

UPM-Kymmene (UK)

Memo
External
10th November 2014
KOS

1 (1)

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 31st October 2014.

During the period there were no actual exceedances to report when solid fuel was being fed to the Boiler

We had an improved month for Boiler reliability in which we carried out a planned shutdown to inspect the Boilerbank

During this shutdown we had a number of half hour periods when the TOC and CO went above the permitted limits these have not been reported as they occurred when solid fuel was not being fed to the Boiler

In addition to the above we had a number of occasions when CEMS reported invalid periods, these occurred as follows

4th October - 4 half hour periods when the CEMs unit was off line for carrying maintenance by the service provider. This will be added to the yearly downtime log

31st October - 2 half hour periods when the CEMs unit internal clock was being changed to GMT for some reason it did not carry this out automatically. This has also been added to the yearly downtime log

If you require any further information please let me know

Best Regards

Kevin Smith
Utilities Manager
UPM (UK) Shotton

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MONITORING RETURNS N. WALES

CHECKED Vs AUTHORISATION

TRACKING

OK FOR PUBLIC REGISTER

INITIALS DATE

JS 24/11/14

JB 20.11.14

JS 24/11/14

JB EDM

Permit Reference Number : PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A2 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Particulates Emission Point A20 for the month of October 2014

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

Corrected Dust mg/Nm3

		Date																														
Monthly Summary		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	31
30 min	-- 30 min average ELV1	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	11.3 Maximum 30 min average	0.7	0.8	1.4	0.7	0.7	2.6	0.5	0.7	0.7	0.7	0.7	0.4	0.8	11.3	3.0	0.7	0.9	0.5	0.6	1.0	0.9	0.6	1.2	0.9	1.0	1.9	1.1	0.7	2.7	0.9	0.5
	1.3 Mean 30 min average	0.1	0.0	0.1	0.0	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.0	0.4	0.1	0.2	0.1	0.1	0.3	0.3	0.3	0.4	0.3	0.2	0.6	0.4	0.3	0.4	0.3	0.3
	Monthly minimum	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.0	0.1	0.1	0.1	0.1
	Total invalid results	0	0	0	4	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	2
24 hr	Total exceedances	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
	-- 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
	1.0 Daily average	0.1	0.0	0.1	0.0	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.0	0.4	0.1	0.2	0.1	0.1	0.3	0.3	0.3	0.4	0.3	0.3	0.6	0.4	0.3	0.4	0.3	0.3
	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	y	y	y	y
	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	0	0	0	0

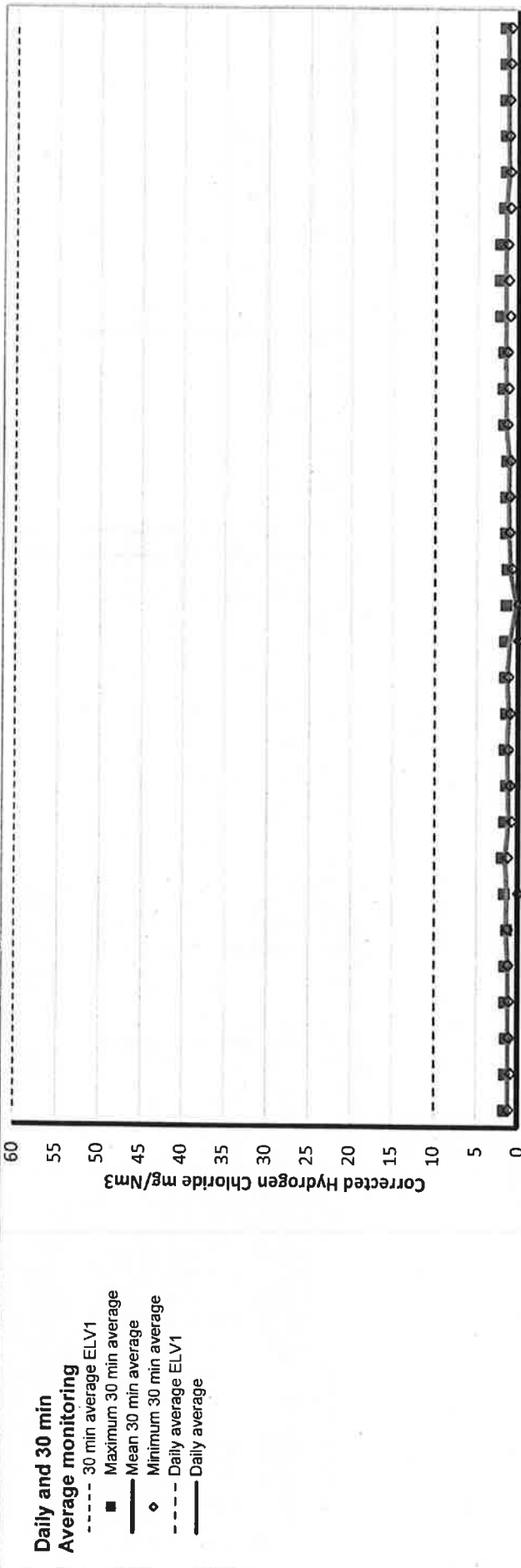
Signed
(Authorised to sign as representative of Operator)

Date 10/11/14

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 for the month of October 2014



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	31
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	60	60
	24	Maximum 30 min average	1.7	1.6	1.5	1.6	1.6	1.4	1.7	2.0	1.7	1.5	1.7	1.5	1.7	1.7	1.5	1.4	1.6	1.6	1.5	1.9	2.0	1.9	2.3	2.4	2.3	1.9	1.7	1.7	1.8	1.8	1.8
	1.7	Mean 30 min average	1.3	1.3	1.3	1.3	1.3	1.5	1.4	1.6	1.2	1.3	1.4	1.2	1.4	1.1	0.3	1.1	1.2	1.3	1.2	1.6	1.6	1.7	1.6	1.7	1.6	1.5	1.3	1.4	1.4	1.4	1.5
	0.0	Minimum 30 min average	1.1	0.9	1.1	1.1	1.2	1.3	0.0	1.3	0.8	1.0	1.2	1.0	1.2	0.0	0.0	0.8	1.1	1.1	1.0	1.4	1.3	1.4	1.1	1.3	1.4	1.1	1.1	1.2	1.2	1.1	1.0
	6	No.invalid averages	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
24 hr Average	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	0	0	0
	--	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
	1.7	Daily average	1.3	1.3	1.3	1.3	1.3	1.5	1.4	1.6	1.2	1.3	1.4	1.2	1.4	1.1	0.3	1.1	1.2	1.3	1.2	1.6	1.6	1.7	1.6	1.7	1.6	1.6	1.3	1.4	1.4	1.4	1.5
	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	y	y	y	y
	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	n	n	n
ELV1 exceedances																																	

Signed:  Date: 10/11/14

(Authorised to sign as representative of Operator)

Permit Reference Number : PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A4 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of October 2014

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

Corrected TOC mg/Nm³

54
52
50
48
46
44
42
40
38
36
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0

Monthly Summary		Date																																				
30 min Average	-- 30 min average ELV1	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
	52.0 Maximum 30 min average	0.9	1.7	0.9	0.6	0.5	0.7	1.3	0.2	1.5	0.9	0.8	0.8	1.0	22.3	52.0	1.0	0.9	0.8	0.8	1.2	1.0	1.0	3.4	1.1	0.9	1.0	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	
	3.4 Mean 30 min average	0.7	0.7	0.6	0.6	0.5	0.4	0.1	0.0	0.3	0.7	0.7	0.7	0.8	1.4	6.2	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.8	0.9	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7		
	0.0 Minimum 30 min average	0.6	0.6	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.6	0.6	0.6	0.7	0.6	0.6	0.7	0.6	0.6	0.7	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8		
	Total invalid results	6	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	2		
24 hr Average	6 No exceedances ELV1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	-- Daily average ELV1	15	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	10	10	10		
	62 Daily average	0.7	0.7	0.6	0.6	0.5	0.4	0.1	0.0	0.3	0.7	0.7	0.7	0.8	1.4	6.2	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.8	0.9	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.7			
	0 Value valid ?	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 Value exceeds 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	0	0	0	0	0	0			

Signed:  Date: 10/11/14
(Authorised to sign as representative of Operator)

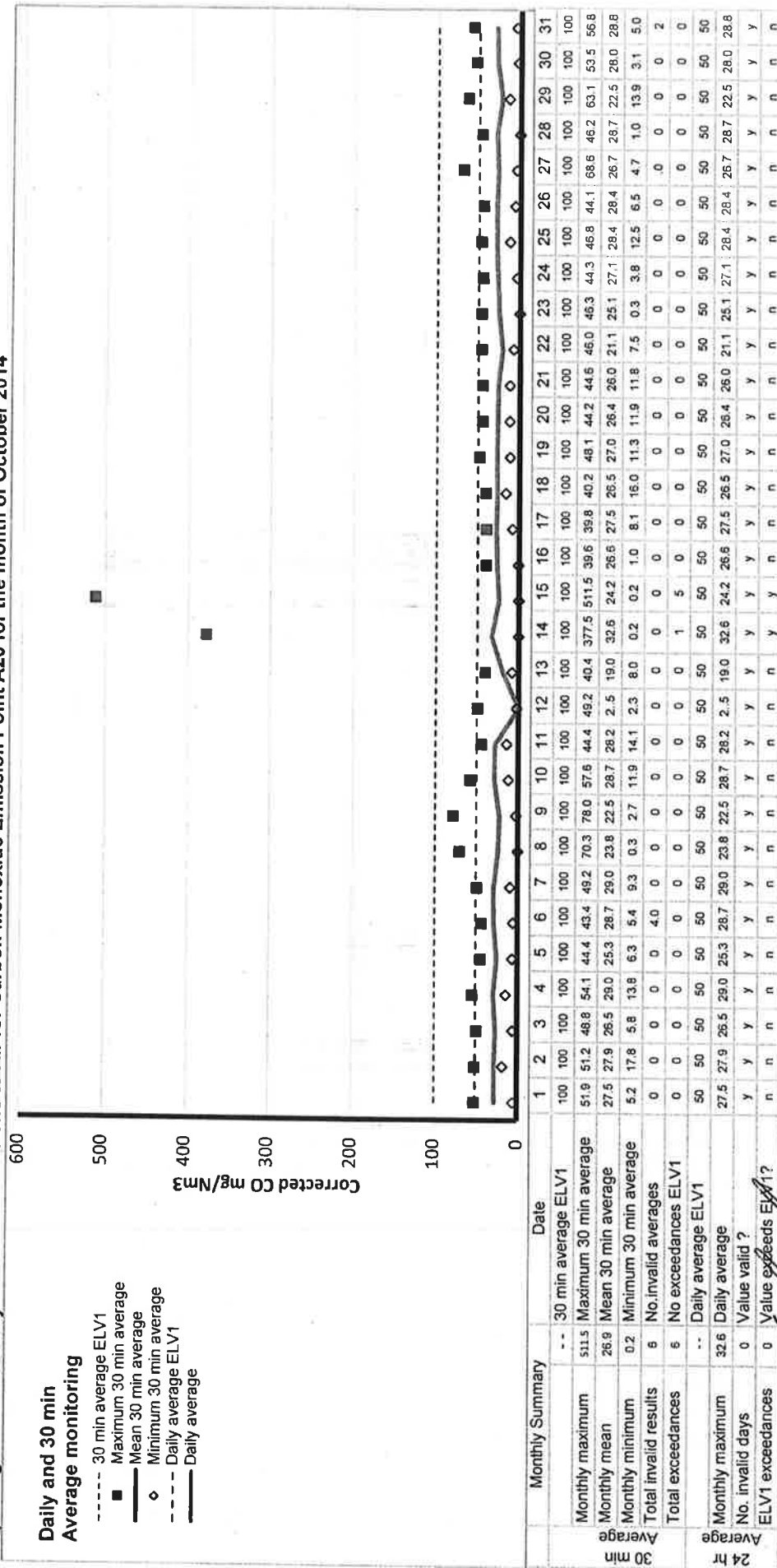
Permit Reference Number : PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A5 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Carbon Monoxide Emission Point A20 for the month of October 2014

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



Signed
(Authorised to sign as representative of Operator)

Date: 10/11/14

Permit Reference Number : PP3936SQ
Installation: Shotton Paper Mill

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

Reporting of Continuously Monitored Emissions to Air for Sulphur Dioxide Emission Point A20 for the month of October 2014

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

Corrected Sulphur Dioxide mg/Nm³

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	31			
Average 30 min	-- 30 min 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			
	Monthly maximum	17.1	Maximum	30 min average	5.5	6.0	4.6	4.2	4.1	4.7	5.7	6.5	6.1	5.1	5.5	5.3	5.7	5.1	11.5	5.5	5.4	5.2	5.4	6.4	6.2	7.0	17.1	7.9	6.0	5.5	5.3	7.8	5.9	6.7	8.9
	Monthly mean	6.4	Mean	30 min average	4.0	4.1	3.7	3.8	3.9	4.0	4.6	5.1	4.6	4.5	4.9	4.6	4.9	3.4	1.2	4.2	4.5	4.6	4.2	5.2	5.1	5.3	4.8	5.4	5.3	5.1	4.7	4.7	5.0	4.0	5.0
	Monthly minimum	0.0	Minimum	30 min average	3.7	3.4	3.0	3.2	3.4	3.5	3.7	4.5	3.8	3.9	4.0	4.1	4.5	0.0	0.0	3.5	3.9	4.1	3.5	4.7	4.6	4.8	1.8	4.6	4.7	3.6	3.8	4.1	4.4	4.1	4.6
	Total invalid results	6	No invalid	averages	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Average 24 hr	Total exceedances	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	
	-- Daily average ELV1	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
	Monthly maximum	5.4	Daily	average	4.0	4.1	3.7	3.6	3.9	4.0	4.8	5.1	4.6	4.5	4.6	4.5	4.2	4.2	4.5	4.6	4.2	5.2	5.1	5.3	4.8	5.4	5.3	5.1	4.7	4.7	5.0	4.8	4.9	5.0	
	No. invalid days	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	y	y	y	
	ELV1 exceedances	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	n	n	

Signed Date 16/11/14
(Authorised to sign as representative of Operator)

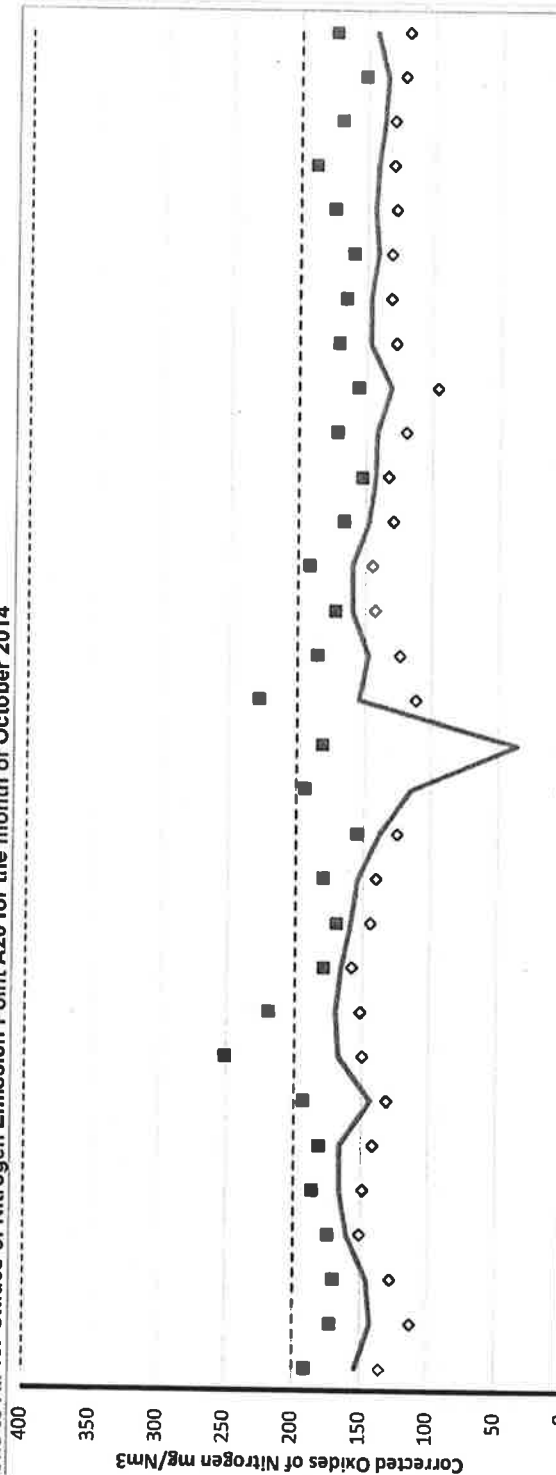
Permit Reference Number : PP3936SQ
Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A7 / Form Dated May 08

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of October 2014

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



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	31		
30 min																																	
Average	Monthly maximum	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
	251.2	190.8	172.4	170.1	174.4	186.0	181.0	193.1	251.2	219.2	176.7	168.5	179.3	154.9	193.5	180.8	228.0	184.8	172.0	191.4	166.0	153.0	171.5	166.0	170.5	165.4	160.0	174.4	188.2	169.1	151.7	173.5	
	Monthly mean	153.9	142.9	146.0	160.5	166.1	166.3	143.7	187.7	169.7	165.9	158.9	154.2	138.2	114.7	35.4	154.3	147.7	159.7	160.0	147.7	143.0	142.0	131.3	147.3	147.2	142.0	144.4	142.2	137.5	135.7	143.6	
	Monthly minimum	0.6	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	0.6	111.5	123.8	142.4	144.5	129.1	133.0	119.8	98.1	127.9	131.8	132.0	128.2	130.2	130.0	121.8	118.9
	Total invalid results	6	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 hr	Total exceedances	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	
	--	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	
	169.7	153.9	142.9	146.0	160.5	166.1	166.3	143.7	187.7	169.7	165.9	158.9	154.2	138.2	114.7	35.4	154.3	147.7	159.7	160.0	147.7	143.0	142.0	131.3	147.3	147.2	142.0	144.4	142.2	137.5	135.7	143.6	
	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	
	ELV1 exceeds 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	0	0	0	0

Signed

Date

(Authorised to sign as representative of Operator)

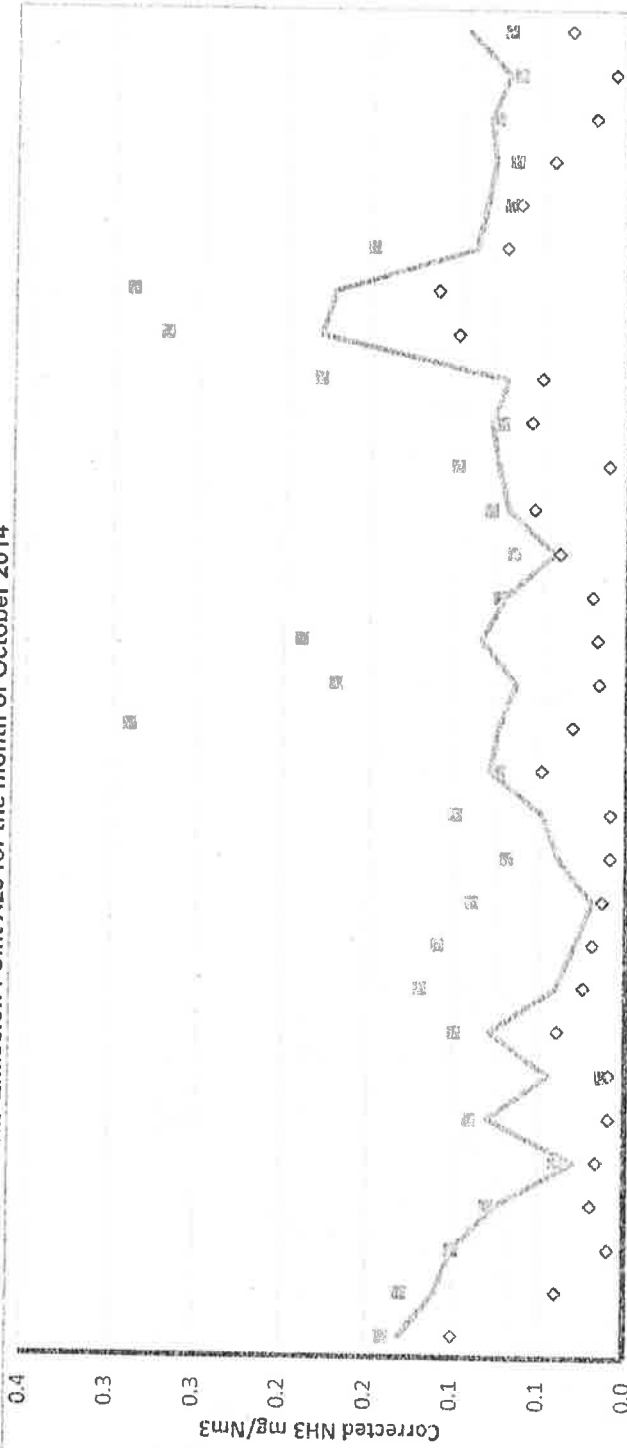
Permit Reference Number : PP3936SQ
Installation: Shotton Paper Mill

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

Reporting of Continuously Monitored Emissions to Air for Ammonia Emission Point A20 for the month of October 2014

Daily and 30 min Average monitoring

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



Monthly Summary		Date																															
24 hr 30 min Average	Monthly maximum	0.3	Maximum 30 min average	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Monthly mean	0.1	Mean 30 min average	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total invalid results	Monthly minimum	0.0	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	0.0	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
	No. invalid days	0	No. invalid days	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
Aver	Monthly maximum	0.2	Daily average	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	No. invalid days	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	Y	Y	Y

[Signature]

Date: 10/11/14

Signed: (Authorised to sign as representative of Operator)