

Month End Report

UPM-Kymmene (UK)

Permit Reference PP3936SQ
Installation Shotton Paper

To Alison Soper
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

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Please find enclosed graphs / reports for Continuously Monitored Emissions to Air A2 to A8 for the period ending 31st October 2015.

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

You will note that on 7th October we had 4 half hour occurrence's with invalid results this occurred when maintenance was being carried out on the CEMs unit and will be added to the yearly CEMs invalidation log

If you require any further information please let me know

Best Regards



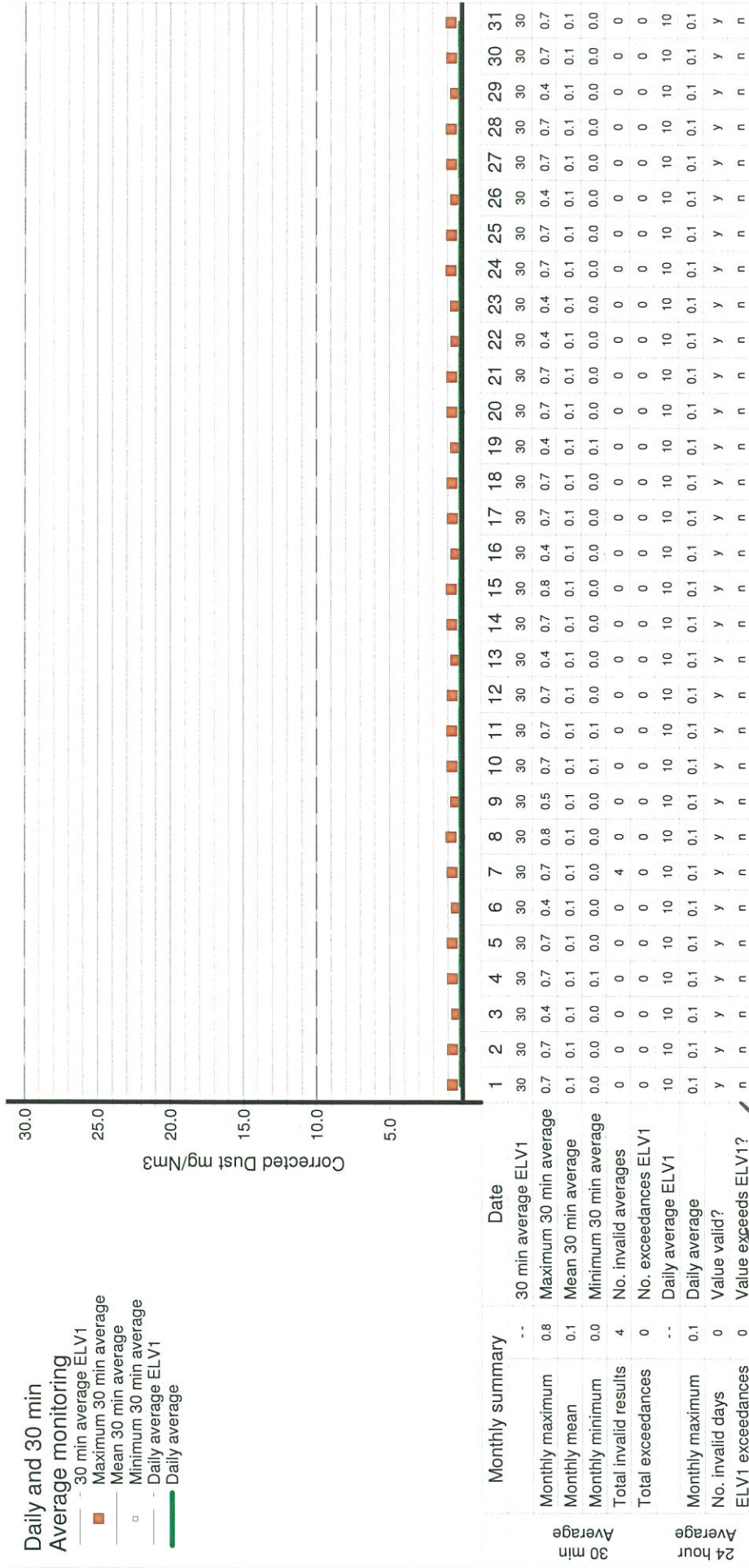
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Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

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 October 2015



Signed Date: 6/11/15
(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

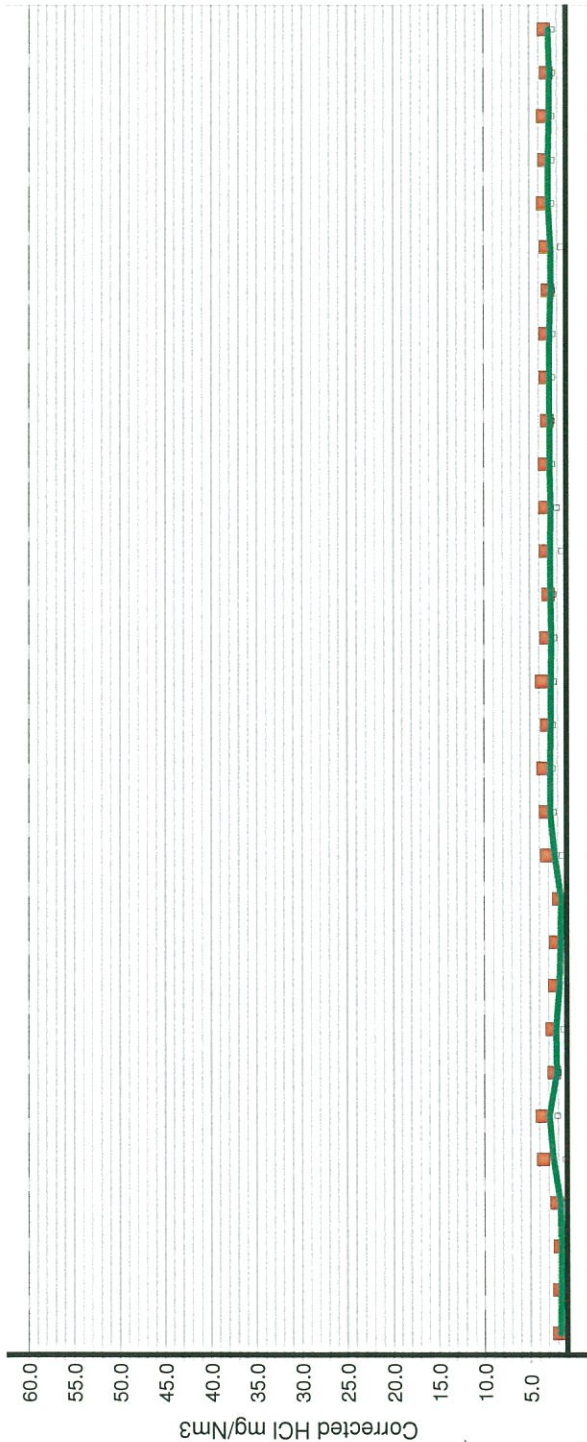
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A3 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of October 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		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
			--		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	Monthly maximum	3.7	Maximum 30 min average	1.9	1.9	1.8	2.1	3.6	3.7	2.4	2.6	2.3	2.2	1.9	3.2	3.3	3.6	3.1	3.7	3.2	3.0	3.2	3.3	3.3	3.1	3.2	3.2	3.0	3.2	3.5	3.4	3.5	3.1	3.4	
	Monthly mean	2.5	Mean 30 min average	1.7	1.6	1.6	1.8	2.5	2.9	2.1	2.2	1.8	1.7	1.6	2.3	2.8	2.8	2.7	2.7	2.6	2.7	2.8	2.7	2.8	2.8	2.8	2.7	2.7	2.9	2.9	2.8	2.8	2.9		
	Monthly minimum	1.2	Minimum 30 min average	1.5	1.4	1.2	1.6	1.2	2.0	1.9	1.4	1.5	1.5	1.4	1.5	2.4	2.6	2.5	2.4	2.3	2.4	1.5	2.0	2.5	2.6	2.5	2.5	2.5	1.6	2.6	2.5	2.5	2.5		
	Total invalid results	4	No. Invalid averages	0	0	0	0	0	0	4	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	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	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	2.9	Daily average	1.7	1.6	1.6	1.8	2.5	2.9	2.1	2.2	1.8	1.7	1.6	2.3	2.8	2.8	2.7	2.7	2.6	2.7	2.8	2.7	2.8	2.8	2.8	2.7	2.7	2.9	2.9	2.8	2.8	2.9		
	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	

Signed Date 6/11/15
(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

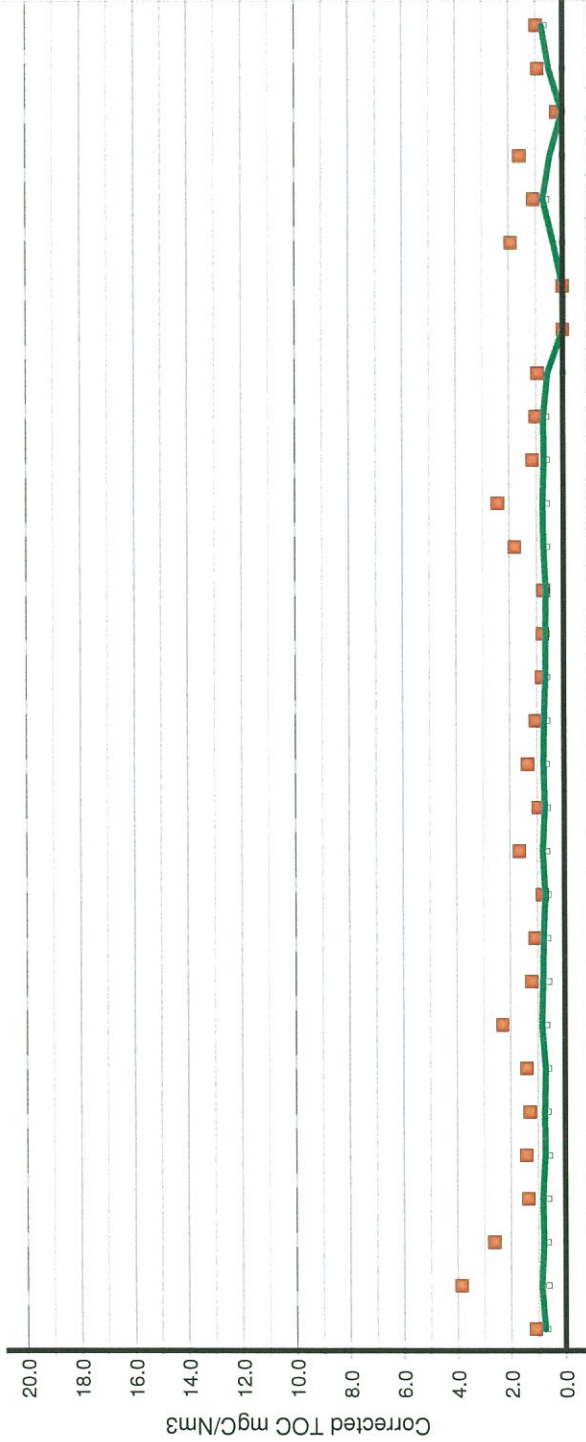
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A4 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of October 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	3.9	1.1	3.9	2.6	1.4	1.4	1.3	1.4	2.3	1.2	1.1	0.8	1.7	1.0	1.3	1.0	0.8	0.8	0.7	1.8	2.4	1.1	1.0	0.9	0.0	0.0	1.9	1.1	1.6	0.2	0.9	1.0	
	Monthly mean	0.6	0.8	0.9	0.8	0.8	0.7	0.8	0.7	0.8	0.8	0.7	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.6	0.0	0.0	0.4	0.7	0.5	0.0	0.5	0.8	
	Monthly minimum	0.0	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.7	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	0.6	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.7	
	Total invalid results	4	0	0	0	0	0	0	0	4	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	
	--	30 min 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
	0.9	Daily average	0.8	0.9	0.8	0.8	0.7	0.8	0.7	0.8	0.8	0.8	0.7	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.6	0.0	0.0	0.4	0.7	0.5	0.0	0.5	0.8	
	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	
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	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	n	n	n

[Signature]

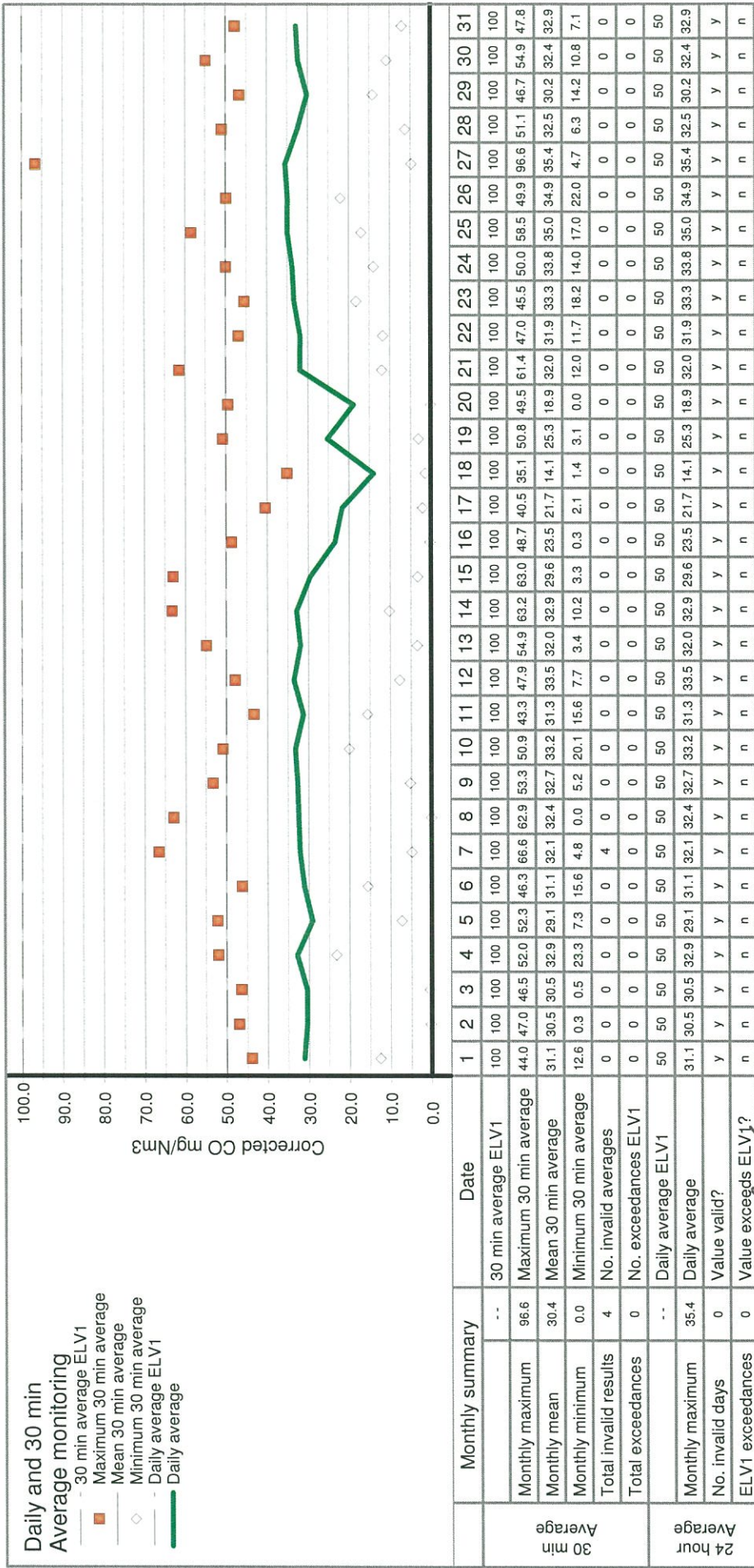
Signed..... Date..... 6/11/15

(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 October 2015



Signed Date: 6/11/15
(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

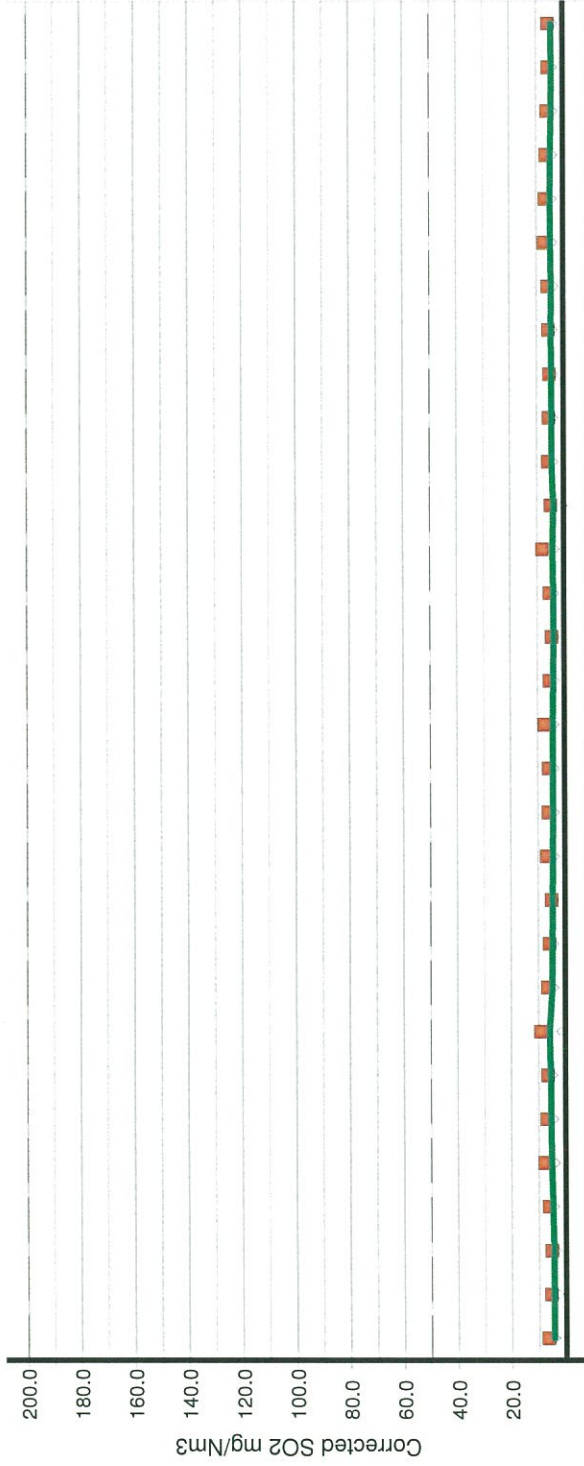
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A6 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Sulphur Dioxide Emission Point A20 for the month of October 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	29	30	31
30 min Average	Monthly maximum	9.1	6.6	5.6	5.3	6.3	7.7	6.9	6.5	9.1	6.5	5.9	5.1	6.8	6.0	6.0	7.5	5.5	4.7	5.3	8.1	4.9	5.9	5.5	5.3	5.6	5.9	7.2	6.8	6.4	6.0	5.6	5.7
	Monthly mean	4.6	4.5	4.5	4.9	5.2	5.4	5.5	5.8	4.9	4.7	4.6	4.5	4.3	4.4	4.4	4.2	4.1	4.1	4.3	3.9	4.5	4.5	4.5	4.6	4.4	4.7	4.8	4.8	4.4	4.3	4.5	
	Monthly minimum	0.4	4.1	2.8	3.5	4.3	3.8	4.4	4.7	1.6	4.1	4.1	4.2	3.9	3.7	3.7	3.6	3.6	3.5	3.6	3.5	0.4	3.9	3.8	3.7	3.8	3.5	4.0	4.2	3.9	3.7	3.8	3.6
	Total invalid results	4	0	0	0	0	0	0	4	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	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
	5.8	Daily average	4.5	4.5	4.5	4.9	5.2	5.4	5.5	5.8	4.9	4.7	4.6	4.5	4.3	4.4	4.4	4.2	4.1	4.1	4.3	3.9	4.5	4.5	4.5	4.6	4.4	4.7	4.8	4.8	4.4	4.3	4.5
	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
24 hour Average	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)

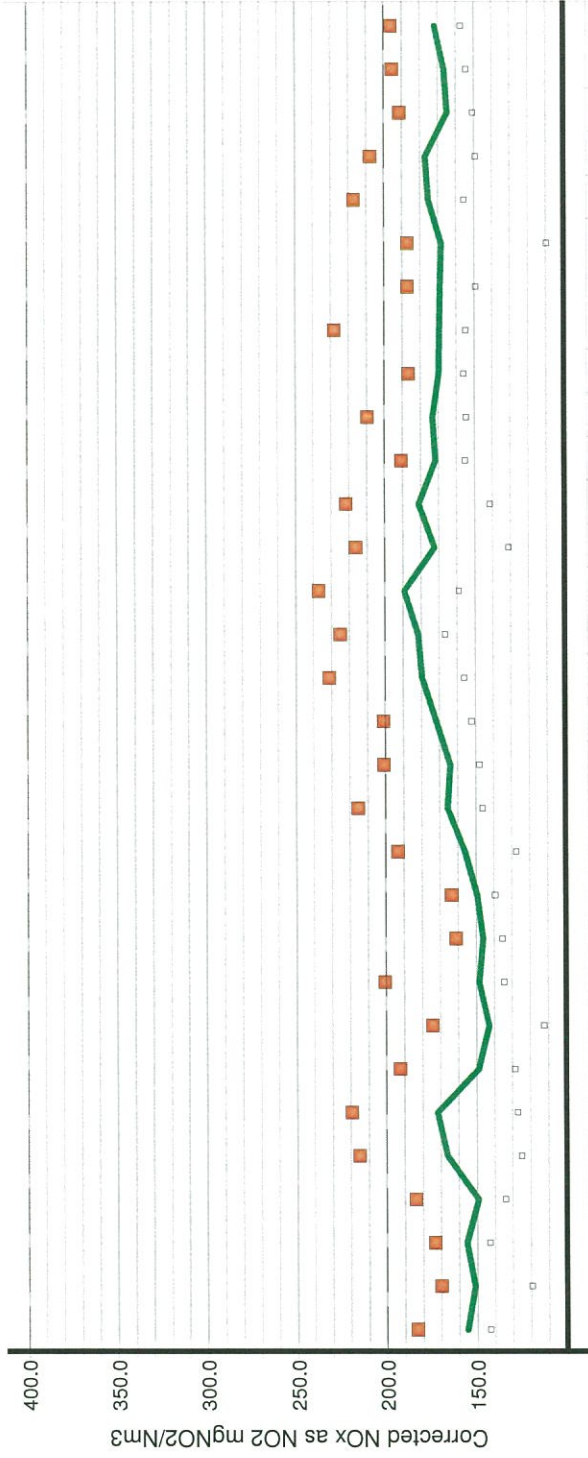
Date: 2/11/15

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 October 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



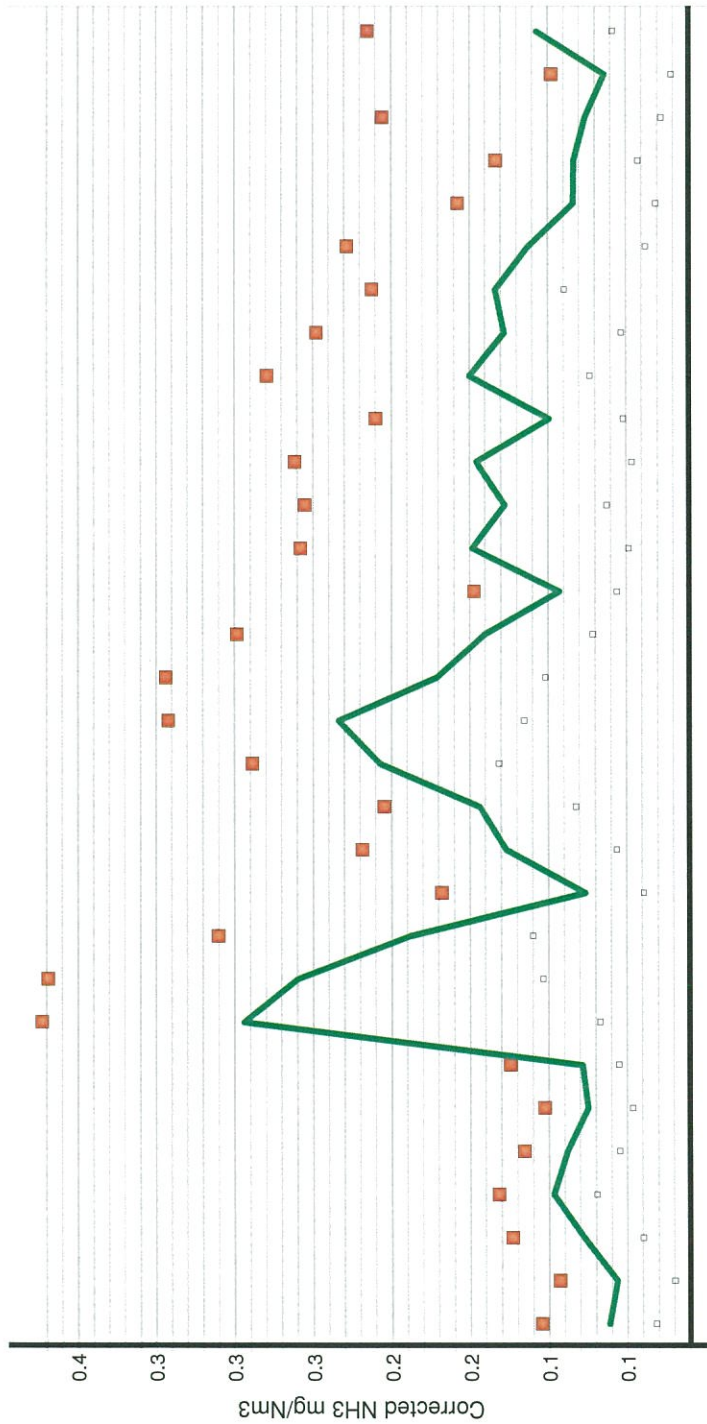
Average	Monthly summary		Date																															
	--		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
30 min	Monthly maximum	237.1	30 min average ELV1																															
	Monthly mean	185.3	Maximum 30 min average																															
	Monthly minimum	109.7	Mean 30 min average																															
	Total invalid results	4	Minimum 30 min average																															
24 hour	Total exceedances	0	No. invalid averages																															
		--	No. exceedances ELV1																															
	Monthly maximum	189.4	Daily average ELV1																															
	No. invalid days	0	Daily average																															
	Value exceeds ELV1?	0	Value valid?																															
			Value exceeds ELV1?																															

Signed Date: 6/11/15
(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 / A8 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Ammonia Emission Point A20 for the month of October 2015



	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	0.4	Maximum 30 min average		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	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
30 min average	Monthly mean	0.1	Mean 30 min average		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	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	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	0.0	0.0	0.0
	Total invalid results	4	No. invalid averages		0	0	0	0	0	0	4	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	0.3	Daily average		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	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	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

Signed
(Authorised to sign as representative of Operator)

Date 6/11/15