

UPM-Kymmene (UK)

Memo
External
9th March 2015
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 28th February 2015.
During the period there were no actual exceedances to report.

If you require any further information please let me know

Best Regards



Kevin Smith
Utilities Manager
UPM (UK) Shotton

Office +44 (0) 1244284393
Mobile +44 (0) 7736497124

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

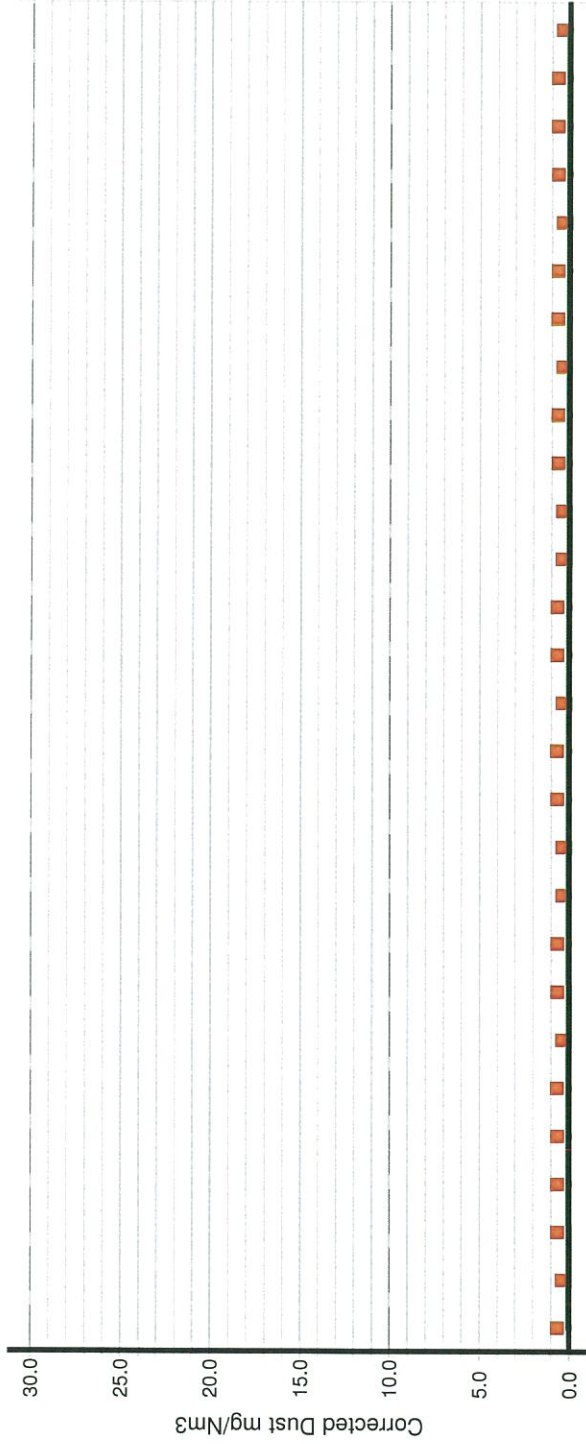
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A2 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Particulates Emission Point A20 for the month of February 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
		--	30 min average ELV1		0.7	0.4	0.6	0.7	0.6	0.7	0.4	0.7	0.7	0.4	0.4	0.7	0.7	0.4	0.7	0.7	0.4	0.6	0.6	0.7	0.4	0.7	0.6	0.4	0.7	0.7	0.7	0.4
Monthly maximum	0.7		Maximum 30 min average		0.7	0.4	0.6	0.7	0.6	0.7	0.4	0.7	0.7	0.4	0.4	0.7	0.7	0.4	0.7	0.7	0.4	0.6	0.6	0.7	0.4	0.7	0.6	0.4	0.7	0.7	0.7	0.4
Monthly mean	0.0		Mean 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
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
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
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
Monthly maximum	0.0		Daily 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
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
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

[Signature]

Signed
(Authorised to sign as representative of Operator)

9/3/15
Date.....

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 February 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																													
	--	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		
30 min Average	Monthly maximum	2.0	Maximum 30 min average	1.5	1.6	1.5	1.4	1.7	1.7	1.8	1.7	1.6	1.8	1.7	1.7	1.6	1.8	1.9	2.0	1.8	1.8	1.8	1.9	1.7	1.8	1.7	1.8	1.9	1.9	1.7		
	Monthly mean	1.4	Mean 30 min average	1.2	1.3	1.2	1.2	1.3	1.5	1.4	1.4	1.3	1.4	1.5	1.4	1.4	1.6	1.5	1.4	1.4	1.3	1.4	1.4	1.4	1.2	1.4	1.4	1.5	1.5	1.4		
	Monthly minimum	0.6	Minimum 30 min average	1.1	1.0	1.0	0.8	0.6	1.1	0.9	1.0	1.0	1.2	1.3	1.0	1.1	1.2	1.3	1.3	1.1	1.1	0.9	1.1	1.2	1.1	0.9	1.1	1.1	1.1	1.1	1.2	
	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	0	0
	Monthly maximum	--	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
	No. invalid days	1.6	Daily average	1.2	1.3	1.2	1.2	1.3	1.5	1.4	1.4	1.3	1.4	1.5	1.4	1.4	1.6	1.5	1.4	1.4	1.3	1.4	1.4	1.4	1.2	1.4	1.4	1.5	1.5	1.5	1.4	
	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	y	y
	Value exceeds ELV1?																															

Signed
(Authorised to sign as representative of Operator)

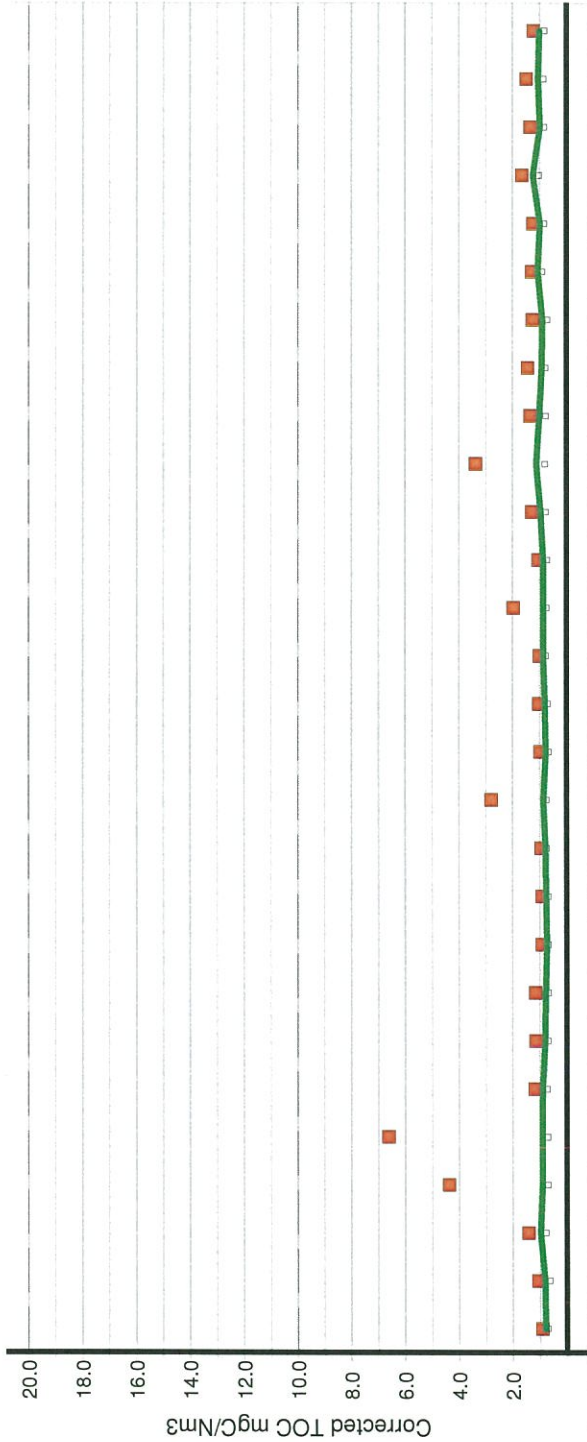
Date: 9/3/15

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

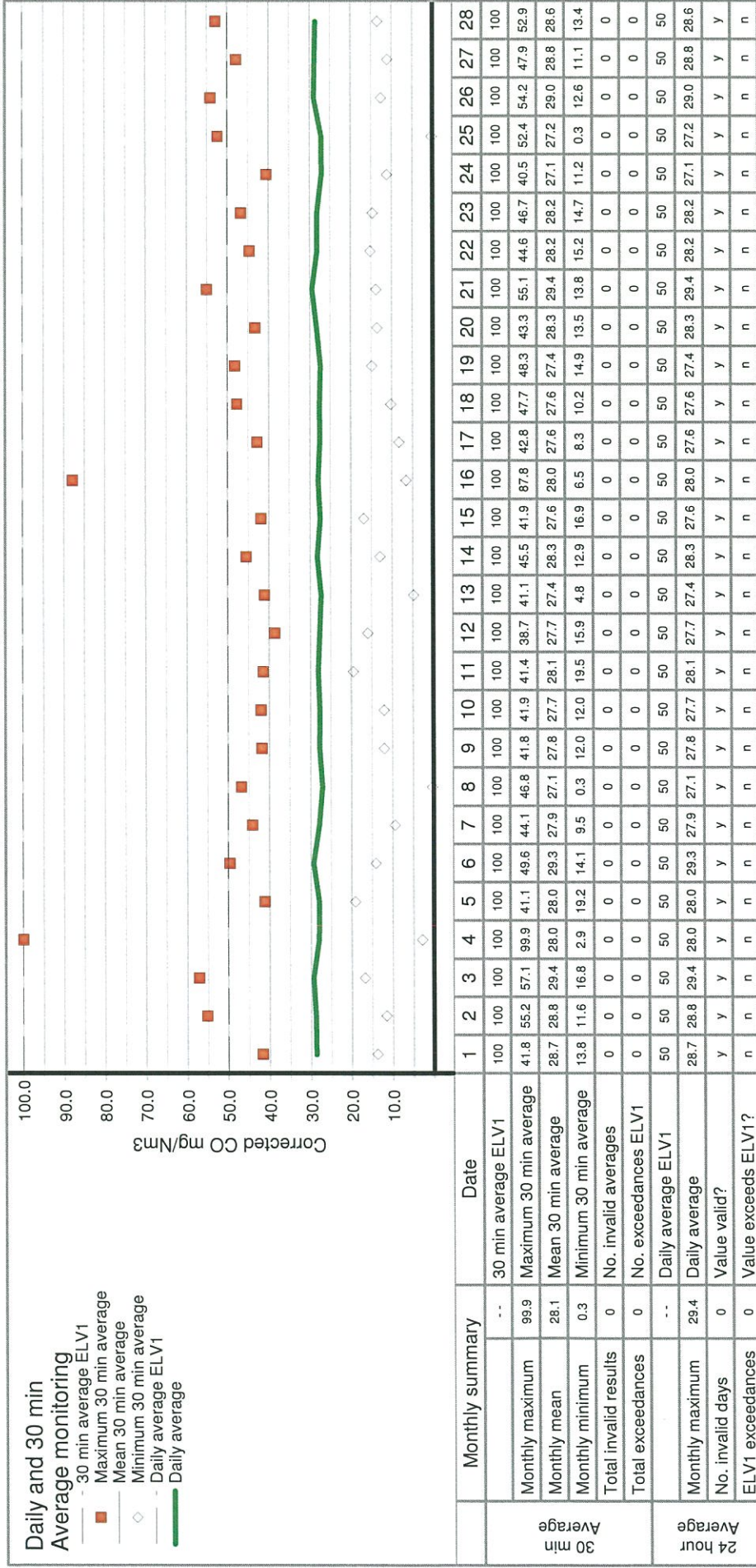


Average	Monthly summary		Date																												
	--	30 min average ELV1	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
30 min	Monthly maximum	6.6	0.9	1.1	1.4	4.4	6.6	1.2	1.2	1.2	0.9	0.9	1.0	2.8	1.0	1.0	2.0	1.0	1.3	3.4	1.4	1.4	1.3	1.3	1.2	1.7	1.3	1.5	1.2		
	Monthly mean	0.9	0.8	0.8	1.0	0.9	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.9	0.8	0.9	0.9	0.9	1.0	1.1	1.0	0.9	0.9	1.1	1.0	1.3	1.0	1.1	1.0		
	Monthly minimum	0.6	0.7	0.6	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.7	0.9	0.8	1.0	0.8	0.9	0.8	
	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
24 hour	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
	--	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
	Monthly maximum	1.3	0.8	0.8	1.0	0.9	0.9	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.9	0.8	0.8	0.9	0.9	0.9	1.0	1.1	1.0	0.9	0.9	1.1	1.0	1.3	1.0	1.1	1.0
	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
Average	No. invalid days	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
	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

Signed
(Authorised to sign as representative of Operator)

Date: 9/3/15

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



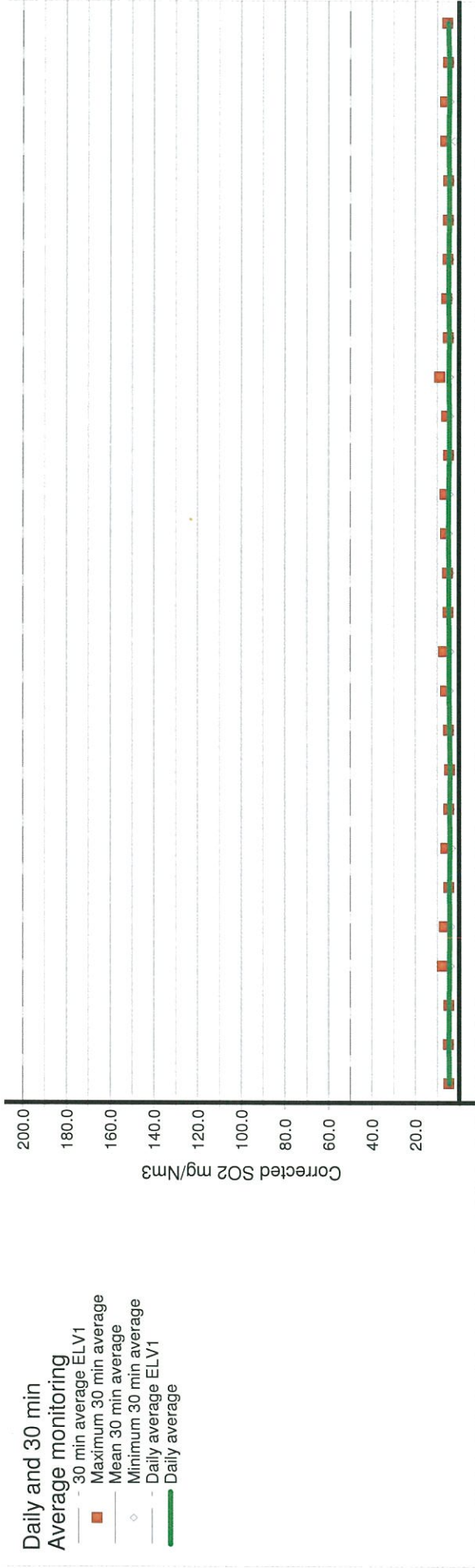
Signed  (Authorised to sign as representative of Operator)

Date 9/3/15

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 February 2015



30 min Average	Monthly summary		Date																											
	--	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
Monthly maximum	9.0	Maximum 30 min average	4.9	5.0	4.9	7.8	6.8	4.9	6.0	4.9	4.4	4.9	6.3	7.0	5.0	5.3	6.2	6.3	4.9	5.7	9.0	5.0	5.8	5.2	5.1	5.0	6.3	6.3	5.1	5.4
Monthly mean	4.6	Mean 30 min average	4.6	4.7	4.6	4.5	4.4	4.5	4.3	4.4	4.2	4.5	4.6	4.6	4.7	4.7	5.0	4.8	4.5	4.6	4.7	4.5	4.8	4.7	4.5	4.6	4.7	4.6	4.5	4.9
Monthly minimum	2.0	Minimum 30 min average	4.1	4.3	4.3	4.0	3.7	4.1	3.4	3.8	3.8	4.1	4.3	4.1	4.5	4.1	4.7	4.4	4.1	4.1	4.2	4.0	4.3	4.2	4.1	3.8	2.0	4.0	3.9	4.6
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
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
24 hour Average	--	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
	5.0	Daily average	4.6	4.7	4.6	4.5	4.4	4.5	4.3	4.4	4.2	4.5	4.6	4.6	4.7	4.7	5.0	4.8	4.5	4.6	4.7	4.5	4.8	4.7	4.5	4.6	4.7	4.6	4.5	4.9
	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
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

Signed
(Authorised to sign as representative of Operator)

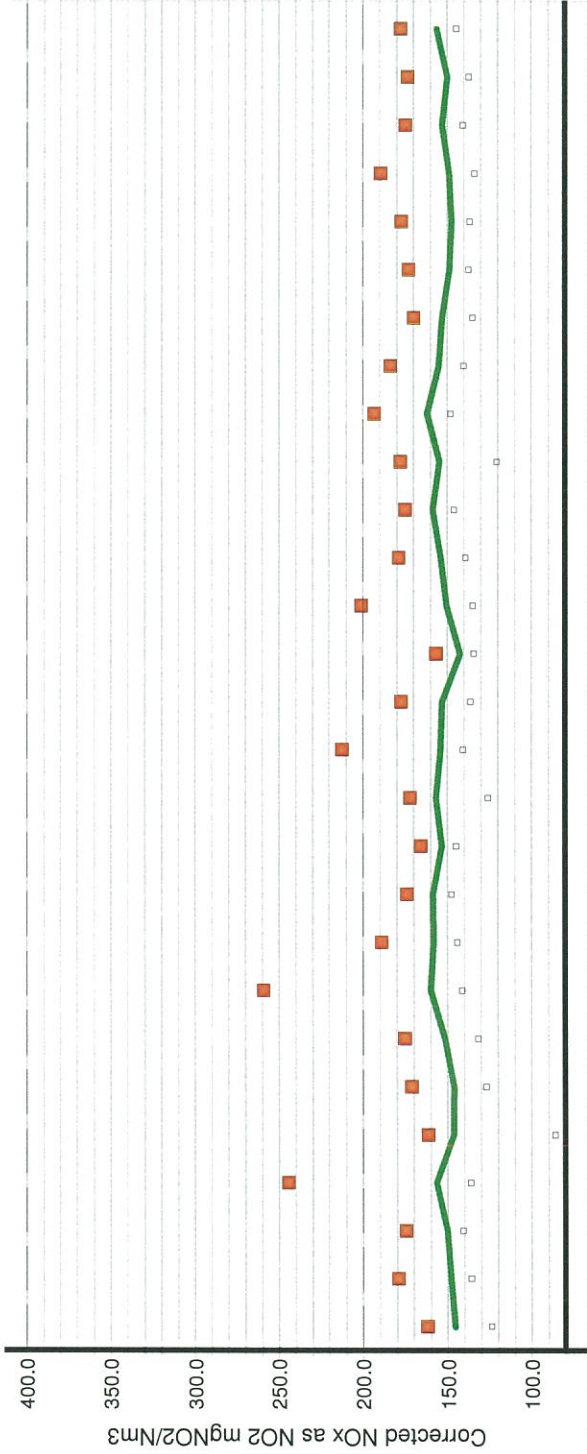
Date: 9/3/15

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of February 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																											
		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
Monthly maximum	30 min average ELV1	162.0	179.1	174.6	244.2	161.4	171.4	175.3	259.2	188.9	174.1	165.8	172.2	212.4	177.5	156.8	201.2	178.8	175.0	177.9	193.4	183.8	170.0	172.9	177.3	189.6	174.7	173.4	177.7
Monthly mean	Maximum 30 min average	145.7	147.9	150.2	156.6	146.3	146.2	151.6	160.0	158.4	158.7	153.4	156.9	154.2	153.3	142.6	150.5	153.9	158.7	154.8	161.9	155.1	153.1	148.7	147.4	149.0	153.1	149.9	156.3
Monthly minimum	Mean 30 min average	123.9	136.0	140.9	136.2	86.1	127.2	132.0	141.5	144.2	147.6	144.9	126.0	140.6	136.4	134.4	135.0	139.3	146.2	120.5	148.1	140.4	134.9	137.4	136.8	133.8	140.6	137.3	144.6
Total invalid results	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
Total exceedances	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	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
	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
	Daily average	145.7	147.9	150.2	156.6	146.3	146.2	151.6	160.0	158.4	158.7	153.4	156.9	154.2	153.3	142.6	150.5	153.9	158.7	154.8	161.9	155.1	153.1	148.7	147.4	149.0	153.1	149.9	156.3
No. invalid days	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
ELV1 exceedances	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 Date 7/3/15

(Authorised to sign as representative of Operator)

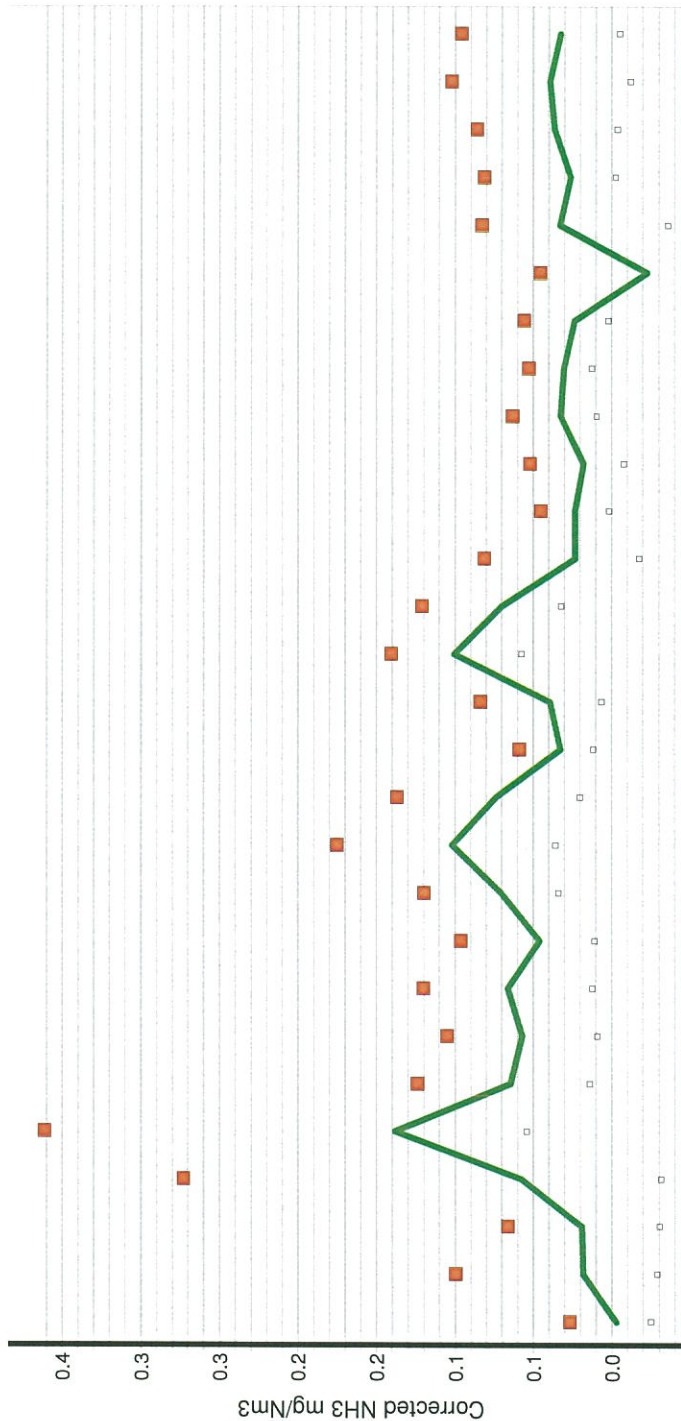
emit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

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 February 2015

Daily and 30 min
Average monitoring

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



Monthly summary		Date																													
30 min average	Monthly maximum	0.4	0.1	0.1	0.3	0.4	0.2	0.2	0.1	0.2	0.2	0.1	0.1	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	
	Monthly mean	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	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	0.1
	Monthly minimum	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	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	
	Monthly maximum	0.2	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
24 hour average	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
	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
	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

Signed  (Authorised to sign as representative of Operator)

Date 9/3/15