

Main Stack 1

Monitoring Location No: 1
 Monitoring Type: Continuous
 Sample Type: Air
 Description: Exit point from Stack 1 to atmosphere

Opacity							Period: 6 Minutes	Limit: 20.00 %
Start Time	End Time	Cause	Operational State	Explanation	Corrective Action	Max Reading		
05/12/25 08:48	05/12/25 08:54	Recovery Boiler A ESP2	Equipment Issue/Failure	EP 2 field 1 stopped - Restarted same - DCS checked as no alarms active on DCS and found temp drop on Insulator heater that's why Field dropped out - W/O in for investigation	Field 2 back online with no trips after insulator temperature was restored.	27.42		
09/12/25 15:30	09/12/25 15:36	Lime Kiln A ESP	Equipment Issue/Failure	Shear pin broke on Ash drag chain conveyor tripping the Kiln the pin was replaced and Kiln started, during the Purge cycle the opacity was exceeded.	Plant started and stabilized.	23.09		
14/12/25 23:06	14/12/25 23:18	Recovery Boiler A ESP2	Equipment Issue/Failure	The field 1 insulator temperature readings drops out and fails to zero, causing the Precipitator to trip on low insulator temperature (< 85°C)	After testing - suspect the temperature transmitter is faulty - replaced the transmitter on 15 Dec	38.45		
15/12/25 09:54	15/12/25 10:06	Recovery Boiler A ESP2	Equipment Issue/Failure	The field 1 insulator temperature tripped on low temperature after the transmitter was replaced.	The reading was real as the heater was offline during the replacement of the transmitter and the temperature dropped below 85°C	36.63		
15/12/25 15:54	15/12/25 16:00	Lime Kiln A	Lime Kiln A Scheduled Start-up/Shut-down	Lime Kiln A flame out for SAACKE to work on the flame scanner - planned. Exceedance was due to purge for restart	Start the ESP after the purge is completed	22.37		

16/12/25 16:06	16/12/25 16:12	Planned Maintenance / Calibration	Lime Kiln A Scheduled Start-up/Shut-down	Planned stopping of LK to test the safety interlocks with SAACKE on Main gas burner. The opacity exceedance was during the purge for start-up.	Kiln and ESP started and stabilized	58.53
18/12/25 06:18	18/12/25 06:24	Lime Kiln B	Lime Kiln B Scheduled Start-up/Shut-down	Planned shut on LK B	After the shut, restart the kiln and ESP	21.05
18/12/25 11:30	18/12/25 11:48	Lime Kiln B	Lime Kiln B Scheduled Start-up/Shut-down	Planned shut on LK B	After the shut, restart the kiln and ESP	30.83
18/12/25 12:00	18/12/25 12:18	Lime Kiln B	Lime Kiln B Scheduled Start-up/Shut-down	Planned shut on LK B	After the shut, restart the kiln and ESP	25.44
19/12/25 13:06	19/12/25 13:12	Lime Kiln A	Equipment Issue/Failure	High CO spike from lime kiln tripped the main flame. Opened smoke box big rock/build up.	Used ring blaster to break down rock. Restart kiln and ESP	46.33
20/12/25 05:30	20/12/25 05:36	Lime Kiln B	Equipment Issue/Failure	Lime kiln flame out, most likely due to dust. Opacity exceedance due to purge for a restart.	Purge and restart, ESP back online. Continue investigation on reason for flame out.	21.10
29/12/25 19:12	29/12/25 19:24	Lime Kiln B	Equipment Issue/Failure	Lime kiln B flame tripped on low flue gas flow, EMD investigating. Replaced transmitter but cable also faulty still working on issue. (18H19)	Kiln exceeded on Opacity while purging for startup after repairs to flue gas flow transmitter	40.85

Main Stack 2

Monitoring Location No: 22
Monitoring Type: Continuous
Sample Type: Air
Description: Exit point from Stack 2 to atmosphere

Opacity						
Period: 6 Minutes		Limit: 20.00 %				
Start Time	End Time	Cause	Operational State	Explanation	Corrective Action	Max Reading
02/12/25 08:42	02/12/25 08:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	28.64
03/12/25 08:42	03/12/25 08:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	26.67
04/12/25 08:42	04/12/25 08:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	29.40
05/12/25 08:42	05/12/25 08:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	26.19
06/12/25 08:42	06/12/25 08:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	24.54
07/12/25 08:42	07/12/25 08:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	23.58

08/12/25 08:42	08/12/25 08:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	23.44
11/12/25 08:36	11/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	21.08
12/12/25 08:36	12/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	22.47
13/12/25 08:36	13/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	24.28
14/12/25 08:36	14/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	25.17
15/12/25 08:36	15/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	25.67
16/12/25 08:36	16/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	24.55
17/12/25 08:36	17/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	25.38
18/12/25 06:12	18/12/25 06:30	Recovery Boiler B ESP2	RB B Scheduled Start-up/Shut-down	Slowed down the boiler for Preciptech to inspect the Precipitator 2 internally. While stopping and cooling there was some opacity.	Preciptech found a colleting plate out of position - rectified it and secured it. Precipitator 2 performance improved significantly after start-up.	47.56
18/12/25 08:36	18/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	26.75
18/12/25 09:06	18/12/25 09:12	Recovery Boiler B ESP2	RB B Scheduled Start-up/Shut-down	Slowed down the boiler for Preciptech to inspect the Precipitator 2 internally. While stopping and cooling there was some opacity.	Preciptech found a colleting plate out of position - rectified it and secured it. Precipitator 2 performance improved significantly after start-up.	25.16
19/12/25 08:36	19/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	27.86
20/12/25 08:36	20/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	26.63
21/12/25 08:36	21/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	24.95
22/12/25 08:36	22/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	26.70
23/12/25 08:36	23/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	24.01
24/12/25 08:36	24/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	23.85
25/12/25 08:36	25/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	27.24
26/12/25 08:36	26/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	27.07
27/12/25 08:36	27/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	22.28
28/12/25 08:36	28/12/25 08:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	20.59
31/12/25 08:30	31/12/25 08:36	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	N/A	21.22

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