

## Visy Pulp and Paper Tumut CEMS - Exceedance Report

13/07/2020

Reporting Period: 1/06/2020 - 1/07/2020 Environment Protection Licence No: 10232

### 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
02/06/20 12:24	02/06/20 12:30	Lime Kiln B	Lime Kiln B Scheduled Start-up/Shut-down	LK B was shut down to inspect the burner lance, adjust it, then restarted	Restart LK B and ESP	21.01
02/06/20 13:18	02/06/20 13:24	Lime Kiln B	Lime Kiln B Scheduled Start-up/Shut-down	LK B was shut down to inspect the burner lance, adjust it, then restarted	Restart LK B and ESP	29.59
02/06/20 13:30	02/06/20 13:42	Lime Kiln B	Lime Kiln B Scheduled Start-up/Shut-down	LK B was shut down to inspect the burner lance, adjust it, then restarted	Restart LK B and ESP	32.40
03/06/20 23:36	03/06/20 23:42	Power Boiler EP	Power Boiler Scheduled Start-up/Shut-down	Power Boiler was shut down for 6 monthly clean. ESP was stopped with boiler but not restarted during cooling.	Need to update rundown procedure to capture that the ESP needs to be restarted. Vault incident created.	21.92
04/06/20 00:12	04/06/20 00:18	Power Boiler EP	Power Boiler Scheduled Start-up/Shut-down	Power Boiler was shut down for 6 monthly clean. ESP was stopped with boiler but not restarted during cooling.	Need to update rundown procedure to capture that the ESP needs to be restarted. Vault incident created.	20.62
04/06/20 02:06	04/06/20 03:30	Power Boiler EP	Power Boiler Scheduled Start-up/Shut-down	Power Boiler was shut down for 6 monthly clean. ESP was stopped with boiler but not restarted during cooling.	Need to update rundown procedure to capture that the ESP needs to be restarted. Vault incident created.	61.54
11/06/20 09:42	11/06/20 10:00	Recovery Boiler A	RB A Un Scheduled Start-up/Shut-down	Rec A tripped due to HBL refract failure. NCG and SOG was diverted to Power Boiler (SO2 emissions).	Found the root cause of the trip (restarted Rec A several times during this time). Then restart and divert NCG/SOG back to Rec A.	23.38
11/06/20 10:18	11/06/20 10:24	Recovery Boiler A	RB A Un Scheduled Start-up/Shut-down	Rec A tripped due to HBL refract failure. NCG and SOG was diverted to Power Boiler (SO2 emissions).	Found the root cause of the trip (restarted Rec A several times during this time). Then restart and divert NCG/SOG back to Rec A.	20.42

11/06/20 11:48	11/06/20 12:06	Recovery Boiler A	RB A Un Scheduled Start-up/Shut-down	Rec A tripped due to HBL refract failure. NCG and SOG was diverted to Power Boiler (SO2 emissions).	Found the root cause of the trip (restarted Rec A several times during this time). Then restart and divert NCG/SOG back to Rec A.	86.93
20/06/20 06:18	20/06/20 06:30	Lime Kiln A	Lime Kiln A Un Scheduled Start-up/Shut-down	Kiln Flame tripped causing exceedance	Plant restarted and stabilized	35.71
22/06/20 21:30	22/06/20 21:36	Recovery Boiler A ESP2	Normal (Steady State)	ESP 3rd field failed causing the exceedance	Unit restarted and monitored	21.23
28/06/20 12:54	28/06/20 13:00	Lime Kiln A	Lime Kiln A Un Scheduled Start-up/Shut-down	Kiln main flame tripped, ID fan control issues	Plant restarted after trip and stabilized	38.32
29/06/20 07:36	29/06/20 07:42	Lime Kiln B ESP	Normal (Steady State)	Kiln B process issues	Stabilized and monitoring	20.07

Sulphur Dioxide (SO2) Period: 60 Minutes Limit: 250.00 mg/Nm3						
Start Time	End Time	Cause	Operational State	Explanation	Corrective Action	Max Reading
11/06/20 10:00	11/06/20 12:00	Recovery Boiler A	RB A Un Scheduled Start-up/Shut-down	Rec A tripped due to HBL refract failure. NCG and SOG was diverted to Power Boiler (SO2 emissions).	Found the root cause of the trip (restarted Rec A several times during this time). Then restart and divert NCG/SOG back to Rec A.	328.82
16/06/20 09:00	16/06/20 15:00	Power Boiler	RB A Scheduled Start-up/Shut-down	Shut Rec A to do final repair on refracts. Had to divert NCG and SOG for the duration to the Power Boiler.	Finish job and restart HBL firing on Rec A, then divert NCG and SOG back to Rec A	350.48

## Power Boiler

Monitoring Location No: 3

Monitoring Type Continuous

Sample Type: Air

Description: Discharge duct downstream of Power Boiler prior to junction with Stack 1

Carbon Monoxide (CO) Period: 60 Minutes Limit: 140.00 mg/Nm3						
Start Time	End Time	Cause	Operational State	Explanation	Corrective Action	Max Reading
05/06/20 09:00	05/06/20 10:00	Power Boiler	RB A Scheduled Start-up/Shut-down	Start-up after shut		142.59



**Main Stack 2**

Monitoring Location No: 22

Monitoring Type Continuous

Sample Type: Air

Description: Exit point from Stack 2 to atmosphere

Nitrogen Oxides (as NO2)		Period: 60 Minutes	Limit: 400.00 mg/Nm3			
Start Time	End Time	Cause	Operational State	Explanation	Corrective Action	Max Reading
29/06/20 11:00	29/06/20 12:00	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	444.90

Opacity		Period: 6 Minutes	Limit: 20.00 %			
Start Time	End Time	Cause	Operational State	Explanation	Corrective Action	Max Reading
01/06/20 09:30	01/06/20 09:36	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		28.53
02/06/20 09:30	02/06/20 09:36	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		26.90
03/06/20 09:30	03/06/20 09:36	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		24.08
04/06/20 09:30	04/06/20 09:36	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		22.17
08/06/20 09:24	08/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		20.96
09/06/20 09:24	09/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		21.21
10/06/20 09:24	10/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		21.21
11/06/20 09:24	11/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		21.91
12/06/20 09:24	12/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		22.26
13/06/20 09:24	13/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		23.50
14/06/20 02:00	14/06/20 02:06	Recovery Boiler B	Normal (Steady State)	The opacity of the main stack acted up but not much change was noted in the ESP - the only other input to this was heavy rain that could have gone into a junction box affecting the values.	Lier Siegler on site on the week of 15-18 Jun. and will further investigate this.	20.63
14/06/20 02:24	14/06/20 02:36	Recovery Boiler B	Normal (Steady State)	The opacity of the main stack acted up but not much change was noted in the ESP - the only other input to this was heavy rain that could have gone into a junction box affecting the values.	Lier Siegler on site on the week of 15-18 Jun. and will further investigate this.	25.14

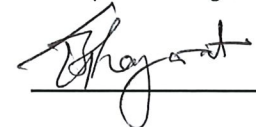
14/06/20 02:48	14/06/20 02:54	Recovery Boiler B	Normal (Steady State)	The opacity of the main stack acted up but not much change was noted in the ESP - the only other input to this was heavy rain that could have gone into a junction box affecting the values.	Lier Siegler on site on the week of 15-18 Jun. and will further investigate this.	20.46
14/06/20 03:42	14/06/20 03:48	Recovery Boiler B	Normal (Steady State)	The opacity of the main stack acted up but not much change was noted in the ESP - the only other input to this was heavy rain that could have gone into a junction box affecting the values.	Lier Siegler on site on the week of 15-18 Jun. and will further investigate this.	21.12
14/06/20 03:54	14/06/20 04:00	Recovery Boiler B	Normal (Steady State)	The opacity of the main stack acted up but not much change was noted in the ESP - the only other input to this was heavy rain that could have gone into a junction box affecting the values.	Lier Siegler on site on the week of 15-18 Jun. and will further investigate this.	20.53
14/06/20 09:24	14/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		22.96
15/06/20 09:24	15/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		25.17
16/06/20 09:24	16/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		25.33
17/06/20 09:24	17/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		24.90
18/06/20 09:24	18/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		26.88
19/06/20 09:24	19/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		27.81
20/06/20 09:24	20/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		28.38
21/06/20 09:24	21/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		28.31
22/06/20 09:24	22/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		29.85
23/06/20 09:24	23/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto calibration		26.95
24/06/20 09:24	24/06/20 09:30	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	24.08
28/06/20 09:18	28/06/20 09:24	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	20.38
29/06/20 09:18	29/06/20 09:24	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	21.67
30/06/20 09:18	30/06/20 09:24	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	None Required	21.90

TRS (as H2S)		Period: 60 Minutes	Limit: 3.60 mg/Nm3			
Start Time	End Time	Cause	Operational State	Explanation	Corrective Action	Max Reading
05/06/20 08:00	05/06/20 09:00	Auto Zero Span Verification	Normal (Steady State)	Calibration work (Lier Siegler on site))		6.38
12/06/20 11:00	12/06/20 13:00	Auto Zero Span Verification	Normal (Steady State)	Calibration work (Lier Siegler on site))		5.10
17/06/20 16:00	17/06/20 17:00	Auto Zero Span Verification	Normal (Steady State)	Calibration work (Lier Siegler on site))		12.40
18/06/20 09:00	18/06/20 11:00	Auto Zero Span Verification	Normal (Steady State)	Calibration work (Lier Siegler on site))		12.51
21/06/20 01:00	21/06/20 04:00	Recovery Boiler B	Normal (Steady State)	Auto Calibration	None Required	6.68

26/06/20 12:00	26/06/20 14:00	Recovery Boiler B	Normal (Steady State)	Maintenance work on CEMS to try and resolve Excess O2 in the boiler, but tests affected normalization values of other streams.	Tests concluded and system returned to normal	18.43
28/06/20 01:00	28/06/20 04:00	Recovery Boiler B	Normal (Steady State)	Auto Calibration	None Required	9.14
29/06/20 10:00	29/06/20 15:00	Recovery Boiler B	Normal (Steady State)	Maintenance work on CEMS to try and resolve Excess O2 in the boiler, but tests affected normalization values of other streams.	Tests concluded and system returned to normal	15.45

Authorised By:

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