

UPM-Kymmene (UK)

Memo
External
9th September 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 notif.ppcnwales@environment-agency.gov.uk

Please find enclosed graphs / reports for Continuously Monitored Emissions to Air A2 to A8 for the period ending 31st August 2013.

During the period there are no air emission reportable incidents, you will note that on 26th August there are 5 readings of invalid results. This was due to a failure of the CEMS unit for a period of 2 ½ hours when the FTIR failed. The appropriate Part A has been completed, with the remaining report to be submitted when the mode of failure of the unit is known from the service provider. During this time the Boiler remained on line with combustion remaining stable this will be confirmed as part of the follow up report.

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

Best Regards

Kevin Smith
Utilities Manager
UPM-Kymmene (UK) Limited
Shotton Paper

Office 01244284393
Fax 01244285393
Mobile 07736497124

MONITORING RETURNS N. WALES

	INITIALS	DATE
CHECKED vs AUTHORIZATION	JS	16/9/13
TRACING	JB	13.9.13
OK FOR PUBLIC REGISTER	JS	16/9/13
NOTED BY OTHERS (if any)	JB	EDM

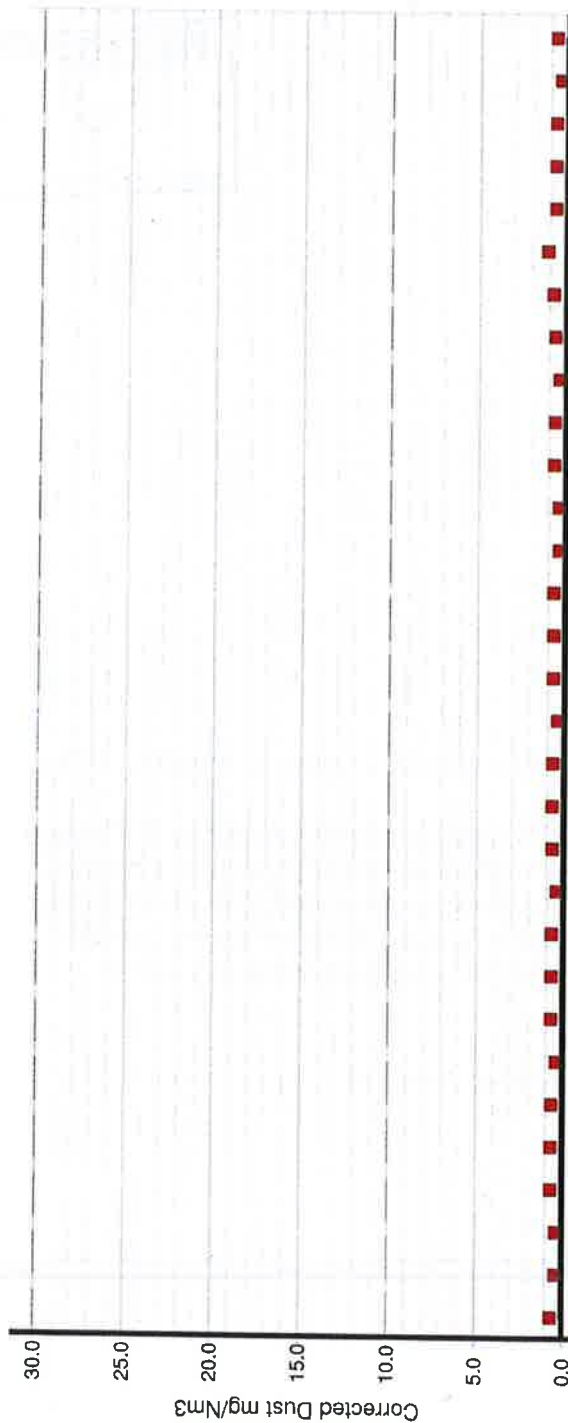
Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

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 August 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	--	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
	Monthly mean	1.1	Maximum 30 min average	0.7	0.4	0.4	0.7	0.7	0.6	0.4	0.7	0.7	0.7	0.4	0.7	0.7	0.7	0.4	0.7	0.7	0.7	0.4	0.4	0.7	0.7	0.4	0.7	0.8	1.1	0.7	0.7	0.7	0.4	0.7
	Monthly minimum	0.0	Mean 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	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 exceedances	5	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
24 hour Average	Monthly maximum	--	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
	No. invalid days	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
	Value exceeds ELV1?	0	Daily 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
	Value 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

6/9/13

Signed
(Authorised to sign as representative of Operator)

Date: 6/9/13

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

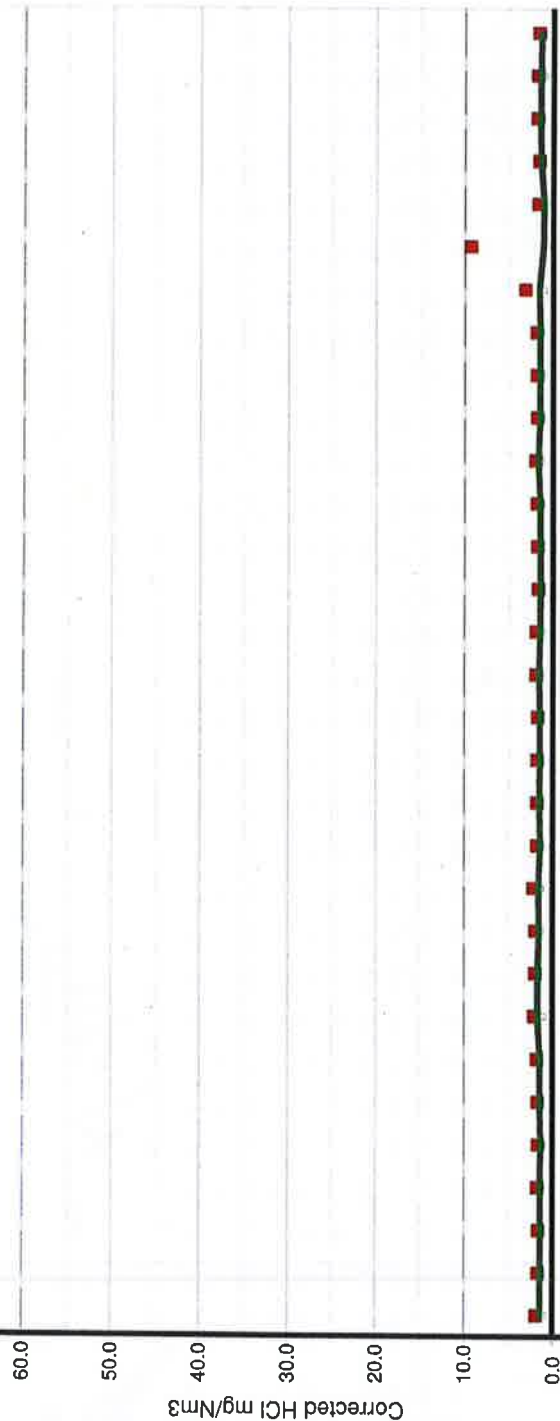
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ /A3 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Hydrogen Chloride Emission Point A20 for the month of August 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		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	9.3	Maximum 30 min average	1.9	1.7	1.6	1.7	1.7	1.7	1.8	2.0	2.0	1.9	2.1	1.8	1.7	1.7	1.7	1.9	1.8	1.6	1.7	1.8	2.0	1.8	1.8	1.8	3.1	9.3	1.6	1.8	1.6	1.7	1.6	
	Monthly mean	1.5	Mean 30 min average	1.5	1.4	1.4	1.4	1.4	1.5	1.7	1.7	1.5	1.6	1.4	1.5	1.6	1.5	1.5	1.5	1.5	1.4	1.4	1.5	1.7	1.5	1.4	1.5	1.6	1.1	1.0	1.4	1.5	1.4	1.3	
	Monthly minimum	0.0	Minimum 30 min average	1.1	1.3	1.2	1.3	1.2	1.3	1.3	1.1	1.6	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.3	1.2	1.3	1.3	1.4	1.2	1.2	1.3	1.0	0.0	0.0	1.3	1.3	1.0	1.2	
	Total invalid results	5	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	5	0	0	0	0	0	0
24 hour Average	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	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	10
	Monthly maximum	1.7	Daily average	1.5	1.4	1.4	1.4	1.4	1.5	1.7	1.7	1.5	1.6	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.5	1.7	1.5	1.4	1.5	1.6	1.1	1.0	1.4	1.5	1.4	1.3	
	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	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	n

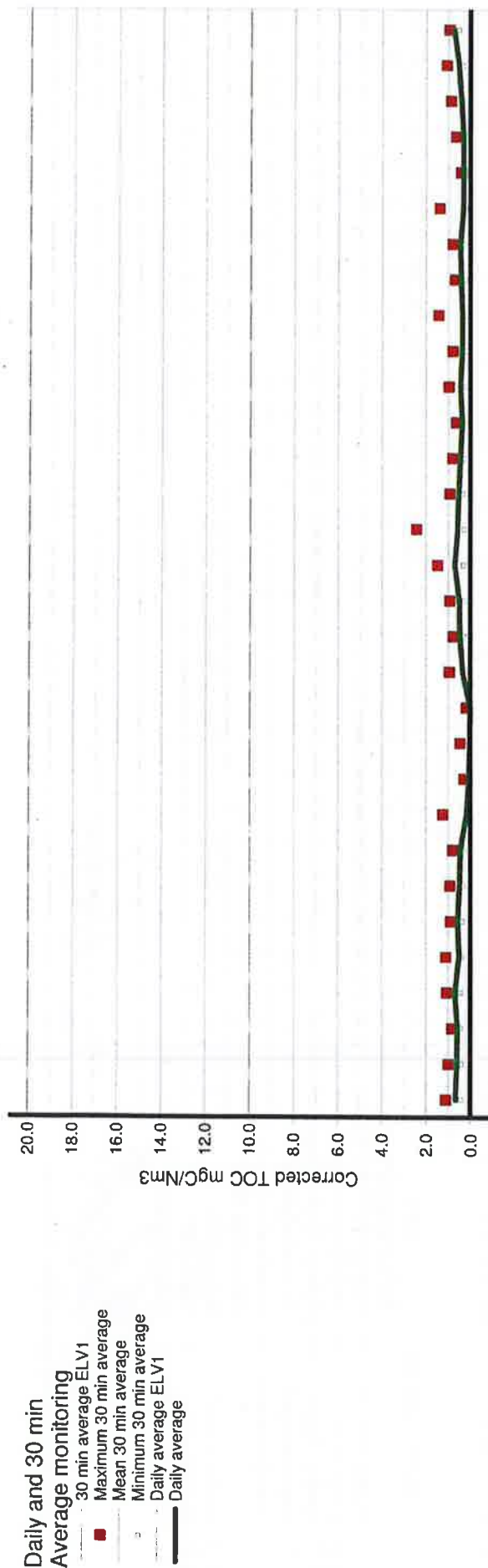
Signed:  (Authorised to sign as representative of Operator)

Date: 6/9/13

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 August 2013



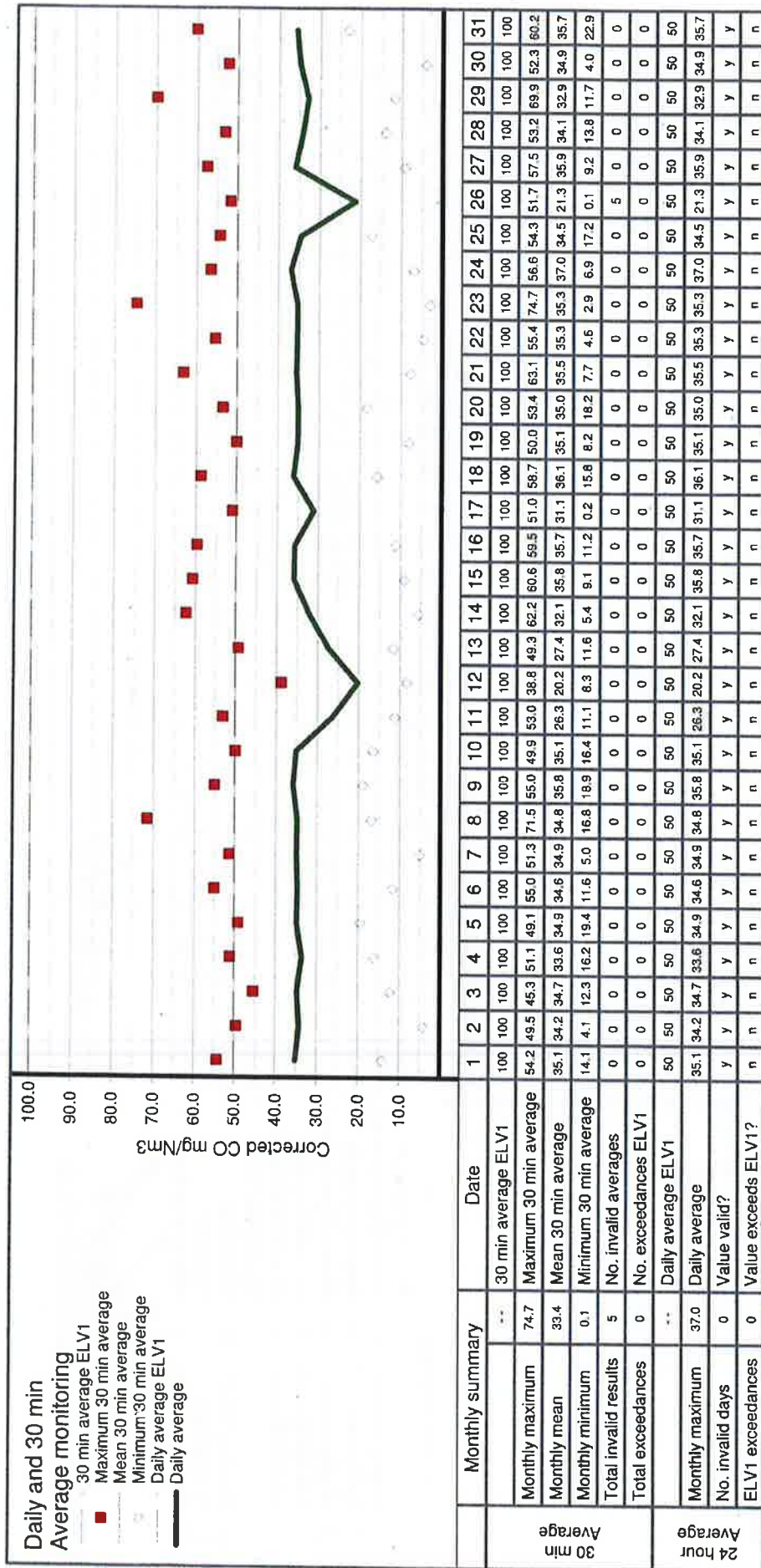
Monthly summary		Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
30 min Average	--	30 min average ELV1		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
	Monthly maximum	2.4	Maximum 30 min average	1.1	1.0	0.8	1.1	1.1	0.9	0.9	0.8	1.2	0.3	0.5	0.2	0.9	0.8	0.9	1.5	2.4	0.9	0.8	0.6	1.0	0.8	1.4	0.7	0.8	1.4	0.4	0.6	0.9	1.1	0.9	
	Monthly mean	0.4	Mean 30 min average	0.7	0.6	0.6	0.7	0.5	0.6	0.5	0.5	0.2	0.1	0.0	0.0	0.3	0.5	0.5	0.7	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.3	0.4	0.5	0.7		
	Monthly minimum	0.0	Minimum 30 min average	0.4	0.4	0.5	0.4	0.4	0.4	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.5	
24 hour Average	Total invalid results	5	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	
	--	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	10
	Monthly maximum	0.7	Daily average	0.7	0.6	0.6	0.7	0.5	0.6	0.5	0.5	0.2	0.1	0.0	0.0	0.3	0.5	0.5	0.7	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.3	0.4	0.5	0.7		
24 hour Average	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: 6/9/13
(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 August 2013



Signed  Date 6/9/13
(Authorised to sign as representative of Operator)

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

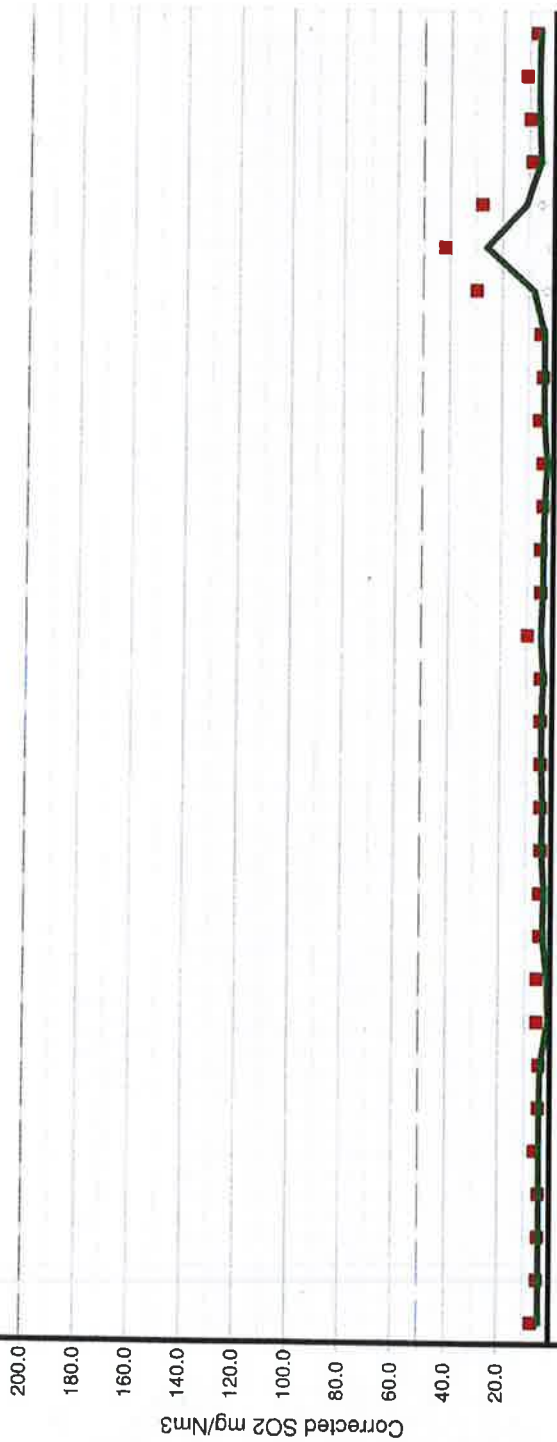
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A6 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Sulphur Dioxide Emission Point A20 for the month of August 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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	200	200	200

Signed  (Authorised to sign as representative of Operator)

Date 6/9/13

Permit Reference Number: PP3936SQ
Installation: Shotton Paper Mill

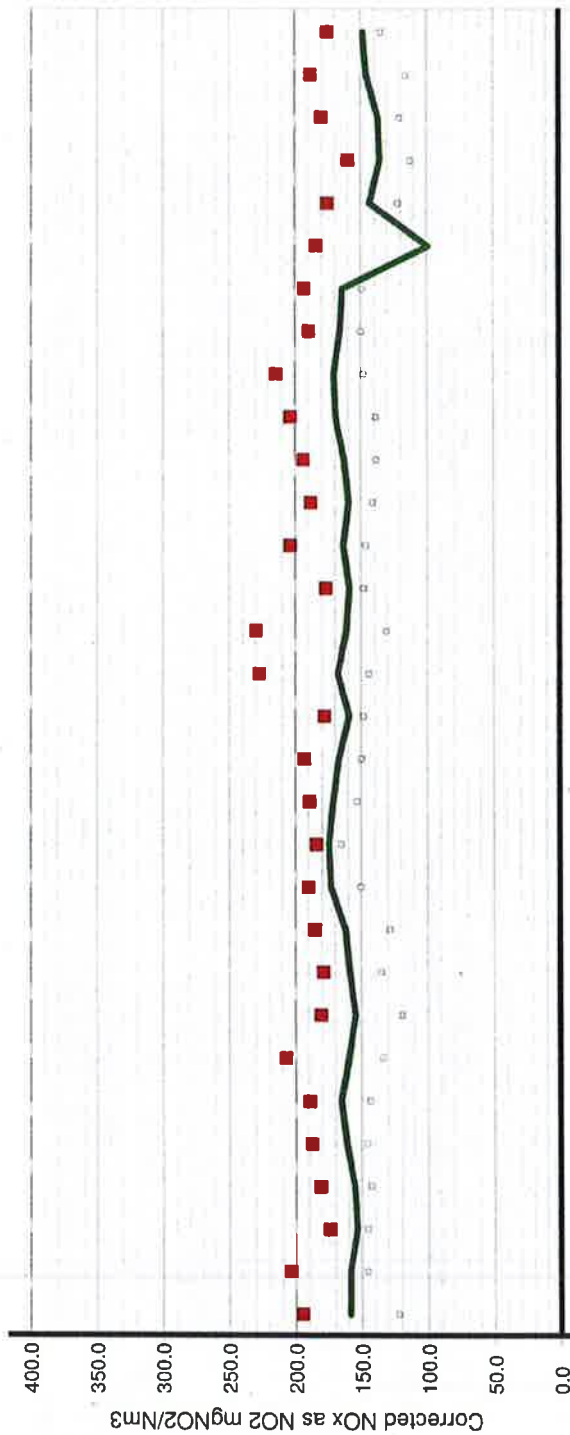
Operator: UPM-Kymmene (UK) Ltd
Form Number: Agency Form / PP3936SQ / A7 / Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of August 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	--																															
	Maximum 30 min average	229.5	194.6	203.6	174.4	181.2	187.7	189.3	207.0	180.4	178.8	185.2	190.1	184.0	189.3	193.1	177.7	227.0	229.5	176.8	203.5	188.1	193.7	203.5	214.2	189.7	193.1	184.0	175.3	159.9	180.2	188.3	175.5
	Monthly mean	157.6	159.0	158.8	153.5	155.6	161.6	165.3	159.6	154.7	158.9	162.1	173.0	174.8	171.2	166.9	159.2	167.7	161.4	159.1	163.6	159.5	162.8	169.2	170.6	165.9	164.0	99.2	143.3	135.6	137.0	145.7	148.5
	Monthly minimum	0.0	122.2	145.6	145.5	143.0	145.8	143.4	133.8	119.4	135.2	128.5	150.0	165.2	153.0	149.7	148.1	144.1	130.8	147.9	146.5	141.2	138.8	138.8	148.1	149.8	149.2	0.0	121.8	112.4	120.7	115.9	134.9
Total invalid results		5	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	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
	Daily average	174.8	159.0	158.8	153.5	155.6	161.6	165.3	159.8	154.7	158.9	162.1	173.0	174.8	171.2	166.9	159.2	167.7	161.4	159.1	163.6	159.5	162.8	169.2	170.6	165.9	164.0	99.2	143.3	135.6	137.0	145.7	148.5
	No. invalid days	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
	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	Y	Y
Value exceeds 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	0

Signed Date: 6/9/13
(Authorised to sign as representative of Operator)

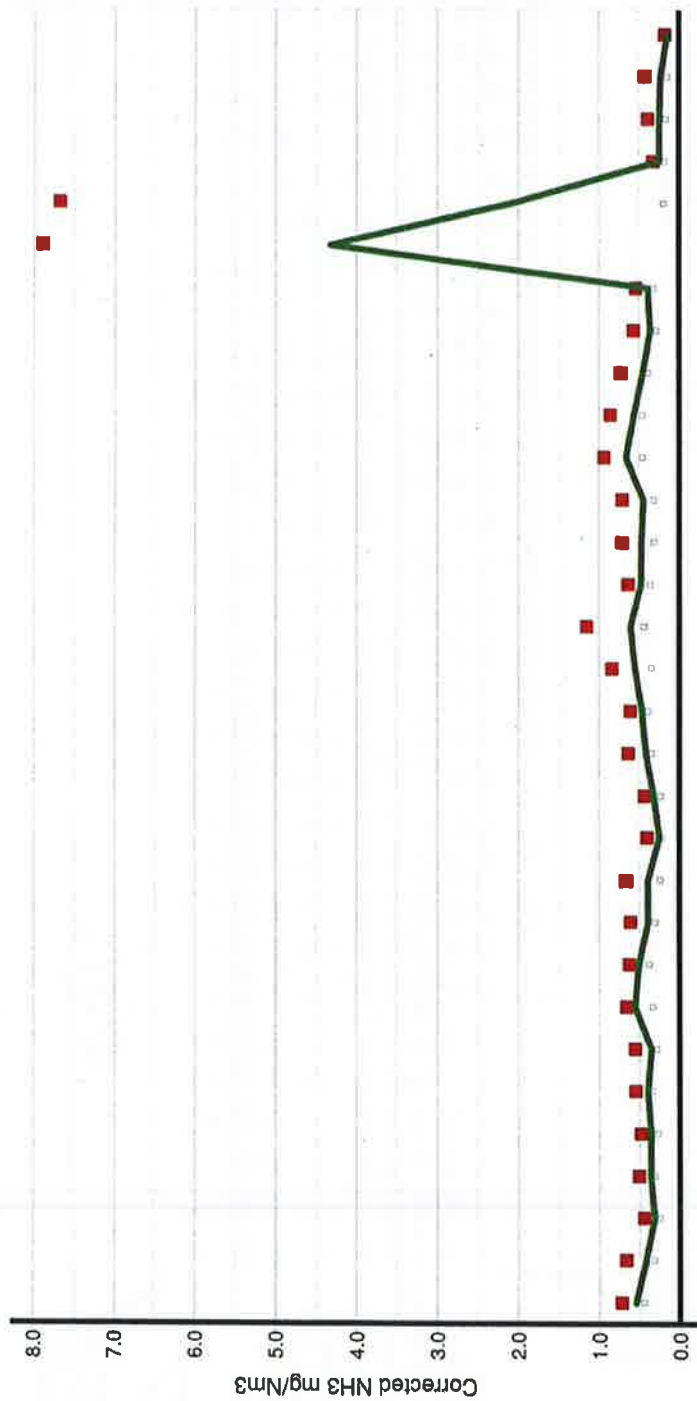
Report Reference Number: PP3936SQ
Location: Shotton Paper Mill

Form Number: Agency Form / PP3936SQ / A8 / Form Dated May 06

Operator: UPM-Kymmene (UK) Ltd

Reporting of Continuously Monitored Emissions to Air for Ammonia Emission Point A20 for the month of August 2013

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



Monthly summary		Date																																
Monthly maximum	7.9	Maximum 30 min average		0.7	0.7	0.4	0.5	0.5	0.6	0.7	0.6	0.8	0.7	0.4	0.4	0.6	0.8	1.1	0.6	0.7	0.7	0.9	0.9	0.7	0.6	0.5	0.6	0.5	7.9	7.7	0.3	0.4	0.4	0.2
Monthly mean	0.6	Mean 30 min average		0.5	0.4	0.3	0.4	0.4	0.4	0.6	0.5	0.4	0.4	0.2	0.3	0.4	0.5	0.6	0.6	0.5	0.5	0.4	0.7	0.6	0.5	0.4	0.4	0.3	0.0	0.2	0.2	0.2	0.2	0.1
Monthly minimum	0.0	Minimum 30 min average		0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.3	0.4	0.3	0.4	0.4	0.3	0.3	0.5	0.5	0.4	0.3	0.3	0.0	0.2	0.2	0.2	0.1	0.1	
Total invalid results	5	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
Monthly maximum	4.3	Daily average		0.5	0.4	0.3	0.4	0.4	0.4	0.6	0.5	0.4	0.4	0.2	0.3	0.4	0.5	0.6	0.6	0.5	0.5	0.4	0.7	0.6	0.5	0.4	0.4	0.4	4.3	2.1	0.2	0.2	0.2	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  Date 6/9/13
(Authorised to sign as representative of Operator)