

UPM-Kymmene (UK)

Memo
External
6th November 2013
KOS

1 (1)

Month End Report



UPM-Kymmene (UK)

Permit Reference PP3936SQ
Installation Shotton Paper

To Alison Soper
Environment Agency
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 2013.

During the period there are 3 non conformances that have not been reported these are as follows.

- i) Boiler was shutdown from 12th until 15th October during that time
 - a. 1 CO and TOC exceedance 12th October after solid fuel was taken off and boiler was being depressurised
 - b. 2 Invalid days 14th and 15th October - CEMS maintenance
- ii) 1 Invalid 30 minute period 21st October - A 30 minute period when CEMS was taken off line for flushing of the Steam Stack lamella.
This has been added to the Boiler CEMS downtime report for 2013

If you require any further explanation of the above please let me know.

Best Regards

Kevin Smith
Utilities Manager
UPM (UK) Shotton

Office +44 (0) 1244284393
Fax +44 (0) 1244285393
Mobile +44 (0) 7736497124

MONITORING RETURNS N. WALES

CHECKED VS AUTHORISATION

TRACKING

OK FOR PUBLIC REGISTER

TYPE AND DATE OF REVIEW

INITIALS DATE

AS 3/2/14

JB 7.11.13

AS 3/2/14

JB EORM

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

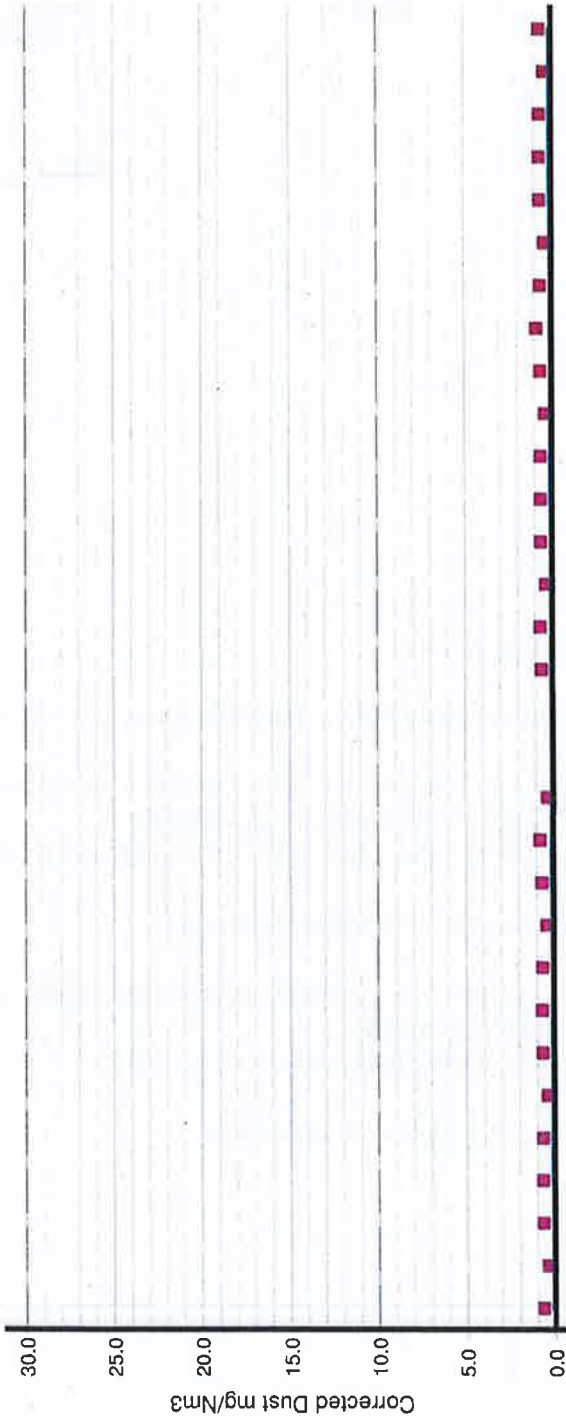
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A2 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Particulates Emission Point A20 for the month of October 2013

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
30 min Average	30 min average ELV1	--	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

Date: 6/11/13

Signed: (Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

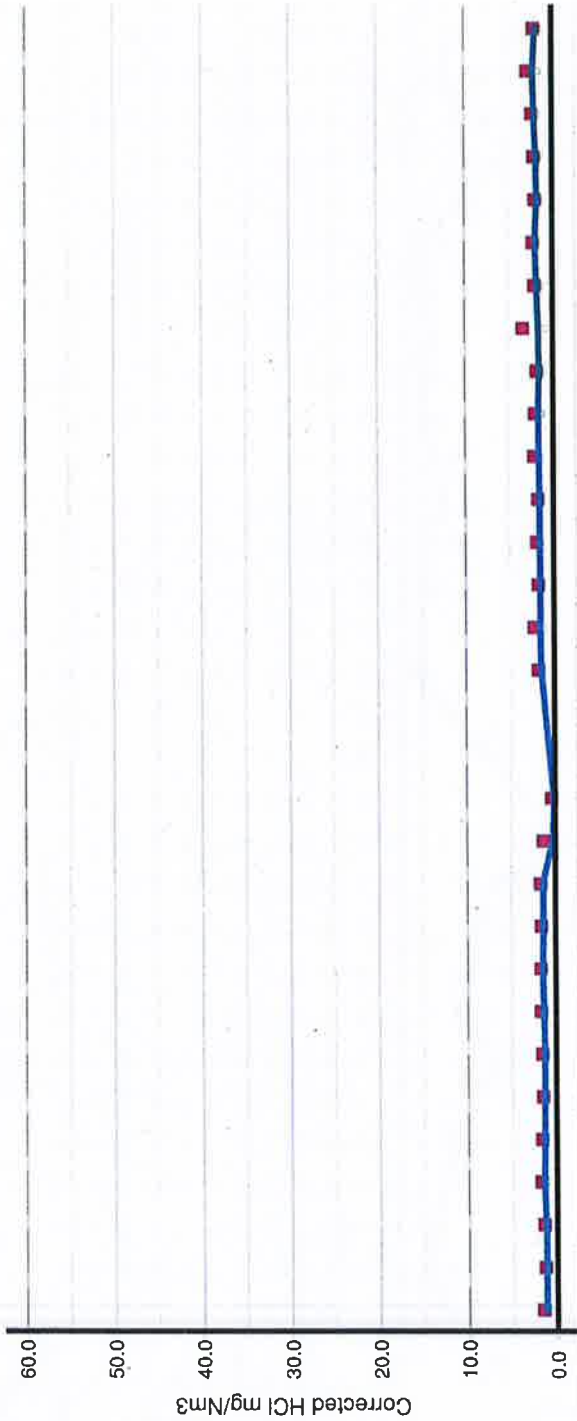
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A3 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of October 2013

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	Monthly maximum	--	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
	Maximum 30 min average	3.4	1.6	1.4	1.4	1.8	1.7	1.5	1.6	1.7	1.7	1.7	1.7	1.3	0.4	--	--	1.8	2.2	1.8	1.9	1.8	2.2	2.1	1.9	3.4	2.1	2.3	2.0	2.1	2.3	2.8	2.1
	Monthly mean	1.5	1.3	1.2	1.2	1.5	1.4	1.3	1.3	1.4	1.5	1.4	1.4	0.3	0.1	--	--	1.5	1.6	1.5	1.6	1.5	1.7	1.7	1.6	1.7	1.8	2.0	1.8	2.0	2.2	1.9	
	Monthly minimum	0.0	0.9	0.9	1.0	1.1	1.2	1.2	1.1	1.2	1.4	1.2	1.3	0.0	0.0	--	--	1.2	1.3	1.4	1.4	1.4	1.5	1.3	1.4	0.9	1.4	1.8	1.5	1.6	1.7	1.6	1.5
24 hour Average	Total invalid results	1	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	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
	Monthly maximum	2.2	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	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

Signed..... Date.....

(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

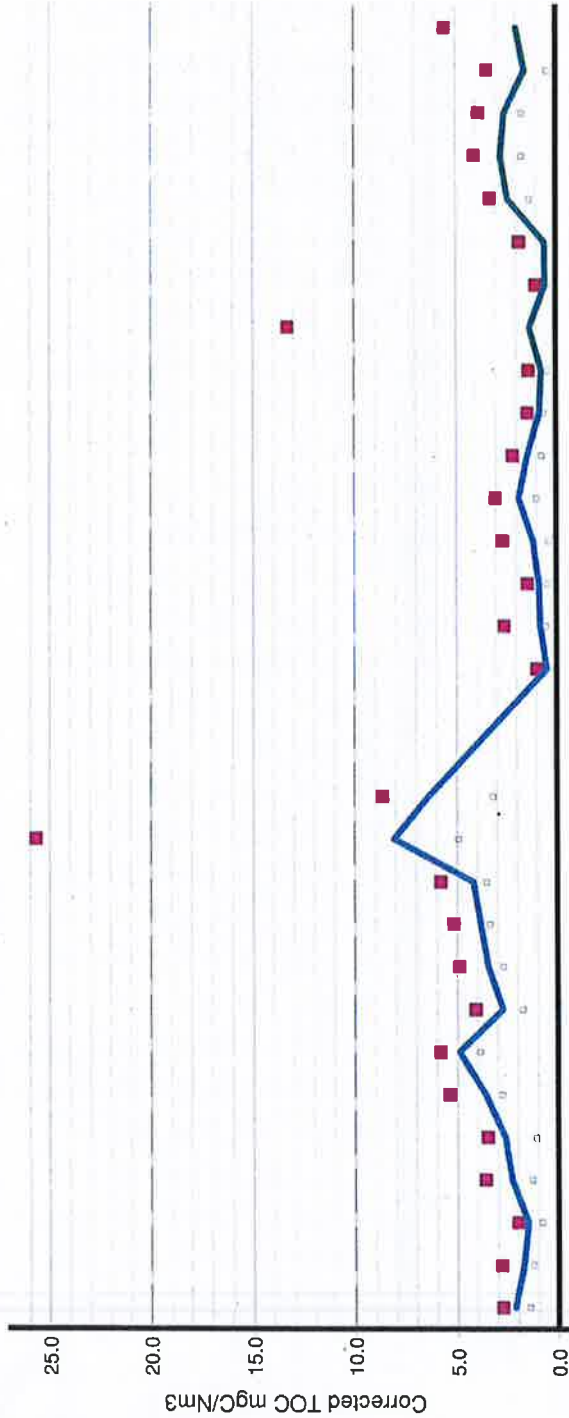
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A4 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of October 2013

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	--																															
	Monthly maximum	25.7	2.8	2.8	2.0	3.6	3.5	5.3	5.8	4.1	4.9	5.1	5.8	25.7	8.6	--	--	1.0	2.6	1.4	2.7	3.0	2.2	1.4	1.4	13.3	1.0	1.8	3.3	4.1	3.9	3.4	5.5
	Monthly mean	2.4	2.2	1.7	1.5	2.3	2.6	3.6	4.9	2.7	3.5	3.8	4.2	8.1	6.4	--	--	0.5	0.8	0.9	1.2	1.9	1.4	0.8	0.7	1.3	0.5	0.6	2.4	2.8	2.6	1.5	2.0
	Monthly minimum	0.0	1.4	1.2	0.8	1.3	1.1	2.8	3.9	1.7	2.7	3.4	3.5	4.9	3.2	--	--	0.0	0.5	0.5	0.4	1.0	0.7	0.6	0.5	0.0	0.1	0.1	1.3	1.7	1.7	0.4	0.0
Average 24 hour	Total invalid results	1																															
	Total exceedances	1																															
	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
	Daily average	8.1	2.2	1.7	1.5	2.3	2.6	3.6	4.9	2.7	3.5	3.8	4.2	8.1	6.4	--	--	0.5	0.8	0.9	1.2	1.9	1.4	0.8	0.7	1.3	0.5	0.6	2.4	2.8	2.6	1.5	2.0
Average 24 hour	No. invalid days	2	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

Signed  Date 8/11/13

(Authorised to sign as representative of Operator)

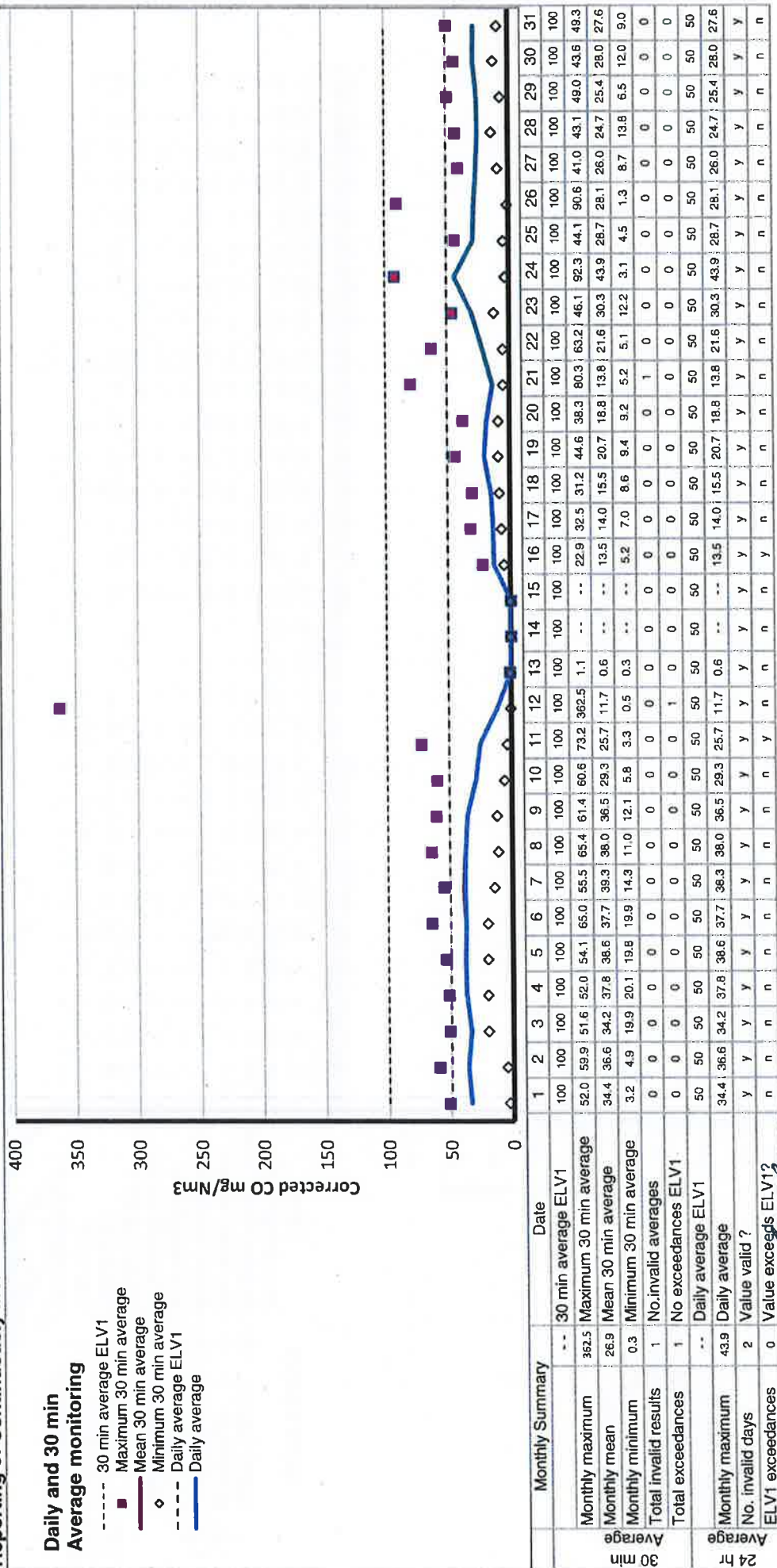
Permit Reference Number : PP3936SQ
Installation: Shotton Paper Mill

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 2013

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



Signed:  Date: 6/11/13

(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

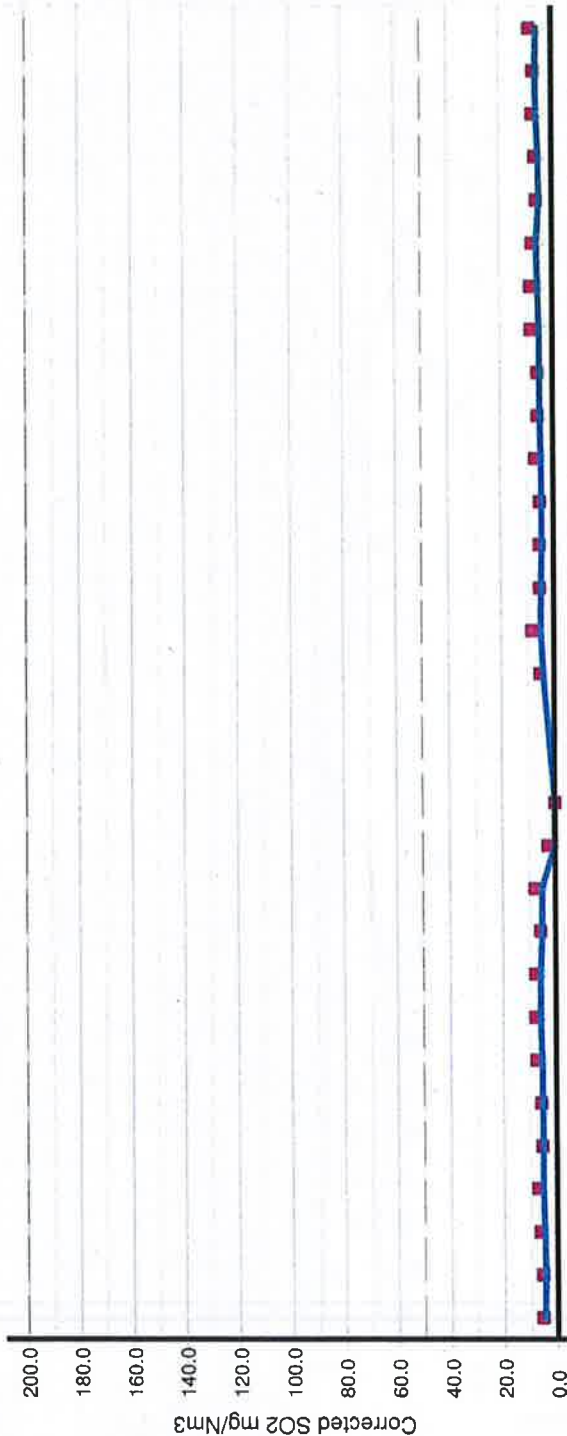
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A6 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Sulphur Dioxide Emission Point A20 for the month of October 2013

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	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
	Maximum 30 min average	8.6	5.6	5.6	6.4	7.0	5.6	5.9	7.4	7.9	7.8	5.8	7.7	2.8	0.0	--	--	5.4	8.5	5.5	5.4	5.2	6.9	5.8	5.9	8.4	8.4	7.8	6.0	6.5	7.5	7.1	8.6
	Monthly mean	4.8	4.9	4.6	4.8	5.4	5.3	5.4	5.5	5.9	5.8	5.1	5.2	0.1	0.0	--	--	4.2	5.0	4.8	4.5	4.5	4.6	4.9	4.9	5.1	5.6	6.0	5.0	5.2	5.9	6.1	5.8
	Monthly minimum	0.0	0.0	0.1	0.1	1.1	5.0	4.9	5.0	5.0	4.8	4.6	4.7	0.0	0.0	--	--	3.5	4.3	4.0	3.9	3.8	3.9	3.7	4.1	2.6	4.3	4.8	4.1	4.4	4.6	4.9	4.6
24 hour Average	Total invalid results	1	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	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
	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
	Monthly maximum	6.1	4.9	4.6	4.8	5.4	5.3	5.4	5.5	5.9	5.8	5.1	5.2	0.1	0.0	--	--	4.2	5.0	4.8	4.5	4.5	4.6	4.9	4.9	5.1	5.6	6.0	5.0	5.2	5.9	6.1	5.8
24 hour Average	Daily average		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
	No. invalid days	2	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 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
	Value exceeds ELV1?	0														--	--																

Signed  Date 6/11/13
(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

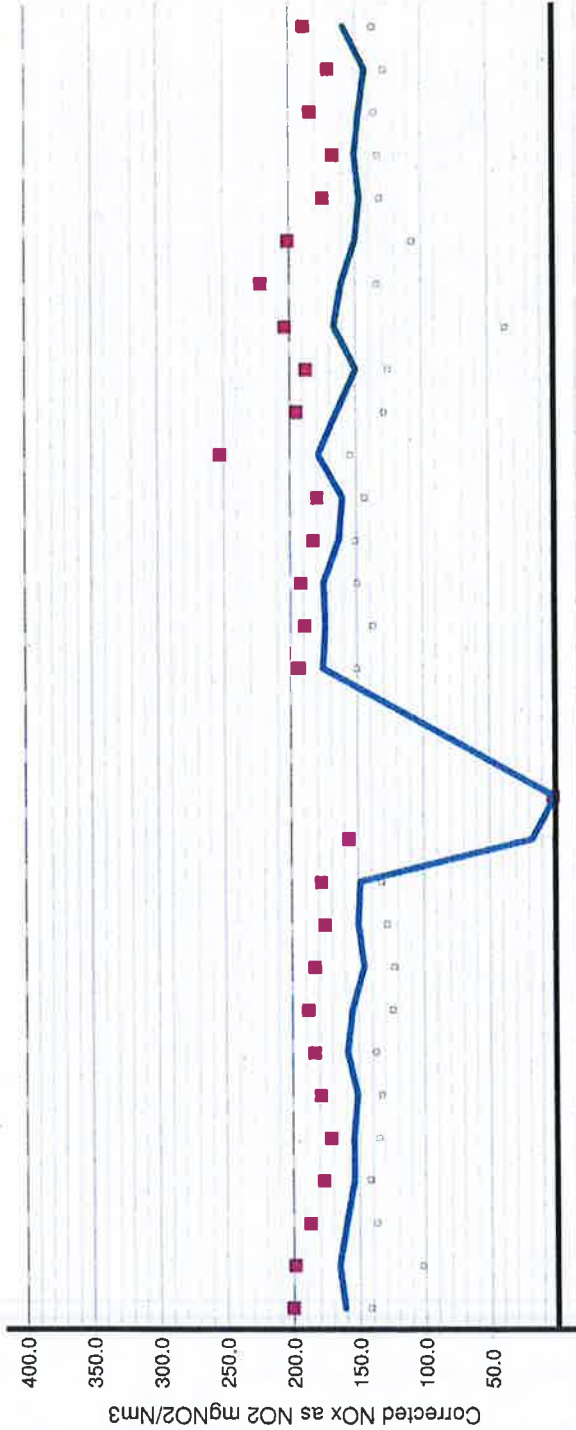
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A7 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of October 2013

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	--	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
	Maximum 30 min average	252.3	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
	Monthly maximum	252.3	200.4	198.8	187.2	176.8	171.5	178.9	183.3	187.9	182.7	175.0	177.7	156.7	1.7	--	--	194.0	189.0	191.9	182.7	179.4	252.3	195.0	187.6	203.5	221.5	200.8	174.5	166.8	183.8	170.3	188.4
	Monthly mean	147.8	161.4	165.6	160.1	153.9	154.3	151.3	158.7	154.8	145.6	150.0	148.4	17.6	0.3	--	--	175.7	173.7	175.0	163.4	160.6	178.9	164.6	150.0	166.4	160.9	150.4	146.6	150.5	147.0	142.4	158.7
Average 24 hour	Monthly minimum	0.0	141.7	102.2	137.1	141.6	135.2	132.7	137.1	123.9	122.6	127.9	132.5	0.0	0.0	--	--	150.2	137.5	149.5	150.8	143.6	154.5	128.7	125.4	36.2	134.3	106.8	131.7	133.4	135.5	127.9	136.9
	Total invalid results	1	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	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
	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
Average 24 hour	Monthly maximum	178.9	161.4	165.6	160.1	153.9	154.3	151.3	158.7	154.8	145.6	150.0	148.4	17.6	0.3	--	--	175.7	173.7	175.0	163.4	160.6	178.9	164.6	150.0	166.4	160.9	150.4	146.6	150.5	147.0	142.4	158.7
	No. invalid days	2	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 valid?	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
	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

6/11/13

Signed
(Authorised to sign as representative of Operator)

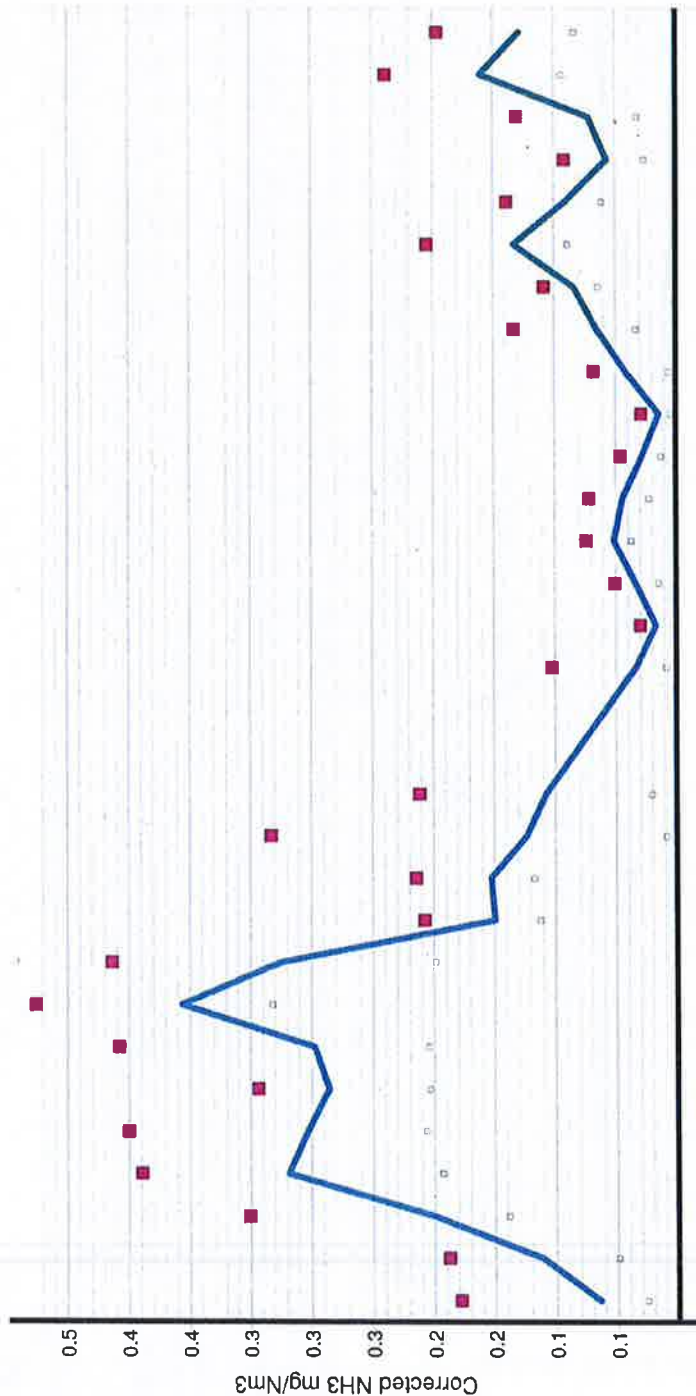
Date:

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 October 2013

Daily and 30 min
average monitoring
■ Maximum 30 min average
□ Mean 30 min average
□ Minimum 30 min average
— 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
Monthly maximum	0.5	Maximum 30 min average	0.2	0.2	0.4	0.4	0.4	0.3	0.5	0.5	0.5	0.2	0.2	0.3	0.2	--	--	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2
	0.1	Mean 30 min average	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.1	0.2	0.1	0.1	--	--	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
	0.0	Minimum 30 min average	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.0	0.0	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1
	1	No. invalid averages	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Monthly maximum	0.4	Daily average	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.1	0.2	0.1	0.1	--	--	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
	2	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

Signed:  Date: 8/11/13

(Authorised to sign as representative of Operator)