

Month End Report

UPM-Kymmene (UK)

Permit Reference PP3936SQ
Installation Shotton Paper

To Alison Soper
Natural Resources Wales
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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 December 2014.

During the period there were no actual exceedances to report when solid fuel was being fed to the Boiler.

A planned shutdown was carried out during the month to inspect the Boilerbank, the opportunity was also taken to change the sand within the Boiler bed.

During this shutdown from 15th to 17th December we had 4 half hour periods when the TOC went above the permitted limits these have not been reported as they occurred when solid fuel was not being fed to the Boiler.

If you require any further information please let me know

Best Regards



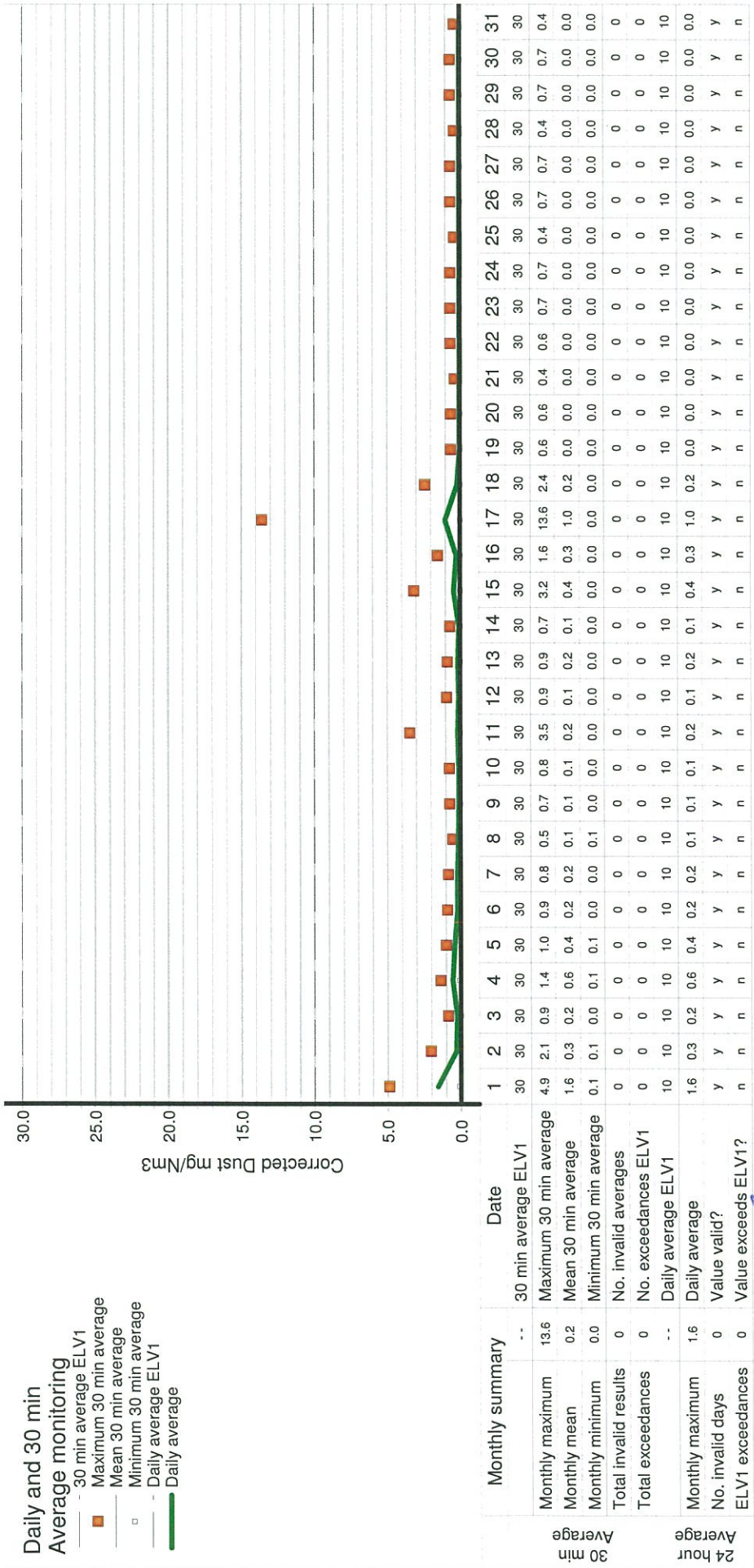
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Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

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

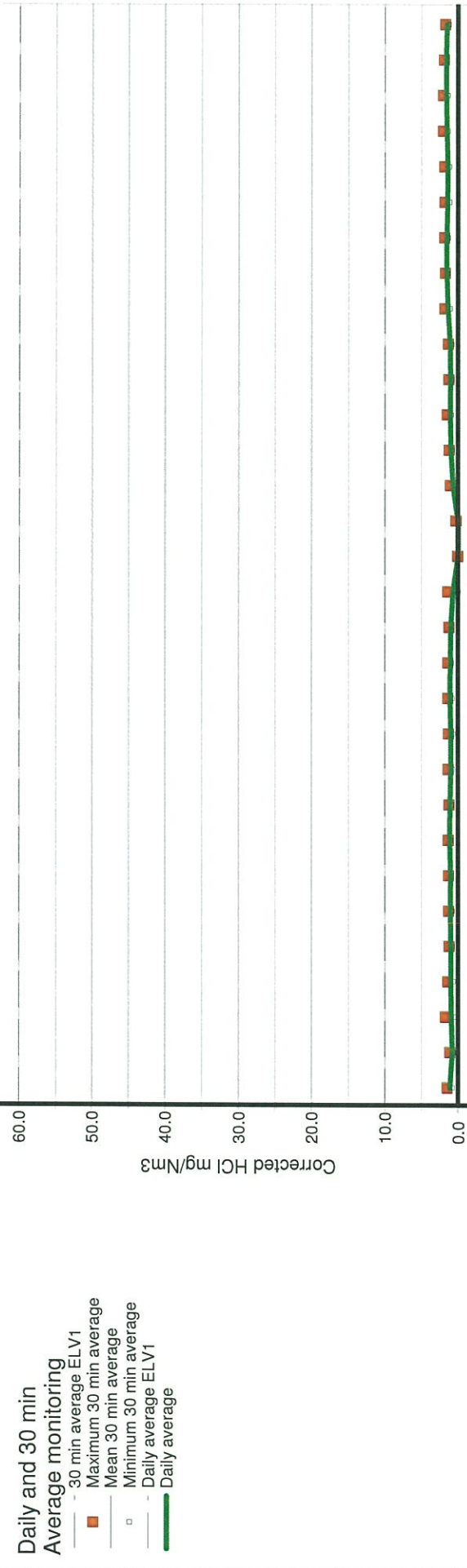
Reporting of Continuously Monitored Emissions to Air for Particulates Emission Point A20 for the month of December 2014



Signed
(Authorised to sign as representative of Operator)

10/1/15
Date.....

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of December 2014



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	2.0	1.5	1.2	1.8	1.4	1.3	1.3	1.4	1.2	1.4	1.3	1.4	1.4	1.3	1.4	0.0	0.3	1.1	1.2	1.5	1.3	1.3	1.8	1.7	1.9	1.8	1.9	2.0	2.0	1.9	1.8	
	Monthly mean	1.1	0.8	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.0	0.7	0.0	0.7	1.0	1.1	1.0	1.1	1.4	1.6	1.5	1.5	1.4	1.6	1.6	1.6	1.5	
	Monthly minimum	0.0	0.8	0.6	0.3	0.7	0.8	0.8	0.9	1.0	0.9	0.8	0.7	0.8	0.9	0.8	0.0	0.0	0.1	0.8	0.9	0.8	0.9	1.1	1.4	1.3	1.2	1.2	1.4	1.4	1.5	1.2	
24 hour Average	Total invalid results	0	No. invalid averages																														
	Total exceedances	0	No. exceedances ELV1																														
	--	--	Daily average ELV1																														
	Monthly maximum	1.6	Daily average																														
	No. invalid days	0	Value valid?																														
	Value exceeds ELV1?		Value exceeds ELV1?																														

[Signature]

10/1/15

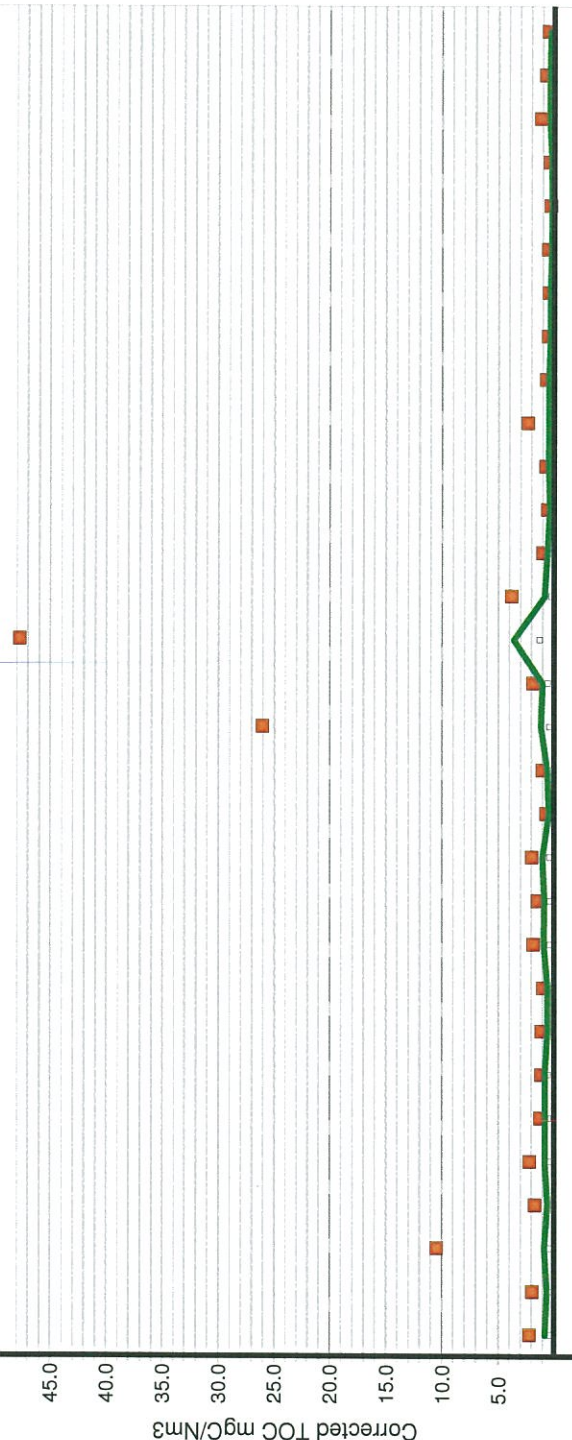
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(Authorised to sign as representative of Operator)

Date.....

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of December 2014

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

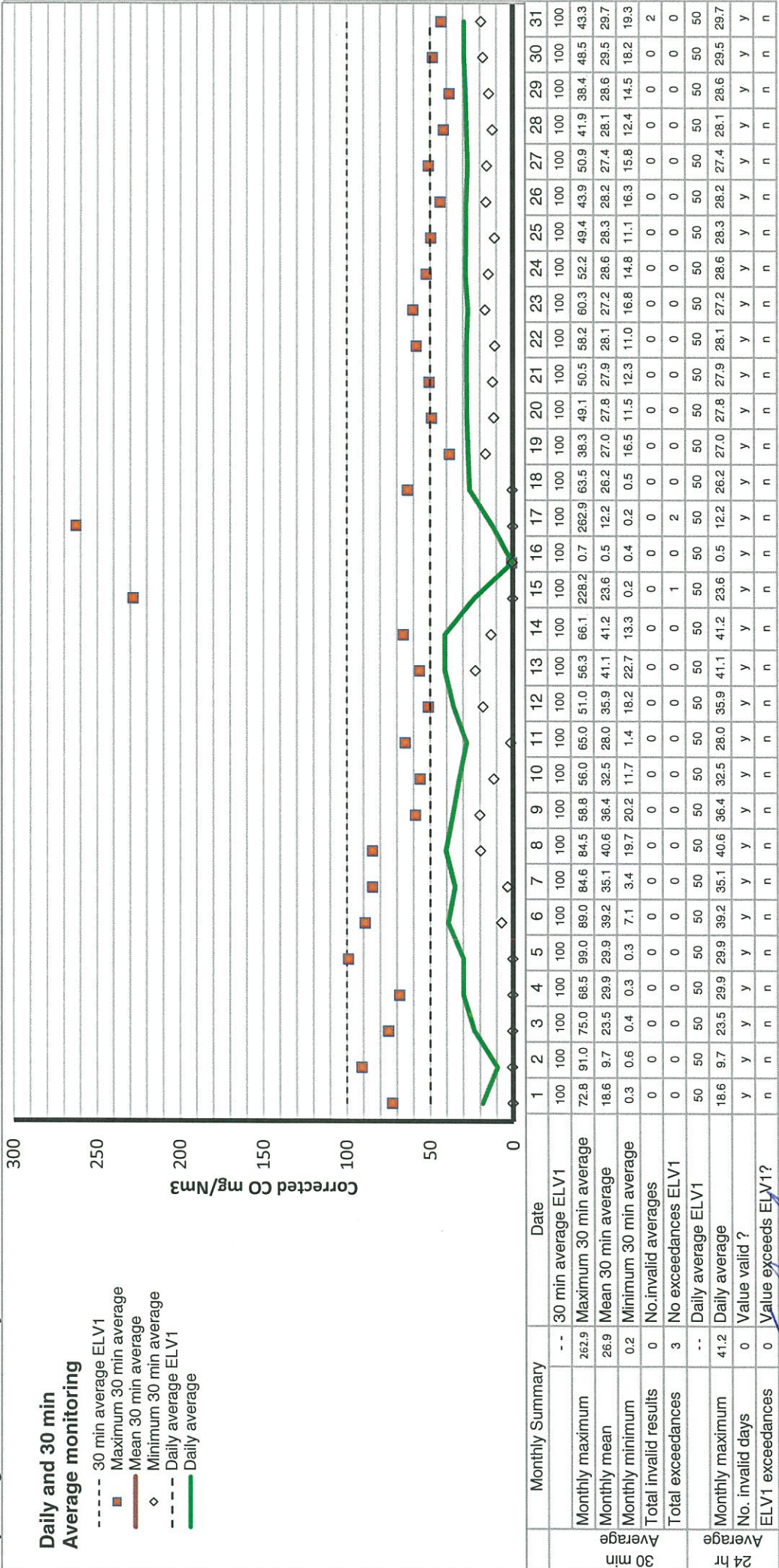


Average 24 hour Average	Monthly summary		Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	Monthly maximum Monthly mean Monthly minimum Total invalid results Total exceedances	--	30 min average ELV1	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
		47.8	Maximum 30 min average	2.2	2.0	10.5	1.7	2.2	1.2	1.1	1.1	1.1	1.0	1.9	1.5	2.0	0.7	1.0	26.1	1.9	47.8	3.8	1.0	0.6	0.8	2.4	0.7	0.5	0.5	0.3	0.4	1.2	0.7	0.5	
		0.7	Mean 30 min average	0.8	0.6	0.9	0.6	0.8	0.8	0.8	0.6	0.6	0.9	0.9	1.0	0.4	0.6	1.2	1.0	3.6	0.8	0.6	0.4	0.5	0.4	0.5	0.3	0.3	0.2	0.2	0.2	0.4	0.4	0.3	
		0.1	Minimum 30 min average	0.4	0.2	0.4	0.3	0.3	0.5	0.6	0.3	0.2	0.4	0.3	0.4	0.3	0.4	0.3	0.3	0.4	0.5	1.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1
Average 24 hour Average	No. 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	
	Total exceedances	4	No. exceedances ELV1		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Monthly maximum No. invalid days ELV1 exceedances	--	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	
		3.6	0.8	0.6	0.9	0.6	0.8	0.8	0.8	0.6	0.6	0.9	0.9	1.0	0.4	0.6	1.2	1.0	3.6	0.8	0.6	0.4	0.5	0.4	0.5	0.3	0.3	0.2	0.2	0.2	0.4	0.4	0.3		
		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	
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	

Signed
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Date 10/1/15

Reporting of Continuously Monitored Emissions to Air for Carbon Monoxide Emission Point A20 for the month of December 2014



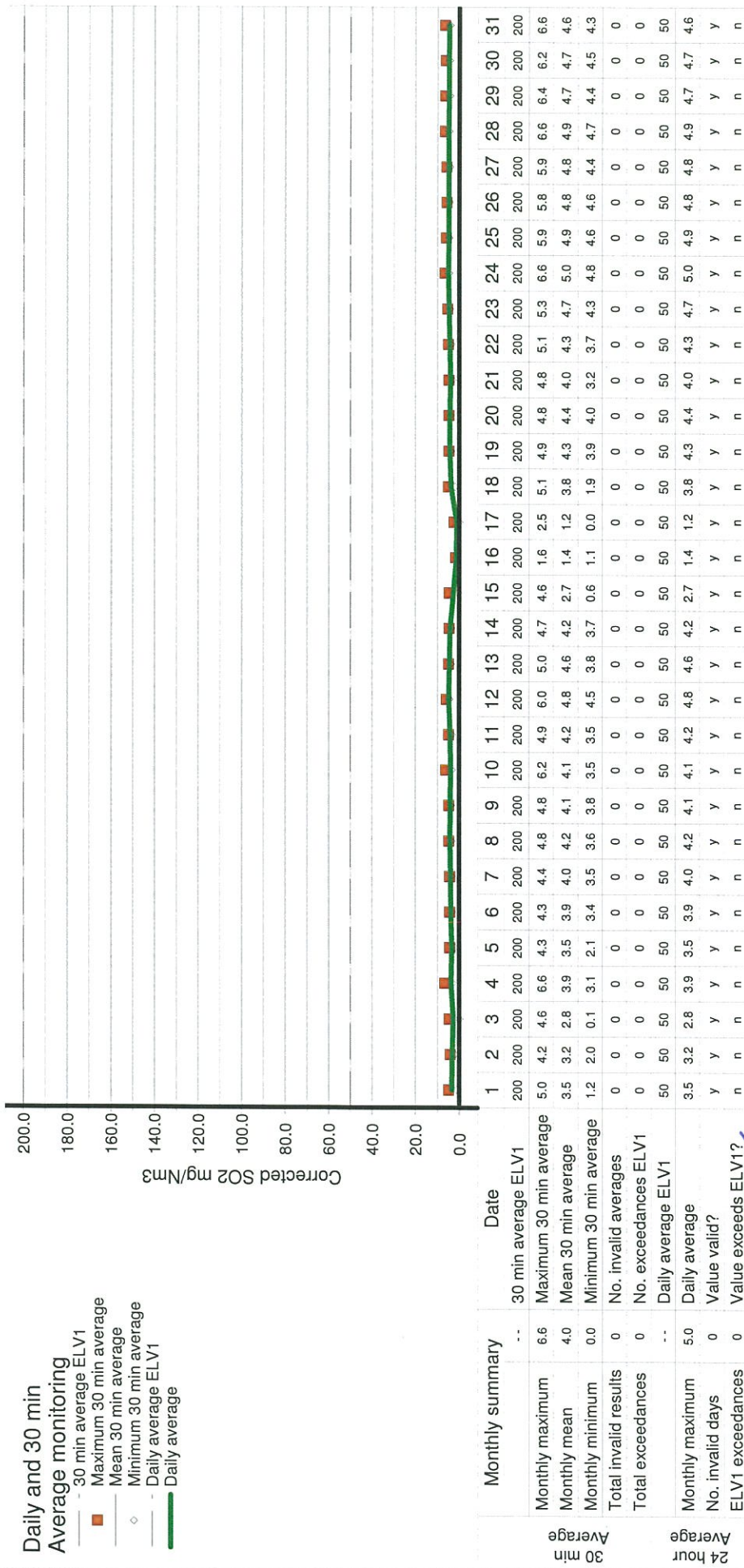
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(Authorised to sign as representative of Operator)

Date: 10/1/15

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

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

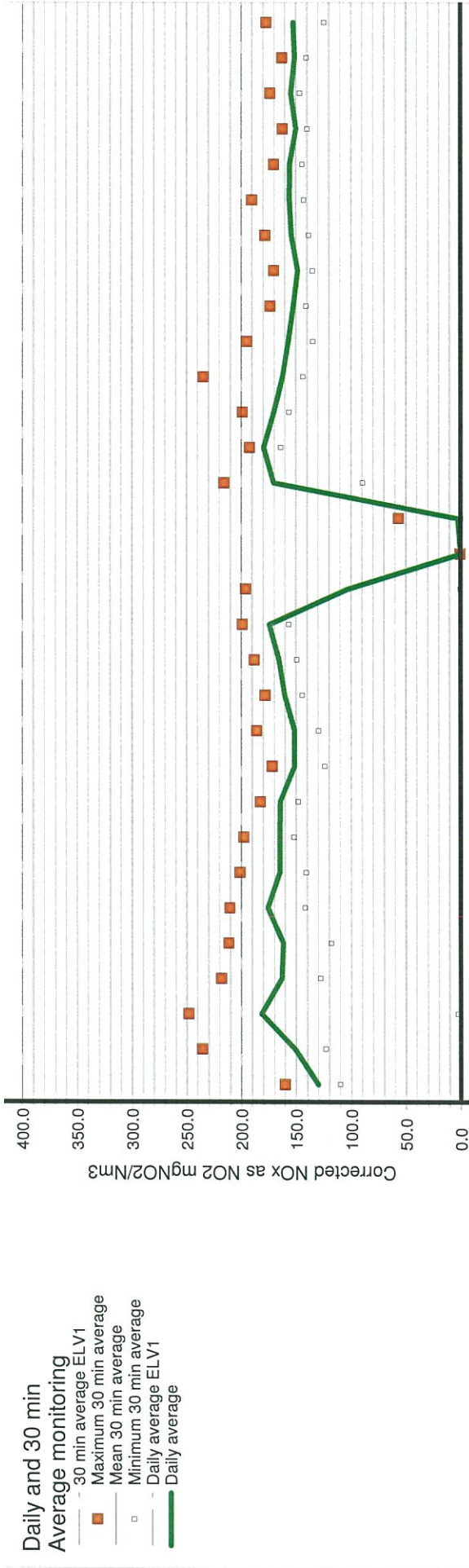
Reporting of Continuously Monitored Emissions to Air for Sulphur Dioxide Emission Point A20 for the month of December 2014



Signed
(Authorised to sign as representative of Operator)

Date: 10/1/15

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of December 2014



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	248.4	Maximum 30 min average	160.3	235.6	248.4	218.4	211.4	210.6	201.4	197.8	182.6	172.1	186.1	178.4	188.0	199.0	196.1	0.5	56.9	215.8	192.4	198.9	234.9	195.1	173.6	170.3	178.3	190.4	170.3	182.3	173.9	162.9	177.2
Monthly mean	147.8	Mean 30 min average	130.1	151.0	181.6	163.1	161.7	175.7	164.8	164.9	164.5	151.6	151.6	160.3	165.6	174.5	103.2	0.1	2.7	170.4	179.3	170.2	162.2	156.9	152.4	148.4	154.2	155.9	155.8	150.0	154.7	151.2	152.5
Monthly minimum	0.0	Minimum 30 min average	110.1	123.3	2.5	128.1	118.3	141.8	141.0	152.1	148.3	124.1	129.8	144.3	149.5	156.7	0.3	0.0	0.0	89.6	164.0	156.4	143.6	134.9	141.1	135.1	138.4	143.1	144.5	139.8	146.6	140.8	124.5
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
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
	181.6	Daily average	130.1	151.0	181.6	163.1	161.7	175.7	164.8	164.9	164.5	151.6	151.6	160.3	165.6	174.5	103.2	0.1	2.7	170.4	179.3	170.2	162.2	156.9	152.4	148.4	154.2	155.9	155.8	150.0	154.7	151.2	152.5
	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
	0	Value valid?	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
	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

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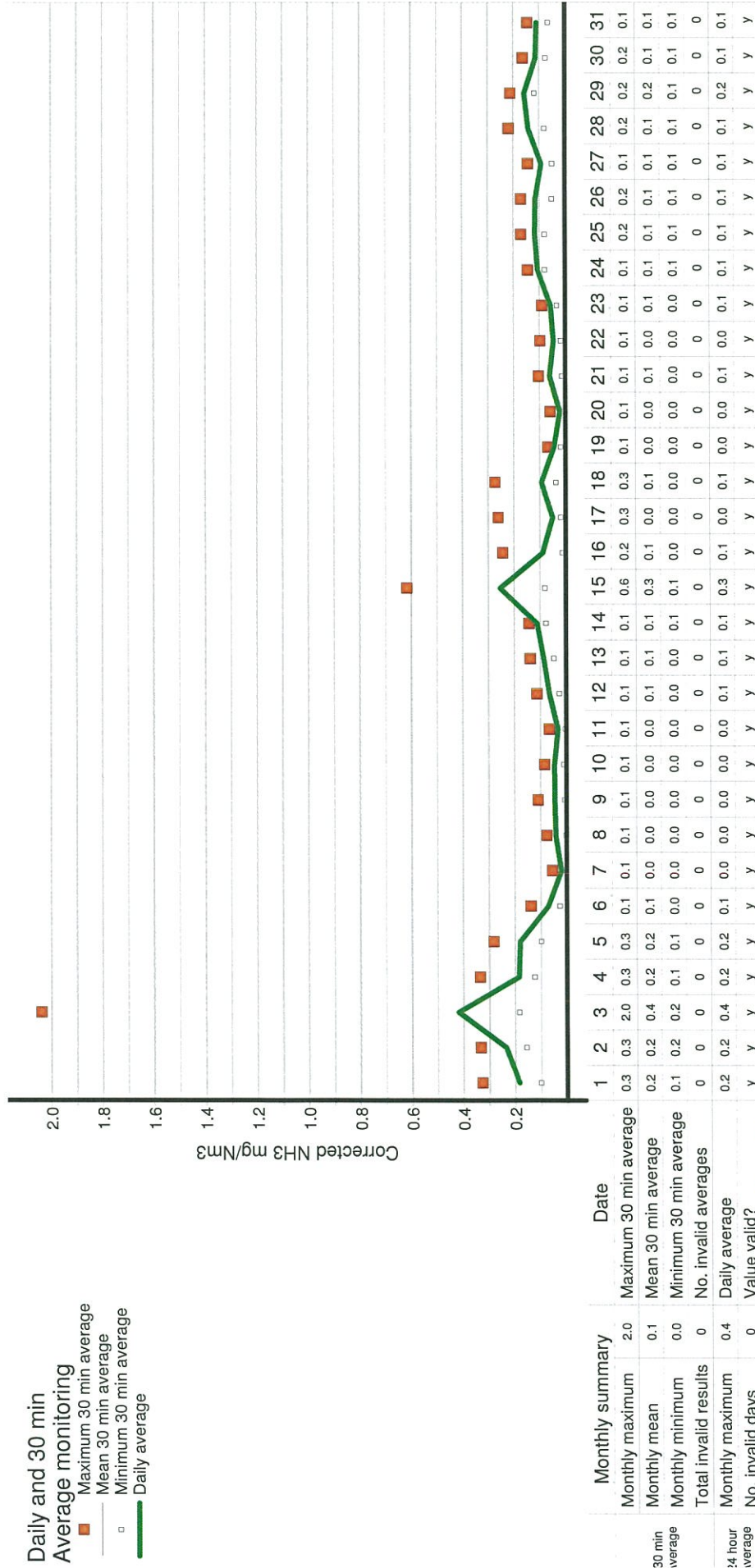
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Installation: Shotton Paper Mill

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 December 2014

**Daily and 30 min
Average monitoring**
■ Maximum 30 min average
□ Mean 30 min average
□ Minimum 30 min average
— Daily average



Signed: 
(Authorised to sign as representative of Operator)

Date: 10/1/15