

UPM-Kymmene (UK)

Memo
External
24th January 2017
KOS

1 (1)

Month End Report

UPM-Kymmene (UK)

Permit Reference PP3936SQ
Installation Shotton Paper

To
Matthew Kelk
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 2016.

During the period there have not been any exceedances or non conformances to report

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

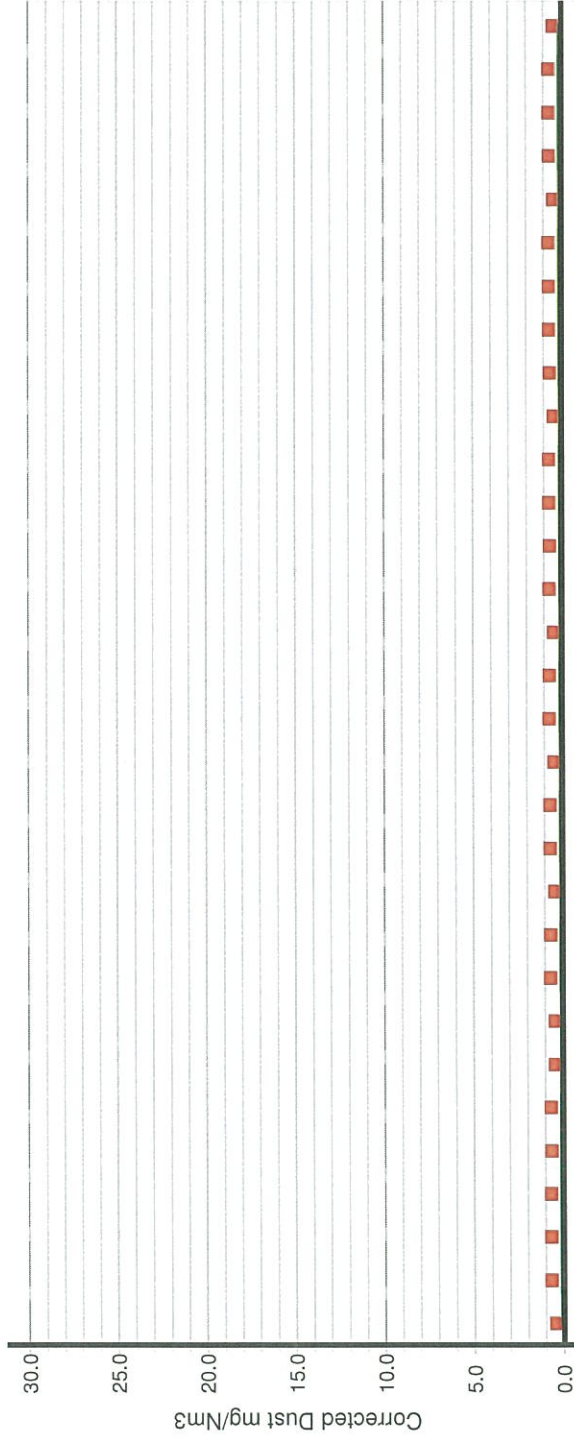
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ/A2 /Form Dated May 06

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



Monthly summary		Date																															
Average 30 min	--	30 min average ELV1	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
	0.72	Maximum 30 min average	0.43	0.68	0.69	0.69	0.67	0.68	0.43	0.43	0.70	0.68	0.43	0.70	0.69	0.45	0.72	0.71	0.45	0.71	0.67	0.71	0.70	0.43	0.66	0.68	0.69	0.71	0.43	0.67	0.69	0.69	0.43
	0.03	Mean 30 min average	0.03	0.03	0.04	0.04	0.03	0.04	0.03	0.03	0.04	0.04	0.03	0.04	0.04	0.03	0.04	0.04	0.03	0.04	0.04	0.03	0.04	0.03	0.04	0.03	0.03	0.04	0.03	0.04	0.04	0.04	0.03
	0.00	Monthly minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	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
Average 24 hour	--	Daily average ELV1	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	0.04	Daily average	0.03	0.03	0.04	0.04	0.03	0.03	0.04	0.03	0.04	0.04	0.03	0.04	0.04	0.03	0.04	0.04	0.03	0.04	0.04	0.03	0.04	0.03	0.04	0.03	0.03	0.04	0.03	0.04	0.04	0.03	0.03
	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

Signed
(Authorised to sign as representative of Operator)

Date: 24/11/17

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

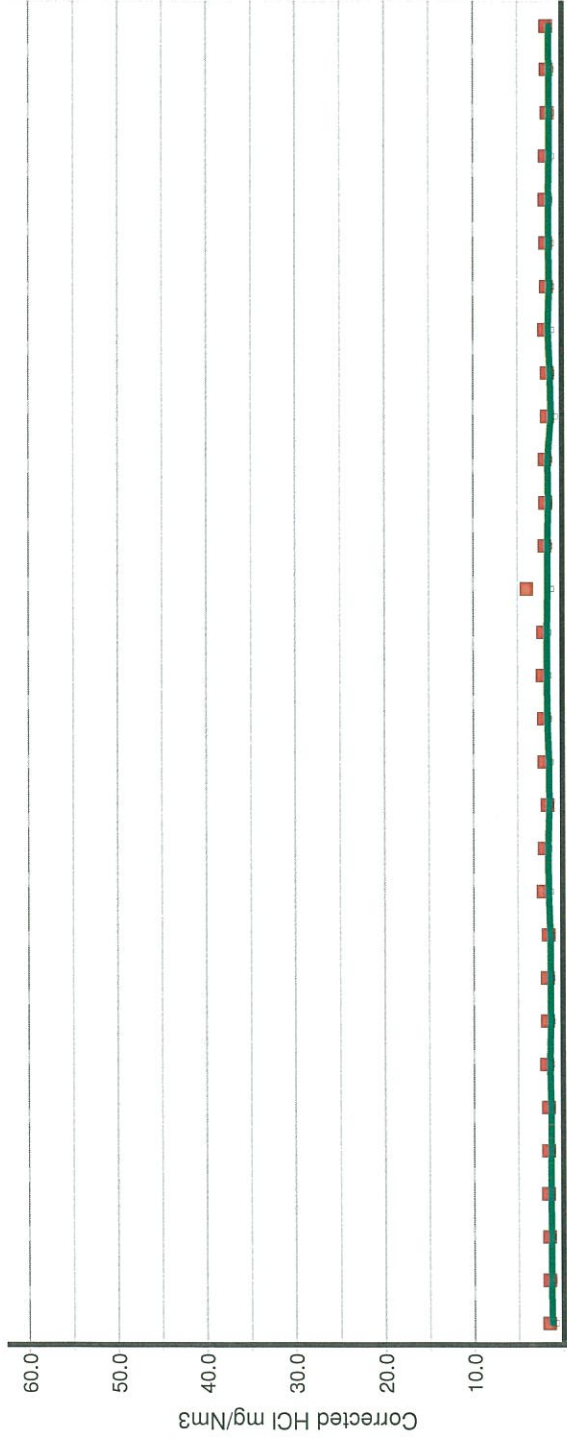
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A3 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of December 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	--	30 min average ELV1	--	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
Monthly maximum	3.98		Maximum 30 min average		1.57	1.56	1.55	1.67	1.64	1.64	1.79	1.70	1.69	1.58	2.14	2.00	1.67	2.02	2.05	2.18	2.12	3.98	1.95	1.83	1.90	1.65	1.65	1.92	1.69	1.76	1.84	1.81	1.60	1.69	1.75
Monthly mean	1.49		Mean 30 min average		1.30	1.39	1.34	1.41	1.40	1.38	1.47	1.39	1.41	1.42	1.59	1.63	1.50	1.55	1.68	1.74	1.72	1.67	1.66	1.57	1.61	1.25	1.36	1.56	1.44	1.49	1.49	1.44	1.42	1.41	1.46
Monthly minimum	0.73		Minimum 30 min average		0.83	1.07	1.20	1.27	1.26	1.25	1.27	1.22	1.22	1.23	1.39	1.48	1.31	1.36	1.52	1.56	1.55	1.26	1.42	1.40	1.43	0.73	1.12	1.23	1.15	1.20	1.35	1.17	1.21	1.21	1.31
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
Monthly maximum	1.74		Daily average ELV1		10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
No. invalid days	0		Daily average		1.30	1.39	1.34	1.41	1.40	1.38	1.47	1.39	1.41	1.42	1.59	1.63	1.50	1.55	1.68	1.74	1.72	1.67	1.66	1.57	1.61	1.25	1.36	1.56	1.44	1.49	1.44	1.42	1.41	1.41	1.46
ELV1 exceeds ELV1?	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 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

[Signature]

Signed.....
(Authorised to sign as representative of Operator)

24/1/17
Date.....

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

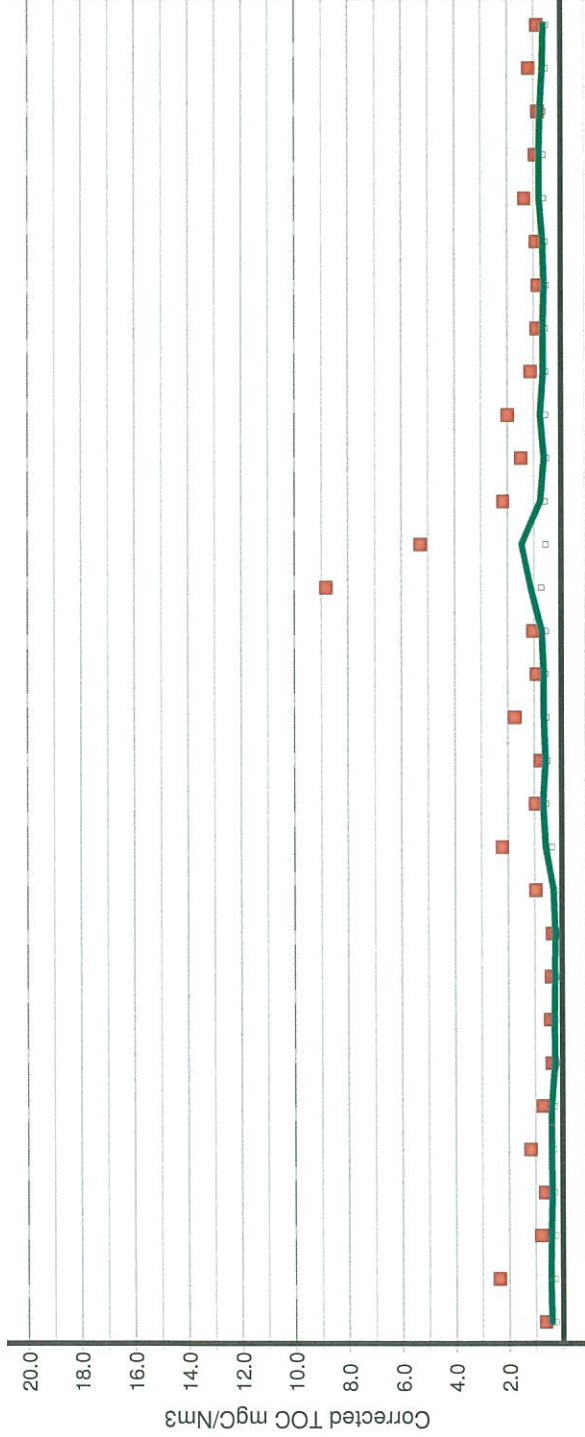
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A4 /Form Dated May 06

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

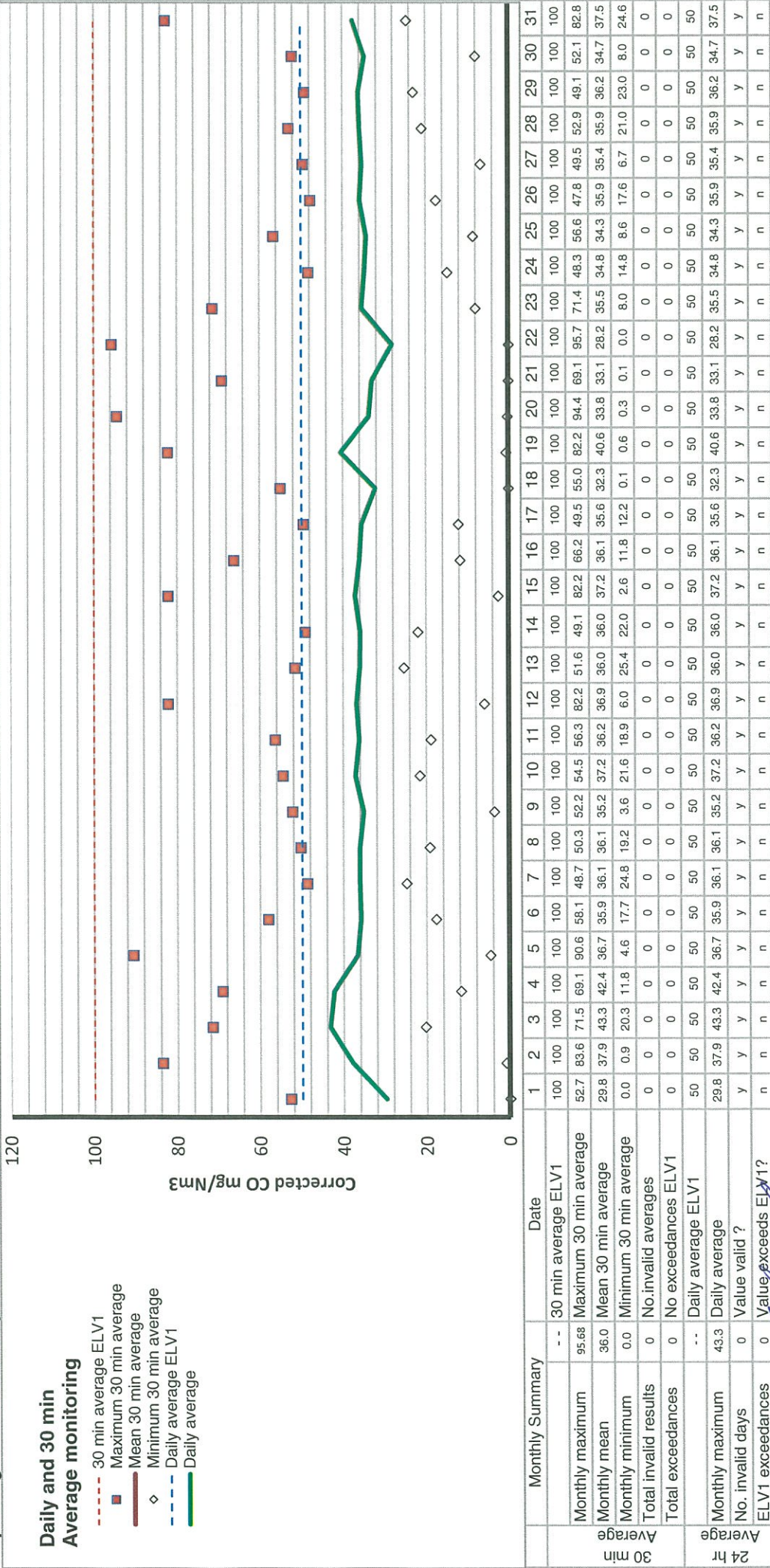


Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Average 30 min	30 min average ELV1	--	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	Monthly maximum	8.83	0.65	2.37	0.80	0.66	1.20	0.72	0.39	0.44	0.41	0.37	0.97	2.23	0.98	0.79	1.75	0.93	1.06	8.83	5.29	2.18	1.49	2.00	1.14	0.90	0.85	0.93	1.35	0.96	0.86	1.20	0.89
	Monthly mean	0.62	0.43	0.46	0.44	0.41	0.43	0.42	0.29	0.31	0.28	0.27	0.32	0.61	0.70	0.62	0.66	0.67	0.73	1.14	1.50	0.79	0.64	0.78	0.67	0.68	0.64	0.68	0.80	0.81	0.77	0.69	0.65
	Monthly minimum	0.22	0.26	0.28	0.27	0.30	0.32	0.31	0.22	0.24	0.22	0.22	0.25	0.36	0.59	0.53	0.56	0.59	0.57	0.73	0.58	0.62	0.55	0.57	0.58	0.60	0.56	0.59	0.64	0.67	0.67	0.58	0.57
	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
	Daily average ELV1	--	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	Monthly maximum	1.50	0.43	0.46	0.44	0.41	0.43	0.42	0.29	0.31	0.28	0.27	0.32	0.61	0.70	0.62	0.66	0.67	0.73	1.14	1.50	0.79	0.64	0.78	0.67	0.68	0.64	0.68	0.80	0.81	0.77	0.69	0.65
	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
	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

Signed  (Authorised to sign as representative of Operator)

Date: 24/1/17

Reporting of Continuously Monitored Emissions to Air for Carbon Monoxide Emission Point A20 for the month of December 2016



Signed Date: 24/1/17

(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

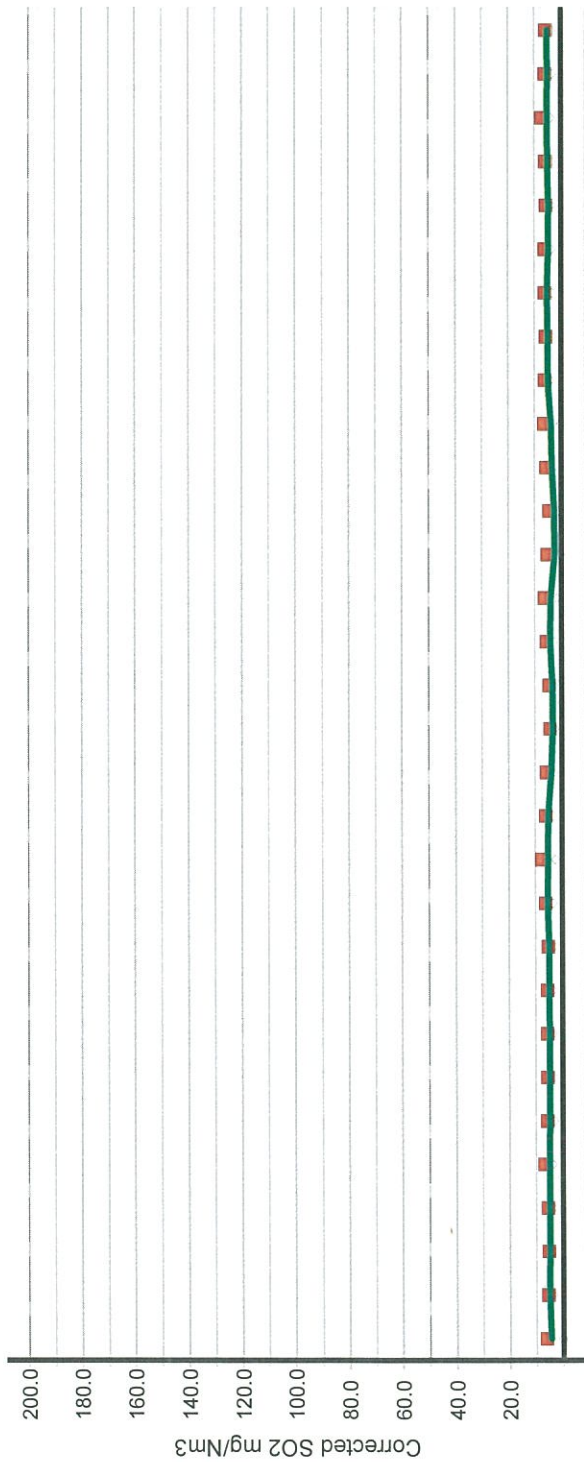
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A6 / Form Dated May 06

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

Daily and 30 min

Average monitoring

- 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
		--	200.00																														

Signed
(Authorised to sign as representative of Operator)

Date: 24/1/17

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

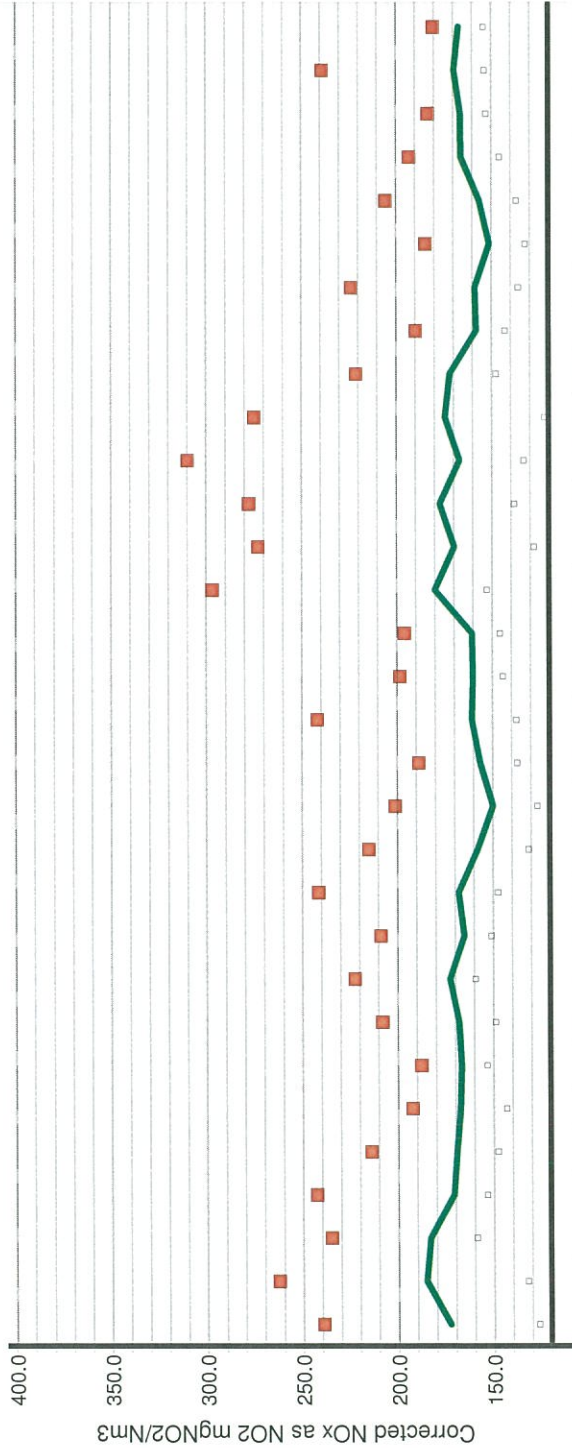
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A7 / Form Dated May 06

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



Monthly summary		Date																																
Average 30 min	--																																	
	Monthly maximum	309.8																																
	Monthly mean	166.8																																
	Monthly minimum	122.4																																
Average 24 hour	Total invalid results	0	No. invalid averages																															
	Total exceedances	0	No. exceedances ELV1																															
Average 24 hour	--																																	
	Monthly maximum	185.4																																
	No. invalid days	0	Value valid?																															
	ELV1 exceedances	0	Value exceeds 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	
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	
239.2	262.6	235.0	242.8	214.0	192.4	187.9	208.1	222.5	208.9	241.5	215.0	201.2	188.9	241.9	198.4	196.0	296.9	273.0	277.7	309.8	275.0	221.3	189.8	223.6	184.6	205.5	193.1	183.1	238.8	180.5	
172.9	185.4	183.3	171.0	169.3	167.5	166.8	168.1	172.8	165.2	168.1	157.9	150.0	156.6	160.8	160.2	160.8	180.1	169.8	177.4	167.0	174.6	171.9	157.9	158.7	151.2	156.2	165.9	166.0	169.4	167.0	
126.4	132.2	158.8	153.5	147.7	143.2	153.3	149.0	159.3	150.9	147.4	131.3	126.6	137.1	137.5	144.5	146.1	152.9	128.0	138.2	133.2	122.4	147.6	143.0	136.0	132.5	136.9	145.7	152.9	153.6	154.1	
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	
0	0	0	0	0	0	0	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	200
172.9	185.4	183.3	171.0	169.3	167.5	166.8	168.1	172.8	165.2	168.1	157.9	150.0	156.6	160.8	160.2	160.8	180.1	169.8	177.4	167.0	174.6	171.9	157.9	158.7	151.2	156.2	165.9	166.0	169.4	167.0	
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
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.....
24/1/17

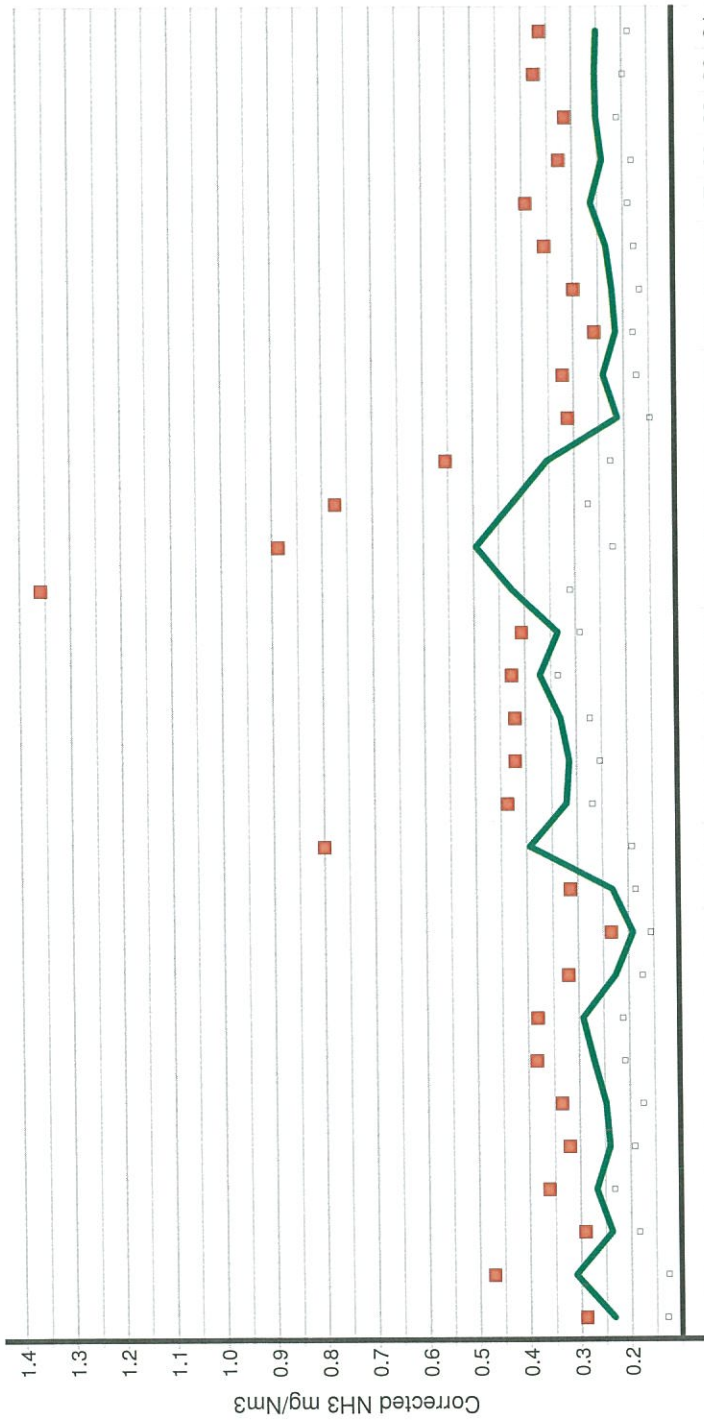
Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

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

Reporting of Continuously Monitored Emissions to Air for Ammonia Emission Point A20 for the month of December 2016

**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	1.4	Maximum 30 min average	0.3	0.5	0.3	0.4	0.3	0.3	0.4	0.3	0.2	0.3	0.8	0.4	0.4	0.4	0.4	0.4	0.4	1.4	0.9	0.8	0.6	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.4
	Monthly mean	0.3	Mean 30 min average	0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.3	0.3	0.4	0.3	0.4	0.3	0.4	0.5	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3
	Monthly minimum	0.1	Minimum 30 min average	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	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	0	0
24 hour Average	Monthly maximum	0.5	Daily average	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.5	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3
	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

Signed
(Authorised to sign as representative of Operator)

Date: 24/1/17