

McIntyre, James

PUBLIC REGISTER

From: Craig Steel [c.steel@scotgenltd.co.uk]
Sent: 20 September 2010 15:26
To: McIntyre, James; Stewart, Lucie
Cc: Andy Carey; L Brotherton; t mcdonald
Subject: Incidents

COPY

Attachments: 0104_Incident report 19th September10.xlsx; DailyReport 20092010-122531734.pdf; DailyReport 20092010-122446812.pdf; 0105_Incident report 19th September10.xlsx

Hi Jim

Incidents from the weekend attached no hard copy will be sent as your request in last weeks meeting, I'll scan the graphs in tomorrow and see if the are acceptable for viewing and send.

Note 3x 10 minute breaches in 144 samples therefore
 $3/144 \times 100 = 2.08\%$ therefore compliant

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24/09/2010

Permit No. PPC/A/1022412 Dargavel EfW facility
Scotgen (Dumfries) Ltd

Incident Report Stream 1

Incident notified by phone Y/N
Confirmed by 1st class post/Fax Y/N
Report complete here Y/N

Y
Y
Y

Nature of the incident

SCC temperature
Oxygen
CO breach for 10 min and 30 min likely compliant

Time and duration of the incident

19/09/10 00:24-27, 37-39 and 02:17-35 for temperature
19/09/10 00:33-36 and 03:04-06 for oxygen

Receiving environmental medium or media

Atmosphere

Estimate of quantity and composition

Detailed by supplied tables

Measures taken to prevent or minimise emission

Abatement controls, oxygen control and temperature control

Report of the Investigation

Refer to attached documentation
Burner issue on stream 1 prevent the required heat load to be supplied with the desired fans settings. Temperature breach despite going through the burner stages and being on full stage 3 (due to carbon deposits prevent fuel delivery degress heat flame) as result fans decreased, temperature gradually increases however oxygen breach occurs as a result, fans increase to correct for lack of oxygen temperature decrease as a result system manages to find suitable setting to keep both oxygen and temperature compliant

Steps taken to bring the incident to an end

automatic controls compensated and brought temperature and oxygen levels up

Proposals for remediation

Install air purge on burner system to prevent carbon deposits effecting heat output when required.
Note air purge trial on burner A stream 2 shown to be effective to prevent carbon deposits

Proposals for preventing a repetition

Install air purge on burner system to prevent carbon deposits effecting heat output when required.
Note air purge trial on burner A stream 2 shown to be effective to prevent carbon deposits

END

Disclaimer: I hope all the information supplied is suitable if you could please get in touch within 14 working days if requiring further information

Permit No. PPC/A/1022412 Dargavel EfW facility
Scotgen (Dumfries) Ltd

Incident Report Stream 1

Incident notified by phone Y/N
Confirmed by 1st class post/Fax Y/N
Report complete here Y/N

Y
Y
Y

Nature of the incident

Oxygen
CO 10 minute and 30 minute breach

Time and duration of the incident

19/09/10 19:25-28

Receiving environmental medium or media

Atmosphere

Estimate of quantity and composition

Detailed by supplied tables

Measures taken to prevent or minimise emission

Abatement controls, oxygen control and temperature control, temperature compliant

Report of the Investigation

Refer to attached documentation
Baghouse temperature high due to high airflow and good energy production and unefficient temperature removal from the economiser. Fans reduced to decrease the temperature to prevent a bypass stack activation at 200C (successful). However oxygen breach as a result.

Steps taken to bring the incident to an end

automatic controls compensated and brought oxygen levels up

Proposals for remediation

Boiler modification, site temperature probe at more suitable location, in meantime maintain economiser as clean as possible (increase efficiency) and reduce air flow slowly while maintaining a sequence

Proposals for preventing a repetition

Boiler modification, site temperature probe at more suitable location, in meantime maintain economiser as clean as possible (increase efficiency) and reduce air flow slowly while maintaining a sequence

END

Disclaimer: I hope all the information supplied is suitable if you could please get in touch within 14 working days if requiring further information

CDAS 2004 Daily Report for Stream One on the 19 September 2010

Report printed at 12:25 on the 20 September 2010

	HCl mg/Nm3	SO2 mg/Nm3	NOx mg/Nm3	CO mg/m3	NH3 mg/m3	Flow kNm3/hr	Dust Nm3/m3	VOC (FID) Nm3/m3
00:00 to 00:29	3.32	14.92	104.48	14.42	0.03	21.27	0.50	1.04
00:30 to 00:59	3.67	12.46	90.22	127.26	0.06	12.54	0.98	14.11
01:00 to 01:29	2.08	15.80	102.72	8.79	0.03	16.89	0.47	0.63
01:30 to 01:59	1.73	18.12	112.65	6.38	0.03	14.37	0.35	0.47
02:00 to 02:29	2.40	12.15	102.48	6.35	0.03	13.51	0.33	0.37
02:30 to 02:59	2.66	9.27	106.41	6.08	0.03	11.54	0.38	0.22
03:00 to 03:29	3.33	24.05	153.81	83.51	0.03	20.40	0.33	9.80
03:30 to 03:59	5.21	20.82	161.53	12.64	0.03	21.28	0.27	0.62
04:00 to 04:29	7.35	22.94	162.97	22.21	0.03	28.65	0.39	1.04
04:30 to 04:59	9.45	16.10	172.25	26.74	0.03	31.41	0.40	1.72
05:00 to 05:29	8.01	16.92	171.72	28.34	0.03	27.16	0.48	2.20
05:30 to 05:59	7.77	24.00	200.20	20.59	0.03	25.77	0.60	2.11
06:00 to 06:29	3.16	12.90	169.40	23.57	0.03	24.29	0.39	2.00
06:30 to 06:59	3.36	15.62	176.86	20.83	0.03	25.23	0.38	1.75
07:00 to 07:29	2.51	20.51	169.62	17.97	0.03	23.10	0.40	1.68
07:30 to 07:59	2.25	19.71	150.12	20.49	0.03	22.41	0.38	1.33
08:00 to 08:29	1.99	21.86	144.52	21.71	0.03	22.48	0.38	1.39
08:30 to 08:59	2.50	19.49	141.86	18.91	0.03	24.26	1.25	1.46
09:00 to 09:29	5.48	26.95	165.23	17.21	0.03	23.68	0.50	1.49
09:30 to 09:59	5.81	17.37	129.36	13.44	0.04	22.74	0.35	1.11
10:00 to 10:29	5.72	18.82	141.27	14.13	3.17	22.70	0.31	0.94
10:30 to 10:59	6.07	20.07	136.49	14.81	2.71	23.48	0.27	0.97
11:00 to 11:29	7.90	9.16	107.65	19.67	0.76	23.52	0.35	1.04
11:30 to 11:59	5.78	19.33	140.32	12.40	0.03	23.58	0.27	1.00
12:00 to 12:29	4.37	2.58	115.16	17.89	0.03	22.58	0.27	1.06
12:30 to 12:59	8.10	21.55	94.86	11.47	0.03	19.23	0.35	0.91
13:00 to 13:29	4.96	5.57	75.86	13.32	0.03	16.57	0.27	0.89
13:30 to 13:59	5.12	21.81	94.45	10.68	0.11	16.79	0.28	0.70
14:00 to 14:29	4.30	8.22	90.44	17.74	0.03	17.90	0.36	0.93
14:30 to 14:59	3.27	25.13	143.12	13.51	0.28	21.64	0.31	0.97
15:00 to 15:29	2.05	3.38	115.31	20.38	0.03	19.35	0.34	1.30
15:30 to 15:59	1.77	21.38	140.32	18.97	0.03	20.48	0.33	1.29
16:00 to 16:29	1.88	20.64	132.51	21.20	0.03	21.19	0.30	1.35
16:30 to 16:59	2.36	20.60	121.49	21.01	0.03	21.94	0.28	1.37
17:00 to 17:29	2.84	17.44	113.87	16.40	0.03	19.31	0.29	1.37
17:30 to 17:59	2.33	19.02	134.05	15.08	0.03	18.61	0.25	1.40
18:00 to 18:29	3.99	19.62	168.19	16.51	0.03	25.29	0.24	1.30
18:30 to 18:59	6.62	19.27	177.97	16.56	0.07	28.57	0.28	1.10
19:00 to 19:29	7.63	19.59	170.01	18.06	0.22	31.06	0.42	0.95
19:30 to 19:59	8.17	16.22	159.91	156.56	2.04	28.09	0.47	14.04
20:00 to 20:29	8.08	13.12	167.48	19.42	2.35	26.64	0.29	1.05
20:30 to 20:59	5.04	6.42	192.93	14.22	2.96	27.05	0.27	1.03
21:00 to 21:29	6.48	21.21	163.47	10.51	3.23	24.79	0.27	0.89
21:30 to 21:59	5.22	15.30	152.98	15.00	3.12	22.58	0.34	0.54
22:00 to 22:29	2.61	17.80	139.36	14.43	2.44	20.79	0.41	0.75
22:30 to 22:59	2.26	19.50	129.31	16.11	2.12	20.87	0.44	0.75
23:00 to 23:29	2.17	17.58	123.98	17.41	2.73	20.92	0.44	0.87
23:30 to 23:59	1.99	19.43	131.33	14.87	3.08	22.09	0.36	0.91
Period Alarm Limit	60.00	200.00	400.00	100.00	20.00	N/A	30.00	20.00
No of Exceedances	0	0	0	2	0	N/A	0	0
Maximum Average	9.45	26.95	200.20	156.56	3.23	31.41	1.25	14.11
Minimum Average	1.73	2.58	75.86	6.08	0.03	11.54	0.24	0.22
97 Percentile	8.17	25.13	192.93	127.26	3.17	31.06	0.98	14.04
Daily Limit	10.00	50.00	200.00	50.00	10.00	N/A	10.00	10.00
Daily Average	4.44	17.12	138.80	23.04	0.68	22.10	0.39	1.84
Average Below Limit	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes

CDAS 2004 Daily Report for Stream Two on the 19 September 2010

Report printed at 12:25 on the 20 September 2010

[illegible]

CDAS 2004 Daily Report for Stream One on the 19 September 2010

Report printed at 12:24:47 on the 20 September 2010

CO mg/m3

00:00 to 00:09	N/A	08:00 to 08:09	20.31	16:00 to 16:09	21.40
00:10 to 00:19	13.19	08:10 to 08:19	21.84	16:10 to 16:19	21.44
00:20 to 00:29	15.00	08:20 to 08:29	22.99	16:20 to 16:29	20.78
00:30 to 00:39	122.09	08:30 to 08:39	23.09	16:30 to 16:39	20.13
00:40 to 00:49	251.40	08:40 to 08:49	14.32	16:40 to 16:49	21.89
00:50 to 00:59	8.28	08:50 to 08:59	19.50	16:50 to 16:59	21.01
01:00 to 01:09	12.97	09:00 to 09:09	N/A	17:00 to 17:09	18.50
01:10 to 01:19	7.54	09:10 to 09:19	16.12	17:10 to 17:19	19.29
01:20 to 01:29	5.86	09:20 to 09:29	16.84	17:20 to 17:29	11.43
01:30 to 01:39	9.65	09:30 to 09:39	11.18	17:30 to 17:39	15.19
01:40 to 01:49	5.08	09:40 to 09:49	13.79	17:40 to 17:49	11.45
01:50 to 01:59	4.40	09:50 to 09:59	15.36	17:50 to 17:59	20.11
02:00 to 02:09	9.03	10:00 to 10:09	10.68	18:00 to 18:09	N/A
02:10 to 02:19	5.72	10:10 to 10:19	16.34	18:10 to 18:19	16.10
02:20 to 02:29	4.32	10:20 to 10:29	15.38	18:20 to 18:29	16.54
02:30 to 02:39	9.96	10:30 to 10:39	11.97	18:30 to 18:39	14.58
02:40 to 02:49	4.31	10:40 to 10:49	15.51	18:40 to 18:49	16.62
02:50 to 02:59	3.06	10:50 to 10:59	16.93	18:50 to 18:59	18.47
03:00 to 03:09	N/A	11:00 to 11:09	17.91	19:00 to 19:09	19.68
03:10 to 03:19	195.24	11:10 to 11:19	20.88	19:10 to 19:19	17.36
03:20 to 03:29	8.02	11:20 to 11:29	20.21	19:20 to 19:29	17.14
03:30 to 03:39	10.57	11:30 to 11:39	13.85	19:30 to 19:39	438.66
03:40 to 03:49	11.61	11:40 to 11:49	12.01	19:40 to 19:49	11.35
03:50 to 03:59	15.73	11:50 to 11:59	10.90	19:50 to 19:59	19.67
04:00 to 04:09	19.36	12:00 to 12:09	N/A	20:00 to 20:09	21.03
04:10 to 04:19	25.46	12:10 to 12:19	18.90	20:10 to 20:19	12.94
04:20 to 04:29	21.83	12:20 to 12:29	13.58	20:20 to 20:29	24.29
04:30 to 04:39	27.59	12:30 to 12:39	11.13	20:30 to 20:39	18.20
04:40 to 04:49	21.33	12:40 to 12:49	9.36	20:40 to 20:49	12.61
04:50 to 04:59	31.30	12:50 to 12:59	13.93	20:50 to 20:59	10.82
05:00 to 05:09	27.39	13:00 to 13:09	17.99	21:00 to 21:09	N/A
05:10 to 05:19	30.91	13:10 to 13:19	11.94	21:10 to 21:19	13.45
05:20 to 05:29	26.72	13:20 to 13:29	10.04	21:20 to 21:29	8.64
05:30 to 05:39	21.81	13:30 to 13:39	9.04	21:30 to 21:39	15.22
05:40 to 05:49	22.34	13:40 to 13:49	13.19	21:40 to 21:49	14.28
05:50 to 05:59	16.37	13:50 to 13:59	9.79	21:50 to 21:59	15.49
06:00 to 06:09	N/A	14:00 to 14:09	16.26	22:00 to 22:09	11.69
06:10 to 06:19	24.11	14:10 to 14:19	21.35	22:10 to 22:19	15.31
06:20 to 06:29	19.04	14:20 to 14:29	15.36	22:20 to 22:29	16.30
06:30 to 06:39	21.79	14:30 to 14:39	14.37	22:30 to 22:39	16.24
06:40 to 06:49	20.79	14:40 to 14:49	13.56	22:40 to 22:49	14.30
06:50 to 06:59	19.90	14:50 to 14:59	12.38	22:50 to 22:59	17.80
07:00 to 07:09	21.74	15:00 to 15:09	N/A	23:00 to 23:09	17.20
07:10 to 07:19	15.77	15:10 to 15:19	20.43	23:10 to 23:19	16.73
07:20 to 07:29	16.38	15:20 to 15:29	17.32	23:20 to 23:29	18.30
07:30 to 07:39	19.60	15:30 to 15:39	16.05	23:30 to 23:39	15.42
07:40 to 07:49	20.15	15:40 to 15:49	21.59	23:40 to 23:49	13.04
07:50 to 07:59	21.73	15:50 to 15:59	19.27	23:50 to 23:59	16.71
Period Alarm Limit	150.00				
No of Exceedances	3				
Maximum Average	438.66				
95 Percentile	27.59				
Daily Limit	50.00				
Daily Average	23.06				
Average Below Limit	Yes				

CDAS 2004 Daily Report for Stream Two on the 19 September 2010

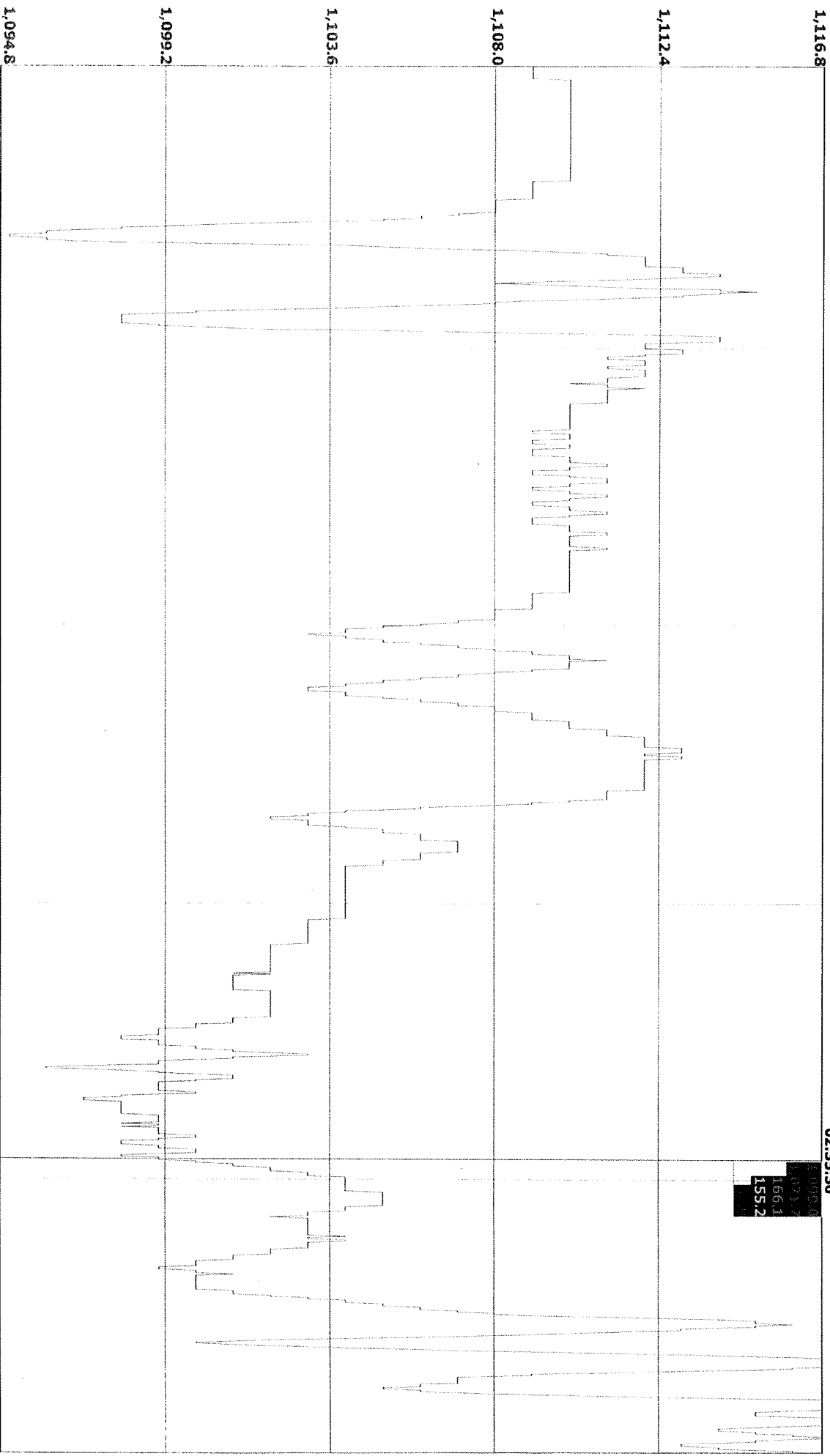
Report printed at 12:24:48 on the 20 September 2010

CO mg/m3

00:00 to 00:09	Off	08:00 to 08:09	Off	16:00 to 16:09	Off
00:10 to 00:19	Off	08:10 to 08:19	Off	16:10 to 16:19	Off
00:20 to 00:29	Off	08:20 to 08:29	Off	16:20 to 16:29	Off
00:30 to 00:39	Off	08:30 to 08:39	Off	16:30 to 16:39	Off
00:40 to 00:49	Off	08:40 to 08:49	Off	16:40 to 16:49	Off
00:50 to 00:59	Off	08:50 to 08:59	Off	16:50 to 16:59	Off
01:00 to 01:09	Off	09:00 to 09:09	Off	17:00 to 17:09	Off
01:10 to 01:19	Off	09:10 to 09:19	Off	17:10 to 17:19	Off
01:20 to 01:29	Off	09:20 to 09:29	Off	17:20 to 17:29	Off
01:30 to 01:39	Off	09:30 to 09:39	Off	17:30 to 17:39	Off
01:40 to 01:49	Off	09:40 to 09:49	Off	17:40 to 17:49	Off
01:50 to 01:59	Off	09:50 to 09:59	Off	17:50 to 17:59	Off
02:00 to 02:09	Off	10:00 to 10:09	Off	18:00 to 18:09	Off
02:10 to 02:19	Off	10:10 to 10:19	Off	18:10 to 18:19	Off
02:20 to 02:29	Off	10:20 to 10:29	Off	18:20 to 18:29	Off
02:30 to 02:39	Off	10:30 to 10:39	Off	18:30 to 18:39	Off
02:40 to 02:49	Off	10:40 to 10:49	Off	18:40 to 18:49	Off
02:50 to 02:59	Off	10:50 to 10:59	Off	18:50 to 18:59	Off
03:00 to 03:09	Off	11:00 to 11:09	Off	19:00 to 19:09	Off
03:10 to 03:19	Off	11:10 to 11:19	Off	19:10 to 19:19	Off
03:20 to 03:29	Off	11:20 to 11:29	Off	19:20 to 19:29	Off
03:30 to 03:39	Off	11:30 to 11:39	Off	19:30 to 19:39	Off
03:40 to 03:49	Off	11:40 to 11:49	Off	19:40 to 19:49	Off
03:50 to 03:59	Off	11:50 to 11:59	Off	19:50 to 19:59	Off
04:00 to 04:09	Off	12:00 to 12:09	Off	20:00 to 20:09	Off
04:10 to 04:19	Off	12:10 to 12:19	Off	20:10 to 20:19	Off
04:20 to 04:29	Off	12:20 to 12:29	Off	20:20 to 20:29	Off
04:30 to 04:39	Off	12:30 to 12:39	Off	20:30 to 20:39	Off
04:40 to 04:49	Off	12:40 to 12:49	Off	20:40 to 20:49	Off
04:50 to 04:59	Off	12:50 to 12:59	Off	20:50 to 20:59	Off
05:00 to 05:09	Off	13:00 to 13:09	Off	21:00 to 21:09	Off
05:10 to 05:19	Off	13:10 to 13:19	Off	21:10 to 21:19	Off
05:20 to 05:29	Off	13:20 to 13:29	Off	21:20 to 21:29	Off
05:30 to 05:39	Off	13:30 to 13:39	Off	21:30 to 21:39	Off
05:40 to 05:49	Off	13:40 to 13:49	Off	21:40 to 21:49	Off
05:50 to 05:59	Off	13:50 to 13:59	Off	21:50 to 21:59	Off
06:00 to 06:09	Off	14:00 to 14:09	Off	22:00 to 22:09	Off
06:10 to 06:19	Off	14:10 to 14:19	Off	22:10 to 22:19	Off
06:20 to 06:29	Off	14:20 to 14:29	Off	22:20 to 22:29	Off
06:30 to 06:39	Off	14:30 to 14:39	Off	22:30 to 22:39	Off
06:40 to 06:49	Off	14:40 to 14:49	Off	22:40 to 22:49	Off
06:50 to 06:59	Off	14:50 to 14:59	Off	22:50 to 22:59	Off
07:00 to 07:09	Off	15:00 to 15:09	Off	23:00 to 23:09	Off
07:10 to 07:19	Off	15:10 to 15:19	Off	23:10 to 23:19	Off
07:20 to 07:29	Off	15:20 to 15:29	Off	23:20 to 23:29	Off
07:30 to 07:39	Off	15:30 to 15:39	Off	23:30 to 23:39	Off
07:40 to 07:49	Off	15:40 to 15:49	Off	23:40 to 23:49	Off
07:50 to 07:59	Off	15:50 to 15:59	Off	23:50 to 23:59	Off
Period Alarm Limit	150.00				
No of Exceedances	Off				
Maximum Average	Off				
95 Percentile	Off				
Daily Limit	50.00				
Daily Average	Off				
Average Below Limit	Off				

19 September 2010

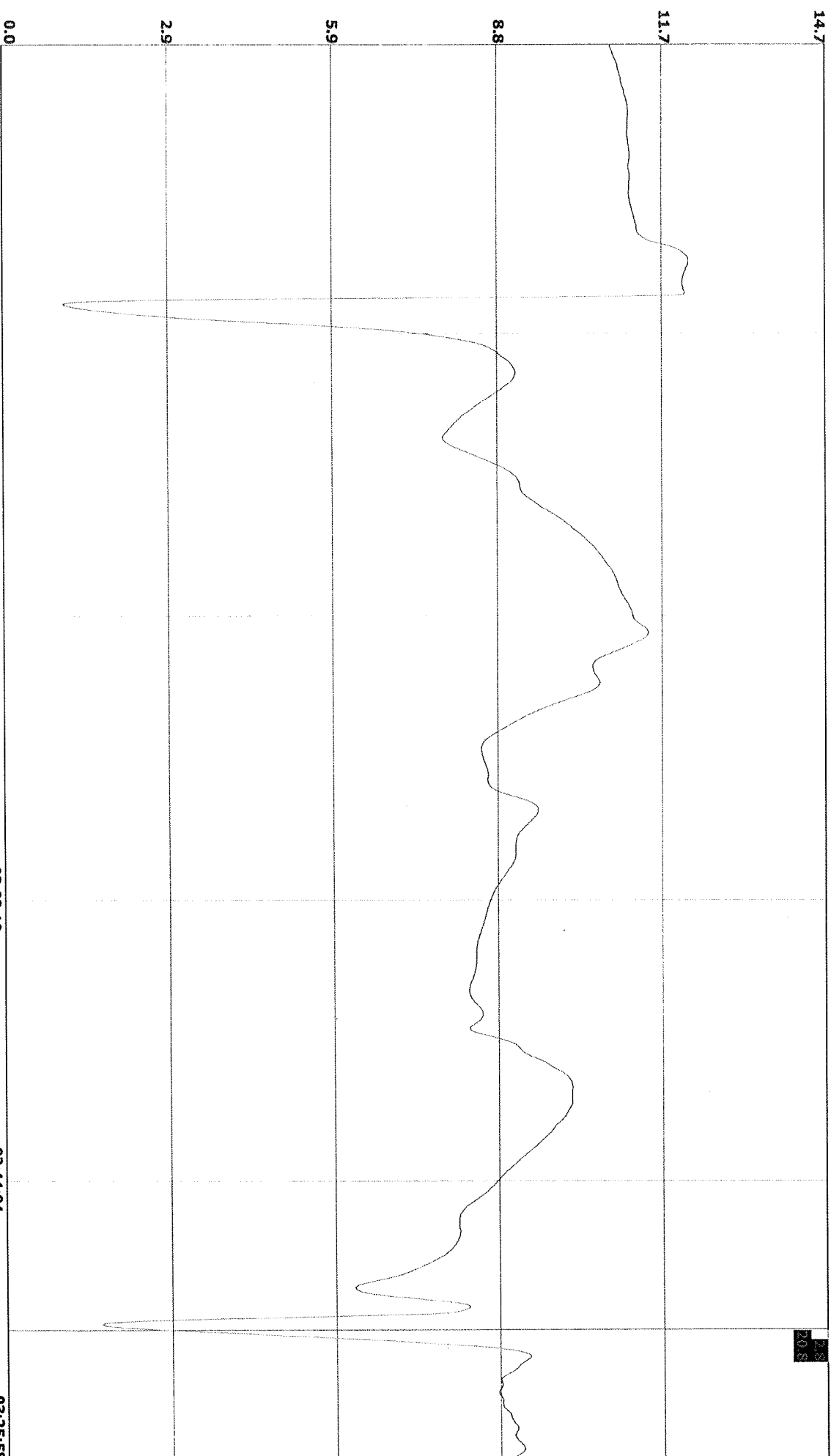
02:35:36



	00:03:09	00:41:59	01:20:48	11:45:54	Min	Max	Units	02:38:27	03:17:16
Stream 1 - Secondary Combustion Chamber 1 Temperature, TT2300_1				1,111.01	1,094.81	1,116.8C			
Stream 1 Secondary Combustion Outlet Temperature, TT3314_1				1,087.1	938.4	957.3C			
Stream 1 - Boiler Discharge Temperature, TT4300_1				187.0	234.6	239.3C			
Stream 1 Waste Heat Boiler Outlet Temperature, TT3315_1				185.6	938.4	957.3C			
Bag Filter Inlet Temperature Stream 1, TT4303_1				180.3	234.6	239.3C			
Stream 1 Flue Gas Recirculation Temperature, TT2302_1				53.3	234.6	239.3C			
Not Configured				0.0	234.6	239.3-			
Not Configured				???	234.6	239.3-			

19 September 2010

[illegible]

[illegible]

