

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
01/12/21 10:42	01/12/21 10:48	Lime Kiln A ESP	Normal (Steady State)	Flushing of the lime pump and restarting the lime feed caused the CO to spike and trip the ESP	Equipment restarted and plant stabilized.	31.62
01/12/21 17:48	01/12/21 18:24	Recovery Boiler A	RB A Un Scheduled Start-up/Shut-down	Boiler tripped due to a faulty probe and cable on ID fan 2 causing the trip	Cable was thought to be the issue and was replaced, but the boiler tripped again due to the probe being faulty, this was replaced and the boiler was restarted and away.	90.17
02/12/21 20:42	02/12/21 20:54	Lime Kiln A	Normal (Steady State)	Kiln Feed Screw tripped causing the exceedance	Screw restarted and plant stabilized	34.97
06/12/21 10:48	06/12/21 11:00	Recovery Boiler A	RB A Un Scheduled Start-up/Shut-down	Boiler tripped due to a faulty Air fan temperature probe and cable.	Replaced cable and probe	54.47
06/12/21 11:06	06/12/21 11:12	Recovery Boiler A	RB A Un Scheduled Start-up/Shut-down	Boiler tripped due to a faulty Air fan temperature probe and cable.	Replaced cable and probe	28.76
07/12/21 09:30	07/12/21 09:42	Lime Kiln A	Lime Kiln B Un Scheduled Start-up/Shut-down	Shut down LK A to remove a ring with the ring blaster.	Start-up Kiln A and stabilise	33.62
07/12/21 09:48	07/12/21 09:54	Lime Kiln A	Lime Kiln B Un Scheduled Start-up/Shut-down	Shut down LK A to remove a ring with the ring blaster.	Start-up Kiln A and stabilise	32.32
26/12/21 06:00	26/12/21 06:12	Lime Kiln B	Lime Kiln B Un Scheduled Start-up/Shut-down	LK B ESP tripped on high CO when cleaning the LMDF	Restart and energise the ESP to clean the flue gas from particulates	53.56

27/12/21 00:12	27/12/21 00:24	Recovery Boiler A	RB A Un Scheduled Start-up/Shut-down	Rec Boiler A tripped shortly after the HBL diverted.	Restart the boiler and start the ESP. Root cause of boiler trip is being investigated further.	25.69
29/12/21 23:12	29/12/21 23:18	Lime Kiln A	Lime Kiln A Un Scheduled Start-up/Shut-down	Shooting weir on Kiln A and lost flame twice	had to purge and flame back in - Weir cleaned up and mud back in Kiln	22.27

Sulphur Dioxide (SO2) Period: 60 Minutes Limit: 250.00 mg/Nm3						
Start Time	End Time	Cause	Operational State	Explanation	Corrective Action	Max Reading
27/12/21 00:00	27/12/21 02:00	Recovery Boiler A	RB A Un Scheduled Start-up/Shut-down	Rec Boiler A tripped shortly after the HBL diverted.	Restart the boiler and start the ESP. Root cause of boiler trip is being investigated further.	333.84

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
01/12/21 19:42	01/12/21 19:48	Recovery Boiler B ESP1/ESP2	Normal (Steady State)	Auto Calibration	None Required	20.31
02/12/21 19:42	02/12/21 19:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None required	24.07
03/12/21 19:42	03/12/21 19:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	23.47
04/12/21 19:42	04/12/21 19:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	23.42
05/12/21 19:42	05/12/21 19:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	25.16
06/12/21 09:30	06/12/21 09:36	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	32.87

06/12/21 12:54	06/12/21 13:06	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.96
06/12/21 13:24	06/12/21 13:30	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.10
06/12/21 14:54	06/12/21 15:06	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	22.80
06/12/21 15:12	06/12/21 15:18	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	22.53
06/12/21 19:42	06/12/21 19:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None required	26.62
07/12/21 01:12	07/12/21 01:18	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.20
07/12/21 03:00	07/12/21 03:06	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.55
07/12/21 04:00	07/12/21 04:06	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	21.14

07/12/21 04:12	07/12/21 04:18	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.44
07/12/21 04:54	07/12/21 05:00	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.68
07/12/21 19:00	07/12/21 19:06	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.35
07/12/21 19:12	07/12/21 19:18	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.22
07/12/21 19:42	07/12/21 19:48	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	25.56
07/12/21 21:12	07/12/21 21:18	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.12
07/12/21 22:54	07/12/21 23:00	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.82
07/12/21 23:06	07/12/21 23:18	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	21.61

07/12/21 23:54	08/12/21 00:00	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.57
08/12/21 00:12	08/12/21 00:18	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.97
08/12/21 00:24	08/12/21 00:30	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.87
08/12/21 01:54	08/12/21 02:00	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.35
08/12/21 03:12	08/12/21 03:18	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	20.11
08/12/21 09:06	08/12/21 09:24	Recovery Boiler B ESP2	Normal (Steady State)	Opacity exceedances was due to ESP inlet screen rapper not running, this is the ESP where we are struggling to get communication from the module to the DCS.	Maintenance departments working on solving the issue, in the mean time inspection on this motor has been increased to prevent any delay in correcting and not exceeding	27.52
08/12/21 19:42	08/12/21 19:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	23.96
09/12/21 19:42	09/12/21 19:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	23.31
10/12/21 19:42	10/12/21 19:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	22.38
11/12/21 19:42	11/12/21 19:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	22.81
12/12/21 19:42	12/12/21 19:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	23.63
13/12/21 19:42	13/12/21 19:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	24.81
14/12/21 19:42	14/12/21 19:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	24.39
21/12/21 19:36	21/12/21 19:42	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	21.53

22/12/21 19:36	22/12/21 19:42	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	20.86
24/12/21 19:36	24/12/21 19:42	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	23.33
25/12/21 19:36	25/12/21 19:42	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	20.57
26/12/21 19:36	26/12/21 19:42	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	22.87
27/12/21 19:36	27/12/21 19:42	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	24.31
28/12/21 19:36	28/12/21 19:42	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	21.70
29/12/21 19:36	29/12/21 19:42	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	25.83
30/12/21 19:36	30/12/21 19:42	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	22.68
31/12/21 19:36	31/12/21 19:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	25.13

Authorised By:

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