

UPM-Kymmene (UK)

Memo
External
10th April 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 31st March 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
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Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

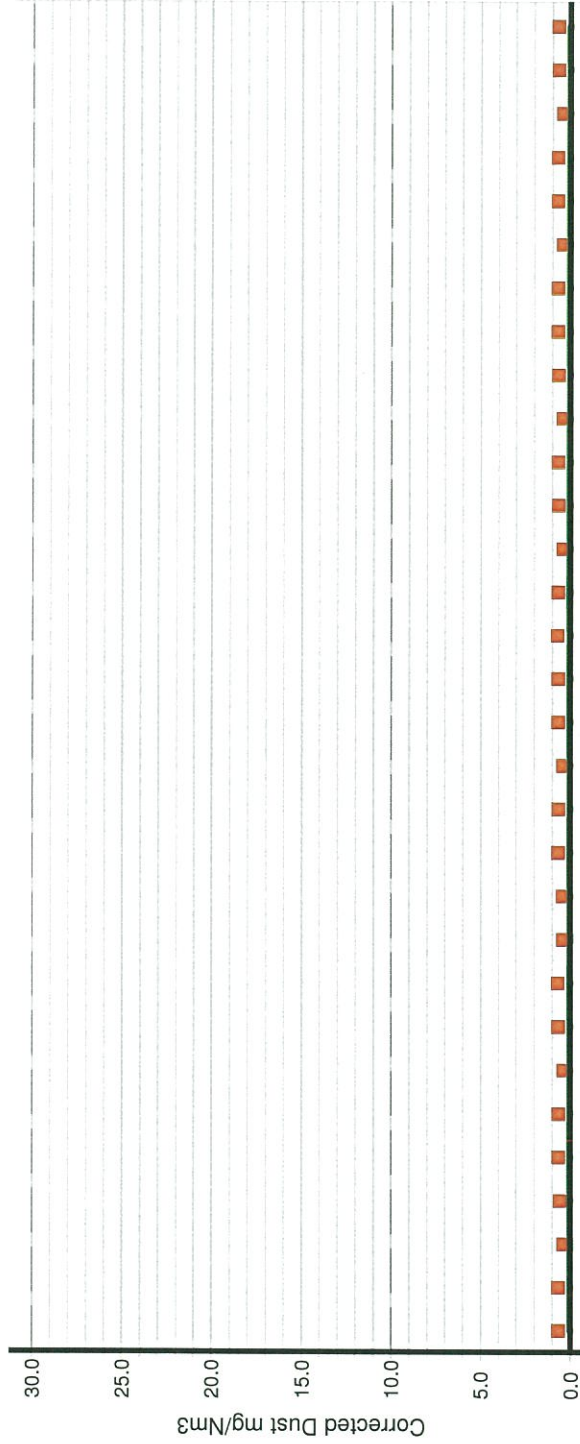
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A2 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Particulates Emission Point A20 for the month of March 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	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	Monthly maximum	0.7	0.7	0.7	0.4	0.6	0.7	0.7	0.7	0.4	0.7	0.7	0.4	0.4	0.7	0.7	0.4	0.7	0.7	0.7	0.4	0.7	0.7	0.4	0.6	0.7	0.7	0.4	0.7	0.7	0.4	0.7	0.7			
	Monthly mean	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.1				
	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0	0	0	0	0	0	0	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	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			
	Monthly maximum	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.1			
	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			
Average	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			
	Value exceeds,ELV1?																																			

Signed  Date 10/4/15

(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

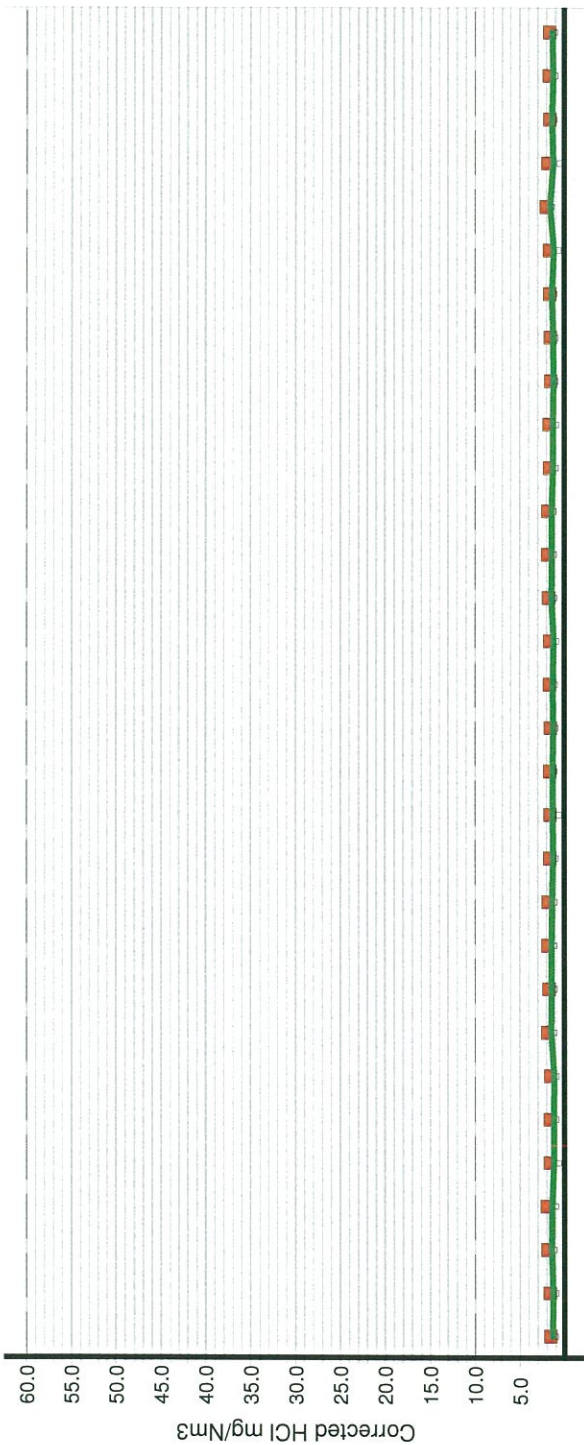
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A3 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of March 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	31
	Monthly maximum	--	30 min average ELV1	2.0	1.6	1.9	2.0	1.6	1.6	1.6	1.9	1.8	1.9	1.8	1.9	1.8	1.6	1.7	1.6	1.7	1.7	1.8	1.9	1.8	1.7	1.7	1.6	1.6	1.7	1.7	2.0	1.9	1.7	1.7	
30 min Average	Monthly mean	1.4	Mean 30 min average	1.3	1.3	1.5	1.4	1.2	1.2	1.2	1.5	1.5	1.5	1.4	1.3	1.4	1.3	1.3	1.4	1.3	1.5	1.4	1.4	1.3	1.3	1.2	1.3	1.4	1.2	1.6	1.3	1.4	1.3	1.4	
	Monthly minimum	0.5	Minimum 30 min average	1.0	1.0	1.2	1.0	0.7	1.0	0.9	1.2	1.1	1.2	1.1	1.0	0.6	1.2	1.0	1.1	0.9	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.1	0.7	1.4	0.5	1.1	1.1	1.1	
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	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	0	0	0	
24 hour Average	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	10	10	10
	No. invalid days	1.6	Daily average	1.3	1.3	1.5	1.4	1.2	1.2	1.2	1.5	1.5	1.5	1.4	1.3	1.4	1.3	1.3	1.4	1.3	1.5	1.4	1.4	1.3	1.3	1.2	1.3	1.4	1.2	1.6	1.3	1.4	1.3	1.4	
24 hour Average	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	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	n	

10/4/15

Date

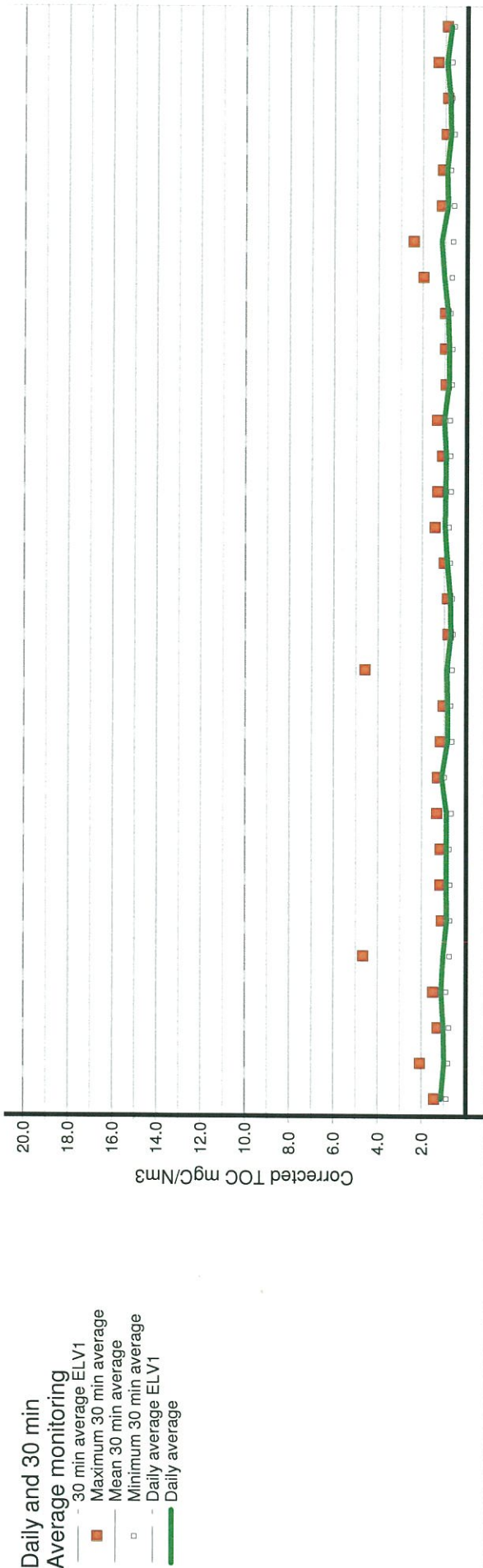
[Signature]

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 / A4 / Form Dated May 06

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



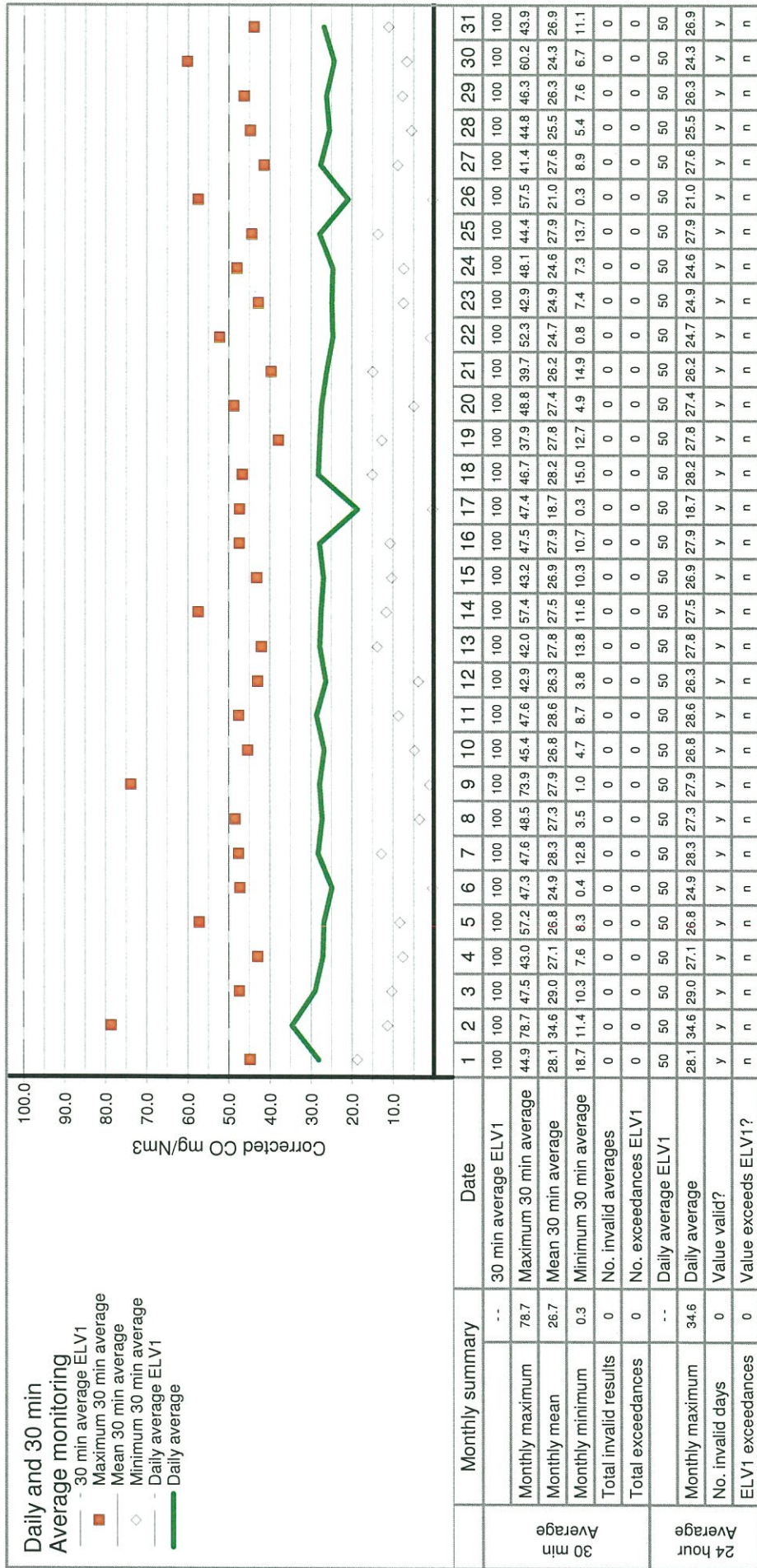
30 min Average	Monthly summary		Date																																	
	Monthly maximum	4.7	30 min average ELV1	--	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
30 min Average	Monthly maximum	4.7	Maximum 30 min average	1.5	2.1	1.3	1.5	4.7	1.1	1.2	1.2	1.3	1.3	1.2	1.0	4.6	0.8	0.9	1.0	1.4	1.3	1.1	1.4	1.0	1.0	1.0	2.0	2.4	1.2	1.1	0.9	0.9	1.3	0.9		
	Monthly mean	0.9	Mean 30 min average	1.1	1.0	1.0	1.1	1.0	0.9	0.9	0.9	0.9	1.1	0.9	0.9	0.9	0.7	0.7	0.9	1.0	1.0	0.9	1.0	0.8	0.8	0.9	1.0	1.2	0.9	0.9	0.8	0.8	0.9	0.7		
	Monthly minimum	0.6	Minimum 30 min average	0.9	0.8	0.8	0.9	0.8	0.8	0.7	0.8	0.7	0.8	1.0	0.7	0.7	0.7	0.6	0.6	0.8	0.8	0.7	0.7	0.8	0.7	0.7	0.8	0.7	0.7	0.6	0.8	0.6	0.7	0.7	0.6	
	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	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	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	10	
	Monthly maximum	1.2	Daily average	1.1	1.0	1.0	1.1	1.0	0.9	0.9	0.9	0.9	1.1	0.9	0.9	0.9	0.7	0.7	0.9	1.0	1.0	0.9	1.0	0.8	0.8	0.9	1.0	1.2	0.9	0.9	0.8	0.8	0.9	0.7		
	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	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	n	

Signed  Date: 10/4/15
(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 March 2015



Signed
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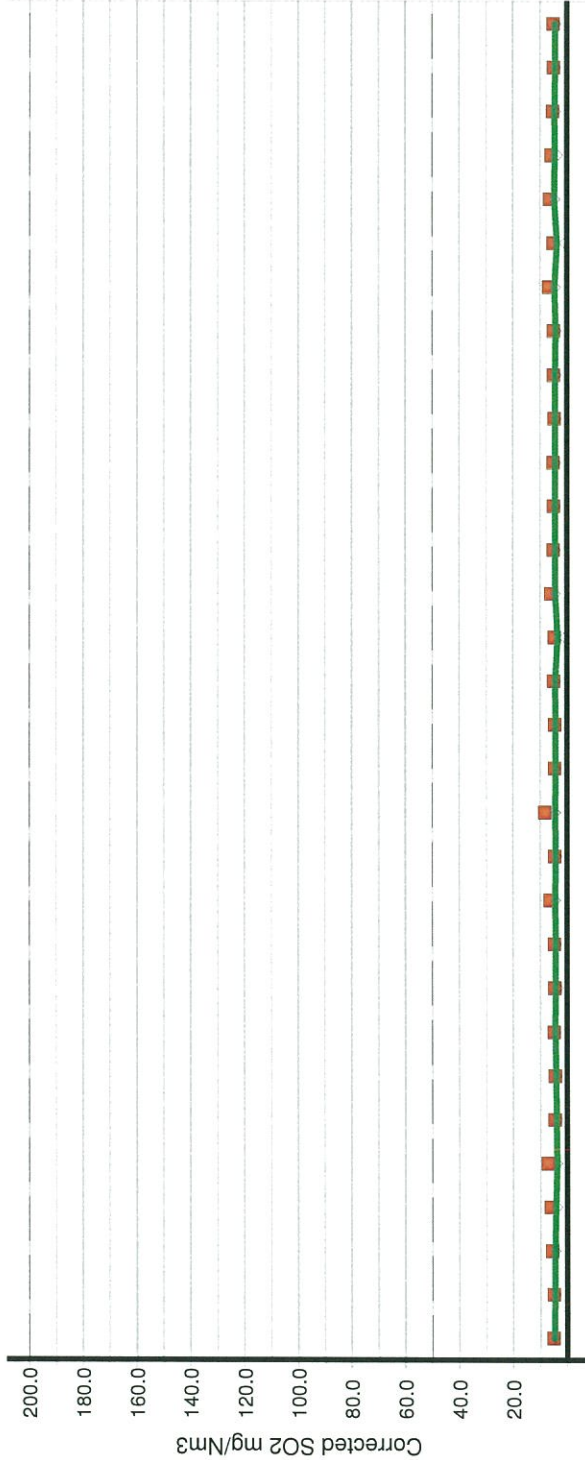
Date: 10/4/15

Reporting of Continuously Monitored Emissions to Air for Sulphur Dioxide Emission Point A20 for the month of March 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	31
	Monthly maximum	--	30 min average ELV1	Maximum 30 min average	5.2	5.1	5.6	6.0	7.1	4.6	4.6	4.9	4.6	4.6	6.3	4.6	8.4	4.8	4.6	5.0	4.8	6.0	5.1	5.0	5.2	4.8	5.0	5.1	6.8	5.2	6.5	5.9	5.4	5.1	5.2
24 hour Average	Monthly mean	4.4	Mean 30 min average	4.9	4.6	4.6	4.6	4.3	3.9	4.0	4.2	4.5	4.4	4.3	4.5	4.3	4.6	4.3	4.4	4.5	3.6	4.5	4.5	4.5	4.5	4.4	4.5	4.3	4.7	3.8	4.9	4.6	4.7	4.5	4.4
	Monthly minimum	1.2	Minimum 30 min average	4.5	4.2	4.2	3.5	3.5	3.2	3.7	4.2	3.1	3.8	4.2	3.7	4.0	4.0	4.0	4.1	4.2	1.2	4.2	4.2	4.2	4.0	3.9	3.9	3.8	4.2	1.3	4.3	3.2	4.1	4.1	3.9
30 min	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	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	0	0	0	0
24 hour	Monthly maximum	--	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
	No. invalid days	4.9	Daily average	4.9	4.6	4.6	4.3	3.9	4.0	4.2	4.5	4.4	4.3	4.3	4.5	4.3	4.6	4.3	4.4	4.5	3.6	4.5	4.5	4.5	4.5	4.4	4.5	4.3	4.7	3.8	4.9	4.6	4.7	4.5	4.4
30 min	Value valid?	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?	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	n

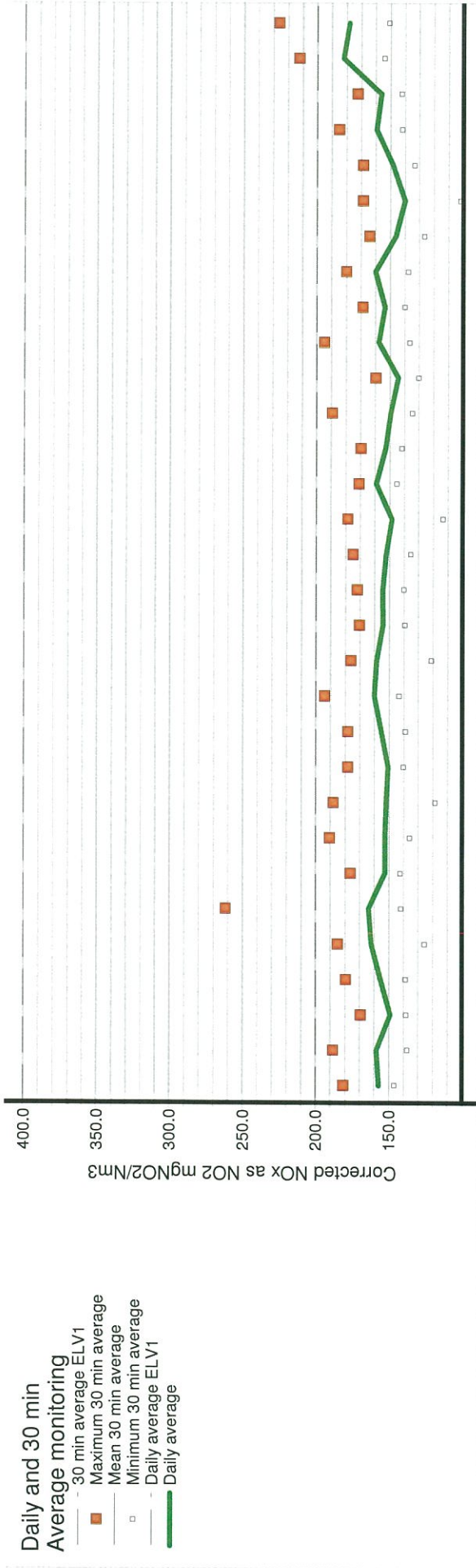
Signed
(Authorised to sign as representative of Operator)

Date 10/4/15

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 March 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	29	30	31	
30 min Average	261.6	Maximum	181.1	188.2	169.5	179.5	185.1	261.6	176.3	190.6	188.0	178.2	178.2	194.1	176.2	170.4	172.0	174.7	178.6	170.9	169.8	189.4	159.7	194.8	168.7	179.8	164.0	168.5	168.5	185.1	172.4	212.5	226.2	
	155.7	Mean	156.9	158.4	149.1	155.8	162.1	164.0	152.9	152.8	152.0	150.8	155.3	160.2	158.6	154.3	154.5	152.4	148.5	159.2	152.7	149.5	144.3	157.6	153.5	159.9	146.2	140.0	148.2	159.5	156.2	182.3	178.0	
	101.8	Minimum	146.4	137.8	138.4	138.8	125.9	141.9	142.5	136.2	118.7	140.4	138.9	143.3	121.4	139.5	140.3	135.5	113.5	145.1	141.8	134.7	130.3	136.7	139.9	137.8	126.7	101.8	133.3	141.9	142.3	154.2	151.0	
		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
24 hour Average		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
	--	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
	182.3	Daily average	156.9	158.4	149.1	155.8	162.1	164.0	152.9	152.8	152.0	150.8	155.3	160.2	158.6	154.3	154.5	152.4	148.5	159.2	152.7	149.5	144.3	157.6	153.5	159.9	146.2	140.0	148.2	159.5	156.2	182.3	178.0	
	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
	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

Signed
(Authorised to sign as representative of Operator)

Date 10/4/15

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

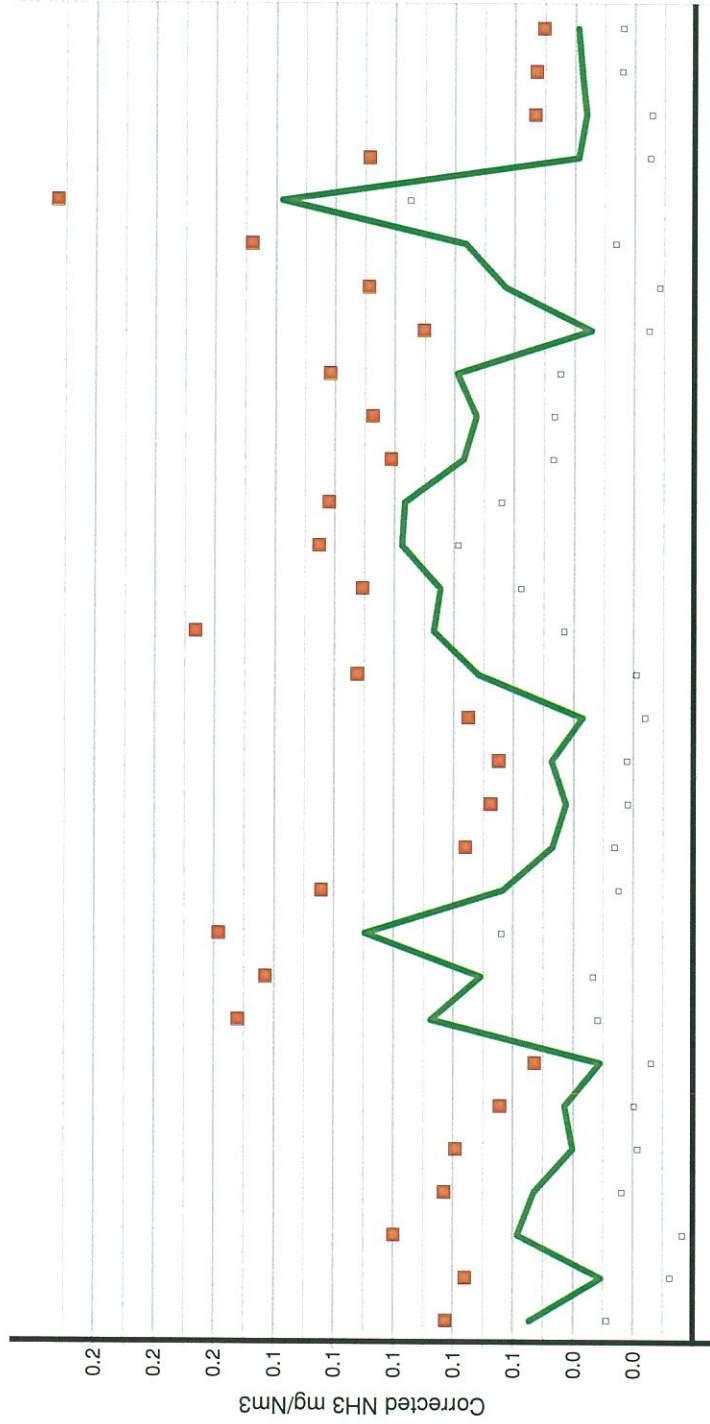
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A8 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Ammonia Emission Point A20 for the month of March 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	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Monthly mean	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	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	0.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	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
	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
24 hour average	Monthly maximum	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	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	0	0

Signed
(Authorised to sign as representative of Operator)

Date: 10/4/15