

UPM-Kymmene (UK)

Memo
External
14th January 2016
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 December 2015.

During the period we did not have any reportable exceedances of our permitted limits.

You will note that on 28th December it is reported that CO,HCL and TOC exceeded the permitted ELV. This was not reported as it occurred whilst solid fuel off which occurred due to a tube leak within the Hybex beam, subsequently the Boiler was off line for the following 11 days.

If you require any further information or clarification please let me know

Best Regards



Kevin Smith
Utilities Manager
UPM (UK) Shotton

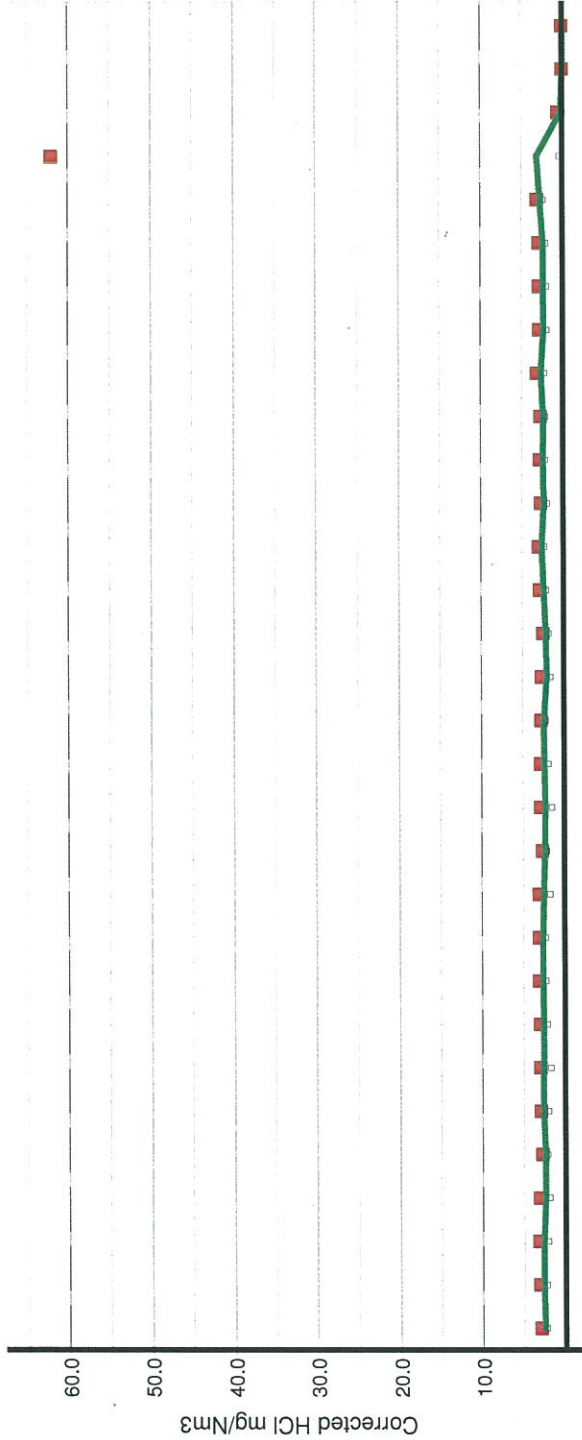
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Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of December 2015

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



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	60
	Maximum 30 min average	3.0	3.1	3.2	3.1	2.8	2.9	3.0	3.0	3.1	3.1	3.1	2.7	2.9	2.9	2.8	2.7	2.5	2.9	3.0	2.8	2.9	2.7	3.2	2.9	2.9	2.9	3.1	62.0	0.6	0.1	0.1	
	Mean 30 min average	2.5	2.6	2.7	2.4	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.4	2.3	2.4	2.5	2.1	2.2	2.4	2.7	2.4	2.5	2.4	2.7	2.3	2.4	2.4	2.8	3.1	0.2	0.0	0.0
	Minimum 30 min average	2.3	2.3	2.1	1.9	2.2	2.0	1.7	2.1	2.3	2.3	1.8	2.1	1.5	1.9	2.2	1.6	1.9	2.1	2.3	2.0	2.2	2.2	2.3	2.0	2.0	2.1	2.4	0.4	0.0	0.0	0.0	
	Total invalid results	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
	Total exceedances	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
24 hour Average	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	10
	Daily average	2.5	2.6	2.7	2.4	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.4	2.3	2.4	2.5	2.1	2.2	2.4	2.7	2.4	2.5	2.4	2.7	2.3	2.4	2.4	2.8	3.1	0.2	0.0	0.0
	No. invalid days	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	y
	Value valid?	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	n
	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	n

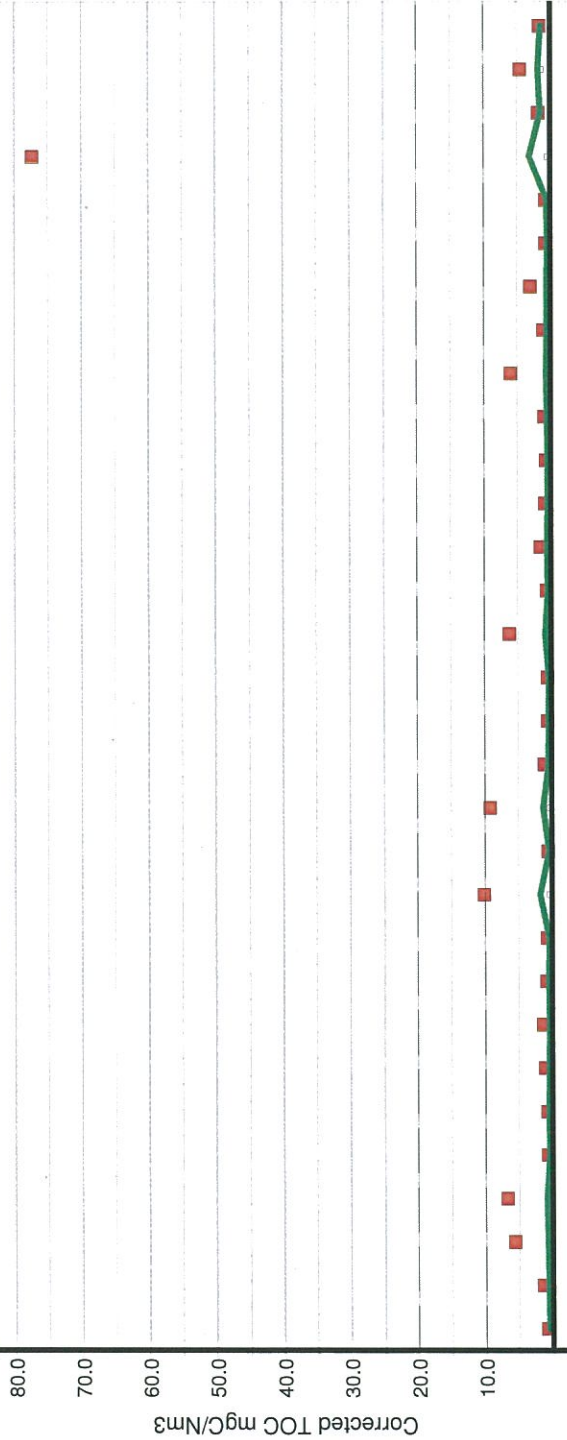
Signed  Date: 14/1/16

(Authorised to sign as representative of Operator)

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

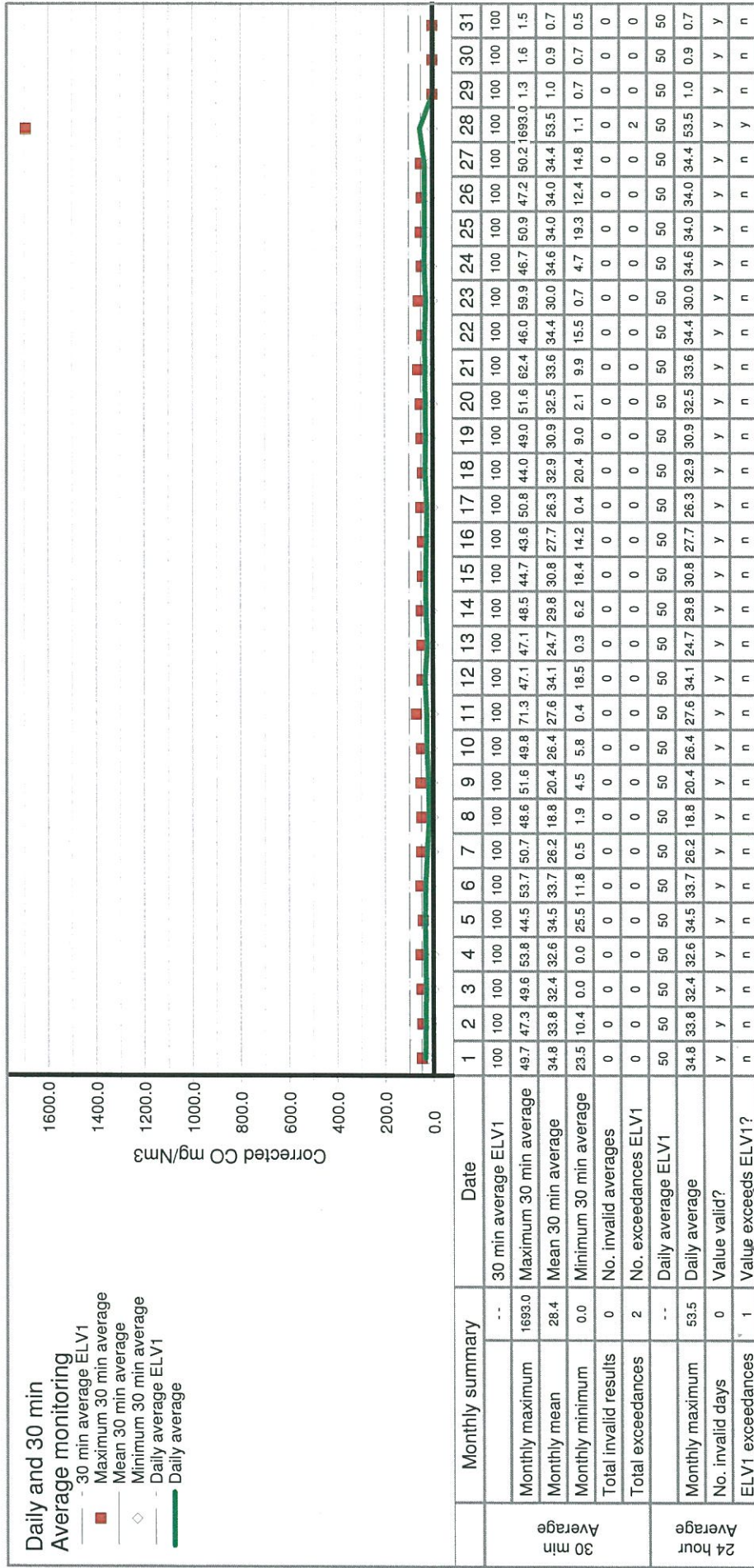


Monthly summary		Date	30 min average ELV1	Maximum 30 min average	Mean 30 min average	Minimum 30 min average	No. invalid averages	No. exceedances ELV1	Daily average ELV1	Daily average	Value valid?	Value exceeds ELV1?
30 Min Average	77.3	1	0.8	1.4	0.6	0.4	0	1	0.6	0.6	y	n
24 hour Average	0.8	2	0.6	0.6	0.6	0.4	0	0	0.6	0.6	y	n
	0.3	3	0.4	0.4	0.4	0.4	0	0	0.4	0.4	y	n
	0	4	0	0	0	0	0	0	0	0	y	n
	1	5	0	0	0	0	0	0	0	0	y	n
	--	6	0	0	0	0	0	0	0	0	y	n
	3.1	7	0.5	0.5	0.5	0.5	0	0	0.5	0.5	y	n
	0	8	0.4	0.4	0.4	0.4	0	0	0.4	0.4	y	n
	0	9	0.8	0.8	0.8	0.8	0	0	0.8	0.8	y	n
	0	10	0.7	0.7	0.7	0.7	0	0	0.7	0.7	y	n
	1.8	11	1.0	1.0	1.0	1.0	0	0	1.0	1.0	y	n
	0.5	12	0.6	0.6	0.6	0.6	0	0	0.6	0.6	y	n
	1.3	13	0.9	0.9	0.9	0.9	0	0	0.9	0.9	y	n
	0.5	14	0.5	0.5	0.5	0.5	0	0	0.5	0.5	y	n
	0.4	15	0.4	0.4	0.4	0.4	0	0	0.4	0.4	y	n
	0	16	0.6	0.6	0.6	0.6	0	0	0.6	0.6	y	n
	0	17	0.7	0.7	0.7	0.7	0	0	0.7	0.7	y	n
	0.5	18	0.5	0.5	0.5	0.5	0	0	0.5	0.5	y	n
	0.4	19	0.4	0.4	0.4	0.4	0	0	0.4	0.4	y	n
	0.4	20	0.5	0.5	0.5	0.5	0	0	0.5	0.5	y	n
	0.8	21	0.8	0.8	0.8	0.8	0	0	0.8	0.8	y	n
	1.0	22	1.0	1.0	1.0	1.0	0	0	1.0	1.0	y	n
	0.6	23	0.6	0.6	0.6	0.6	0	0	0.6	0.6	y	n
	0.4	24	0.4	0.4	0.4	0.4	0	0	0.4	0.4	y	n
	0.4	25	0.4	0.4	0.4	0.4	0	0	0.4	0.4	y	n
	0.8	26	0.8	0.8	0.8	0.8	0	0	0.8	0.8	y	n
	3.1	27	3.1	3.1	3.1	3.1	0	0	3.1	3.1	y	n
	0.5	28	0.5	0.5	0.5	0.5	0	0	0.5	0.5	y	n
	0.6	29	0.6	0.6	0.6	0.6	0	0	0.6	0.6	y	n
	1.5	30	1.5	1.5	1.5	1.5	0	0	1.5	1.5	y	n
	1.4	31	1.4	1.4	1.4	1.4	0	0	1.4	1.4	y	n

Signed  Date: 14/1/16

(Authorised to sign as representative of Operator)

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



14/1/16

Date:

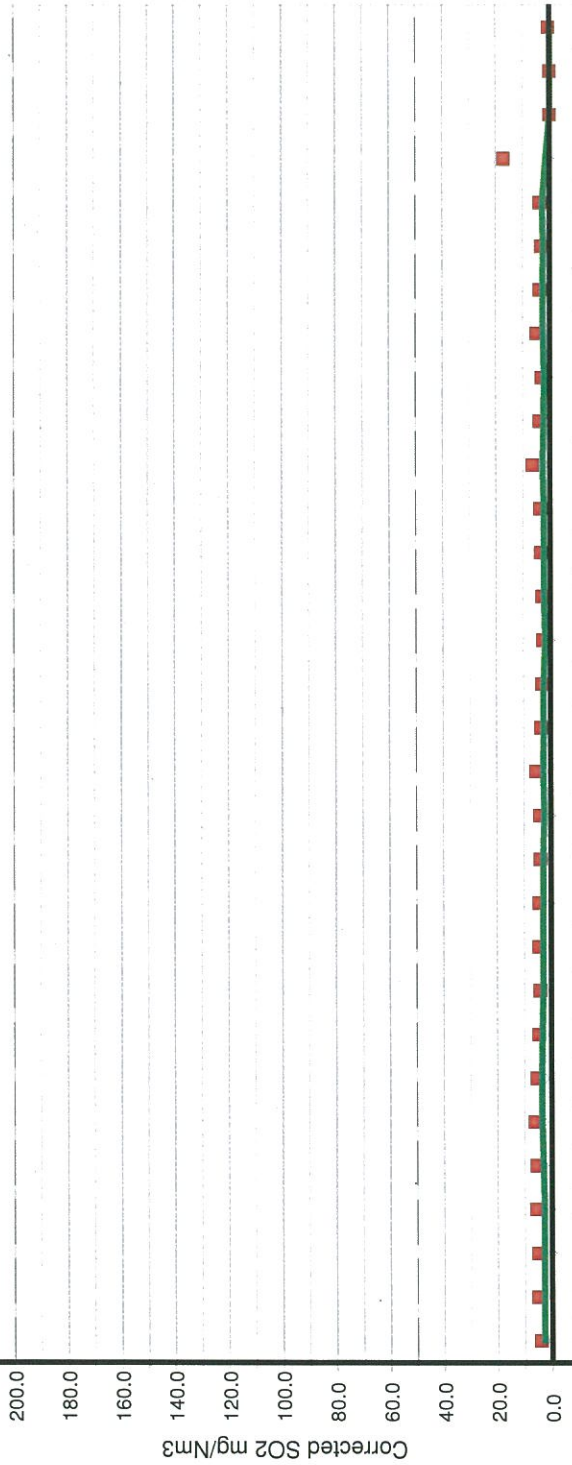
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Signed
 (Authorised to sign as representative of Operator)

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



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	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	
	Maximum 30 min average	4.1	5.2	5.1	5.7	5.6	6.2	5.4	4.7	4.2	4.6	4.3	3.9	4.0	5.6	3.6	3.1	2.8	3.0	3.5	3.7	6.6	3.8	3.1	5.0	3.7	3.1	3.7	17.3	0.0	0.0	0.5		
	Mean 30 min average	3.0	3.0	3.0	2.9	3.3	3.7	3.7	3.5	3.1	3.2	3.0	3.0	2.5	2.9	2.6	2.6	2.1	2.4	2.4	2.5	2.7	2.5	2.2	2.6	2.7	2.5	2.8	1.5	0.0	0.0	0.0		
	Minimum 30 min average	2.6	2.4	0.0	0.4	2.9	2.9	2.4	2.4	2.5	2.6	0.4	2.7	0.0	2.3	2.2	1.9	0.0	2.1	1.7	1.5	2.0	1.3	0.5	2.1	2.3	2.1	2.3	0.0	0.0	0.0	0.0		
	Total invalid results	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	
	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	
	Monthly maximum	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 mean	3.0	3.0	3.0	2.9	3.3	3.7	3.7	3.5	3.1	3.2	3.0	3.0	2.5	2.9	2.6	2.6	2.1	2.4	2.4	2.5	2.7	2.5	2.2	2.6	2.7	2.5	2.8	1.5	0.0	0.0	0.0		
	Monthly minimum	0.0	0.0	0.0	0.4	2.9	2.9	2.4	2.4	2.5	2.6	0.4	2.7	0.0	2.3	2.2	1.9	0.0	2.1	1.7	1.5	2.0	1.3	0.5	2.1	2.3	2.1	2.3	0.0	0.0	0.0	0.0		
24 hour Average	No. invalid results	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. 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	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	
	Daily average	3.0	3.0	3.0	2.9	3.3	3.7	3.7	3.5	3.1	3.2	3.0	3.0	2.5	2.9	2.6	2.6	2.1	2.4	2.4	2.5	2.7	2.5	2.2	2.6	2.7	2.5	2.8	1.5	0.0	0.0	0.0	0.0	
	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	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	N	N	N	N	N	N

[Signature]
 14/1/16

Date:

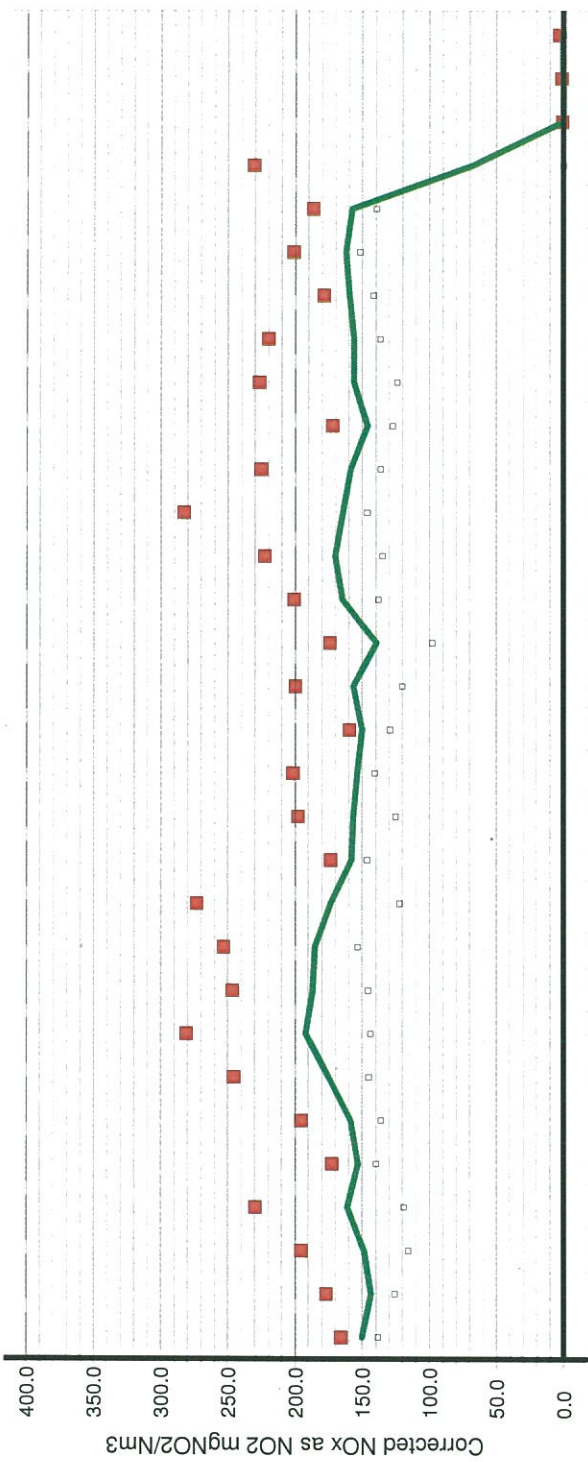
Signed
 (Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
 Installation: Shotton Paper Mill

Operator: UPM-Kymmene (UK) Ltd
 Form Number: Agency Form / PP3936SQ /A7 /Form Dated May 06

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



Monthly summary	Date	30 min average ELV1	Maximum 30 min average	Mean 30 min average	Minimum 30 min average	No. invalid averages	No. exceedances ELV1	Daily average ELV1	Daily average	No. invalid days	Value valid?	Value exceeds ELV1?																							
1	400	400	400	400	400	0	0	0	0	0	0	0																							
2	400	400	400	400	400	0	0	0	0	0	0	0																							
3	400	400	400	400	400	0	0	0	0	0	0	0																							
4	400	400	400	400	400	0	0	0	0	0	0	0																							
5	400	400	400	400	400	0	0	0	0	0	0	0																							
6	400	400	400	400	400	0	0	0	0	0	0	0																							
7	400	400	400	400	400	0	0	0	0	0	0	0																							
8	400	400	400	400	400	0	0	0	0	0	0	0																							
9	400	400	400	400	400	0	0	0	0	0	0	0																							
10	400	400	400	400	400	0	0	0	0	0	0	0																							
11	400	400	400	400	400	0	0	0	0	0	0	0																							
12	400	400	400	400	400	0	0	0	0	0	0	0																							
13	400	400	400	400	400	0	0	0	0	0	0	0																							
14	400	400	400	400	400	0	0	0	0	0	0	0																							
15	400	400	400	400	400	0	0	0	0	0	0	0																							
16	400	400	400	400	400	0	0	0	0	0	0	0																							
17	400	400	400	400	400	0	0	0	0	0	0	0																							
18	400	400	400	400	400	0	0	0	0	0	0	0																							
19	400	400	400	400	400	0	0	0	0	0	0	0																							
20	400	400	400	400	400	0	0	0	0	0	0	0																							
21	400	400	400	400	400	0	0	0	0	0	0	0																							
22	400	400	400	400	400	0	0	0	0	0	0	0																							
23	400	400	400	400	400	0	0	0	0	0	0	0																							
24	400	400	400	400	400	0	0	0	0	0	0	0																							
25	400	400	400	400	400	0	0	0	0	0	0	0																							
26	400	400	400	400	400	0	0	0	0	0	0	0																							
27	400	400	400	400	400	0	0	0	0	0	0	0																							
28	400	400	400	400	400	0	0	0	0	0	0	0																							
29	400	400	400	400	400	0	0	0	0	0	0	0																							
30	400	400	400	400	400	0	0	0	0	0	0	0																							
31	400	400	400	400	400	0	0	0	0	0	0	0																							
Monthly maximum	282.7	176.9	195.5	229.8	172.6	195.6	246.0	281.0	246.9	253.2	273.2	173.6	198.0	201.7	159.5	199.9	174.1	201.0	222.7	282.7	225.3	172.2	226.9	219.9	178.8	201.4	186.8	231.0	0.9	1.4	3.1				
Monthly mean	142.2	150.3	143.8	148.6	161.2	153.2	158.8	175.1	192.0	186.9	185.4	173.6	157.9	156.6	153.8	150.0	156.7	139.7	164.8	170.2	164.6	158.8	146.3	156.2	156.2	159.6	162.4	157.6	67.5	0.3	0.4	0.5			
Monthly minimum	0.0	138.4	125.9	115.8	119.1	139.9	136.3	145.4	143.9	145.8	153.4	122.3	146.6	125.3	140.7	129.4	120.1	97.6	138.1	135.1	146.5	136.4	127.2	124.1	136.7	141.9	151.7	139.7	0.0	0.0	0.0	0.1			
Total invalid results	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		
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	0	
Monthly maximum	192.0	150.3	143.8	148.6	161.2	153.2	158.8	175.1	192.0	186.9	185.4	173.6	157.9	156.6	153.8	150.0	156.7	139.7	164.8	170.2	164.6	158.8	146.3	156.2	156.2	159.6	162.4	157.6	67.5	0.3	0.4	0.5			
No. invalid days	0	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	y	y	
ELV1 exceedances	0	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	n	n	n

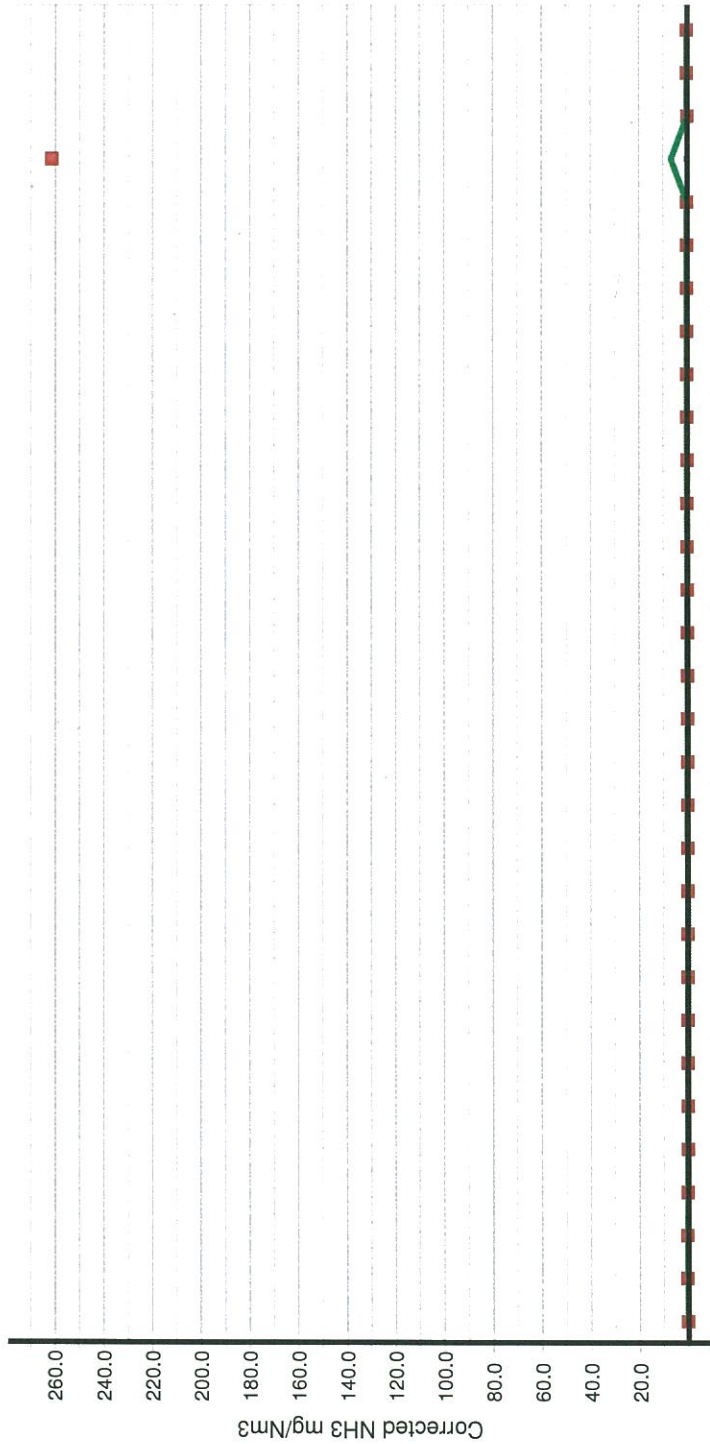
Signed:  Date: 14/1/16

(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 December 2015



30 min average	Monthly maximum	261.5	Maximum 30 min average	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	
	Monthly mean	0.4	Mean 30 min average		0.4	0.5	0.2	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	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	261.5	0.2	0.3	0.3	
	Monthly minimum	0.0	Minimum 30 min average		0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.0	0.0	0.1	0.1
	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	0	0	0	
24 hour average	Monthly maximum	6.8	Daily average		0.3	0.3	0.4	0.2	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	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	6.8	0.1	0.1	0.2	
	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		

Date: 14/1/16

Signed: 
 (Authorised to sign as representative of Operator)