

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 October 2017.

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

You will note that on the 25th October there is indicated a Carbon Monoxide (CO) exceedance of 146.9 this was not reported at the time as solid fuel was off the boiler whilst planned maintenance was being carried out on the fuel supply screws. See trend on following page for additional information

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

Best Regards



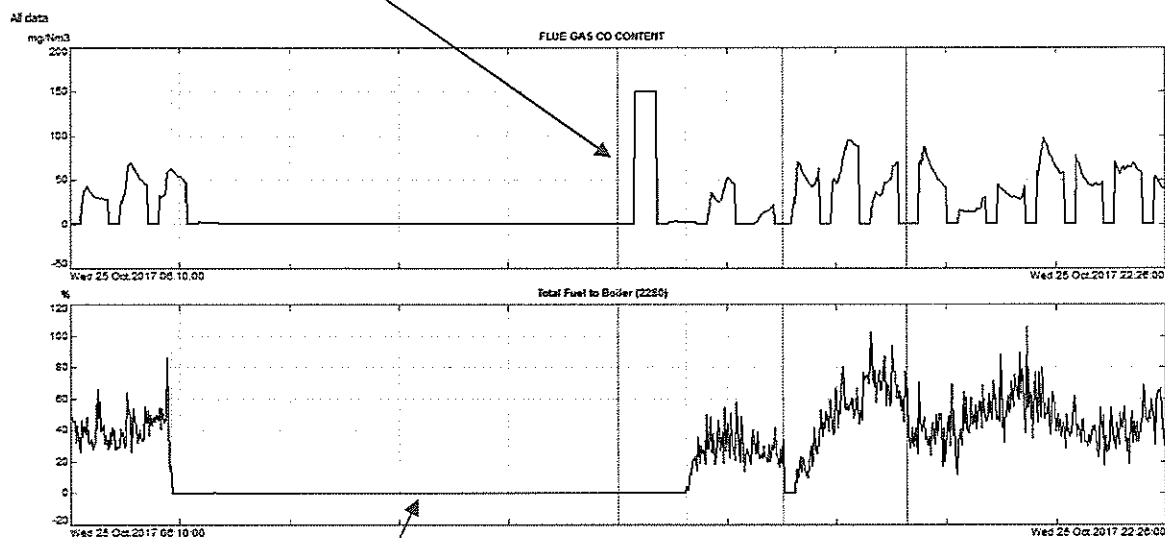
Kevin Smith
Utilities Manager
UPM (UK) Shotton

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

Month End Report

25th October 2017 High Carbon Monoxide reported on CEMs

Top trend Carbon Monoxide showing indicated reading



Bottom Trend indicating that solid fuel was off

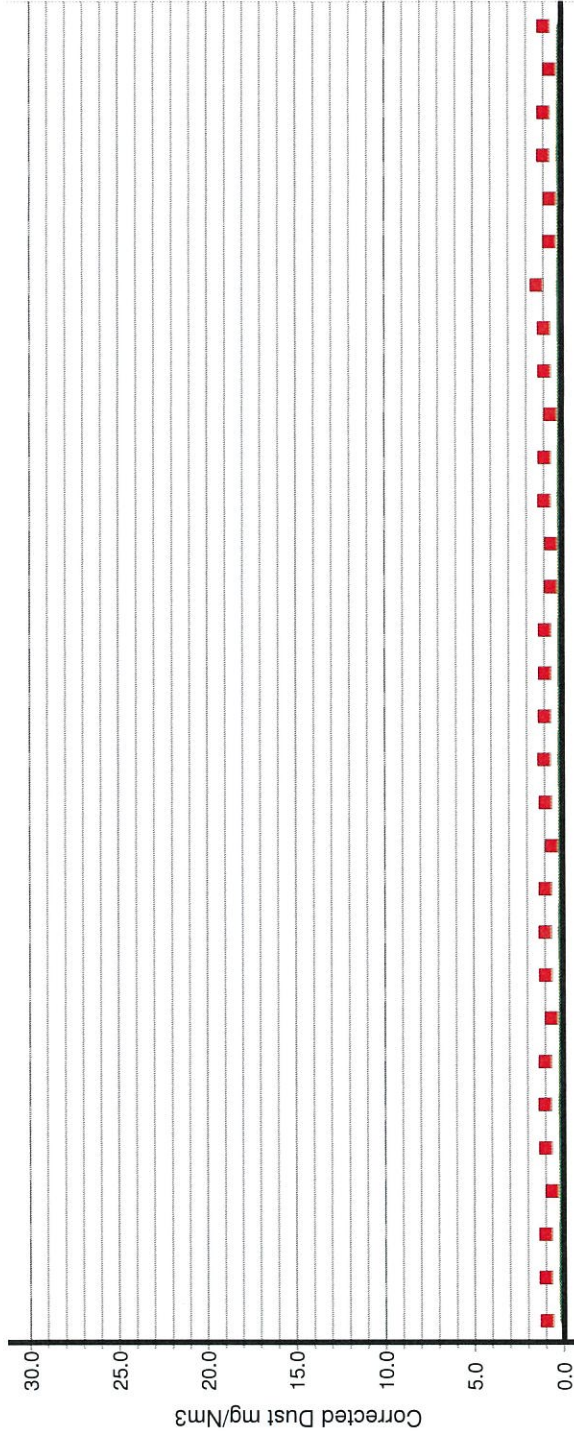
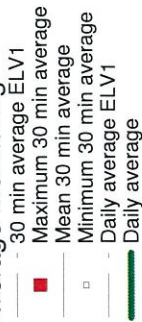
Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

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 October 2017

Daily and 30 min

Average monitoring

[illegible]

[Signature]

Date.....

Signed
(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Form Number: Agency Form / PP3936SQ /A3 /Form Dated May 06

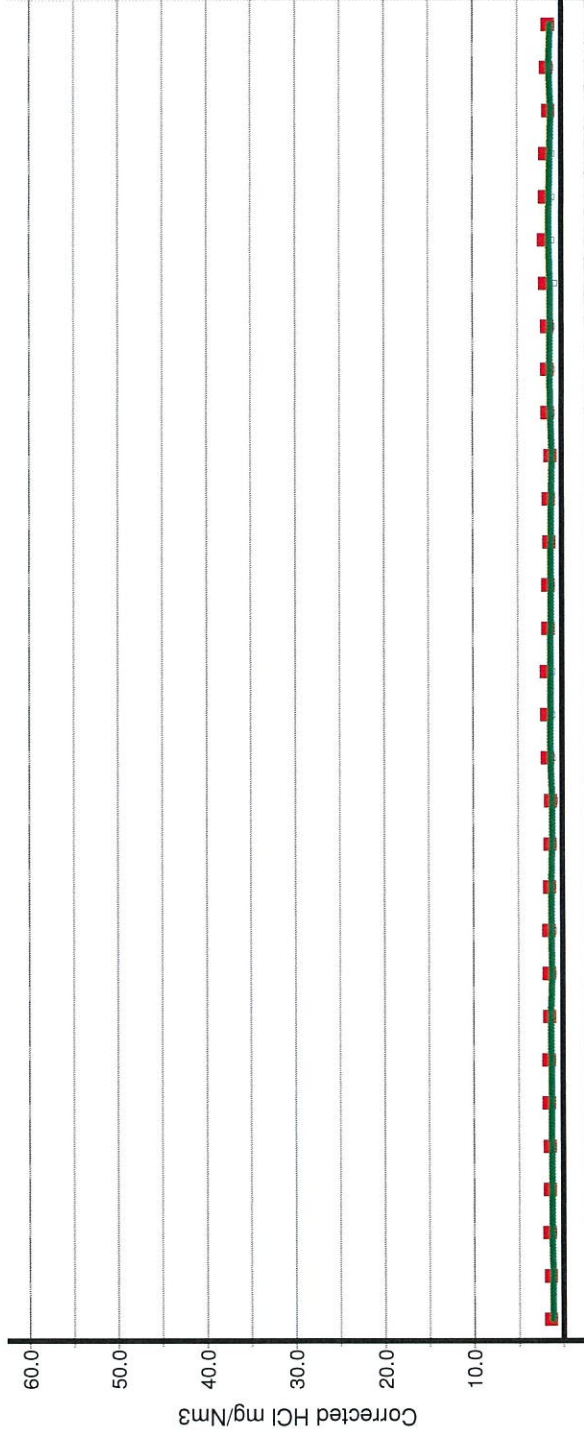
Operator: UPM-Kymmene (UK) Ltd

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of October 2017

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		--	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
	Monthly maximum	2.0	1.4	1.4	1.6	1.5	1.5	1.6	1.5	1.5	1.6	1.5	1.4	1.3	1.7	1.7	1.7	1.6	1.6	1.4	1.5	1.3	1.6	1.6	1.6	1.6	1.9	2.0	1.9	1.8	1.4	1.7	1.5	
	Monthly mean	1.3	1.2	1.2	1.3	1.2	1.3	1.3	1.2	1.3	1.3	1.2	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.1	1.3	1.4	1.3	1.4	1.3	1.4	1.3	1.2	1.4	1.3	1.4	1.3
	Monthly minimum	0.8	1.1	1.0	1.1	1.1	1.2	1.1	1.2	1.0	1.0	1.1	1.0	0.8	1.1	1.1	1.1	1.1	1.1	1.2	1.1	0.9	1.0	1.1	1.1	1.1	0.8	1.1	1.1	1.1	1.0	1.2	1.0	1.0
	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	0
24 hour 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	
	Monthly maximum	1.4	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	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	
	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	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	n

Signed
(Authorised to sign as representative of Operator)

Date: 17/11/17

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

Form Number: Agency Form / PP3936SQ /A4 /Form Dated May 06

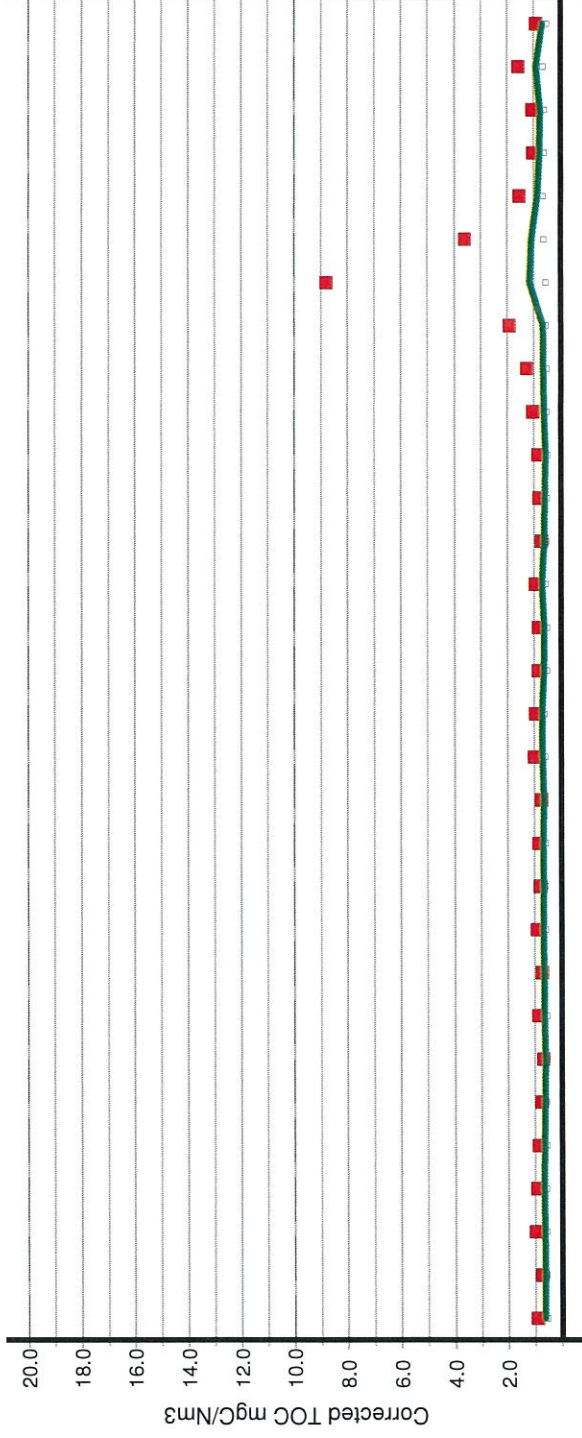
Operator: UPM-Kymmene (UK) Ltd

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of October 2017

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

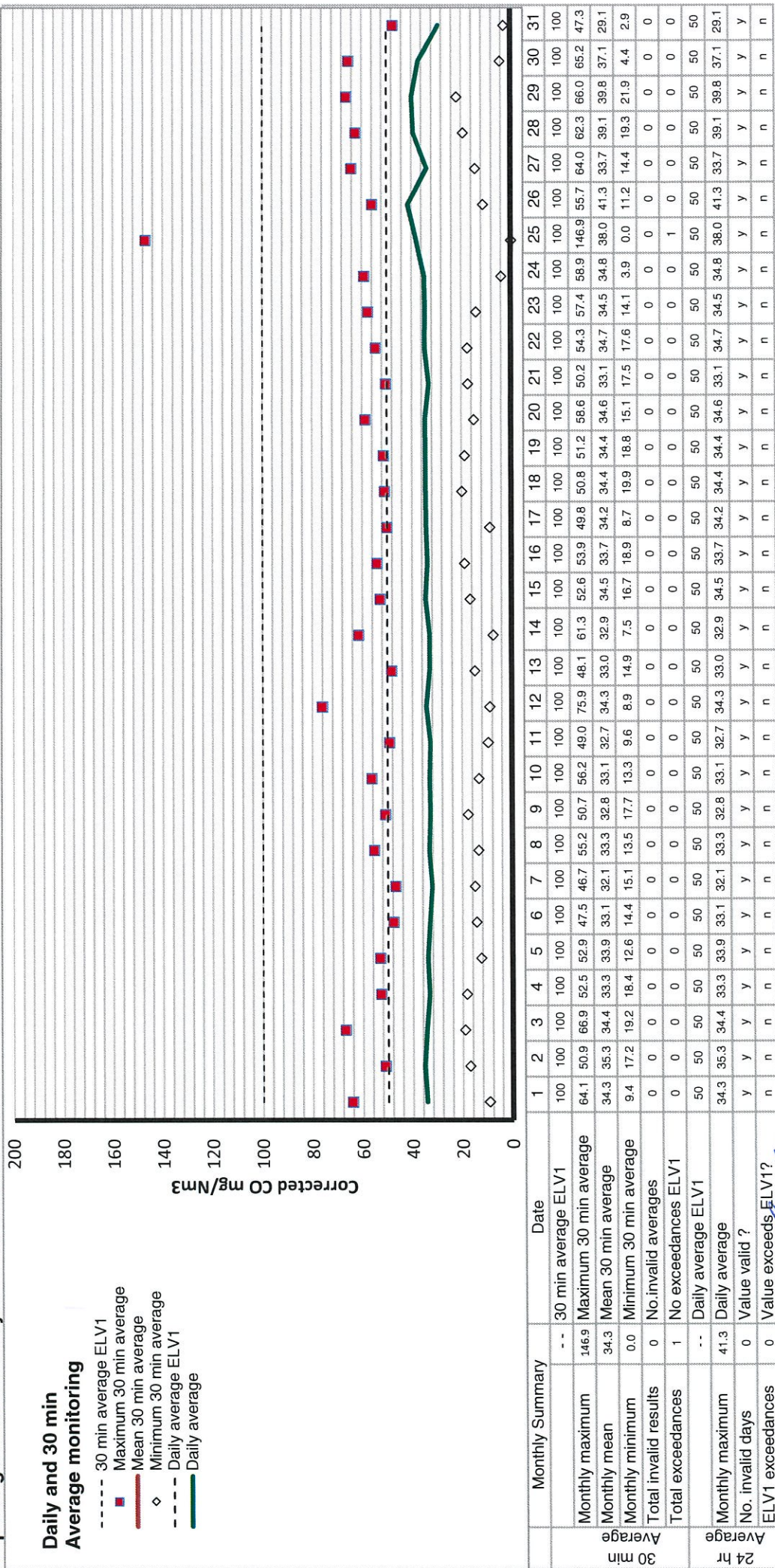


Monthly summary		Date																																
Average 30 min	--	30 min average ELV1																																
	8.8	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	0.7	0.9	0.8	1.0	0.9	0.8	0.7	0.8	0.7	0.8	0.7	0.9	0.8	0.8	0.7	1.0	0.8	0.8	1.0	0.7	0.8	0.8	1.0	1.3	1.9	8.8	3.6	1.5	1.0	1.0	1.6	0.9		
	0.5	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.7	1.2	1.1	0.9	0.8	0.8	0.9	0.7			
	0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.6	0.6	0.7	0.5			
Average 24 hour	0	No. invalid averages																																
	0	No. exceedances 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	
	1.2	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.7	1.2	1.1	0.9	0.8	0.8	0.9	0.7		
	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	Value exceeds ELV1?																															

Signed Date: 12/11/17

(Authorised to sign as representative of Operator)

Reporting of Continuously Monitored Emissions to Air for Carbon Monoxide Emission Point A20 for the month of October 2017



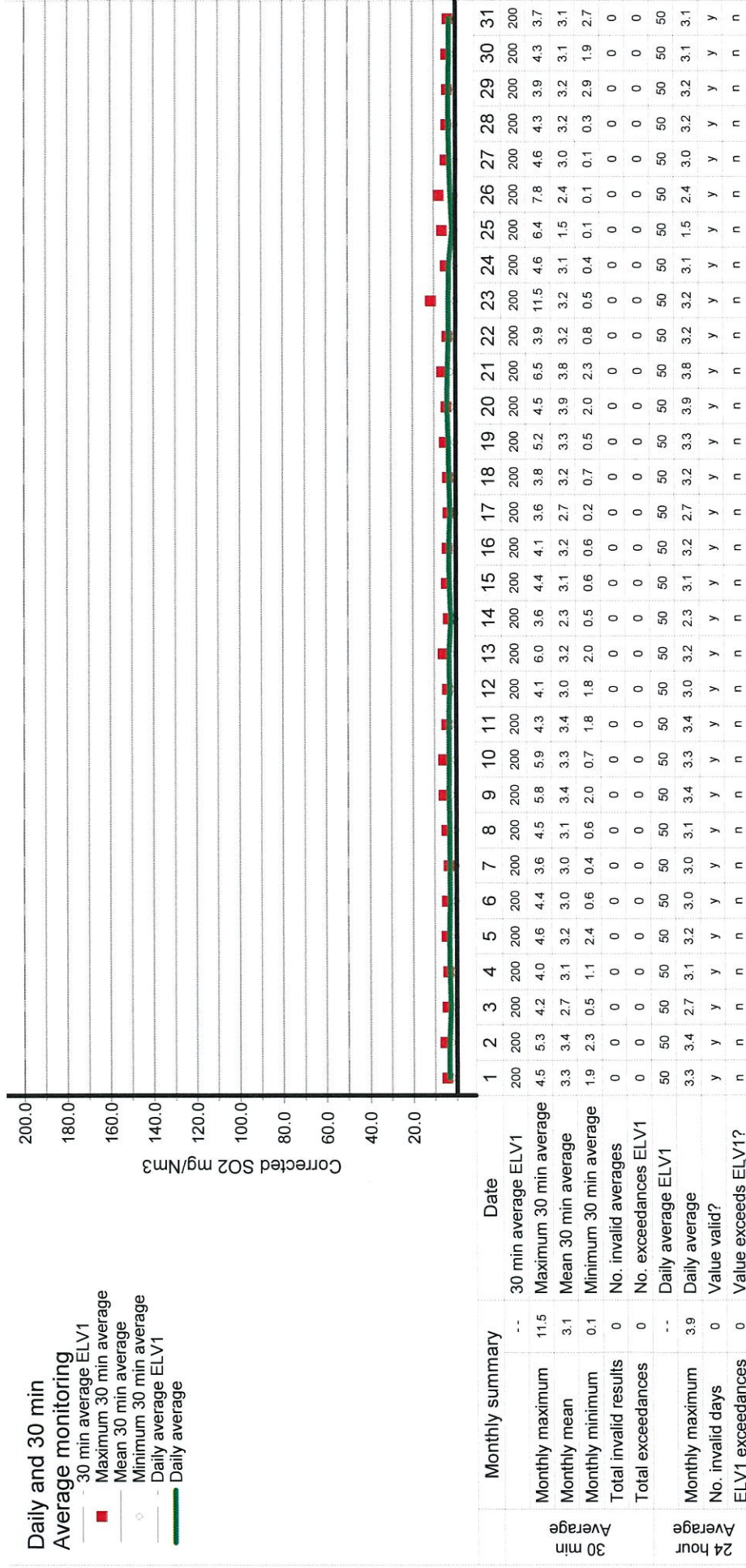
Signed Date 12/11/17

(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 October 2017



Signed
(Authorised to sign as representative of Operator)

Date: 12/11/17

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

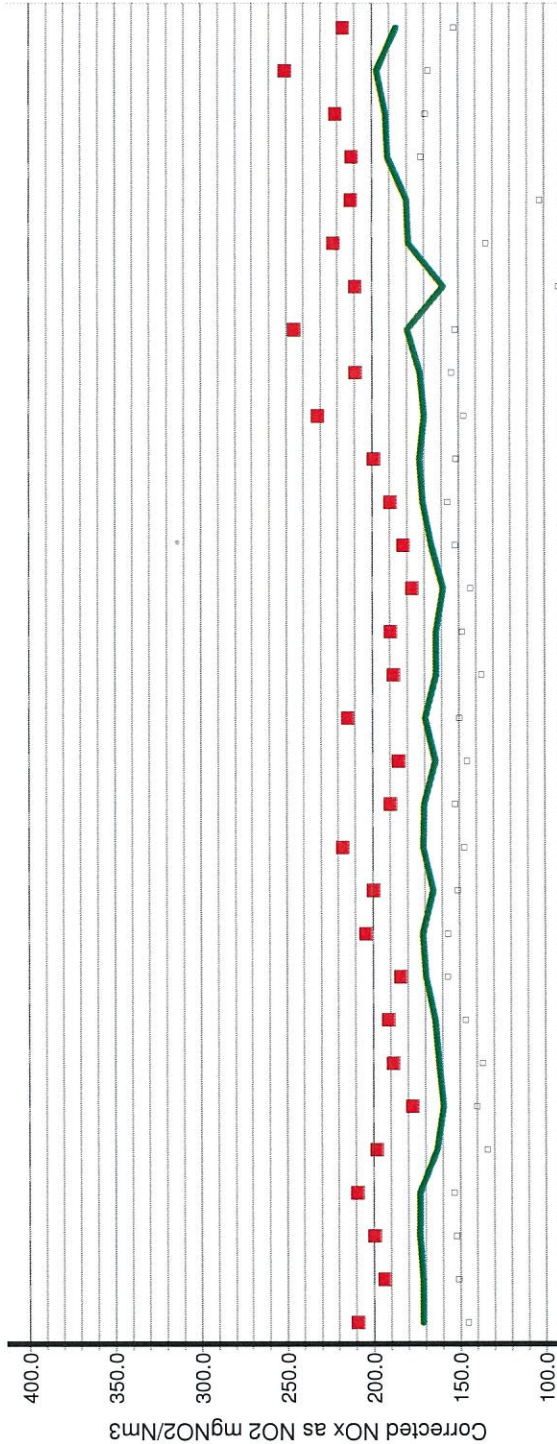
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A7 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of October 2017

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	29	30	31
Monthly maximum	250.6	Maximum 30 min average	209.2	193.7	199.4	209.2	198.1	177.2	188.4	191.0	184.0	204.0	199.6	217.3	189.7	185.0	214.3	187.9	189.5	177.0	182.1	189.6	199.1	231.5	209.5	245.5	209.7	222.4	212.2	211.6	221.0	250.6	216.7
Monthly mean	171.5	Mean 30 min average	171.5	171.5	173.2	173.1	163.0	159.4	161.9	163.9	169.3	171.0	165.0	170.7	170.2	163.6	169.4	163.2	163.2	159.1	165.7	170.7	172.5	169.9	172.2	179.7	158.6	178.8	180.0	190.9	192.1	197.3	186.0
Monthly minimum	91.5	Minimum 30 min average	145.5	151.0	152.2	153.5	134.2	140.0	136.6	146.6	156.9	156.7	150.8	147.1	152.5	145.4	149.7	136.8	148.1	143.1	152.0	156.6	151.6	146.9	154.0	151.8	91.5	134.0	102.6	171.7	169.2	167.3	152.7
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	--	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
	197.3	Daily average	171.5	171.5	173.2	173.1	163.0	159.4	161.9	163.9	169.3	171.0	165.0	170.7	170.2	163.6	169.4	163.2	163.2	159.1	165.7	170.7	172.5	169.9	172.2	179.7	158.6	178.8	180.0	190.9	192.1	197.3	186.0
	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
	0	Value exceeds ELV1?	✓																														

Signed Date: 12/11/17

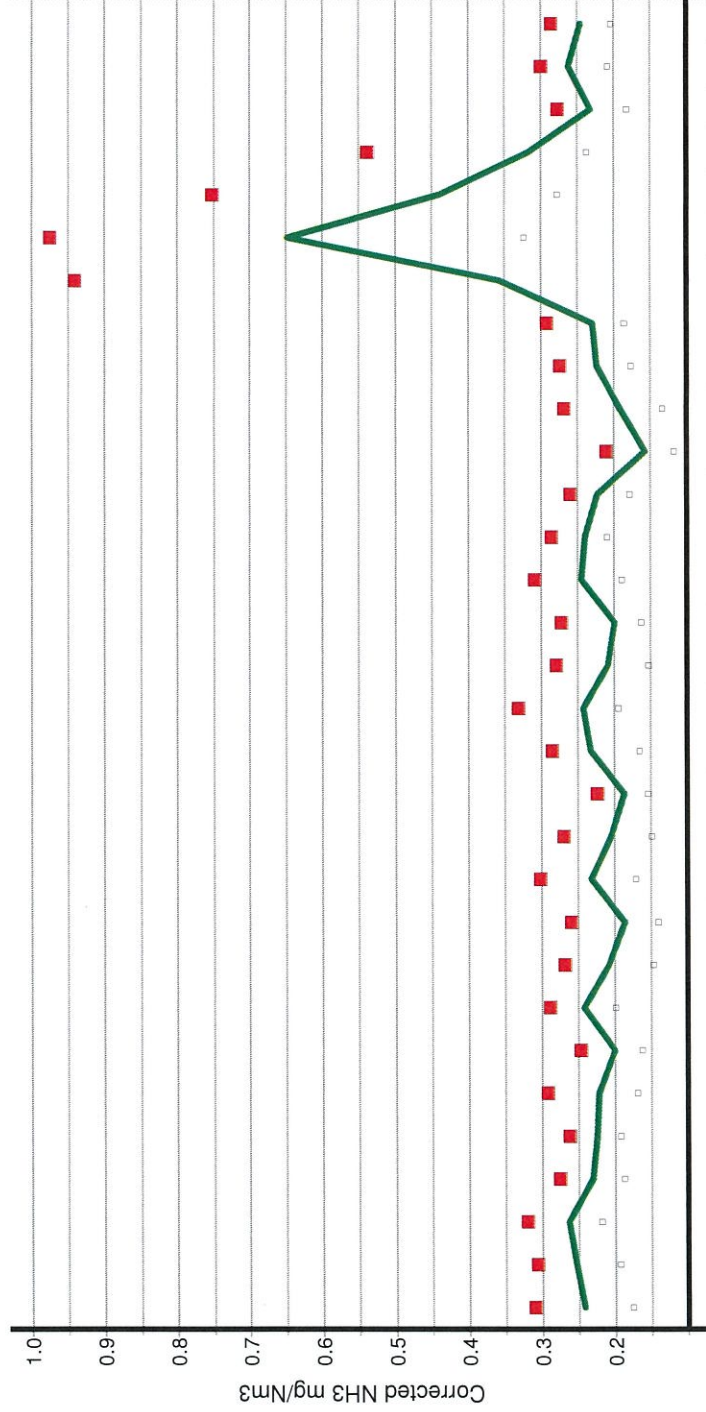
(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

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

Reporting of Continuously Monitored Emissions to Air for Ammonia Emission Point A20 for the month of October 2017

**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	1.0	Maximum 30 min average	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	Monthly mean	0.3	Mean 30 min average	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	Monthly minimum	0.1	Minimum 30 min average	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.3	0.3	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	0.6	Daily average	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	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	y

[Signature]

Signed
(Authorised to sign as representative of Operator)

Date: 12/11/17