:54	17:00	6
5/27/2022	19.34	Cooling Tower Screw Malfun.	17:00	17:06	6
5/27/2022	18.42	Cooling Tower Screw Malfun.	17:06	17:12	6
5/27/2022	21.32	Cooling Tower Screw Malfun.	17:12	17:18	6
5/27/2022	19.64	Cooling Tower Screw Malfun.	17:18	17:24	6
5/27/2022	18.42	Cooling Tower Screw Malfun.	17:24	17:30	6
5/27/2022	17.71	Cooling Tower Screw Malfun.	17:30	17:36	6
5/27/2022	17.52	Cooling Tower Screw Malfun.	17:36	17:42	6
5/27/2022	17.25	Cooling Tower Screw Malfun.	17:42	17:48	6
5/27/2022	16.10	Cooling Tower Screw Malfun.	17:48	17:54	6
5/27/2022	15.90	Cooling Tower Screw Malfun.	17:54	18:00	6
5/27/2022	15.61	Cooling Tower Screw Malfun.	18:00	18:06	6
5/27/2022	17.75	Cooling Tower Screw Malfun.	18:06	18:12	6
5/27/2022	15.24	Cooling Tower Screw Malfun.	18:12	18:18	6
5/27/2022	15.26	Cooling Tower Screw Malfun.	18:30	18:36	6
6/6/2022	22.82	Cooler Pit Plug	12:12	12:18	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
6/6/2022	15.49	Cooler Pit Plug	12:18	12:24	6
6/6/2022	17.23	Cooler Pit Plug	15:36	15:42	6
6/17/2022	18.73	Unknown Cause	10:36	10:42	6
6/24/2022	15.97	Fuel System Shutdown	7:48	7:54	6
6/29/2022	20.90	Unknown Cause	13:30	13:36	6
6/29/2022	19.15	Unknown Cause	13:36	13:42	6
6/29/2022	15.73	Unknown Cause	13:42	13:48	6
7/16/2022	30.47	VFD Drive Failure	8:18	8:24	6
7/16/2022	26.13	VFD Drive Failure	8:24	8:30	6
7/16/2022	22.93	VFD Drive Failure	8:30	8:36	6
7/16/2022	22.06	VFD Drive Failure	8:36	8:42	6
7/16/2022	21.26	VFD Drive Failure	8:42	8:48	6
7/16/2022	20.57	VFD Drive Failure	8:48	8:54	6
7/16/2022	18.71	VFD Drive Failure	8:54	9:00	6
7/16/2022	18.08	VFD Drive Failure	9:00	9:06	6
7/16/2022	17.14	VFD Drive Failure	9:06	9:12	6
7/16/2022	16.07	Unknown Causes	18:36	18:42	6
7/16/2022	32.71	Unknown Causes	18:42	18:48	6
7/16/2022	31.03	Unknown Causes	18:48	18:54	6
7/16/2022	30.94	Unknown Causes	18:54	19:00	6
7/16/2022	30.72	Unknown Causes	19:00	19:06	6
7/16/2022	31.09	Unknown Causes	19:06	19:12	6
7/16/2022	30.95	Unknown Causes	19:12	19:18	6
7/16/2022	32.47	Unknown Causes	19:18	19:24	6
7/16/2022	33.85	Unknown Causes	19:24	19:30	6
7/16/2022	36.59	Unknown Causes	19:30	19:36	6
7/16/2022	39.92	Unknown Causes	19:36	19:42	6
7/16/2022	37.73	Unknown Causes	19:42	19:48	6
7/16/2022	35.95	Unknown Causes	19:48	19:54	6
7/16/2022	37.38	Unknown Causes	19:54	20:00	6
7/16/2022	38.26	Unknown Causes	20:00	20:06	6
7/16/2022	36.50	Unknown Causes	20:06	20:12	6
7/16/2022	28.23	Unknown Causes	20:12	20:18	6
7/16/2022	28.01	Unknown Causes	20:18	20:24	6
7/16/2022	23.42	Unknown Causes	20:24	20:30	6
7/16/2022	19.40	Unknown Causes	20:30	20:36	6
7/16/2022	17.03	Unknown Causes	20:36	20:42	6
7/16/2022	16.51	Unknown Causes	20:42	20:48	6
7/16/2022	16.40	Unknown Causes	20:48	20:54	6
7/16/2022	19.00	Unknown Causes	20:54	21:00	6
7/16/2022	15.17	Unknown Causes	21:00	21:06	6
7/16/2022	15.09	Unknown Causes	21:06	21:12	6
7/16/2022	16.00	Unknown Causes	21:12	21:18	6
7/16/2022	17.46	Unknown Causes	21:18	21:24	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
7/16/2022	22.28	Unknown Causes	21:24	21:30	6
7/16/2022	16.32	Unknown Causes	21:30	21:36	6
7/16/2022	18.05	Unknown Causes	22:24	22:30	6
7/16/2022	16.16	Unknown Causes	22:30	22:36	6
7/16/2022	18.22	Unknown Causes	23:06	23:12	6
7/16/2022	16.68	Unknown Causes	23:24	23:30	6
7/16/2022	17.61	Unknown Causes	23:42	23:48	6
7/17/2022	15.45	Unknown Causes	0:42	0:48	6
7/26/2022	16.25	Unknown Causes	1:54	2:00	6
7/28/2022	32.91	Unknown Causes	19:30	19:36	6
7/29/2022	40.87	Unknown Causes	19:54	20:00	6
7/29/2022	37.98	Unknown Causes	20:00	20:06	6
7/29/2022	30.06	Unknown Causes	20:06	20:12	6
8/8/2022	15.11	Firing Issues	22:06	22:12	6
8/8/2022	29.03	Firing Issues	22:12	22:18	6
8/8/2022	27.76	Firing Issues	22:18	22:24	6
8/19/2022	16.78	Unknown Causes	11:18	11:24	6
8/19/2022	18.10	Unknown Causes	11:24	11:30	6
8/30/2022	15.33	Unknown Causes	12:54	13:00	6
8/30/2022	22.81	Unknown Causes	13:00	13:06	6
8/30/2022	32.04	Unknown Causes	13:06	13:12	6
8/30/2022	30.34	Unknown Causes	13:12	13:18	6
10/26/2022	31.96	K4 Ash	4:06	4:12	6
10/26/2022	16.47	K4 Ash	16:24	16:30	6
10/26/2022	17.17	Unknown	17:48	17:54	6
10/26/2022	17.34	Unknown	17:54	18:00	6
11/2/2022	15.43	K5 Ash	20:54	21:00	6
11/2/2022	16.95	K5 Ash	21:00	21:06	6
11/28/2022	16.14	K4 Ash	8:30	8:36	6
12/2/2022	17.81	K4 Ash	20:00	20:06	6
12/2/2022	18.53	K4 Ash	20:06	20:12	6
12/4/2022	16.20	K5 Ash	14:06	14:12	6
12/8/2022	18.29	K5 Ash	8:24	8:30	6
1/1/2023	24.08	Fuel distruption	13:54	13:59	6
1/4/2023	22.86	Unknown	13:36	13:41	6
1/4/2023	18.83	Unknown	13:42	13:47	6
1/23/2023	16.85	Unknown	15:24	15:29	6
1/24/2023	18.49	Unknown	8:30	8:35	6
1/24/2023	15.29	Unknown	8:42	8:47	6
1/24/2023	16.81	Unknown	8:48	8:53	6
1/24/2023	18.76	Unknown	8:54	8:59	6
1/24/2023	33.76	Kiln 5 Cleanout	9:06	9:11	6
1/24/2023	42.89	Kiln 5 Cleanout	9:12	9:17	6
1/24/2023	29.69	Kiln 5 Cleanout	9:18	9:23	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
1/24/2023	29.25	Kiln 5 Cleanout	9:24	9:29	6
1/24/2023	24.36	Kiln 5 Cleanout	9:30	9:35	6
1/24/2023	25.75	Kiln 5 Cleanout	9:36	9:41	6
1/24/2023	24.08	Kiln 5 Cleanout	9:42	9:47	6
1/24/2023	26.53	Kiln 5 Cleanout	9:48	9:53	6
1/24/2023	20.88	Kiln 5 Cleanout	9:54	9:59	6
1/24/2023	22.08	Kiln 5 Cleanout	10:00	10:05	6
1/24/2023	18.05	Kiln 5 Cleanout	10:06	10:11	6
1/24/2023	18.75	Kiln 5 Cleanout	10:12	10:17	6
1/24/2023	17.21	Kiln 5 Cleanout	10:18	10:23	6
1/24/2023	18.11	Kiln 5 Cleanout	10:24	10:29	6
1/24/2023	17.86	Kiln 5 Cleanout	10:30	10:35	6
1/24/2023	19.55	Kiln 5 Cleanout	10:36	10:41	6
1/24/2023	15.85	Kiln 5 Cleanout	10:42	10:47	6
1/24/2023	19.17	Kiln 5 Cleanout	10:48	10:53	6
1/24/2023	23.37	Kiln 5 Cleanout	11:00	11:05	6
1/24/2023	24.15	Kiln 5 Cleanout	11:06	11:11	6
1/24/2023	18.58	Kiln 5 Cleanout	11:12	11:17	6
1/24/2023	15.48	Kiln 5 Cleanout	11:24	11:29	6
1/24/2023	15.92	Kiln 5 Cleanout	12:48	12:53	6
1/24/2023	16.53	Kiln 5 Cleanout	13:00	13:05	6
1/24/2023	15.35	Kiln 5 Cleanout	13:12	13:17	6
1/24/2023	17.98	Kiln 5 Cleanout	13:18	13:23	6
1/24/2023	16.85	Kiln 5 Cleanout	14:36	14:41	6
1/24/2023	21.94	Kiln 5 Cleanout	14:42	14:47	6
1/24/2023	16.85	Kiln 5 Cleanout	14:48	14:53	6
1/24/2023	18.10	Kiln 5 Cleanout	14:54	14:59	6
1/24/2023	16.31	Kiln 5 Cleanout	15:00	15:05	6
1/24/2023	15.42	Kiln 5 Cleanout	15:24	15:29	6
1/24/2023	15.38	Kiln 5 Cleanout	15:30	15:35	6
1/24/2023	15.48	Kiln 5 Cleanout	18:42	18:47	6
1/24/2023	20.06	Kiln 5 Cleanout	18:54	18:59	6
2/2/2023	16.28	Unknown	11:18	11:23	6
2/4/2023	16.90	Kiln 4 Baghouse Maintenance	7:06	7:11	6
2/4/2023	16.30	Kiln 4 Baghouse Maintenance	7:12	7:17	6
2/4/2023	15.54	Kiln 4 Baghouse Maintenance	7:18	7:23	6
2/4/2023	15.07	Kiln 4 Baghouse Maintenance	7:24	7:29	6
2/4/2023	16.11	Kiln 4 Baghouse Maintenance	7:30	7:35	6
2/4/2023	17.90	Kiln 4 Baghouse Maintenance	7:36	7:41	6
2/4/2023	19.00	Kiln 4 Baghouse Maintenance	7:42	7:47	6
2/4/2023	19.12	Kiln 4 Baghouse Maintenance	7:48	7:53	6
2/4/2023	21.54	Kiln 4 Baghouse Maintenance	7:54	7:59	6
2/4/2023	22.45	Kiln 4 Baghouse Maintenance	8:00	8:05	6
2/4/2023	24.64	Kiln 4 Baghouse Maintenance	8:06	8:11	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
2/4/2023	20.24	Kiln 4 Baghouse Maintenance	8:12	8:17	6
2/4/2023	19.29	Kiln 4 Baghouse Maintenance	8:18	8:23	6
2/4/2023	19.21	Kiln 4 Baghouse Maintenance	8:24	8:29	6
2/4/2023	20.28	Kiln 4 Baghouse Maintenance	8:30	8:35	6
2/4/2023	21.18	Kiln 4 Baghouse Maintenance	8:36	8:41	6
2/4/2023	20.03	Kiln 4 Baghouse Maintenance	8:42	8:47	6
2/4/2023	20.82	Kiln 4 Baghouse Maintenance	8:48	8:53	6
2/4/2023	20.82	Kiln 4 Baghouse Maintenance	8:54	8:59	6
2/4/2023	19.69	Kiln 4 Baghouse Maintenance	9:00	9:05	6
2/4/2023	19.34	Kiln 4 Baghouse Maintenance	9:06	9:11	6
2/4/2023	26.83	Kiln 4 Baghouse Maintenance	9:12	9:17	6
2/4/2023	20.84	Kiln 4 Baghouse Maintenance	9:18	9:23	6
2/4/2023	20.66	Kiln 4 Baghouse Maintenance	9:24	9:29	6
2/4/2023	18.19	Kiln 4 Baghouse Maintenance	9:30	9:35	6
2/4/2023	22.61	Kiln 4 Baghouse Maintenance	9:36	9:41	6
2/4/2023	25.15	Kiln 4 Baghouse Maintenance	9:42	9:47	6
2/4/2023	24.68	Kiln 4 Baghouse Maintenance	9:48	9:53	6
2/4/2023	22.80	Kiln 4 Baghouse Maintenance	9:54	9:59	6
2/4/2023	20.42	Kiln 4 Baghouse Maintenance	10:00	10:05	6
2/4/2023	16.34	Kiln 4 Baghouse Maintenance	10:06	10:11	6
2/4/2023	18.79	Kiln 4 Baghouse Maintenance	10:12	10:17	6
2/4/2023	20.37	Kiln 4 Baghouse Maintenance	10:18	10:23	6
2/4/2023	17.94	Kiln 4 Baghouse Maintenance	10:24	10:29	6
2/4/2023	19.61	Kiln 4 Baghouse Maintenance	10:30	10:35	6
2/4/2023	20.54	Kiln 4 Baghouse Maintenance	10:36	10:41	6
2/4/2023	18.59	Kiln 4 Baghouse Maintenance	10:42	10:47	6
2/4/2023	17.32	Kiln 4 Baghouse Maintenance	10:48	10:53	6
2/4/2023	18.83	Kiln 4 Baghouse Maintenance	10:54	10:59	6
2/4/2023	18.82	Kiln 4 Baghouse Maintenance	11:00	11:05	6
2/4/2023	22.25	Kiln 4 Baghouse Maintenance	11:06	11:11	6
2/4/2023	17.33	Kiln 4 Baghouse Maintenance	11:12	11:17	6
2/4/2023	16.22	Kiln 4 Baghouse Maintenance	11:18	11:23	6
2/4/2023	18.41	Kiln 4 Baghouse Maintenance	11:24	11:29	6
2/4/2023	19.31	Kiln 4 Baghouse Maintenance	11:30	11:35	6
2/4/2023	22.26	Kiln 4 Baghouse Maintenance	11:36	11:41	6
2/4/2023	28.35	Kiln 4 Baghouse Maintenance	11:42	11:47	6
2/4/2023	25.63	Kiln 4 Baghouse Maintenance	11:48	11:53	6
2/4/2023	23.66	Kiln 4 Baghouse Maintenance	11:54	11:59	6
2/4/2023	24.02	Kiln 4 Baghouse Maintenance	12:00	12:05	6
2/4/2023	27.93	Kiln 4 Baghouse Maintenance	12:06	12:11	6
2/4/2023	25.04	Kiln 4 Baghouse Maintenance	12:12	12:17	6
2/4/2023	24.04	Kiln 4 Baghouse Maintenance	12:18	12:23	6
2/4/2023	24.06	Kiln 4 Baghouse Maintenance	12:24	12:29	6
2/4/2023	23.83	Kiln 4 Baghouse Maintenance	12:30	12:35	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
2/4/2023	23.05	Kiln 4 Baghouse Maintenance	12:36	12:41	6
2/4/2023	22.68	Kiln 4 Baghouse Maintenance	12:42	12:47	6
2/4/2023	22.93	Kiln 4 Baghouse Maintenance	12:48	12:53	6
2/4/2023	24.36	Kiln 4 Baghouse Maintenance	12:54	12:59	6
2/4/2023	25.14	Kiln 4 Baghouse Maintenance	13:00	13:05	6
2/4/2023	25.67	Kiln 4 Baghouse Maintenance	13:06	13:11	6
2/4/2023	25.18	Kiln 4 Baghouse Maintenance	13:12	13:17	6
2/4/2023	26.94	Kiln 4 Baghouse Maintenance	13:18	13:23	6
2/4/2023	25.59	Kiln 4 Baghouse Maintenance	13:24	13:29	6
2/4/2023	25.74	Kiln 4 Baghouse Maintenance	13:30	13:35	6
2/4/2023	24.13	Kiln 4 Baghouse Maintenance	13:36	13:41	6
2/4/2023	23.22	Kiln 4 Baghouse Maintenance	13:42	13:47	6
2/4/2023	22.89	Kiln 4 Baghouse Maintenance	13:48	13:53	6
2/4/2023	22.21	Kiln 4 Baghouse Maintenance	13:54	13:59	6
2/4/2023	20.37	Kiln 4 Baghouse Maintenance	14:00	14:05	6
2/4/2023	17.98	Kiln 4 Baghouse Maintenance	14:06	14:11	6
2/4/2023	19.56	Kiln 4 Baghouse Maintenance	14:12	14:17	6
2/4/2023	18.51	Kiln 4 Baghouse Maintenance	14:18	14:23	6
2/4/2023	15.71	Unknown	18:06	18:11	6
2/5/2023	16.36	Unknown	0:06	0:11	6
2/6/2023	16.96	Unknown	20:18	20:23	6
2/7/2023	15.76	Unknown	16:24	16:29	6
2/8/2023	16.87	Unknown	3:30	3:35	6
2/9/2023	20.59	Unknown	0:42	0:47	6
2/10/2023	34.59	Kiln 5 Startup	19:06	19:11	6
2/10/2023	28.31	Kiln 5 Startup	19:12	19:17	6
2/10/2023	22.07	Kiln 5 Startup	19:18	19:23	6
2/22/2023	17.61	Kiln 5 ESP Bank Issues	3:18	3:23	6
2/22/2023	19.06	Kiln 5 ESP Bank Issues	3:24	3:29	6
2/22/2023	34.62	Kiln 5 ESP Bank Issues	3:30	3:35	6
2/22/2023	34.55	Kiln 5 ESP Bank Issues	3:36	3:41	6
2/22/2023	29.04	Kiln 5 ESP Bank Issues	3:42	3:47	6
2/22/2023	27.22	Kiln 5 ESP Bank Issues	3:48	3:53	6
2/22/2023	26.03	Kiln 5 ESP Bank Issues	3:54	3:59	6
2/22/2023	23.85	Kiln 5 ESP Bank Issues	4:00	4:05	6
2/22/2023	23.26	Kiln 5 ESP Bank Issues	4:06	4:11	6
2/22/2023	18.31	Kiln 5 ESP Bank Issues	4:12	4:17	6
2/22/2023	19.33	Kiln 5 ESP Bank Issues	4:18	4:23	6
2/22/2023	16.85	Kiln 5 ESP Bank Issues	4:24	4:29	6
2/22/2023	17.15	Kiln 5 ESP Bank Issues	4:30	4:35	6
2/22/2023	15.08	Kiln 5 ESP Bank Issues	4:36	4:41	6
2/24/2023	24.61	Kiln 5 Cleanout	11:06	11:11	6
2/24/2023	28.86	Kiln 5 Cleanout	11:12	11:17	6
2/24/2023	38.38	Kiln 5 Cleanout	11:18	11:23	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
2/24/2023	16.78	Kiln 5 Cleanout	11:24	11:29	6
2/24/2023	18.39	Kiln 5 Cleanout	11:30	11:35	6
2/24/2023	20.49	Kiln 5 Cleanout	11:42	11:47	6
3/3/2023	15.93	Unknown	8:12	8:17	6
3/3/2023	19.04	Unknown	12:42	12:47	6
3/3/2023	16.99	Unknown	17:48	17:53	6
3/3/2023	17.64	Unknown	18:12	18:17	6
3/3/2023	16.47	Unknown	20:48	20:53	6
3/3/2023	21.25	Unknown	22:12	22:17	6
3/3/2023	15.26	Unknown	23:12	23:17	6
3/3/2023	18.14	Unknown	23:36	23:41	6
3/4/2023	19.44	Unknown	0:06	0:11	6
3/4/2023	18.34	Unknown	1:24	1:29	6
3/4/2023	18.58	Unknown	2:06	2:11	6
3/4/2023	17.68	Unknown	2:48	2:53	6
3/4/2023	18.53	Unknown	4:18	4:23	6
3/4/2023	17.91	Unknown	5:12	5:17	6
3/4/2023	17.88	Unknown	5:24	5:29	6
3/4/2023	15.73	Unknown	5:30	5:35	6
3/4/2023	16.40	Unknown	7:24	7:29	6
3/4/2023	17.97	Unknown	8:54	8:59	6
3/4/2023	16.78	Unknown	10:54	10:59	6
3/4/2023	16.54	Unknown	11:30	11:35	6
3/4/2023	22.04	Unknown	14:06	14:11	6
3/4/2023	17.15	Unknown	16:54	16:59	6
3/4/2023	16.19	Unknown	17:00	17:05	6
3/4/2023	15.02	Unknown	17:24	17:29	6
3/4/2023	22.96	Unknown	18:18	18:23	6
3/4/2023	16.94	Unknown	18:24	18:29	6
3/4/2023	23.18	Unknown	23:06	23:11	6
3/5/2023	15.27	Unknown	0:42	0:47	6
3/5/2023	17.81	Unknown	4:00	4:05	6
3/5/2023	16.02	Unknown	5:18	5:23	6
3/5/2023	16.44	Unknown	5:30	5:35	6
3/5/2023	16.44	Unknown	6:18	6:23	6
3/5/2023	17.21	Unknown	6:36	6:41	6
3/5/2023	15.52	Unknown	7:12	7:17	6
3/5/2023	16.87	Unknown	7:18	7:23	6
3/5/2023	15.59	Unknown	7:24	7:29	6
3/5/2023	16.50	Unknown	7:42	7:47	6
3/5/2023	15.02	Unknown	9:12	9:17	6
3/5/2023	23.05	Unknown	9:30	9:35	6
3/5/2023	15.56	Unknown	10:12	10:17	6
3/5/2023	15.36	Unknown	10:48	10:53	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
3/5/2023	15.76	Unknown	10:54	10:59	6
3/5/2023	15.03	Unknown	11:30	11:35	6
3/5/2023	16.75	Unknown	11:36	11:41	6
3/5/2023	15.59	Unknown	11:42	11:47	6
3/5/2023	15.71	Unknown	13:42	13:47	6
3/5/2023	16.71	Unknown	15:48	15:53	6
3/5/2023	15.42	Unknown	15:54	15:59	6
3/5/2023	16.42	Unknown	17:18	17:23	6
3/5/2023	15.64	Unknown	17:36	17:41	6
3/5/2023	15.82	Unknown	18:06	18:11	6
3/5/2023	15.09	Unknown	19:54	19:59	6
3/5/2023	15.88	Unknown	22:48	22:53	6
3/5/2023	15.11	Unknown	23:18	23:23	6
3/5/2023	31.48	Kiln 5 ESP Bank Issues	23:36	23:41	6
3/5/2023	33.92	Kiln 5 ESP Bank Issues	23:42	23:47	6
3/5/2023	32.39	Kiln 5 ESP Bank Issues	23:48	23:53	6
3/5/2023	30.50	Kiln 5 ESP Bank Issues	23:54	23:59	6
3/6/2023	28.07	Kiln 5 ESP Bank Issues	0:00	0:05	6
3/6/2023	28.20	Kiln 5 ESP Bank Issues	0:06	0:11	6
3/6/2023	24.51	Kiln 5 ESP Bank Issues	0:12	0:17	6
3/6/2023	24.10	Kiln 5 ESP Bank Issues	0:18	0:23	6
3/6/2023	20.90	Kiln 5 ESP Bank Issues	0:24	0:29	6
3/6/2023	20.65	Kiln 5 ESP Bank Issues	0:30	0:35	6
3/6/2023	16.46	Kiln 5 ESP Bank Issues	0:36	0:41	6
3/9/2023	15.58	Kiln 5 ESP Bank Buildup	4:24	4:29	6
3/9/2023	18.62	Kiln 5 ESP Bank Buildup	5:06	5:11	6
3/10/2023	17.48	Kiln 5 Coal Mill Issues	2:24	2:29	6
3/10/2023	20.02	Kiln 5 Coal Mill Issues	2:54	2:59	6
3/12/2023	16.96	Unknown	16:36	16:41	6
3/13/2023	18.63	Kiln 5 Cleanout	15:18	15:23	6
3/13/2023	17.61	Kiln 5 Cleanout	16:00	16:05	6
3/13/2023	17.05	Kiln 5 Cleanout	16:06	16:11	6
3/17/2023	18.13	Kiln 4 Cleanout	13:42	13:47	6
3/17/2023	18.13	Kiln 4 Cleanout	14:24	14:29	6
3/17/2023	20.68	Kiln 4 Cleanout	15:48	15:53	6
3/20/2023	32.21	Kiln 5 ESP Bank Issues	12:36	12:41	6
3/20/2023	28.10	Kiln 5 ESP Bank Issues	12:42	12:47	6
3/20/2023	20.53	Kiln 5 ESP Bank Issues	12:48	12:53	6
3/20/2023	22.34	Kiln 5 ESP Bank Issues	12:54	12:59	6
3/22/2023	15.85	Unknown	8:06	8:11	6
3/22/2023	18.24	Unknown	8:12	8:17	6
3/22/2023	16.86	Unknown	14:48	14:53	6
3/22/2023	26.20	Unknown	15:00	15:05	6
3/22/2023	17.81	Unknown	19:24	19:29	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
3/23/2023	19.09	Airlock Kicked K5	4:00	4:05	6
3/23/2023	20.61	Unknown	6:18	6:23	6
3/23/2023	16.32	Unknown	7:24	7:29	6
3/23/2023	15.13	Unknown	7:36	7:41	6
3/23/2023	16.39	Unknown	7:48	7:53	6
3/23/2023	15.60	Unknown	7:54	7:59	6
3/23/2023	15.49	Unknown	8:00	8:05	6
3/23/2023	16.05	Unknown	8:18	8:23	6
3/23/2023	19.39	Unknown	8:24	8:29	6
3/23/2023	21.20	Unknown	8:30	8:35	6
3/23/2023	15.35	Unknown	8:42	8:47	6
3/23/2023	16.90	Unknown	22:00	22:05	6
3/24/2023	29.54	Shooting Kiln 5	11:06	11:11	6
3/24/2023	22.31	Shooting Kiln 5	11:12	11:17	6
3/24/2023	15.22	Kiln 5 ID Fan Issues Startup	12:48	12:53	6
3/24/2023	15.60	Kiln 5 ID Fan Issues Startup	13:00	13:05	6
3/24/2023	15.19	Kiln 5 ID Fan Issues Startup	13:06	13:11	6
3/24/2023	17.67	Kiln 5 ID Fan Issues Startup	13:12	13:17	6
3/24/2023	19.85	Kiln 5 ID Fan Issues Startup	13:18	13:23	6
3/24/2023	18.06	Kiln 5 ID Fan Issues Startup	13:24	13:29	6
3/24/2023	17.96	Kiln 5 ID Fan Issues Startup	13:30	13:35	6
3/24/2023	19.74	Kiln 5 ID Fan Issues Startup	13:36	13:41	6
3/24/2023	17.94	Kiln 5 ID Fan Issues Startup	13:42	13:47	6
3/24/2023	18.21	Kiln 5 ID Fan Issues Startup	13:48	13:53	6
3/24/2023	28.89	Kiln 5 ID Fan Issues Startup	13:54	13:59	6
3/24/2023	22.13	Kiln 5 ID Fan Issues Startup	14:00	14:05	6
3/24/2023	19.77	Kiln 5 ID Fan Issues Startup	14:06	14:11	6
3/24/2023	31.75	Kiln 5 ID Fan Issues Startup	14:12	14:17	6
3/24/2023	30.01	Kiln 5 ID Fan Issues Startup	14:18	14:23	6
3/24/2023	33.98	Kiln 5 ID Fan Issues Startup	14:24	14:29	6
3/25/2023	16.12	Unknown	4:36	4:41	6
3/25/2023	15.27	Unknown	4:42	4:47	6
3/31/2023	16.25	Shooting Kiln 5	8:42	8:47	6
3/31/2023	16.77	Shooting Kiln 5	8:48	8:53	6
3/31/2023	17.23	Shooting Kiln 5	9:00	9:05	6
3/31/2023	29.15	Shooting Kiln 5	9:30	9:35	6
3/31/2023	19.82	Shooting Kiln 5	9:36	9:41	6
3/31/2023	20.91	Kiln 5 Startup	14:18	14:23	6
3/31/2023	29.06	Kiln 5 Startup	14:24	14:29	6
3/31/2023	18.34	Kiln 5 Startup	15:06	15:11	6
3/31/2023	17.84	Unknown	22:36	22:41	6
3/31/2023	25.13	Unknown	22:42	22:47	6
3/31/2023	15.34	Unknown	23:24	23:29	6
3/31/2023	22.25	Unknown	23:30	23:35	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
4/2/2023	15.92	Unknown	9:42	9:47	6
4/3/2023	25.18	Ash removal Kiln 5	13:24	13:29	6
4/3/2023	43.42	Ash removal Kiln 5	13:30	13:35	6
4/3/2023	51.30	Ash removal Kiln 5	13:36	13:41	6
4/3/2023	35.69	Ash removal Kiln 5	13:42	13:47	6
4/3/2023	29.09	Ash removal Kiln 5	13:48	13:53	6
4/3/2023	31.49	Ash removal Kiln 5	13:54	13:59	6
4/3/2023	24.82	Ash removal Kiln 5	14:00	14:05	6
4/3/2023	27.91	Ash removal Kiln 5	14:06	14:11	6
4/3/2023	25.19	Ash removal Kiln 5	14:12	14:17	6
4/3/2023	21.93	Ash removal Kiln 5	14:18	14:23	6
4/3/2023	19.19	Ash removal Kiln 5	14:24	14:29	6
4/3/2023	18.90	Ash removal Kiln 5	14:30	14:35	6
4/3/2023	16.95	Ash removal Kiln 5	14:36	14:41	6
4/3/2023	16.47	Ash removal Kiln 5	14:42	14:47	6
4/3/2023	17.11	Ash removal Kiln 5	14:48	14:53	6
4/3/2023	16.89	Ash removal Kiln 5	14:54	14:59	6
4/5/2023	16.51	Unknown	12:54	12:59	6
4/5/2023	19.80	Unknown	13:00	13:05	6
4/6/2023	15.73	Ash removal Kiln 5	7:54	7:59	6
4/6/2023	16.39	Ash removal Kiln 5	9:42	9:47	6
4/6/2023	43.87	Ash removal Kiln 5	13:42	13:47	6
4/6/2023	32.15	Ash removal Kiln 5	13:48	13:53	6
4/6/2023	20.28	Ash removal Kiln 5	13:54	13:59	6
4/6/2023	20.16	Ash removal Kiln 5	14:00	14:05	6
4/6/2023	31.49	Ash removal Kiln 5	14:06	14:11	6
4/9/2023	15.42	Unknown	4:30	4:35	6
4/10/2023	16.99	Unknown	9:42	9:47	6
4/15/2023	20.16	Unknown	10:48	10:53	6
4/16/2023	25.35	Ash ring collapse	17:30	17:35	6
4/16/2023	16.46	Ash ring collapse	17:36	17:41	6
4/21/2023	35.93	Ash removal Kiln 5	10:06	10:11	6
4/21/2023	16.26	Ash removal Kiln 5	10:12	10:17	6
4/21/2023	16.53	Ash removal Kiln 5	13:48	13:53	6
4/22/2023	15.23	Unknown	9:36	9:41	6
4/23/2023	21.27	Unknown	23:54	23:59	6
4/24/2023	25.93	Brick collapse/ID fan issues	2:48	2:53	6
4/25/2023	20.84	Unknown	19:00	19:05	6
4/25/2023	18.69	Unknown	19:24	19:29	6
4/25/2023	16.27	Unknown	19:30	19:35	6
4/25/2023	19.54	Unknown	19:42	19:47	6
4/25/2023	25.41	Unknown	19:48	19:53	6
4/26/2023	16.12	Unknown	9:36	9:41	6
4/27/2023	22.69	Ash removal Kiln 5	11:00	11:05	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
4/30/2023	30.92	Kiln 5 ESP bank down	7:06	7:11	6
4/30/2023	50.69	Kiln 5 ESP bank down	7:12	7:17	6
4/30/2023	46.77	Kiln 5 ESP bank down	7:18	7:23	6
4/30/2023	34.33	Kiln 5 ESP bank down	7:24	7:29	6
4/30/2023	31.18	Kiln 5 ESP bank down	7:30	7:35	6
4/30/2023	28.46	Kiln 5 ESP bank down	7:36	7:41	6
4/30/2023	29.04	Kiln 5 ESP bank down	7:42	7:47	6
4/30/2023	24.12	Kiln 5 ESP bank down	7:48	7:53	6
4/30/2023	23.66	Kiln 5 ESP bank down	7:54	7:59	6
4/30/2023	22.41	Kiln 5 ESP bank down	8:00	8:05	6
4/30/2023	21.76	Kiln 5 ESP bank down	8:06	8:11	6
4/30/2023	21.29	Kiln 5 ESP bank down	8:12	8:17	6
4/30/2023	21.42	Kiln 5 ESP bank down	8:18	8:23	6
4/30/2023	29.94	Kiln 5 ESP bank down	8:24	8:29	6
4/30/2023	22.32	Kiln 5 ESP bank down	8:30	8:35	6
4/30/2023	17.37	Kiln 5 ESP bank down	8:36	8:41	6
4/30/2023	17.14	Kiln 5 ESP bank down	9:36	9:41	6
5/1/2023	26.93	Kiln 5 ESP bank down	12:18	12:23	6
5/1/2023	16.59	Kiln 5 ESP bank down	14:48	14:53	6
5/1/2023	22.58	Kiln 5 ESP bank down	19:30	19:35	6
5/1/2023	25.72	Kiln 5 ESP bank down	19:36	19:41	6
5/1/2023	22.67	Kiln 5 ESP bank down	19:42	19:47	6
5/1/2023	18.41	Kiln 5 ESP bank down	19:48	19:53	6
5/1/2023	19.38	Kiln 5 ESP bank down	19:54	19:59	6
5/1/2023	18.01	Kiln 5 ESP bank down	20:00	20:05	6
5/1/2023	18.17	Kiln 5 ESP bank down	20:06	20:11	6
5/1/2023	17.85	Kiln 5 ESP bank down	20:12	20:17	6
5/1/2023	17.85	Kiln 5 ESP bank down	20:18	20:23	6
5/1/2023	15.81	Kiln 5 ESP bank down	20:24	20:29	6
5/1/2023	15.42	Kiln 5 ESP bank down	20:30	20:35	6
5/1/2023	15.84	Kiln 5 ESP bank down	20:36	20:41	6
5/1/2023	16.17	Kiln 5 ESP bank down	20:42	20:47	6
5/1/2023	15.23	Kiln 5 ESP bank down	20:54	20:59	6
5/1/2023	16.44	Kiln 5 ESP bank down	20:54	20:59	6
5/1/2023	16.46	Kiln 5 ESP bank down	20:54	20:59	6
5/1/2023	17.42	Kiln 5 ESP bank down	21:24	21:29	6
5/3/2023	15.92	Dirty Monitor Lense	9:36	9:41	6
5/3/2023	19.93	Dirty Monitor Lense	10:12	10:17	6
5/3/2023	19.54	Dirty Monitor Lense	12:24	12:29	6
5/3/2023	15.90	Dirty Monitor Lense	12:36	12:41	6
5/3/2023	22.37	Dirty Monitor Lense	13:00	13:05	6
5/3/2023	16.08	Dirty Monitor Lense	13:30	13:35	6
5/3/2023	29.27	Dirty Monitor Lense	13:36	13:41	6
5/3/2023	19.13	Dirty Monitor Lense	13:54	13:59	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
5/3/2023	19.31	Dirty Monitor Lense	14:00	14:05	6
5/4/2023	19.69	Unknown	9:36	9:41	6
5/5/2023	15.37	Kiln 5 ESP bank down	0:36	0:41	6
5/5/2023	46.46	Kiln 5 ESP bank down	0:42	0:47	6
5/5/2023	46.92	Kiln 5 ESP bank down	0:48	0:53	6
5/5/2023	15.10	Kiln 5 ESP bank down	0:54	0:59	6
5/5/2023	18.23	Ash removal Kiln 5	8:36	8:41	6
5/5/2023	34.21	Ash removal Kiln 5	8:42	8:47	6
5/5/2023	34.55	Ash removal Kiln 5	8:48	8:53	6
5/5/2023	19.11	Ash removal Kiln 5	12:06	12:11	6
5/5/2023	41.65	Ash removal Kiln 5	12:36	12:41	6
5/5/2023	47.59	Ash removal Kiln 5	12:42	12:47	6
5/5/2023	46.93	Ash removal Kiln 5	12:48	12:53	6
5/5/2023	33.32	Ash removal Kiln 5	12:54	12:59	6
5/5/2023	31.56	Ash removal Kiln 5	13:00	13:05	6
5/5/2023	44.21	Ash removal Kiln 5	13:06	13:11	6
5/5/2023	30.71	Ash removal Kiln 5	13:18	13:23	6
5/5/2023	42.67	Ash removal Kiln 5	13:24	13:29	6
5/5/2023	16.22	Ash removal Kiln 5	13:30	13:35	6
5/7/2023	18.57	Unknown	22:12	22:17	6
5/9/2023	44.92	Kiln 5 ESP bank down	2:24	2:29	6
5/9/2023	41.95	Kiln 5 ESP bank down	2:30	2:35	6
5/9/2023	21.99	Kiln 5 ESP bank down	2:36	2:41	6
5/9/2023	26.05	Kiln 5 ESP bank down	2:42	2:47	6
5/9/2023	18.28	Kiln 5 ESP bank down	2:48	2:53	6
5/9/2023	20.08	Kiln 5 ESP bank down	2:54	2:59	6
5/9/2023	15.72	Kiln 5 ESP bank down	3:00	3:05	6
5/9/2023	18.60	Kiln 5 ESP bank down	3:06	3:11	6
5/9/2023	15.18	Kiln 5 ESP bank down	3:12	3:17	6
5/9/2023	17.13	Kiln 5 ESP bank down	3:18	3:23	6
5/10/2023	16.82	Unknown	11:00	11:05	6
5/10/2023	18.87	Unknown	20:00	20:05	6
5/11/2023	15.28	Unknown	1:06	1:11	6
5/11/2023	15.91	Unknown	2:54	2:59	6
5/11/2023	15.92	Unknown	3:12	3:17	6
5/11/2023	16.09	Unknown	3:36	3:41	6
5/11/2023	15.04	Unknown	3:48	3:53	6
5/11/2023	15.27	Unknown	3:54	3:59	6
5/11/2023	15.51	Unknown	4:00	4:05	6
5/11/2023	15.18	Unknown	4:30	4:35	6
5/11/2023	15.88	Unknown	5:06	5:11	6
5/16/2023	15.23	ID fan issues	9:30	9:35	6
5/16/2023	17.75	ID fan issues	12:18	12:23	6
5/16/2023	18.63	ID fan issues	12:24	12:29	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
5/16/2023	31.79	ID fan issues	12:30	12:35	6
5/16/2023	21.12	ID fan issues	12:36	12:41	6
5/19/2023	18.23	Unknown	4:06	4:11	6
5/19/2023	15.48	Unknown	9:30	9:35	6
5/20/2023	15.78	Unknown	9:30	9:35	6
5/22/2023	17.51	Unknown	10:48	10:53	6
5/23/2023	16.41	Unknown	9:30	9:35	6
5/24/2023	16.68	Unknown	9:30	9:35	6
5/25/2023	33.17	Unknown	10:24	10:29	6
5/25/2023	21.99	Unknown	10:30	10:35	6
5/25/2023	22.98	Unknown	10:36	10:41	6
5/25/2023	16.94	Unknown	10:42	10:47	6
5/25/2023	20.57	Unknown	10:48	10:53	6
5/25/2023	16.07	Unknown	10:54	10:59	6
5/25/2023	19.38	Unknown	11:00	11:05	6
5/25/2023	15.03	Unknown	11:06	11:11	6
5/25/2023	21.24	Unknown	11:12	11:17	6
5/25/2023	16.36	Unknown	11:24	11:29	6
5/25/2023	15.83	Unknown	11:30	11:35	6
5/27/2023	17.03	Unknown	9:30	9:35	6
5/28/2023	17.02	Kiln 5 ESP bank down	5:30	5:35	6
5/28/2023	34.33	Kiln 5 ESP bank down	5:36	5:41	6
5/28/2023	34.15	Kiln 5 ESP bank down	5:42	5:47	6
5/28/2023	24.67	Kiln 5 ESP bank down	5:48	5:53	6
5/28/2023	24.87	Kiln 5 ESP bank down	5:54	5:59	6
5/28/2023	21.28	Kiln 5 ESP bank down	6:00	6:05	6
5/28/2023	20.45	Kiln 5 ESP bank down	6:06	6:11	6
5/28/2023	19.41	Kiln 5 ESP bank down	6:12	6:17	6
5/28/2023	17.33	Kiln 5 ESP bank down	6:18	6:23	6
5/28/2023	17.29	Kiln 5 ESP bank down	9:30	9:35	6
5/29/2023	30.42	Unknown	0:24	0:29	6
5/29/2023	15.35	Unknown	9:30	9:35	6
5/29/2023	23.69	Unknown	16:00	16:05	6
5/29/2023	19.01	Unknown	20:42	20:47	6
6/2/2023	32.04	Kiln 5 Startup	16:12	16:17	6
6/2/2023	60.79	Kiln 5 Startup	16:18	16:23	6
6/2/2023	52.85	Kiln 5 Startup	16:24	16:29	6
6/2/2023	40.42	Kiln 5 Startup	16:30	16:35	6
6/2/2023	48.62	Kiln 5 Startup	16:36	16:41	6
6/2/2023	37.50	Kiln 5 Startup	16:42	16:47	6
6/2/2023	32.06	Kiln 5 Startup	16:48	16:53	6
6/2/2023	29.83	Kiln 5 Startup	16:54	16:59	6
6/2/2023	30.91	Kiln 5 Startup	17:00	17:05	6
6/2/2023	25.88	Kiln 5 Startup	17:06	17:11	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
6/2/2023	25.95	Kiln 5 Startup	17:12	17:17	6
6/2/2023	20.66	Kiln 5 Startup	17:18	17:23	6
6/2/2023	19.68	Kiln 5 Startup	17:24	17:29	6
6/2/2023	20.40	Kiln 5 Startup	17:30	17:35	6
6/2/2023	19.07	Kiln 5 Startup	17:36	17:41	6
6/2/2023	16.54	Kiln 5 Startup	17:42	17:47	6
6/2/2023	16.23	Kiln 5 Startup	17:48	17:53	6
6/2/2023	16.08	Kiln 5 Startup	17:54	17:59	6
6/2/2023	17.85	Kiln 5 Startup	18:00	18:05	6
6/2/2023	18.95	Kiln 5 Startup	18:18	18:23	6
6/2/2023	15.08	Kiln 5 Startup	18:24	18:29	6
6/2/2023	19.81	Kiln 5 Startup	21:36	21:41	6
6/5/2023	18.56	Unknown	8:18	8:23	6
6/5/2023	40.34	Unknown	8:24	8:29	6
6/5/2023	39.94	Unknown	8:30	8:35	6
6/5/2023	39.13	Unknown	8:36	8:41	6
6/5/2023	35.11	Unknown	8:42	8:47	6
6/5/2023	35.62	Unknown	8:48	8:53	6
6/5/2023	22.58	Unknown	8:54	8:59	6
6/11/2023	16.66	Unknown	23:00	23:05	6
6/11/2023	17.52	Unknown	23:06	23:11	6
6/12/2023	15.80	Unknown	9:24	9:29	6
6/14/2023	17.49	Unknown	10:00	10:05	6
6/16/2023	16.43	Unknown	9:24	9:29	6
6/19/2023	20.99	Unknown	9:30	9:35	6
6/20/2023	17.15	Unknown	9:24	9:29	6
6/20/2023	15.90	Unknown	10:24	10:29	6
6/20/2023	31.87	Unknown	16:48	16:53	6
6/21/2023	17.09	Cleaning cooler grates	7:48	7:53	6
6/21/2023	20.85	Cleaning cooler grates	7:54	7:59	6
6/21/2023	33.46	Cleaning cooler grates	10:18	10:23	6
6/21/2023	22.79	Cleaning cooler grates	16:06	16:11	6
6/21/2023	49.38	Cleaning cooler grates	16:12	16:17	6
6/21/2023	70.34	Cleaning cooler grates	16:18	16:23	6
6/21/2023	58.61	Cleaning cooler grates	16:24	16:29	6
6/21/2023	48.58	Cleaning cooler grates	16:30	16:35	6
6/21/2023	16.07	Cleaning cooler grates	16:36	16:41	6
6/22/2023	15.23	Unknown	3:48	3:53	6
6/22/2023	18.59	Unknown	8:18	8:23	6
6/22/2023	18.69	Unknown	8:24	8:29	6
6/22/2023	16.97	Unknown	17:24	17:29	6
6/22/2023	16.72	Unknown	17:30	17:35	6
6/22/2023	15.51	Unknown	17:48	17:53	6
6/24/2023	21.72	ID fan issues	5:36	5:41	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
6/24/2023	18.26	ID fan issues	16:06	16:11	6
6/25/2023	35.04	Cooling tower door left open	11:00	11:05	6
6/25/2023	28.74	Cooling tower door left open	11:06	11:11	6
6/26/2023	31.13	Heavy rain/lense dirty	11:42	11:47	6
6/26/2023	17.19	Heavy rain/lense dirty	11:48	11:53	6
6/26/2023	15.33	Heavy rain/lense dirty	13:24	13:29	6
6/26/2023	18.22	Kiln 5 ESP bank down	17:12	17:17	6
6/26/2023	22.74	Kiln 5 ESP bank down	17:42	17:47	6
6/26/2023	15.34	Kiln 5 ESP bank down	17:54	17:59	6
6/26/2023	19.09	Kiln 5 ESP bank down	18:06	18:11	6
6/27/2023	23.86	Unknown	14:42	14:47	6
6/27/2023	23.67	Unknown	14:48	14:53	6
6/27/2023	17.19	Unknown	14:54	14:59	6
6/27/2023	22.85	Unknown	22:30	22:35	6
6/28/2023	17.72	Unknown	16:06	16:11	6
6/29/2023	15.15	Unknown	16:06	16:11	6
7/4/2023	24.53	Kiln 5 ESP Bank Failure	13:48	13:53	6
7/5/2023	20.89	Ash Removal Kiln 5	16:48	16:53	6
7/5/2023	15.04	Ash Removal Kiln 5	17:30	17:35	6
7/6/2023	16.79	Moisture on Lens	13:06	13:11	6
7/6/2023	28.52	Moisture on Lens	13:12	13:17	6
7/6/2023	22.64	Moisture on Lens	13:18	13:23	6
7/6/2023	15.86	Moisture on Lens	13:24	13:29	6
7/12/2023	29.68	Moisture on Lens	6:00	6:05	6
7/12/2023	16.74	Moisture on Lens	6:06	6:11	6
7/12/2023	15.59	Moisture on Lens	10:30	10:35	6
7/13/2023	33.58	Unknown	10:36	10:41	6
7/13/2023	24.18	Unknown	10:42	10:47	6
7/13/2023	23.61	Kiln 5 ESP Bank Failure	11:48	11:53	6
7/13/2023	22.32	Kiln 5 ESP Bank Failure	12:00	12:05	6
7/13/2023	23.15	Kiln 5 ESP Bank Failure	12:06	12:11	6
7/13/2023	17.86	Kiln 5 ESP Bank Failure	12:12	12:17	6
7/13/2023	23.39	Kiln 5 ESP Bank Failure	12:18	12:23	6
7/13/2023	16.38	Kiln 5 ESP Bank Failure	12:24	12:29	6
7/13/2023	17.19	Kiln 5 ESP Bank Failure	12:36	12:41	6
7/15/2023	20.29	Unknown	19:30	19:35	6
7/15/2023	20.93	Unknown	19:36	19:41	6
7/16/2023	32.79	Kiln 5 ESP Bank Failure	17:48	17:53	6
7/16/2023	29.97	Kiln 5 ESP Bank Failure	17:54	17:59	6
7/16/2023	26.40	Kiln 5 ESP Bank Failure	18:00	18:05	6
7/16/2023	26.65	Kiln 5 ESP Bank Failure	18:06	18:11	6
7/16/2023	26.14	Kiln 5 ESP Bank Failure	18:12	18:17	6
7/16/2023	23.17	Kiln 5 ESP Bank Failure	18:18	18:23	6
7/17/2023	30.21	Kiln 5 ESP Maintenance	11:00	11:05	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
7/17/2023	34.98	Kiln 5 ESP Maintenance	11:06	11:11	6
7/17/2023	32.00	Kiln 5 ESP Maintenance	11:12	11:17	6
7/17/2023	27.56	Kiln 5 ESP Maintenance	11:18	11:23	6
7/17/2023	15.54	Kiln 5 ESP Maintenance	11:24	11:29	6
7/17/2023	15.06	Kiln 5 ESP Maintenance	11:36	11:41	6
7/17/2023	22.36	Kiln 5 ESP Maintenance	11:42	11:47	6
7/17/2023	23.85	Kiln 5 ESP Maintenance	11:48	11:53	6
7/17/2023	23.09	Kiln 5 ESP Maintenance	11:54	11:59	6
7/18/2023	15.30	Kiln 5 ESP Maintenance	0:30	0:35	6
7/18/2023	27.72	Kiln 5 ESP Bank Failure	6:54	6:59	6
7/18/2023	36.55	Kiln 5 ESP Bank Failure	7:00	7:05	6
7/18/2023	37.54	Kiln 5 ESP Bank Failure	7:06	7:11	6
7/18/2023	38.41	Kiln 5 ESP Bank Failure	7:12	7:17	6
7/18/2023	35.86	Kiln 5 ESP Bank Failure	7:18	7:23	6
7/18/2023	21.57	Kiln 5 ESP Bank Failure	7:24	7:29	6
7/19/2023	19.65	Unknown	11:42	11:47	6
7/20/2023	21.71	Moisture on Lens	16:18	16:23	6
7/20/2023	22.27	Moisture on Lens	16:24	16:29	6
7/20/2023	21.73	Moisture on Lens	16:30	16:35	6
7/20/2023	21.14	Moisture on Lens	16:36	16:41	6
7/20/2023	19.72	Moisture on Lens	16:42	16:47	6
7/20/2023	19.10	Moisture on Lens	16:48	16:53	6
7/20/2023	18.09	Moisture on Lens	16:54	16:59	6
7/20/2023	23.34	Moisture on Lens	18:24	18:29	6
7/20/2023	38.67	Moisture on Lens	18:30	18:35	6
7/20/2023	30.42	Moisture on Lens	18:36	18:41	6
7/21/2023	17.33	Unknown	13:54	13:59	6
7/21/2023	18.23	Unknown	14:00	14:05	6
7/21/2023	17.30	Unknown	14:06	14:11	6
7/21/2023	16.78	Unknown	14:12	14:17	6
7/21/2023	16.36	Unknown	14:18	14:23	6
7/21/2023	16.61	Unknown	14:24	14:29	6
7/21/2023	15.82	Unknown	14:30	14:35	6
7/21/2023	15.27	Unknown	14:36	14:41	6
7/23/2023	22.17	Baghouse Damper Malfunction	16:30	16:35	6
7/25/2023	27.36	Kiln 5 Startup	12:00	12:05	6
7/25/2023	24.12	Kiln 5 Startup	12:06	12:11	6
7/25/2023	18.25	Kiln 5 Startup	12:12	12:17	6
7/25/2023	18.75	Kiln 5 Startup	12:18	12:23	6
7/25/2023	34.97	Kiln 5 Startup	12:24	12:29	6
7/25/2023	25.12	Kiln 5 Startup	12:30	12:35	6
7/25/2023	20.88	Kiln 5 Startup	12:36	12:41	6
7/25/2023	19.43	Kiln 5 Startup	12:42	12:47	6
7/25/2023	24.80	Kiln 5 Startup	12:48	12:53	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
7/25/2023	22.77	Kiln 5 Startup	12:54	12:59	6
7/25/2023	20.47	Kiln 5 Startup	13:00	13:05	6
7/25/2023	18.92	Kiln 5 Startup	13:06	13:11	6
7/25/2023	18.15	Kiln 5 Startup	13:12	13:17	6
7/25/2023	17.07	Kiln 5 Startup	13:18	13:23	6
7/25/2023	15.15	Kiln 5 Startup	13:24	13:29	6
7/26/2023	21.95	Unknown	17:48	17:53	6
7/27/2023	16.12	Kiln 5 ESP Bank Failure	9:54	9:59	6
7/27/2023	15.35	Kiln 5 ESP Bank Failure	10:00	10:05	6
8/2/2023	16.32	Unknown	14:42	14:47	6
8/2/2023	15.39	Unknown	14:48	14:53	6
8/2/2023	15.21	Unknown	15:00	15:05	6
8/7/2023	22.13	Moisture on Lens	10:06	10:11	6
8/7/2023	19.17	Moisture on Lens	10:12	10:17	6
8/11/2023	18.81	Unknown	11:06	11:11	6
8/11/2023	23.07	Unknown	11:12	11:17	6
8/14/2023	15.63	ID Fan Issues	17:36	17:41	6
8/14/2023	26.64	ID Fan Issues	17:42	17:47	6
8/14/2023	17.92	ID Fan Issues	17:48	17:53	6
8/14/2023	21.85	ID Fan Issues	20:18	20:23	6
8/14/2023	34.77	ID Fan Issues	20:24	20:29	6
8/14/2023	35.98	ID Fan Issues	20:30	20:35	6
8/14/2023	33.92	ID Fan Issues	20:36	20:41	6
8/14/2023	28.13	ID Fan Issues	20:42	20:47	6
8/14/2023	22.47	ID Fan Issues	20:48	20:53	6
8/14/2023	19.02	ID Fan Issues	20:54	20:59	6
8/14/2023	18.23	ID Fan Issues	21:00	21:05	6
8/23/2023	37.27	Moisture on Lens	18:18	18:23	6
8/23/2023	18.38	Moisture on Lens	18:24	18:29	6
8/23/2023	17.10	Moisture on Lens	18:30	18:35	6
8/23/2023	15.38	Moisture on Lens	18:36	18:41	6
8/23/2023	20.80	Moisture on Lens	22:30	22:35	6
8/23/2023	19.35	Moisture on Lens	22:36	22:41	6
8/24/2023	15.48	Unknown	20:24	20:29	6
8/24/2023	16.40	Unknown	20:30	20:35	6
8/24/2023	16.24	Unknown	20:36	20:41	6
8/24/2023	16.05	Unknown	20:42	20:47	6
8/24/2023	16.47	Unknown	20:48	20:53	6
8/24/2023	15.31	Unknown	21:00	21:05	6
9/1/2023	29.66	Kiln 5 ESP Bank Failure	10:42	10:47	6
9/1/2023	35.76	Kiln 5 ESP Bank Failure	10:48	10:53	6
9/1/2023	26.94	Kiln 5 ESP Bank Failure	10:54	10:59	6
9/1/2023	15.06	Kiln 5 ESP Bank Failure	11:00	11:05	6
9/1/2023	15.14	Kiln 5 ESP Bank Failure	19:30	19:35	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
9/1/2023	15.27	Kiln 5 ESP Bank Failure	19:36	19:41	6
9/6/2023	19.82	Moisture on Lens	14:30	14:35	6
9/6/2023	16.65	Moisture on Lens	14:36	14:41	6
9/13/2023	18.21	Ash Removal Kiln 5	13:42	13:47	6
9/13/2023	20.61	Ash Removal Kiln 5	13:48	13:53	6
9/13/2023	21.67	Ash Removal Kiln 5	13:54	13:59	6
9/13/2023	21.04	Ash Removal Kiln 5	14:00	14:05	6
9/13/2023	16.25	Ash Removal Kiln 5	14:06	14:11	6
9/13/2023	17.81	Ash Removal Kiln 5	14:12	14:17	6
9/13/2023	20.86	Ash Removal Kiln 5	14:18	14:23	6
9/13/2023	21.71	Ash Removal Kiln 5	14:24	14:29	6
9/13/2023	20.35	Ash Removal Kiln 5	14:30	14:35	6
9/13/2023	17.23	Ash Removal Kiln 5	14:36	14:41	6
9/13/2023	18.23	Ash Removal Kiln 5	21:30	21:35	6
10/13/2023	28.33	Unknown	21:24	21:29	6
10/13/2023	17.46	Unknown	21:30	21:35	6
11/27/2023	15.10	Unknown	8:54	8:59	6
11/27/2023	18.95	Unknown	23:42	23:47	6
11/27/2023	17.04	Unknown	23:48	23:53	6
11/27/2023	15.11	Unknown	23:54	23:59	6
12/8/2023	15.11	Ash Ring Collapse	9:42	9:47	6
1/31/2024	17.96	Unknown	13:30	13:35	6
1/31/2024	16.88	Unknown	13:36	13:41	6
2/26/2024	18.20	Unknown	8:42	8:47	6
2/27/2024	16.66	Heavy Rain	21:48	21:53	6
3/1/2024	22.54	Raking Ash	18:18	18:23	6
3/1/2024	22.99	Raking Ash	18:24	18:29	6
3/1/2024	17.54	Raking Ash	18:30	18:35	6
3/1/2024	16.33	Raking Ash	18:36	18:41	6
3/13/2024	28.12	ESP Number 4 Bank Out	20:00	20:05	6
3/13/2024	22.17	ESP Number 4 Bank Out	20:06	20:11	6
3/13/2024	20.55	ESP Number 4 Bank Out	20:12	20:17	6
3/13/2024	17.66	ESP Number 4 Bank Out	20:18	20:23	6
3/13/2024	19.40	ESP Number 4 Bank Out	20:24	20:29	6
3/13/2024	17.26	ESP Number 4 Bank Out	20:30	20:35	6
3/13/2024	19.12	ESP Number 4 Bank Out	20:36	20:41	6
3/13/2024	17.20	ESP Number 4 Bank Out	20:42	20:47	6
3/13/2024	18.91	ESP Number 4 Bank Out	20:48	20:53	6
3/13/2024	15.28	ESP Number 4 Bank Out	20:54	20:59	6
3/13/2024	17.81	ESP Number 4 Bank Out	21:00	21:05	6
3/14/2024	17.66	Shooting Kiln 5	9:36	9:41	6
3/14/2024	19.49	Shooting Kiln 5	15:42	15:47	6
3/14/2024	28.23	Shooting Kiln 5	15:48	15:53	6
3/14/2024	15.64	Shooting Kiln 5	15:54	15:59	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
3/23/2024	20.63	Unknown	0:36	0:41	6
3/23/2024	18.08	Unknown	0:42	0:47	6
3/26/2024	18.09	Power Failure	9:12	9:17	6
3/26/2024	15.05	Power Failure	9:54	9:59	6
4/2/2024	20.59	Unknown	0:18:00	0:23:00	6
4/3/2024	19.06	K5 ESP Bank Out	13:06	13:11	6
4/5/2024	26.16	Unknown	12:42	12:47	6
4/5/2024	20.58	Unknown	12:48	12:53	6
4/6/2024	33.53	ID Fan Issues	15:06	15:11	6
4/6/2024	15.48	ID Fan Issues	15:54	15:59	6
4/17/2024	15.51	Interlock Testing on ID Fan	11:54	11:59	6
4/20/2024	15.91	Unknown	4:42	4:47	6
4/20/2024	20.61	Unknown	17:18	17:23	6
5/7/2024	16.80	Unknown	15:42	15:47	6
5/8/2024	19.35	Taking Kilns Down	6:54	6:59	6
5/8/2024	23.03	Taking Kilns Down	7:00	7:05	6
5/8/2024	30.15	Taking Kilns Down	7:06	7:11	6
5/8/2024	41.92	Taking Kilns Down	7:12	7:17	6
5/8/2024	35.42	Taking Kilns Down	7:24	7:29	6
5/9/2024	49.67	Unknown	23:36	23:41	6
5/9/2024	29.74	Unknown	23:42	23:47	6
5/9/2024	27.60	Unknown	23:48	23:53	6
5/9/2024	20.14	Unknown	23:54	23:59	6
5/10/2024	18.66	Bringing Up Kiln 5	0:06	0:11	6
5/10/2024	15.96	Bringing Up Kiln 5	1:06	1:11	6
5/10/2024	19.82	Bringing Up Kiln 5	2:18	2:23	6
5/10/2024	19.79	Bringing Up Kiln 5	3:12	3:17	6
5/10/2024	16.00	Bringing Up Kiln 5	5:12	5:17	6
5/10/2024	21.09	Bringing Up Kiln 5	6:06	6:11	6
5/10/2024	23.55	Bringing Up Kiln 5	7:00	7:05	6
5/13/2024	19.12	Unknown	9:36	9:41	6
5/13/2024	17.93	Unknown	9:48	9:53	6
5/13/2024	17.83	Unknown	9:54	9:59	6
5/17/2024	15.06	K5 ESP Bank Out	3:36	3:41	6
5/17/2024	18.18	K5 ESP Bank Out	3:54	3:59	6
5/18/2024	15.33	Unknown	18:24	18:29	6
5/26/2024	17.89	Rain/Foggy Lense	20:54	20:59	6
5/28/2024	20.15	Unknown	12:18	12:23	6
5/28/2024	17.15	Unknown	12:24	12:29	6
5/28/2024	17.00	Unknown	12:36	12:41	6
5/28/2024	17.82	Unknown	12:48	12:53	6
5/28/2024	17.65	Unknown	12:54	12:59	6
5/28/2024	17.96	Unknown	13:06	13:11	6
5/28/2024	16.69	Unknown	13:18	13:23	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
5/28/2024	15.35	Unknown	14:54	14:59	6
5/29/2024	15.05	Unknown	11:12	11:17	6
5/30/2024	19.39	Unknown	13:36	13:41	6
6/2/2024	17.14	Unknown	6:06	6:11	6
6/2/2024	16.05	Unknown	6:18	6:23	6
6/2/2024	15.29	Unknown	6:36	6:41	6
6/2/2024	16.76	Unknown	6:48	6:53	6
6/2/2024	15.72	Unknown	6:54	6:59	6
6/3/2024	21.10	Unknown	21:24	21:29	6
6/4/2024	15.62	Unknown	11:42	11:47	6
6/4/2024	15.13	Unknown	13:18	13:23	6
6/5/2024	17.29	Heavy Rain/ESP Bank Failure	4:30	4:35	6
6/5/2024	15.84	Heavy Rain/ESP Bank Failure	6:24	6:29	6
6/5/2024	25.47	Heavy Rain/ESP Bank Failure	8:30	8:35	6
6/5/2024	18.75	Heavy Rain/ESP Bank Failure	14:54	14:59	6
6/5/2024	15.37	Heavy Rain/ESP Bank Failure	15:36	15:41	6
6/5/2024	18.22	Heavy Rain/ESP Bank Failure	15:54	15:59	6
6/5/2024	17.43	Heavy Rain/ESP Bank Failure	16:54	16:59	6
6/5/2024	17.34	Heavy Rain/ESP Bank Failure	17:06	17:11	6
6/5/2024	25.26	Heavy Rain/ESP Bank Failure	19:24	19:29	6
6/5/2024	22.58	Heavy Rain/ESP Bank Failure	19:30	19:35	6
6/5/2024	15.56	Heavy Rain/ESP Bank Failure	19:54	19:59	6
6/5/2024	22.10	Heavy Rain/ESP Bank Failure	20:30	20:35	6
6/7/2024	15.95	Unknown	9:12	9:17	6
6/7/2024	40.52	Lost Flame/Cooling Tower Issues	16:30	16:35	6
6/7/2024	20.78	Lost Flame/Cooling Tower Issues	16:54	16:59	6
6/7/2024	21.11	Lost Flame/Cooling Tower Issues	17:06	17:11	6
6/7/2024	16.19	Lost Flame/Cooling Tower Issues	17:12	17:17	6
6/7/2024	18.38	Lost Flame/Cooling Tower Issues	17:48	17:53	6
6/7/2024	16.59	Lost Flame/Cooling Tower Issues	17:54	17:59	6
6/7/2024	16.04	Lost Flame/Cooling Tower Issues	23:18	23:23	6
6/8/2024	16.62	Unknown	2:00	2:05	6
6/8/2024	16.43	Unknown	3:54	3:59	6
6/8/2024	17.85	Unknown	5:48	5:53	6
6/8/2024	16.05	Unknown	11:42	11:47	6
6/9/2024	19.38	Coal Feed Issues	7:12	7:17	6
6/11/2024	15.80	Unknown	3:06	3:11	6
6/11/2024	18.38	Unknown	9:06	9:11	6
6/11/2024	20.55	Unknown	10:36	10:41	6
6/12/2024	23.88	K5 ESP Bank Out	8:06	8:11	6
6/12/2024	15.88	K5 ESP Bank Out	8:12	8:17	6
6/12/2024	17.39	K5 ESP Bank Out	12:42	12:47	6
6/13/2024	15.54	Unknown	12:42	12:47	6
6/13/2024	16.07	Unknown	13:54	13:59	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
6/14/2024	15.22	Fuel Stability Issues	19:42	19:47	6
6/14/2024	20.51	Fuel Stability Issues	21:30	21:35	6
6/15/2024	20.76	K5 ESP Three Banks Out	6:42	6:47	6
6/15/2024	20.82	K5 ESP Three Banks Out	12:54	12:59	6
6/15/2024	46.27	K5 ESP Three Banks Out	18:48	18:53	6
6/15/2024	55.26	K5 ESP Three Banks Out	18:54	18:59	6
6/15/2024	37.86	K5 ESP Three Banks Out	19:00	19:05	6
6/15/2024	47.44	K5 ESP Three Banks Out	19:06	19:11	6
6/15/2024	25.71	K5 ESP Three Banks Out	19:12	19:17	6
6/15/2024	40.57	K5 ESP Three Banks Out	19:18	19:23	6
6/15/2024	36.27	K5 ESP Three Banks Out	19:24	19:29	6
6/15/2024	32.86	K5 ESP Three Banks Out	19:30	19:35	6
6/15/2024	43.28	K5 ESP Three Banks Out	19:36	19:41	6
6/15/2024	33.11	K5 ESP Three Banks Out	19:42	19:47	6
6/15/2024	36.81	K5 ESP Three Banks Out	19:48	19:53	6
6/15/2024	27.98	K5 ESP Three Banks Out	19:54	19:59	6
6/15/2024	15.42	K5 ESP Three Banks Out	20:00	20:05	6
6/15/2024	19.66	K5 ESP Three Banks Out	20:06	20:11	6
6/15/2024	17.46	K5 ESP Three Banks Out	23:30	23:35	6
6/16/2024	15.58	Unknown	2:36	2:41	6
6/16/2024	17.74	Unknown	12:42	12:47	6
6/17/2024	15.19	K5 ESP Bank Out	6:30	6:35	6
6/17/2024	36.86	K5 ESP Bank Out	6:36	6:41	6
6/17/2024	25.60	K5 ESP Bank Out	6:48	6:53	6
6/17/2024	27.09	K5 ESP Bank Out	6:54	6:59	6
6/17/2024	28.05	K5 ESP Bank Out	7:06	7:11	6
6/17/2024	24.91	K5 ESP Bank Out	7:18	7:23	6
6/17/2024	22.13	K5 ESP Bank Out	7:24	7:29	6
6/17/2024	19.08	K5 ESP Bank Out	7:36	7:41	6
6/18/2024	18.26	K5 ESP Bank Out	9:12	9:17	6
6/18/2024	19.32	K5 ESP Bank Out	9:30	9:35	6
6/18/2024	20.56	Heavy Rain	9:42	9:47	6
6/18/2024	21.80	Heavy Rain	9:54	9:59	6
6/18/2024	18.25	Heavy Rain	10:36	10:41	6
6/18/2024	19.45	Heavy Rain	10:42	10:47	6
6/18/2024	25.30	Heavy Rain	10:48	10:53	6
6/18/2024	25.27	Heavy Rain	10:54	10:59	6
6/18/2024	15.22	Heavy Rain	11:18	11:23	6
6/18/2024	20.10	Heavy Rain	14:36	14:41	6
6/18/2024	29.70	Heavy Rain	14:42	14:47	6
6/18/2024	18.82	Heavy Rain	15:06	15:11	6
6/23/2024	15.11	Unknown	1:30	1:35	6
6/23/2024	16.90	Unknown	10:00	10:05	6
6/26/2024	27.17	Unknown	14:00	14:05	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
6/26/2024	24.89	Unknown	15:06	15:11	6
6/26/2024	20.69	Unknown	15:12	15:17	6
6/29/2024	18.48	K5 ESP Bank out	4:06	4:11	6
6/29/2024	24.15	K5 ESP Bank out	4:12	4:17	6
6/29/2024	24.03	K5 ESP Bank out	6:18	6:23	6
6/29/2024	15.62	K5 ESP Bank out	6:48	6:53	6
6/30/2024	17.00	Unknown	8:48	8:53	6
6/30/2024	15.74	Unknown	16:24	16:29	6
7/3/2024	24.65	K5 Cooling Tower Issues	20:30:00	20:35:00	6
7/3/2024	16.96	K5 Cooling Tower Issues	20:36	20:41	6
7/7/2024	15.78	Stone feed reset	22:06	22:11	6
7/14/2024	25.15	K5 ESP	2:06	2:11	6
7/14/2024	30.45	K5 ESP	2:12	2:17	6
7/14/2024	23.68	K5 ESP	2:18	2:23	6
7/14/2024	16.70	K5 ESP	2:24	2:29	6
7/14/2024	15.90	K5 ESP	2:30	2:35	6
7/14/2024	16.98	K5 ESP	2:36	2:41	6
7/14/2024	16.59	K5 ESP	2:42	2:47	6
7/14/2024	17.96	K5 ESP	2:48	2:53	6
7/14/2024	15.18	K5 ESP	2:54	2:59	6
7/14/2024	24.46	K5 ESP	18:36	18:41	6
7/14/2024	15.36	K5 ESP	18:42	18:47	6
7/14/2024	15.67	K5 ESP	18:48	18:53	6
7/15/2024	15.24	Unknown	19:24	19:29	6
7/16/2024	20.14	ID Fan Max	13:00	13:05	6
7/16/2024	16.18	ID Fan Max	13:24	13:29	6
7/16/2024	17.29	ID Fan Max	13:30	13:35	6
7/16/2024	18.50	ID Fan Max	13:36	13:41	6
7/18/2024	20.27	K5 ESP	8:24	8:29	6
7/18/2024	20.37	K5 ESP	13:36	13:41	6
7/18/2024	17.91	K5 ESP	13:42	13:47	6
7/18/2024	17.32	K5 ESP	13:48	13:53	6
7/18/2024	19.16	K5 ESP	13:54	13:59	6
7/18/2024	20.99	K5 ESP	14:00	14:05	6
7/18/2024	18.36	K5 ESP	14:06	14:11	6
7/18/2024	18.24	K5 ESP	14:12	14:17	6
7/18/2024	18.51	K5 ESP	14:18	14:23	6
7/18/2024	15.37	K5 ESP	14:24	14:29	6
7/18/2024	15.02	K5 ESP	14:30	14:35	6
7/18/2024	15.30	K5 ESP	14:48	14:53	6
7/18/2024	15.70	K5 ESP	14:54	14:59	6
7/18/2024	15.38	K5 ESP	15:12	15:17	6
7/18/2024	17.25	K5 ESP	15:18	15:23	6
7/18/2024	19.12	K5 ESP	15:24	15:29	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
7/18/2024	16.89	K5 ESP	15:30	15:35	6
7/18/2024	15.98	K5 ESP	16:36	16:41	6
7/18/2024	15.21	K5 ESP	16:42	16:47	6
7/18/2024	17.34	K5 ESP	16:48	16:53	6
7/18/2024	16.66	K5 ESP	16:54	16:59	6
7/18/2024	15.93	K5 ESP	17:24	17:29	6
7/18/2024	17.69	K5 ESP	17:30	17:35	6
7/18/2024	17.96	K5 ESP	17:36	17:41	6
7/18/2024	16.79	K5 ESP	17:42	17:47	6
7/19/2024	18.23	Unknown	10:12	10:17	6
7/19/2024	26.52	Unknown	10:18	10:23	6
7/20/2024	18.14	Alt Fuel Feed Issues	5:48	5:53	6
7/20/2024	16.01	Alt Fuel Feed Issues	8:24	8:29	6
7/21/2024	17.76	Fuel Issues	3:48	3:53	6
7/21/2024	22.18	K5 ESP	15:24	15:29	6
7/21/2024	24.23	K5 ESP	15:30	15:35	6
7/21/2024	20.50	K5 ESP	15:36	15:41	6
7/21/2024	15.17	K5 ESP	15:42	15:47	6
7/23/2024	24.06	K5 ESP	15:24	15:29	6
7/23/2024	16.92	K5 ESP	15:42	15:47	6
7/24/2024	16.39	Unknown	5:54	5:59	6
7/24/2024	17.72	Unknown	6:00	6:05	6
7/24/2024	19.03	Unknown	6:06	6:11	6
7/24/2024	17.99	Unknown	6:12	6:17	6
7/24/2024	17.07	Unknown	6:18	6:23	6
7/25/2024	N/A	Unknown	8:06	8:11	6
7/25/2024	N/A	Unknown	8:12	8:17	6
7/27/2024	15.06	K4 Cooling Tower Opened	21:12	21:17	6
7/29/2024	43.13	Coal Belt Issues	14:48	14:53	6
7/29/2024	24.31	Coal Belt Issues	14:54	14:59	6
7/31/2024	16.33	Unknown	13:18	13:23	6
8/6/2024	15.22	K4 Lost Flame	13:18	13:23	6
8/6/2024	21.07	K4 Lost Flame	16:42	16:47	6
8/6/2024	25.82	K4 Lost Flame	16:48	16:53	6
8/6/2024	29.46	K4 Lost Flame	16:54	16:59	6
8/6/2024	20.43	K4 Lost Flame	17:00	17:05	6
8/6/2024	16.94	K4 Lost Flame	17:24	17:29	6
8/8/2024	19.22	K5 ESP	14:06	14:11	6
8/8/2024	15.99	K5 ESP	14:12	14:17	6
8/8/2024	15.26	K5 ESP	14:18	14:23	6
8/9/2024	36.99	K5 ESP	23:12	23:17	6
8/9/2024	38.96	K5 ESP	23:18	23:23	6
8/9/2024	31.44	K5 ESP	23:24	23:29	6
8/9/2024	20.29	K5 ESP	23:30	23:35	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
8/11/2024	27.41	Unknown	9:00	9:05	6
8/11/2024	32.05	Unknown	9:06	9:11	6
8/11/2024	25.72	Unknown	9:12	9:17	6
8/11/2024	29.47	Unknown	9:18	9:23	6
8/11/2024	19.67	Unknown	9:24	9:29	6
8/15/2024	16.55	Overfueling	21:00	21:05	6
8/15/2024	15.80	Overfueling	21:06	21:11	6
8/15/2024	20.05	Overfueling	21:12	21:17	6
8/15/2024	17.64	Overfueling	21:18	21:23	6
8/15/2024	16.76	Overfueling	21:24	21:29	6
8/15/2024	15.63	Overfueling	21:30	21:35	6
8/15/2024	15.11	Overfueling	21:36	21:41	6
8/15/2024	15.97	Overfueling	21:48	21:53	6
8/15/2024	16.03	Overfueling	21:54	21:59	6
8/15/2024	16.15	Unknown	23:42	23:47	6
8/16/2024	15.75	Unknown	0:30	0:35	6
8/16/2024	17.62	Unknown	0:36	0:41	6
8/16/2024	17.16	Unknown	0:42	0:47	6
8/16/2024	15.51	Unknown	0:48	0:53	6
8/16/2024	15.46	Unknown	0:54	0:59	6
8/16/2024	16.08	Unknown	1:06	1:11	6
8/16/2024	15.21	Unknown	1:12	1:17	6
8/16/2024	17.96	Unknown	1:24	1:29	6
8/16/2024	16.04	Unknown	1:30	1:35	6
8/16/2024	15.81	Unknown	1:36	1:41	6
8/16/2024	16.44	Unknown	1:42	1:47	6
8/16/2024	15.30	Unknown	1:48	1:53	6
8/16/2024	16.12	Unknown	1:54	1:59	6
8/16/2024	15.03	Unknown	2:00	2:05	6
8/16/2024	16.05	Unknown	2:42	2:47	6
8/16/2024	15.14	Unknown	2:48	2:53	6
8/16/2024	15.27	Unknown	2:54	2:59	6
8/16/2024	15.69	Unknown	3:06	3:11	6
8/16/2024	16.20	Unknown	3:12	3:17	6
8/16/2024	15.11	Unknown	3:18	3:23	6
8/16/2024	16.58	Unknown	3:24	3:29	6
8/16/2024	15.13	Unknown	3:42	3:47	6
8/16/2024	16.27	Unknown	4:48	4:53	6
8/16/2024	15.69	Unknown	4:54	4:59	6
8/16/2024	16.20	Unknown	10:06	10:11	6
8/16/2024	21.88	Unknown	10:12	10:17	6
8/16/2024	18.20	Unknown	10:18	10:23	6
8/16/2024	21.61	Unknown	10:24	10:29	6
8/16/2024	19.23	Unknown	10:30	10:35	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
8/16/2024	17.42	Unknown	10:36	10:41	6
8/16/2024	18.32	Unknown	10:42	10:47	6
8/16/2024	18.07	Unknown	10:48	10:53	6
8/16/2024	18.18	Unknown	10:54	10:59	6
8/16/2024	18.70	Unknown	11:00	11:05	6
8/16/2024	17.77	Unknown	11:06	11:11	6
8/16/2024	15.84	Unknown	11:12	11:17	6
8/16/2024	15.59	Unknown	15:00	15:05	6
8/16/2024	18.71	Unknown	15:06	15:11	6
8/16/2024	29.86	Unknown	18:18	18:23	6
8/16/2024	30.11	Unknown	18:24	18:29	6
8/16/2024	15.30	Unknown	18:30	18:35	6
8/17/2024	15.06	Heavy Rain	17:18	17:23	6
8/17/2024	23.73	Heavy Rain	20:06	20:11	6
8/17/2024	34.38	Heavy Rain	20:12	20:17	6
8/17/2024	35.60	Heavy Rain	20:18	20:23	6
8/17/2024	24.11	Heavy Rain	20:24	20:29	6
8/17/2024	26.18	Heavy Rain	20:30	20:35	6
8/17/2024	33.93	Heavy Rain	20:36	20:41	6
8/17/2024	23.58	Heavy Rain	20:42	20:47	6
8/17/2024	19.66	Heavy Rain	20:48	20:53	6
8/17/2024	16.26	Heavy Rain	20:54	20:59	6
8/17/2024	15.89	Heavy Rain	21:12	21:17	6
8/18/2024	15.20	Heavy Rain	4:42	4:47	6
8/18/2024	16.96	Heavy Rain	7:54	7:59	6
8/18/2024	21.13	Heavy Rain	8:24	8:29	6
8/18/2024	19.87	Heavy Rain	8:30	8:35	6
8/18/2024	18.07	Heavy Rain	8:42	8:47	6
8/18/2024	15.29	Heavy Rain	9:48	9:53	6
8/18/2024	42.61	K5 ESP	15:30	15:35	6
8/18/2024	37.58	K5 ESP	15:36	15:41	6
8/18/2024	17.01	K5 ESP	15:42	15:47	6
8/19/2024	15.65	K5 ESP	16:06	16:11	6
8/19/2024	52.45	K5 ESP	16:12	16:17	6
8/19/2024	48.96	K5 ESP	16:18	16:23	6
8/19/2024	43.59	K5 ESP	16:24	16:29	6
8/19/2024	35.24	K5 ESP	16:30	16:35	6
8/21/2024	17.19	Unknown	14:48	14:53	6
8/22/2024	16.42	K5 ESP	8:00	8:05	6
8/22/2024	18.48	K5 ESP	9:24	9:29	6
8/22/2024	27.65	K5 ESP	9:30	9:35	6
8/22/2024	17.48	K5 ESP	14:36	14:41	6
8/22/2024	18.35	K5 ESP	16:42	16:47	6
8/22/2024	15.74	K5 ESP	17:30	17:35	6

Start Date	Opacity (%)	Reported Cause	Start Time	Stop Time	Duration (min)
8/23/2024	15.04	Unknown	8:24	8:29	6
8/23/2024	16.37	Unknown	8:42	8:47	6
8/23/2024	15.57	Unknown	9:00	9:05	6
8/23/2024	16.02	Unknown	9:18	9:23	6
8/25/2024	34.23	K5 ESP	14:18	14:23	6
8/25/2024	25.58	K5 ESP	14:24	14:29	6
8/25/2024	20.03	K5 ESP	14:30	14:35	6
8/25/2024	17.05	K5 ESP	14:36	14:41	6
8/25/2024	17.00	K5 ESP	14:42	14:47	6
8/25/2024	16.43	K5 ESP	14:48	14:53	6
8/25/2024	19.19	K5 ESP	14:54	14:59	6
8/27/2024	15.89	Gas Kicked Out	17:36	17:41	6
8/27/2024	26.26	Gas Kicked Out	17:54	17:59	6
8/27/2024	19.93	Gas Kicked Out	18:12	18:17	6
8/30/2024	27.30	Gas Kicked Out	13:18	13:23	6
8/30/2024	22.45	Gas Kicked Out	13:24	13:29	6
8/30/2024	19.79	Gas Kicked Out	13:30	13:35	6
8/30/2024	19.22	Gas Kicked Out	13:36	13:41	6
8/30/2024	19.94	Gas Kicked Out	13:42	13:47	6
8/30/2024	17.26	Gas Kicked Out	13:48	13:53	6
8/30/2024	19.47	Gas Kicked Out	13:54	13:59	6
8/30/2024	23.58	Gas Kicked Out	14:00	14:05	6
8/30/2024	19.32	Gas Kicked Out	14:06	14:11	6
8/30/2024	21.46	Gas Kicked Out	14:12	14:17	6
8/30/2024	31.22	Gas Kicked Out	14:18	14:23	6
8/31/2024	22.33	Gas Kicked Out	19:36	19:41	6
8/31/2024	17.31	Gas Kicked Out	19:42	19:47	6
9/4/2024	21.60	Unknown	18:00	18:05	6
9/6/2024	21.48	Heavy Rain	16:30	16:35	6
9/6/2024	47.10	Heavy Rain	16:36	16:41	6
9/6/2024	23.45	Heavy Rain	16:42	16:47	6
9/6/2024	24.37	Heavy Rain	16:54	16:59	6
9/6/2024	26.40	Heavy Rain	17:00	17:05	6
9/6/2024	20.68	Heavy Rain	17:06	17:11	6
9/6/2024	15.05	Heavy Rain	17:12	17:17	6
9/10/2024	22.09	Unknown	11:12	11:17	6
9/15/2024	15.18	Unknown	15:42	15:47	6
9/15/2024	15.25	Unknown	16:42	16:47	6
9/15/2024	15.44	Unknown	17:00	17:05	6
9/15/2024	17.81	Unknown	17:06	17:11	6
9/15/2024	19.24	Unknown	17:12	17:17	6
9/23/2024	23.16	Cleaning out ESP	13:06	13:11	6
9/23/2024	15.03	Cleaning out ESP	13:12	13:17	6