

UPM-Kymmene (UK)

Memo
External
8th April 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

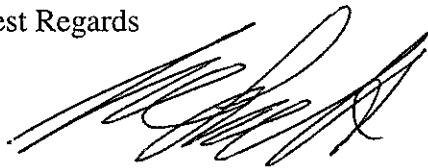
Fax - 01244 548805
Email north.wales.ppc@naturalresourceswales.gov.uk

Please find enclosed graphs / reports for Continuously Monitored Emissions to Air A2 to A8 for the period ending 31st March 2016.

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

If you require any further information or clarification 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

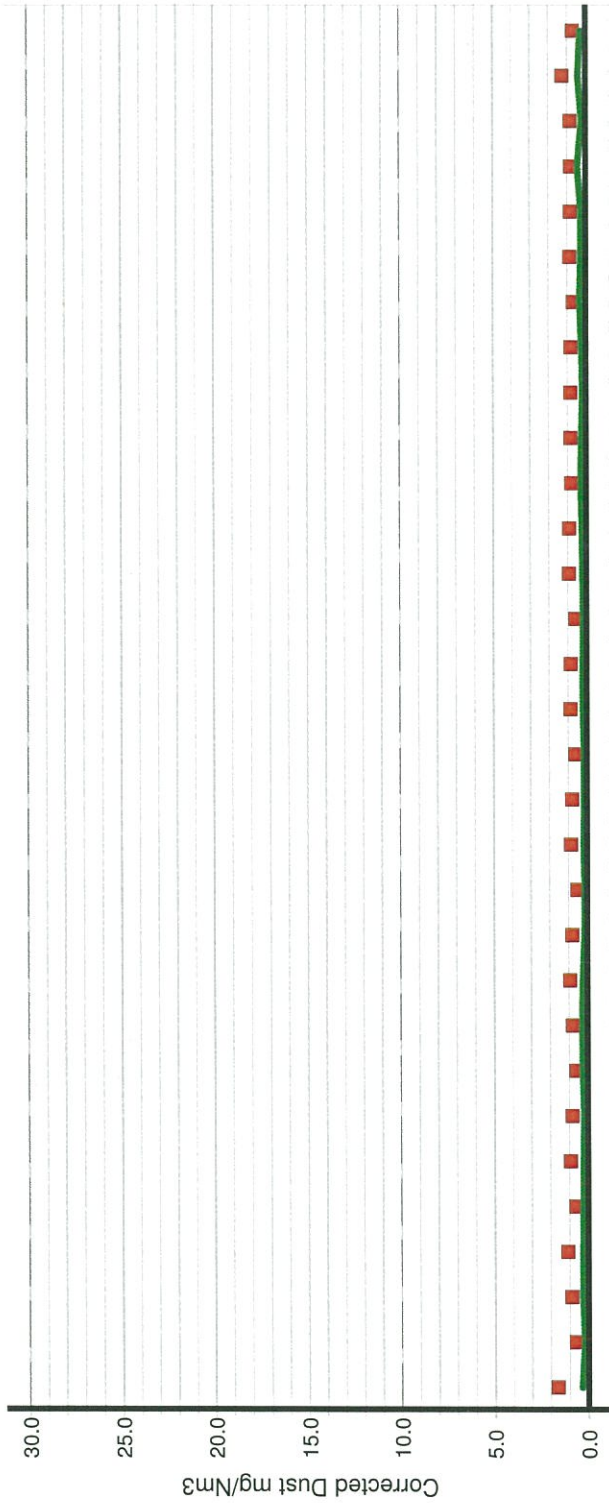
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A2 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Particulates Emission Point A20 for the month of March 2016

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	1.6	30 min average ELV1	0	30	0.6	0.9	1.1	0.6	0.9	0.8	0.6	0.8	0.9	0.8	0.5	0.9	0.8	0.6	0.6	0.9	0.8	0.6	0.9	0.8	0.8	0.8	0.8	0.7	0.9	0.8	0.8	0.8	1.3	0.7
24 hour Average	Monthly mean	0.3	Mean 30 min average	0	30	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.4	0.3
	Monthly minimum	0.0	Minimum 30 min average	0	30	0.1	0.2	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	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.1	0.2	0.1
30 min Average	Total invalid results	0	No. invalid averages	0	30	0	0	0	0	0	0	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	30	0	0	0	0	0	0	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	0.4	Daily average ELV1	0	30	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	0	Daily average	0	30	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.4	0.3
24 hour Average	Value valid?	0	Value valid?	0	30	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?	0	30	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: 7/4/16

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

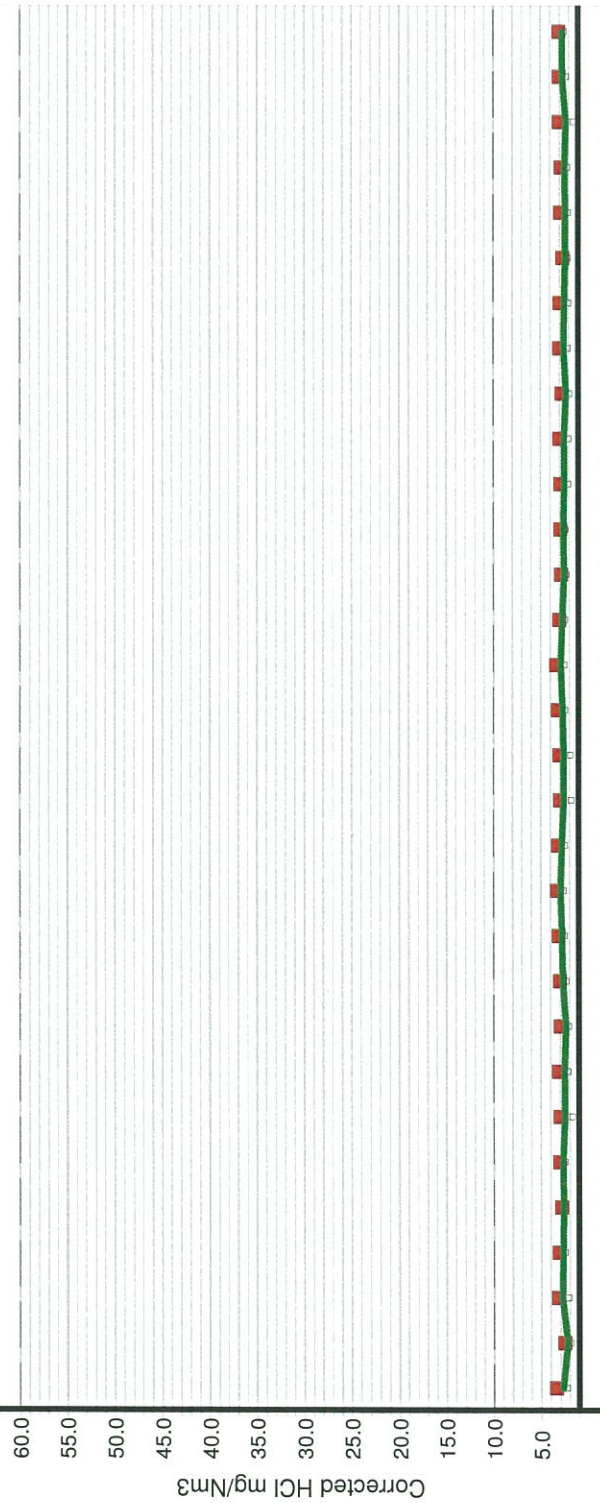
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A3 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of March 2016

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	
		--	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
30 min Average	Monthly maximum	3.4	Maximum 30 min average	3.4	2.5	3.2	3.1	2.8	3.0	3.0	3.0	3.1	2.9	3.0	3.1	3.3	3.2	3.0	3.0	3.2	3.4	3.0	2.8	2.9	2.9	3.0	2.8	3.0	3.0	2.7	2.9	2.8	3.0	3.0	3.0	3.1
	Monthly mean	2.6	Mean 30 min average	2.7	2.2	2.8	2.7	2.6	2.7	2.5	2.5	2.4	2.7	2.8	2.9	2.8	2.6	2.6	2.7	2.9	2.7	2.5	2.6	2.5	2.5	2.3	2.6	2.5	2.4	2.4	2.5	2.3	2.7	2.7	2.7	
	Monthly minimum	1.5	Minimum 30 min average	2.3	1.9	2.1	2.5	2.4	2.5	1.7	2.2	2.1	2.4	2.5	2.6	2.5	1.8	1.8	2.5	2.5	2.5	2.3	2.4	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.2	1.5	2.3	2.5	
	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	
	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	2.9	Daily average	2.7	2.2	2.8	2.7	2.6	2.7	2.5	2.5	2.4	2.7	2.8	2.9	2.8	2.6	2.6	2.7	2.9	2.7	2.5	2.6	2.5	2.5	2.3	2.6	2.5	2.4	2.4	2.5	2.3	2.7	2.7	2.7	
	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	
24 hour Average	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	

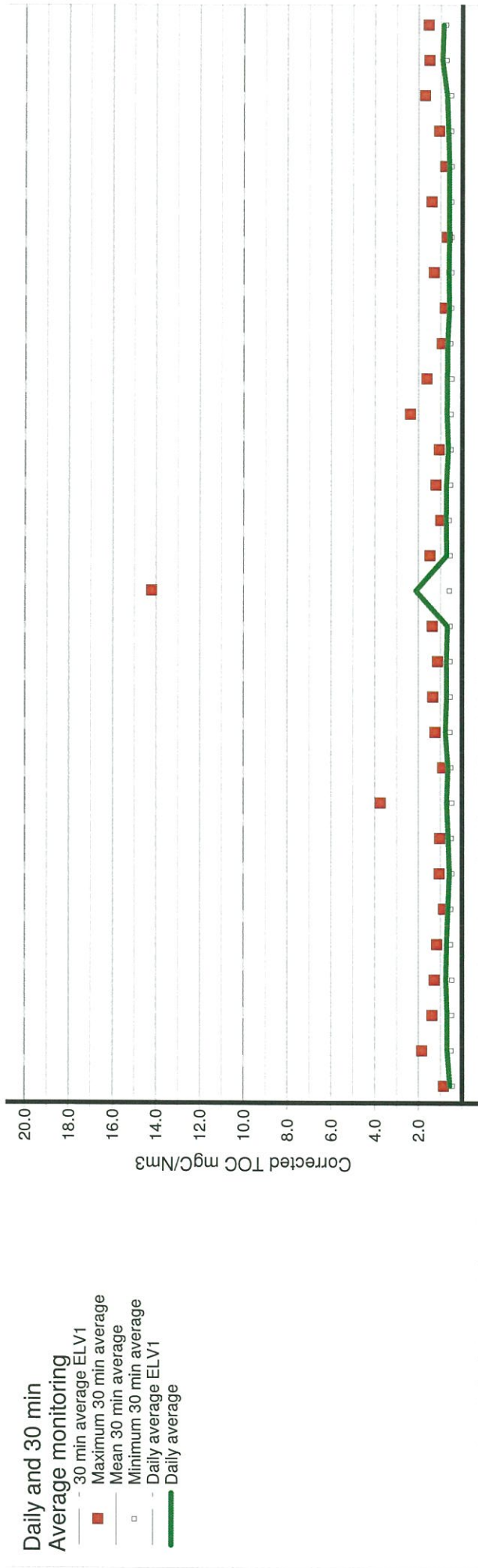
Signed
(Authorised to sign as representative of Operator)

Date: 2/4/16

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 2016



Average 30 min	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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

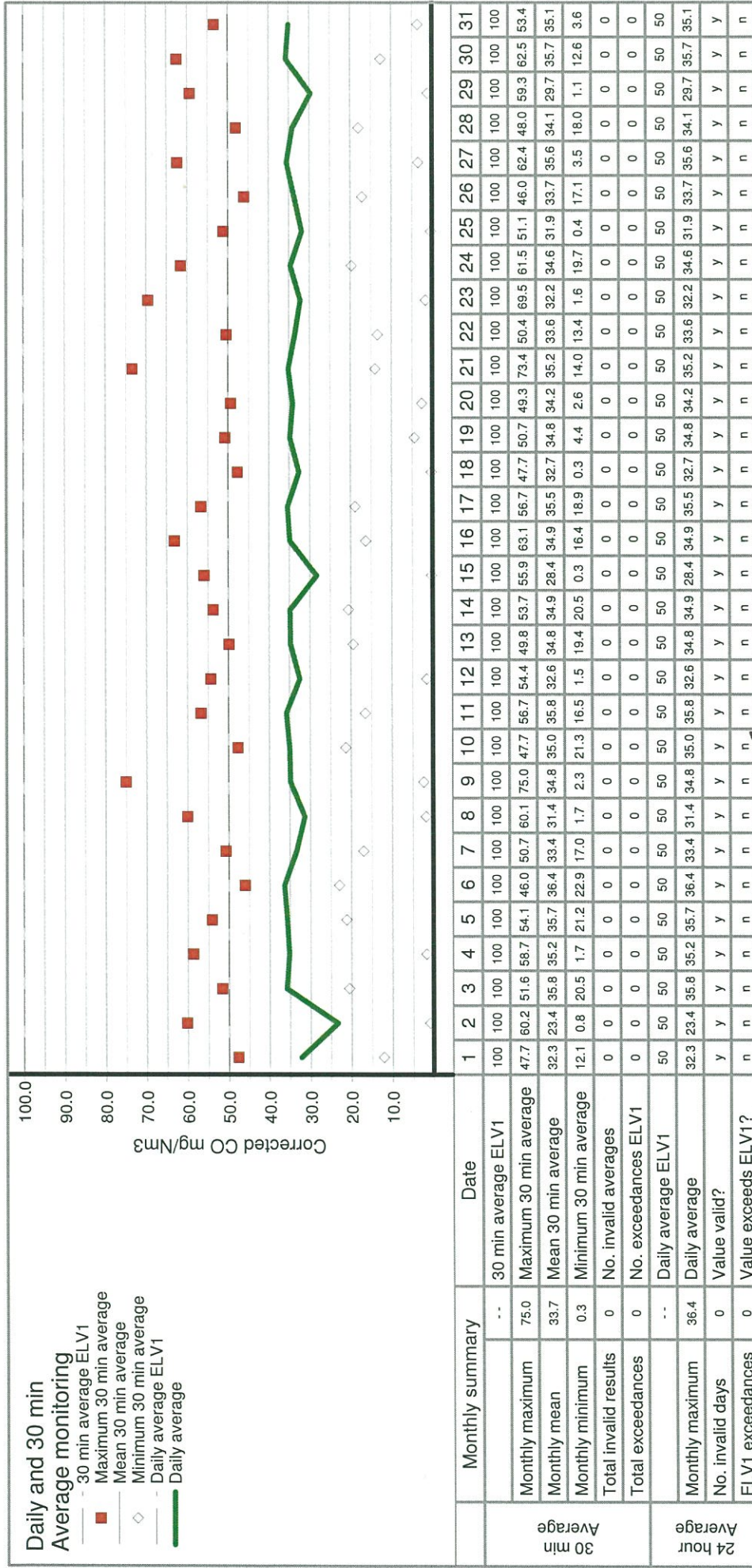
Signed
(Authorised to sign as representative of Operator)

Date 2/4/16

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 2016



Signed
(Authorised to sign as representative of Operator)

Date: 7/4/16

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

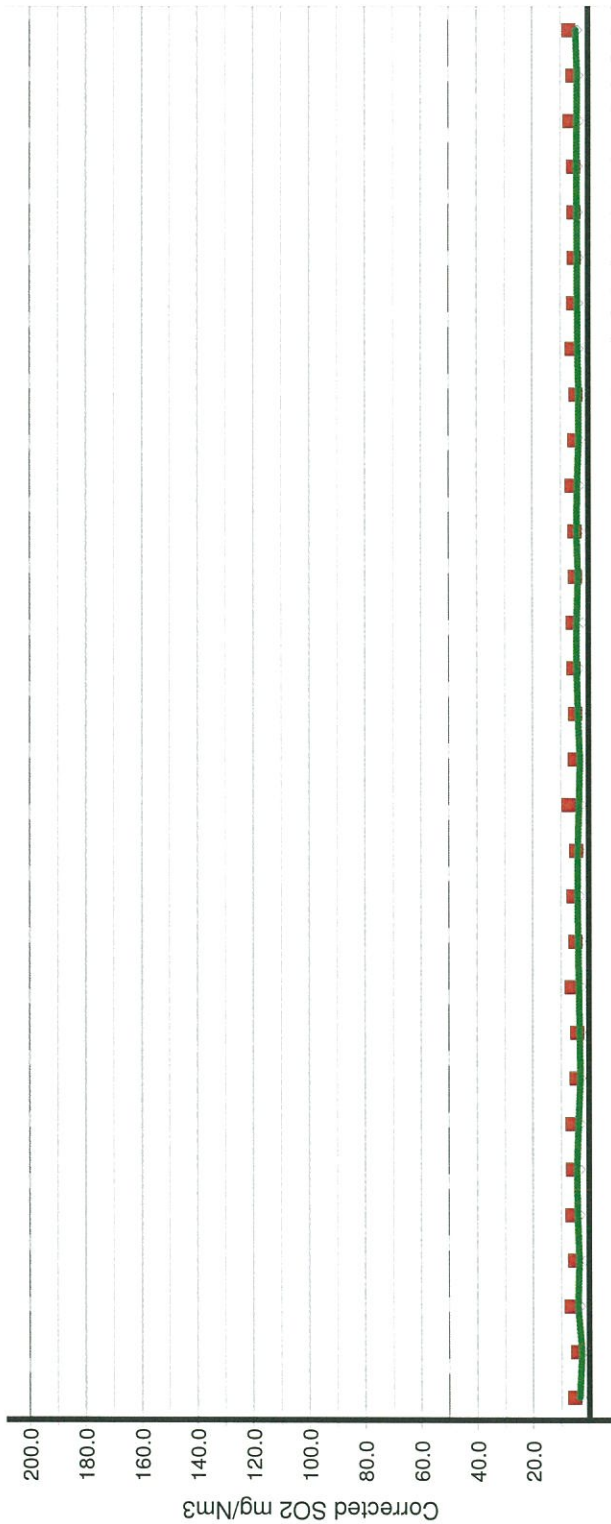
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A6 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Sulphur Dioxide Emission Point A20 for the month of March 2016

Daily and 30 min

Average monitoring

- 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
	--	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	200
30 min Average	Monthly maximum	7.1	Maximum 30 min average	5.2	4.1	6.3	5.1	5.9	5.8	5.8	4.4	4.2	6.0	4.7	5.3	4.3	7.1	4.9	4.7	5.3	5.5	4.7	4.8	5.9	4.8	4.4	5.7	5.2	5.0	5.0	5.2	6.6	5.4	6.9	
	Monthly mean	3.8	Mean 30 min average	3.5	2.7	4.0	3.6	4.2	4.4	3.8	3.2	3.3	3.6	3.9	4.1	3.9	3.4	3.2	3.9	4.3	4.3	3.8	4.3	4.0	3.5	3.5	3.8	3.9	4.0	4.1	4.1	4.0	3.9	4.5	
	Monthly minimum	0.7	Minimum 30 min average	2.8	1.8	3.0	1.4	3.1	3.2	2.9	2.7	2.8	2.7	2.8	3.0	3.1	2.4	0.7	2.8	3.3	2.0	3.1	3.2	3.0	2.9	2.5	3.3	3.5	3.4	3.6	3.7	3.2	3.3	3.9	
	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	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	
	--	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	
	4.5	Daily average	3.5	2.7	4.0	3.6	4.2	4.4	3.8	3.2	3.3	3.6	3.9	4.1	3.9	4.1	3.9	3.4	3.2	3.9	4.3	4.3	3.8	4.3	4.0	3.5	3.5	3.8	3.9	4.0	4.1	4.1	4.0	3.9	4.5
	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	
24 hour Average	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	

Signed
(Authorised to sign as representative of Operator)

Date 7/4/16

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

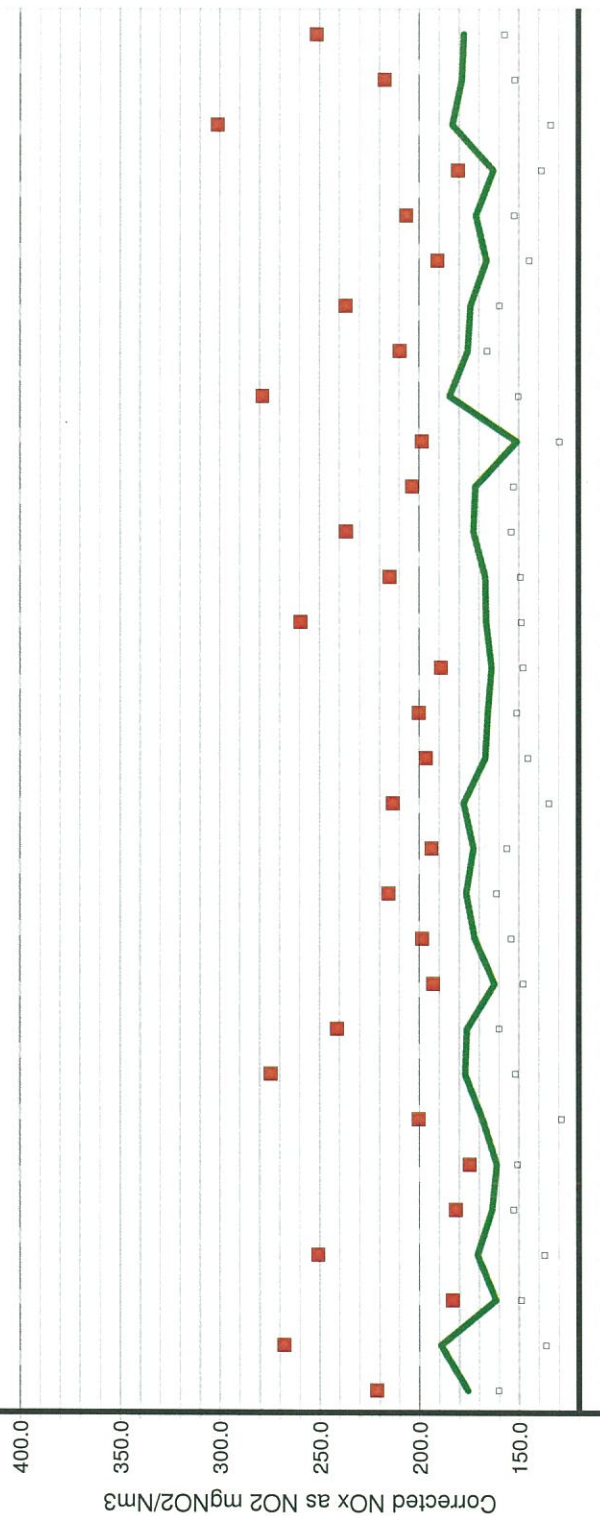
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A7 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of March 2016

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 30 min	Monthly summary		Date																																	
	Monthly maximum	--	30 min average	ELV1																																
Average 24 hour	Monthly maximum	301.0	221.4	267.8	183.3	250.6	181.8	174.7	200.3	274.5	241.2	193.1	198.7	215.5	193.8	213.3	196.7	200.2	189.0	259.5	214.9	236.7	203.5	198.7	278.5	209.8	236.8	190.8	206.5	180.5	301.0	217.4	251.4			
	Monthly mean	171.1	175.7	189.3	161.6	170.8	163.5	161.1	168.3	177.1	176.2	162.4	172.3	176.4	172.8	177.7	166.8	165.7	163.8	166.5	167.0	172.9	171.9	151.0	184.7	175.7	174.3	166.2	171.6	162.8	183.4	178.5	177.6			
	Monthly minimum	128.8	160.2	136.4	148.8	137.1	152.5	150.6	128.8	151.8	159.8	147.7	153.8	161.2	156.0	134.9	145.5	151.0	147.8	148.6	149.1	153.8	152.6	129.4	150.2	165.8	159.6	144.6	152.2	138.6	134.0	152.0	157.0			
	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			
Average 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			
	Monthly maximum	--	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			
	Daily average	189.3	175.7	189.3	161.6	170.8	163.5	161.1	168.3	177.1	176.2	162.4	172.3	176.4	172.8	177.7	166.8	165.7	163.8	166.5	167.0	172.9	171.9	151.0	184.7	175.7	174.3	166.2	171.6	162.8	183.4	178.5	177.6			
	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 24 hour	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?	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			

Signed
(Authorised to sign as representative of Operator)

Date 2/4/16

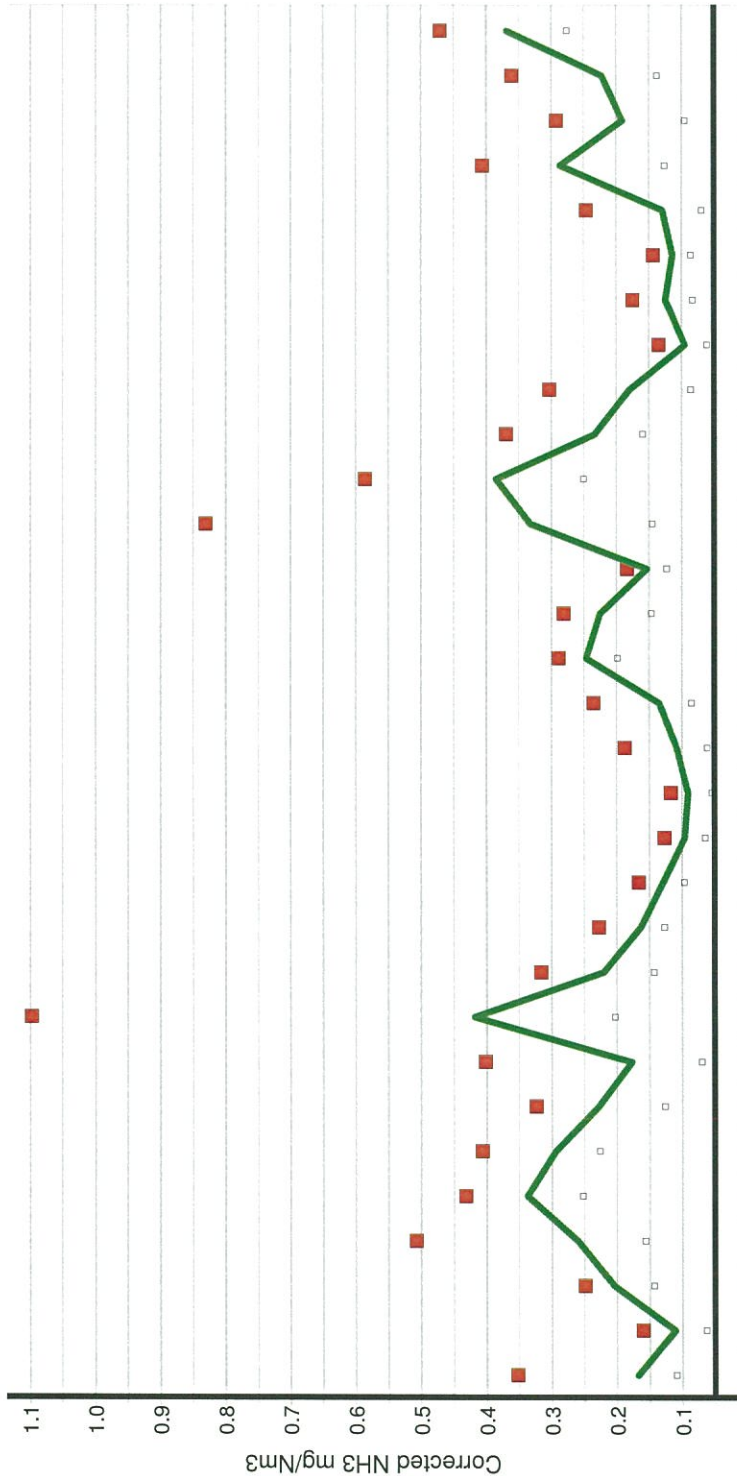
Unit Reference Number: PP3936SQ
Location: Shotton Paper Mill

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 2016

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	1.1	Maximum 30 min average	
Monthly mean	0.2	Mean 30 min average	
Monthly minimum	0.1	Minimum 30 min average	
Total invalid results	0	No. invalid averages	
Monthly maximum	0.4	Daily average	
No. invalid days	0	Value valid?	

[Signature]

Signed Date: 7/4/16

(Authorised to sign as representative of Operator)