

Month End Report

UPM-Kymmene (UK)

Permit Reference PP3936SQ
Installation Shotton Paper

To Alison Soper
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

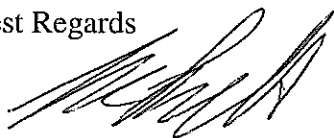
Fax - 01244 548805
Email north.wales.ppc@naturalresourceswales.gov.uk

Please find enclosed graphs / reports for Continuously Monitored Emissions to Air A2 to A8 for the period ending 30th April 2015.
During the period there were no actual exceedances to report.

You will note that for the majority of the period there was no figures reported this was due to our Boiler annual shutdown which commenced on Tuesday 7th April and was completed on Thursday 30th April, during this time there was no solid fuel feeding to the Boiler

If you require any further information please let me know

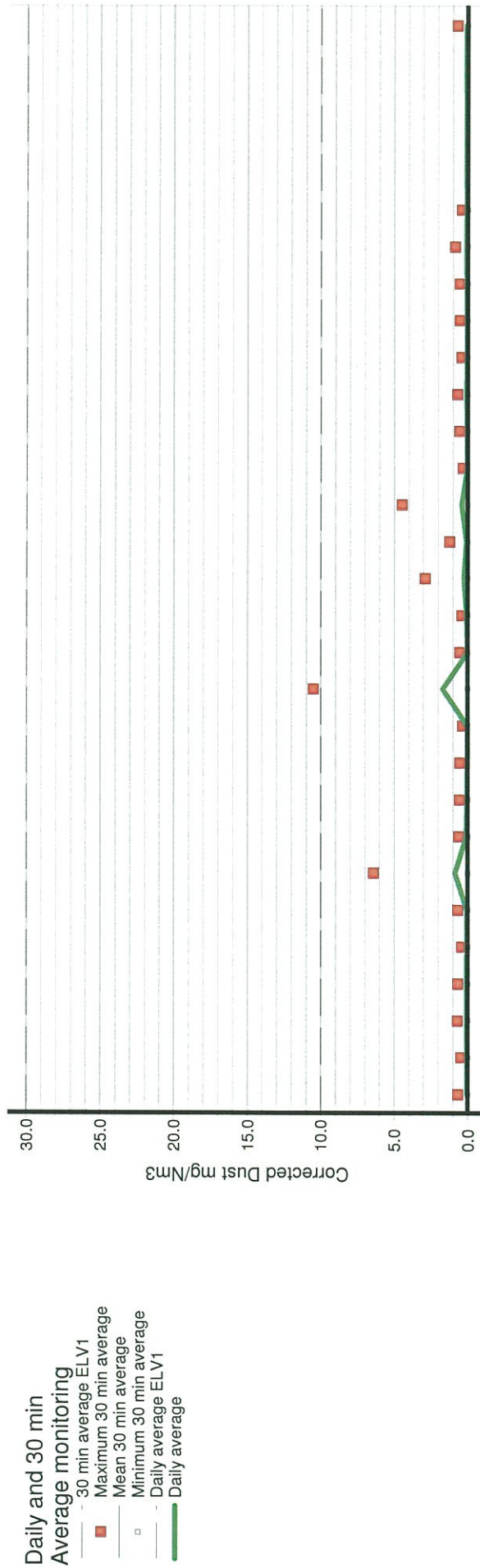
Best Regards



Kevin Smith
Utilities Manager
UPM (UK) Shotton

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Reporting of Continuously Monitored Emissions to Air for Particulates Emission Point A20 for the month of April 2015

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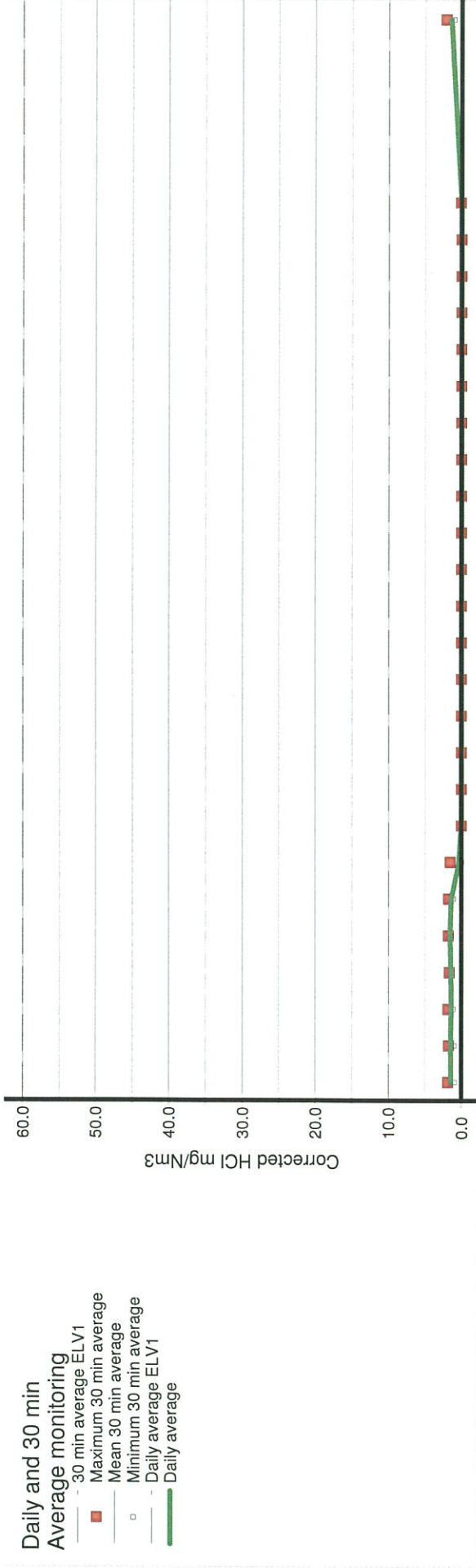
Signed
(Authorised to sign as representative of Operator)

Date.....01/3/11

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ/A3 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of April 2015



Monthly summary		Date																																	
30 min Average		--	30 min average ELV1		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
	Monthly maximum	2.1	Maximum 30 min average		1.9	1.8	1.8	1.7	1.8	1.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	--	--	2.1	
	Monthly mean	0.4	Mean 30 min average		1.5	1.5	1.4	1.4	1.5	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	1.4
	Monthly minimum	0.0	Minimum 30 min average		0.9	1.0	1.2	1.3	1.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--
24 hour Average	Total invalid results	0	No. invalid averages		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	
	Total exceedances	0	No. exceedances ELV1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	
	Monthly maximum	1.5	Daily average ELV1		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	No. invalid days	4	Daily average		1.5	1.5	1.4	1.4	1.5	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	1.4
Value valid?			Value valid?		y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	--	--	y	
Value exceeds ELV1?		0	Value exceeds ELV1?		n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	--	--	n	

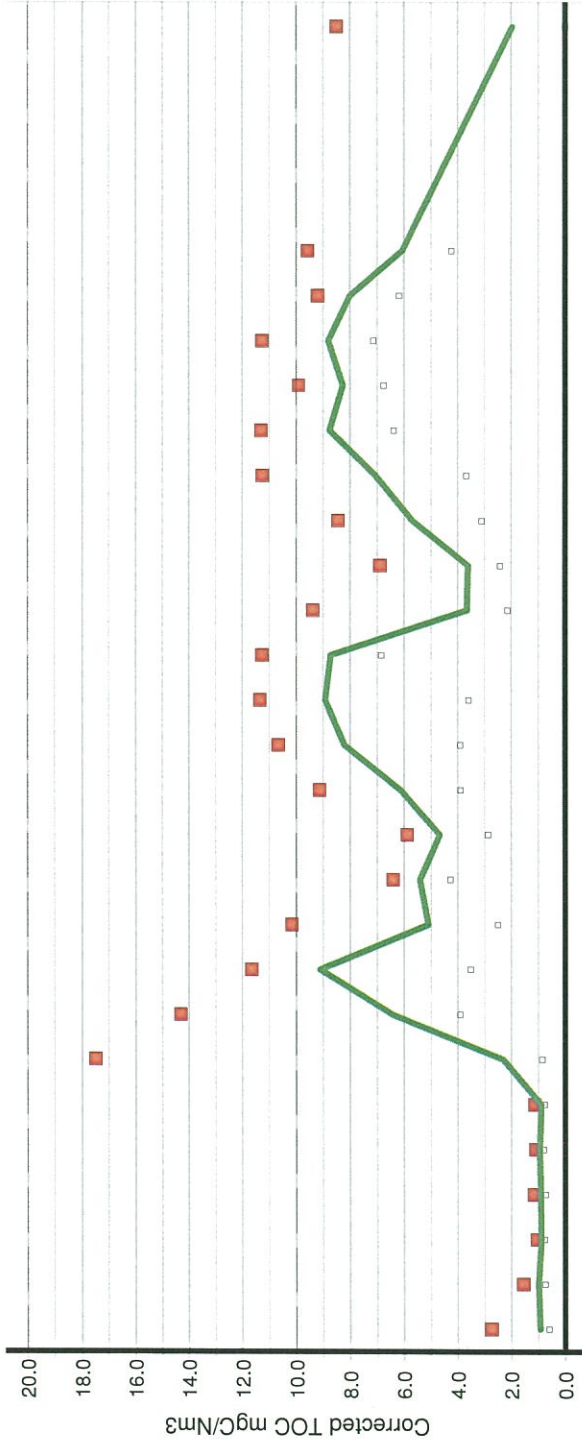
Signed
(Authorised to sign as representative of Operator)

Date: 2/5/15

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of April 2015

Daily and 30 min
Average monitoring

- 30 min average ELV1
- Maximum 30 min average
- Mean 30 min average
- Minimum 30 min average
- Daily average ELV1
- Daily average

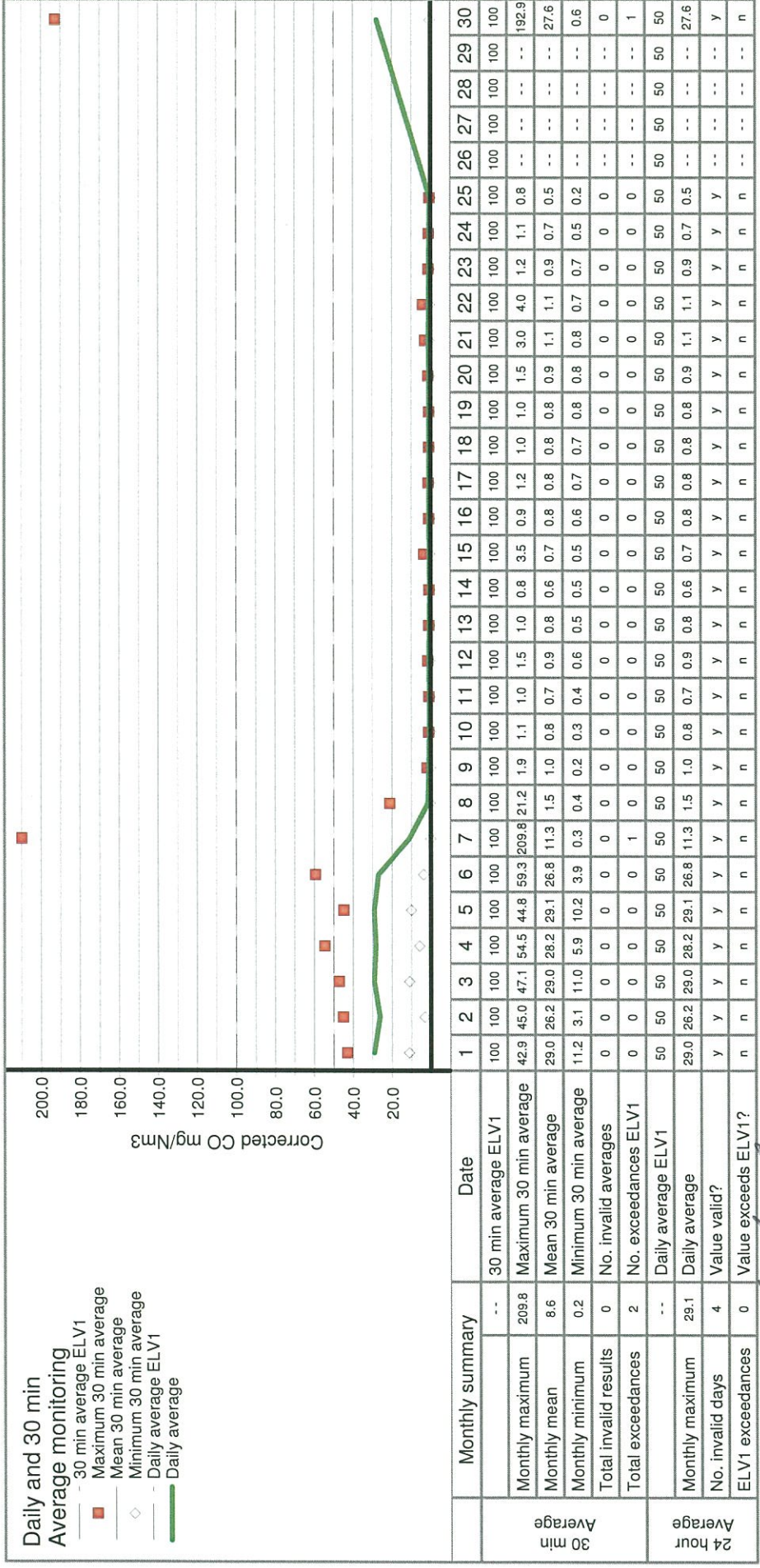


30 min Average	Monthly summary		Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	Monthly maximum	--	30 min average ELV1	2.7	1.6	1.0	1.2	1.1	1.1	1.75	14.3	11.7	10.2	6.4	5.9	9.1	10.7	11.4	11.3	9.4	6.9	8.4	11.3	11.3	9.9	11.3	9.2	9.6	--	--	--	--	--	8.5
30 min Average	Monthly mean	17.5	Maximum 30 min average	0.9	1.0	0.9	0.9	0.9	0.9	2.3	6.4	9.1	5.1	5.4	4.7	6.1	8.2	8.9	8.7	3.7	3.6	5.7	7.1	8.7	8.3	8.8	8.0	6.1	--	--	--	--	--	2.0
	Monthly minimum	5.1	Mean 30 min average	0.6	0.7	0.8	0.7	0.8	0.8	0.9	3.9	3.5	2.5	4.3	2.9	3.9	3.9	3.6	6.8	2.1	2.4	3.1	3.7	6.4	6.8	7.1	6.2	4.2	--	--	--	--	--	0.0
30 min Average	Total invalid results	0	Minimum 30 min average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	0
	Total exceedances	0	No. invalid averages	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	0
24 hour Average	Monthly maximum	--	No. exceedances ELV1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	No. invalid days	9.1	Daily average ELV1	0.9	1.0	0.9	0.9	0.9	0.9	0.9	2.3	6.4	9.1	5.1	5.4	4.7	6.1	8.2	8.9	8.7	3.7	3.6	5.7	7.1	8.7	8.3	8.8	8.0	6.1	--	--	--	--	2.0
24 hour Average	Value valid?	4	Value valid?	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	--	--	--	--	y
	Value exceeds ELV1?	0	Value exceeds ELV1?	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	--	--	--	--	n

Signed.....
(Authorised to sign as representative of Operator)

Date.....
8/5/15

Reporting of Continuously Monitored Emissions to Air for Carbon Monoxide Emission Point A20 for the month of April 2015



Signed
(Authorised to sign as representative of Operator)

Date 2/5/15

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A6 /Form Dated May 06

The graph displays the concentration of corrected SO₂ (mg/Nm³) over a 100-hour period for three different cases. The y-axis represents the concentration, ranging from 0.0 to 200.0 mg/Nm³ in increments of 20.0. The x-axis represents time in hours, ranging from 0.0 to 100.0 in increments of 10.0. Case 1 (blue line) shows a very sharp peak of approximately 190 mg/Nm³ at 10 hours, followed by a rapid decline to near zero by 20 hours. Case 2 (orange line) shows a peak of approximately 100 mg/Nm³ at 10 hours, followed by a decline to near zero by 20 hours. Case 3 (green line) shows a peak of approximately 100 mg/Nm³ at 10 hours, followed by a decline to near zero by 20 hours. All cases show a rapid decline in SO₂ concentration after the initial peak.

Time (h)	Case 1 (mg/Nm ³)	Case 2 (mg/Nm ³)	Case 3 (mg/Nm ³)
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	190	100	100
11	100	50	50
12	50	20	20
13	20	10	10
14	10	5	5
15	5	2	2
16	2	1	1
17	1	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
30	0	0	0
31	0	0	0
32	0	0	0
33	0	0	0
34	0	0	0
35	0	0	0
36	0	0	0
37	0	0	0
38	0	0	0
39	0	0	0
40	0	0	0
41	0	0	0
42	0	0	0
43	0	0	0
44	0	0	0
45	0	0	0
46	0	0	0
47	0	0	0
48	0	0	0
49	0	0	0
50	0	0	0
51	0	0	0
52	0	0	0
53	0	0	0
54	0	0	0
55	0	0	0
56	0	0	0
57	0	0	0
58	0	0	0
59	0	0	0
60	0	0	0
61	0	0	0
62	0	0	0
63	0	0	0
64	0	0	0
65	0	0	0
66	0	0	0
67	0	0	0
68	0	0	0
69	0	0	0
70	0	0	0
71	0	0	0
72	0	0	0
73	0	0	0
74	0	0	0
75	0	0	0
76	0	0	0
77	0	0	0
78	0	0	0
79	0	0	0
80	0	0	0
81	0	0	0
82	0	0	0
83	0	0	0
84	0	0	0
85	0	0	0
86	0	0	0
87	0	0	0
88	0	0	0
89	0	0	0
90	0	0	0
91	0	0	0
92	0	0	0
93	0	0	0
94	0	0	0
95	0	0	0
96	0	0	0
97	0	0	0
98	0	0	0
99	0	0	0
100	0	0	0

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(Authorised to sign as representative of Operator)

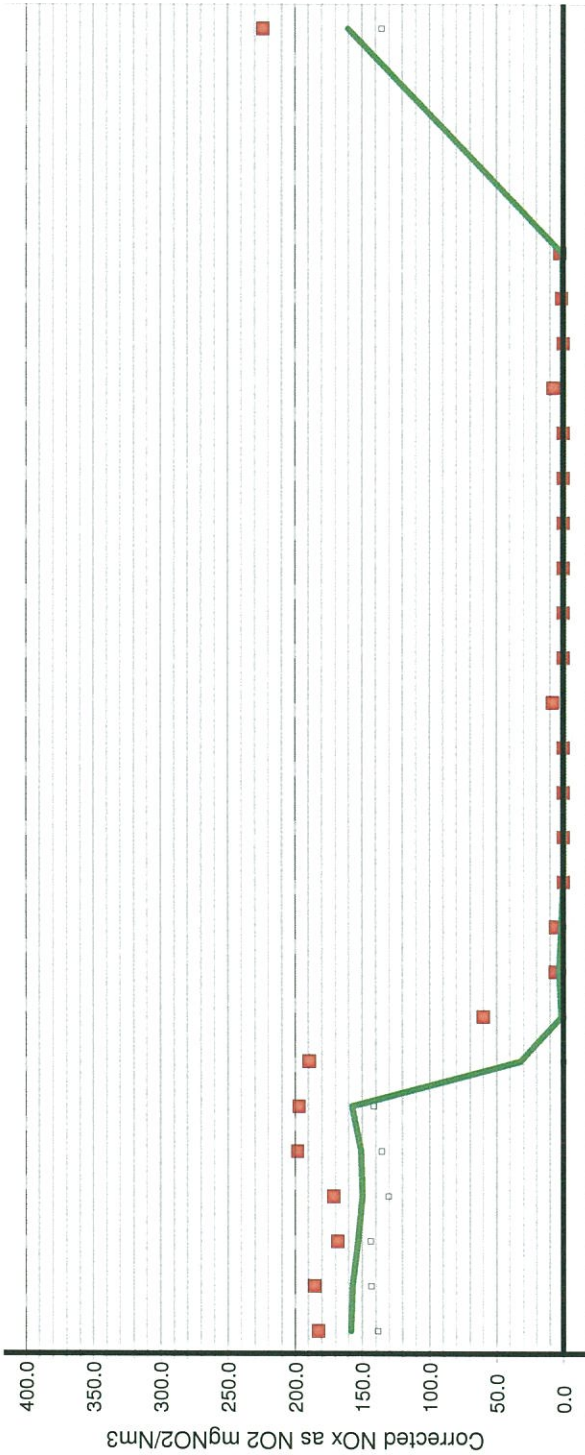
Date..... 8/5/15

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of April 2015

Daily and 30 min

Average monitoring

- 30 min average ELV1
- Maximum 30 min average
- Mean 30 min average
- Minimum 30 min average
- Daily average ELV1
- Daily average



30 min Average	Monthly summary		Date																																
	Monthly maximum	223.7	30 min average ELV1	--	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
24 hour Average	Monthly maximum	223.7	Maximum 30 min average	182.5	185.3	168.3	171.3	198.3	197.1	189.5	60.0	6.2	5.9	0.0	0.0	0.0	0.1	8.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	7.7	0.0	1.2	2.5	--	--	--	--	223.7
	Monthly mean	43.4	Mean 30 min average	158.2	157.2	153.1	149.9	150.8	157.5	32.3	1.6	3.3	1.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.7	--	--	--	--	160.5
	Monthly minimum	0.0	Minimum 30 min average	138.2	143.3	143.7	130.6	135.6	141.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	135.6
	Total invalid results	0	No. invalid averages	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	0
24 hour Average	Total exceedances	0	No. exceedances ELV1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	0	
	Monthly maximum	160.5	Daily average ELV1	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	No. invalid days	4	Daily average	158.2	157.2	153.1	149.9	150.8	157.5	32.3	1.6	3.3	1.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.7	--	--	--	--	160.5
	ELV1 exceedances	0	Value valid?	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	--	--	--	--	y	
			Value exceeds ELV1?	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	--	--	--	--	n	

Signed  (Authorised to sign as representative of Operator)

Date  2/5/15

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

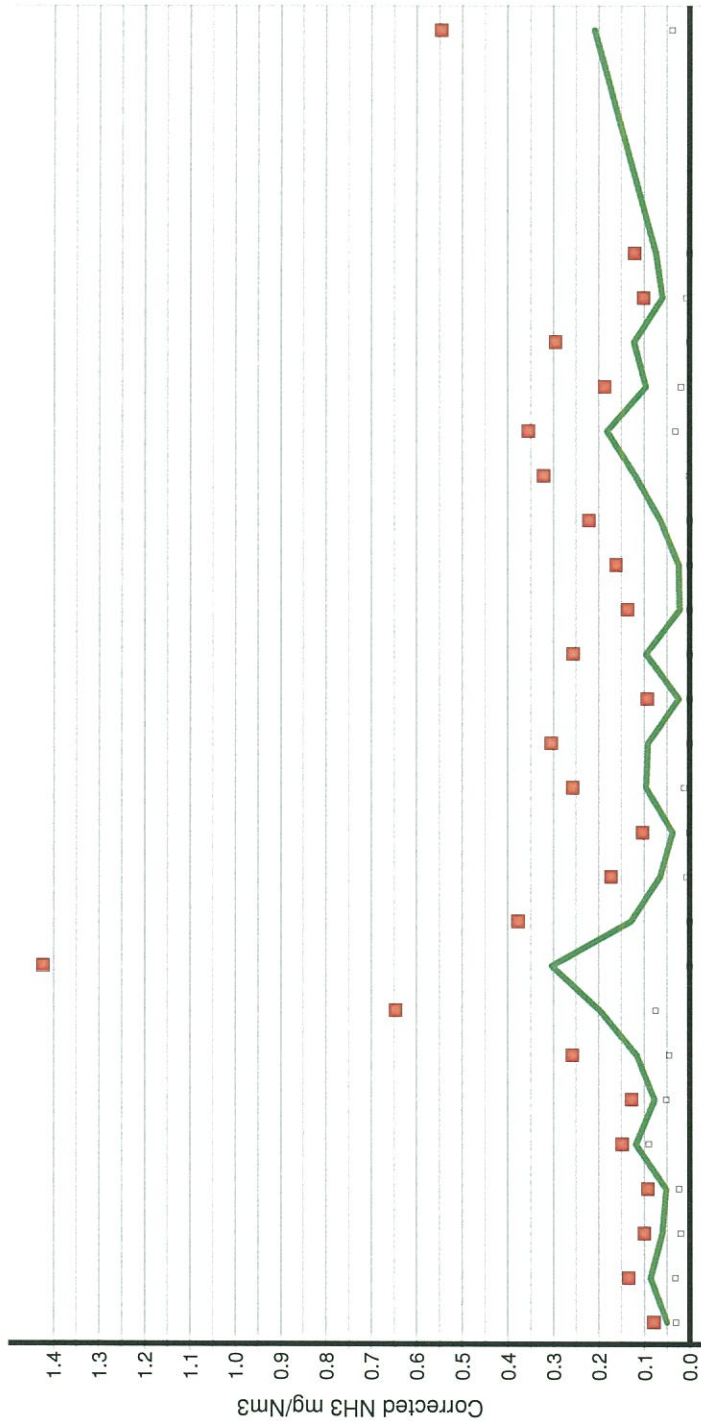
Form Number: Agency Form / PP3936SQ /A8 /Form Dated May 06
Operator: UPM-Kymmene (UK) Ltd

Reporting of Continuously Monitored Emissions to Air for Ammonia Emission Point A20 for the month of April 2015

Daily and 30 min

Average monitoring

- Maximum 30 min average
- Mean 30 min average
- Minimum 30 min average
- Daily average



Monthly summary		Date	
Monthly maximum	1.4	Maximum 30 min average	0.1
Monthly mean	0.1	Mean 30 min average	0.0
Monthly minimum	0.0	Minimum 30 min average	0.0
Total invalid results	0	No. invalid averages	0
Monthly maximum	0.3	Daily average	0.0
No. invalid days	4	Value valid?	y

Signed  Date 8/5/15
(Authorised to sign as representative of Operator)