

UPM-Kymmene (UK)

Memo
External
19th December 2016
KOS

1 (1)

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 30th November 2016.
During the period there have not been any exceedances or non conformances to report

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

Best Regards



Kevin Smith
Utilities Manager
UPM (UK) Shotton

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Permit Reference Number: PP3936SQ
 Installation: Shotton Paper Mill

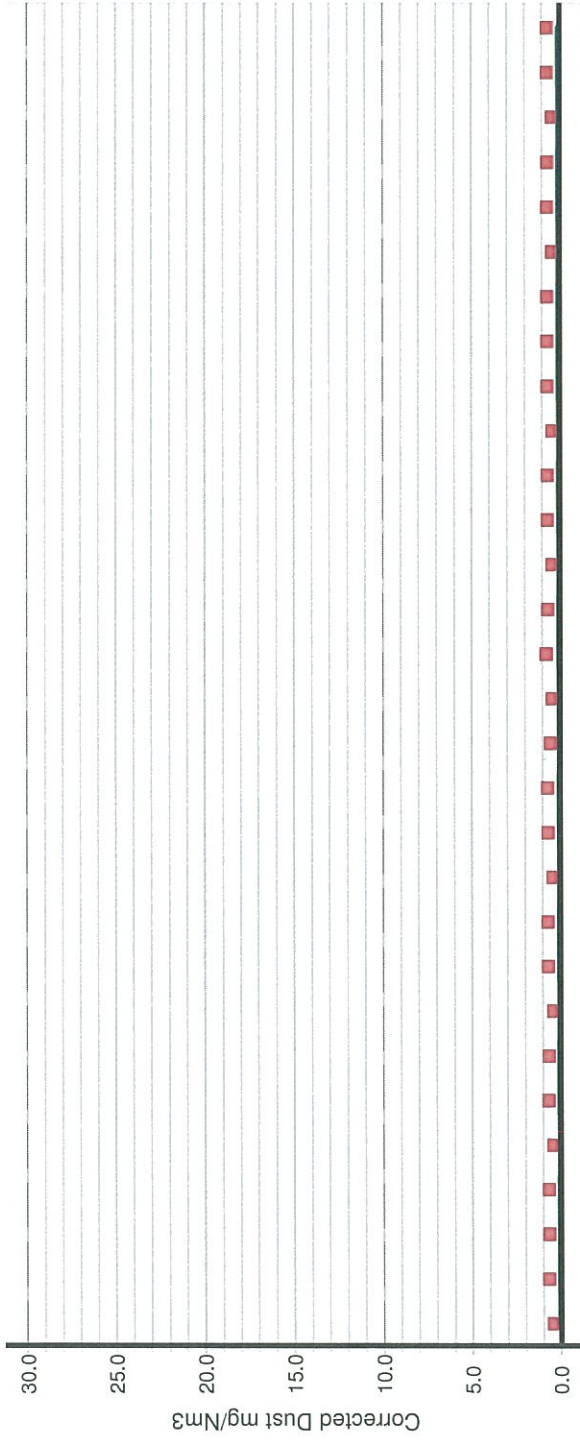
Operator: UPM-Kymmene (UK) Ltd
 Form Number: Agency Form / PP3936SQ /A2 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Particulates Emission Point A20 for the month of November 2016

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	
30 min average ELV1	--	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
Monthly maximum	0.78	0.41	0.67	0.66	0.67	0.42	0.68	0.66	0.41	0.68	0.70	0.42	0.70	0.71	0.57	0.43	0.78	0.67	0.43	0.69	0.69	0.42	0.68	0.70	0.70	0.41	0.68	0.68	0.42	0.69	0.70	
Monthly mean	0.03	0.03	0.04	0.04	0.04	0.03	0.04	0.04	0.03	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.05	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03	0.04	0.04	0.03	0.04	0.03	0.04	
Monthly minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
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
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	0.05	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
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
ELV1 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

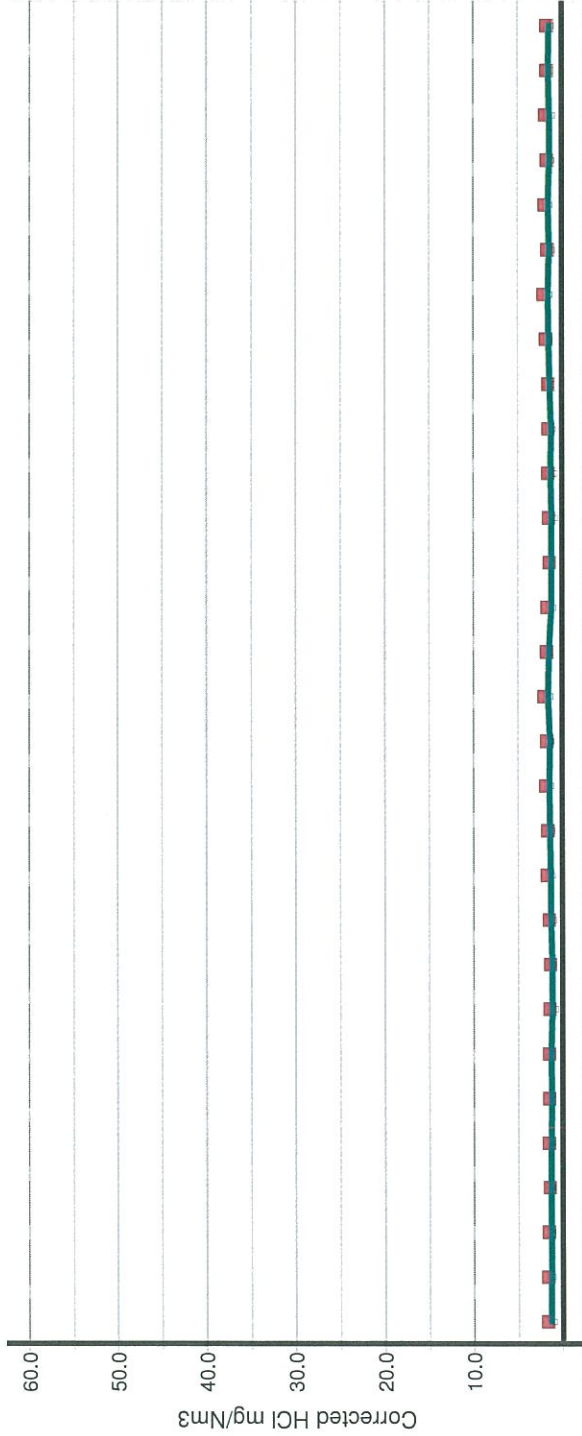
Signed  (Authorised to sign as representative of Operator)

Date: 3/12/16

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 November 2016



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
30 min	Monthly maximum	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
	Monthly mean	Maximum 30 min average	1.7	1.7	1.6	1.5	1.6	1.5	1.5	1.4	1.3	1.5	1.7	1.7	1.8	1.7	2.0	1.7	1.7	1.4	1.5	1.6	1.5	1.5	1.8	2.1	1.6	1.9	1.7	1.8	1.7	1.7
	Monthly minimum	Mean 30 min average	1.3	1.3	1.3	1.3	1.3	1.2	1.3	1.2	1.1	1.3	1.3	1.4	1.4	1.4	1.6	1.5	1.2	1.2	1.2	1.3	1.2	1.4	1.5	1.6	1.4	1.5	1.4	1.4	1.5	1.4
	Total invalid results	Minimum 30 min average	1.0	1.2	1.1	1.2	1.2	1.1	1.1	0.7	1.0	0.9	1.1	1.1	1.3	1.2	1.3	1.3	1.0	1.0	0.8	0.8	1.0	1.1	1.3	1.4	1.1	1.4	1.2	1.1	1.3	1.2
	Total exceedances	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	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
	No. invalid days	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
	ELV1 exceedances	Daily average	1.3	1.3	1.3	1.3	1.3	1.2	1.3	1.2	1.1	1.3	1.3	1.4	1.4	1.4	1.6	1.5	1.2	1.2	1.2	1.3	1.2	1.4	1.5	1.6	1.4	1.5	1.4	1.4	1.5	1.4
		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
		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

[Handwritten signature]

Signed Date: 3/12/16

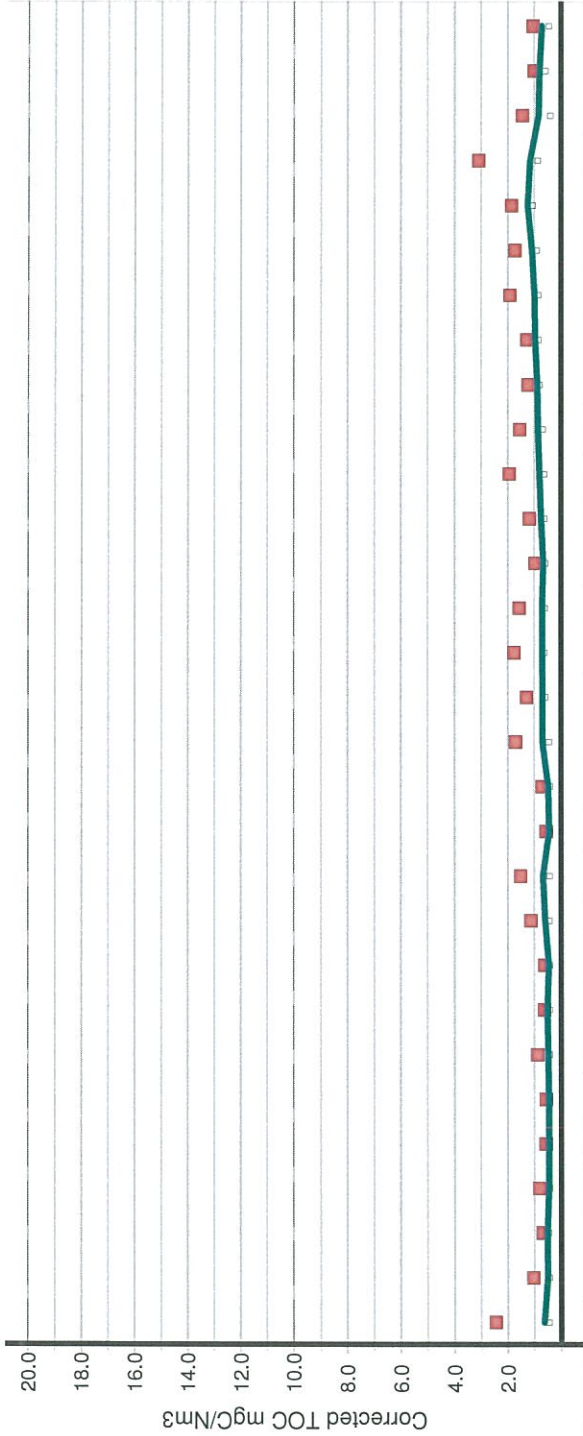
(Authorised to sign as representative of Operator)

Reporting of Continuously Monitored Emissions to Air for TOC Emission Point A20 for the month of November 2016

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

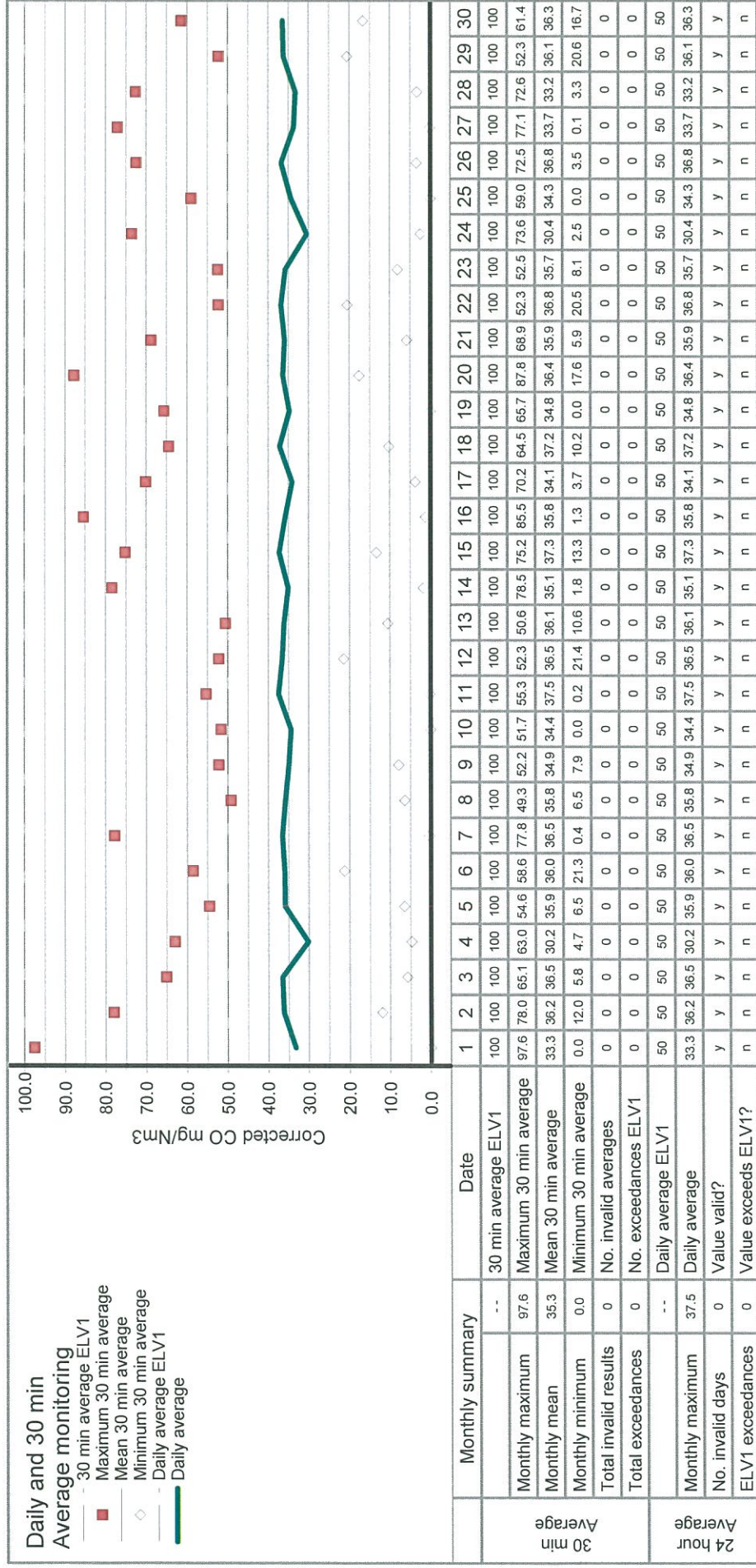


Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
30 min Average	Monthly maximum	3.1	2.5	1.0	0.7	0.8	0.6	0.6	0.9	0.6	1.1	1.5	0.6	0.7	1.7	1.3	1.8	1.6	1.0	1.2	1.9	1.5	1.2	1.3	1.9	1.7	1.9	3.1	1.4	1.0	1.0	
	Monthly mean	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.2	1.2	0.8	0.8	0.7	
	Monthly minimum	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.9	0.9	1.1	0.9	0.4	0.6	0.5	
	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	
	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	
24 hour Average	Monthly maximum	1.2	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	
	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	
	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: 3/12/16

(Authorised to sign as representative of Operator)

Reporting of Continuously Monitored Emissions to Air for Carbon Monoxide Emission Point A20 for the month of November 2016



Signed:  (Authorised to sign as representative of Operator)

Date: 3/12/16

Permit Reference Number: PP3936SQ
 Installation: Shotton Paper Mill

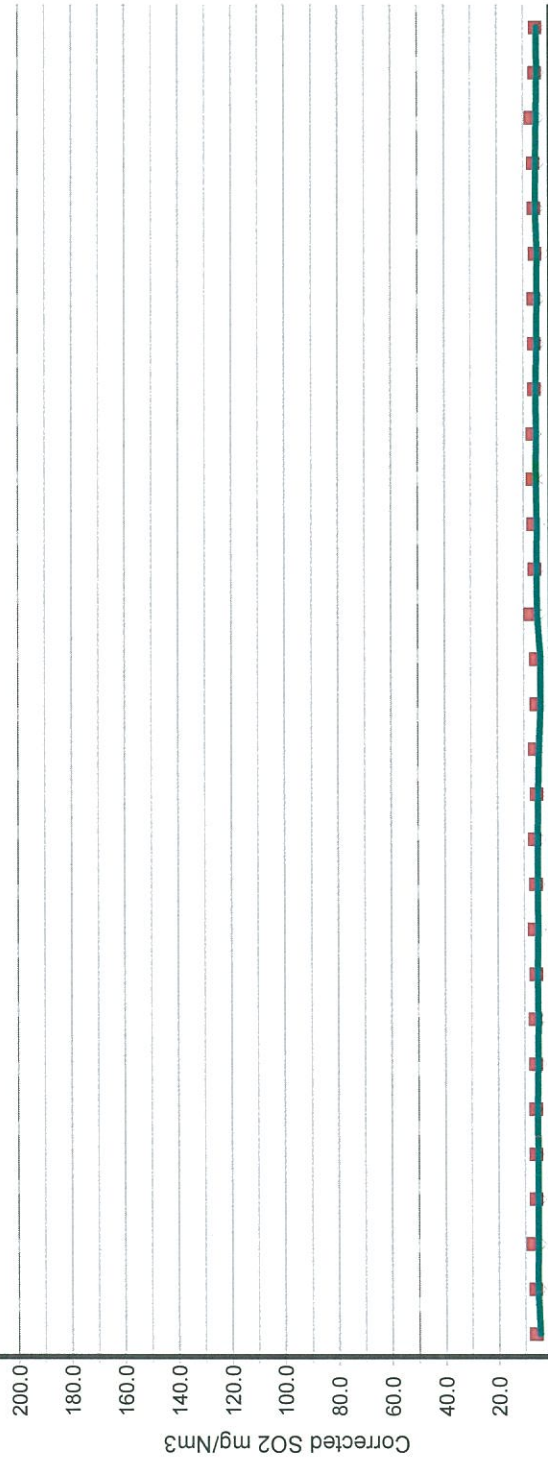
Operator: UPM-Kymmene (UK) Ltd
 Form Number: Agency Form / PP3936SQ /A6 /Form Dated May 06

Reporting of Continuously Monitored Emissions to Air for Sulphur Dioxide Emission Point A20 for the month of November 2016

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
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	6.1	6.3	7.3	6.0	6.0	6.0	6.0	6.0	6.2	5.7	6.5	5.8	6.2	5.4	6.0	5.4	5.6	7.6	6.0	6.5	6.6	6.7	5.9	6.0	6.1	5.7	6.0	6.4	7.2	5.7	5.5
	Mean 30 min average	4.7	5.4	5.3	5.3	5.4	5.4	5.4	5.2	5.1	5.3	5.0	5.2	5.2	4.9	4.5	3.9	4.0	5.2	5.3	5.2	5.5	5.4	5.6	5.2	5.0	5.0	5.5	5.4	5.2	4.9	5.0
	Minimum 30 min average	0.2	4.1	3.9	3.8	4.7	5.2	3.6	3.7	3.8	0.6	4.0	3.8	3.7	3.5	3.4	3.4	3.2	3.6	4.0	0.7	3.1	5.0	4.0	3.8	3.7	1.7	4.2	3.8	3.8	3.7	3.7
	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
	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
	Monthly maximum	--	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	
	No. invalid days	5.6	4.7	5.4	5.3	5.4	5.4	5.2	5.1	5.3	5.0	5.2	5.2	4.9	4.5	3.9	4.0	5.2	5.3	5.2	5.5	5.4	5.6	5.2	5.0	5.0	5.5	5.4	5.2	4.9	5.0	
	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
	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

Signed  (Authorised to sign as representative of Operator)

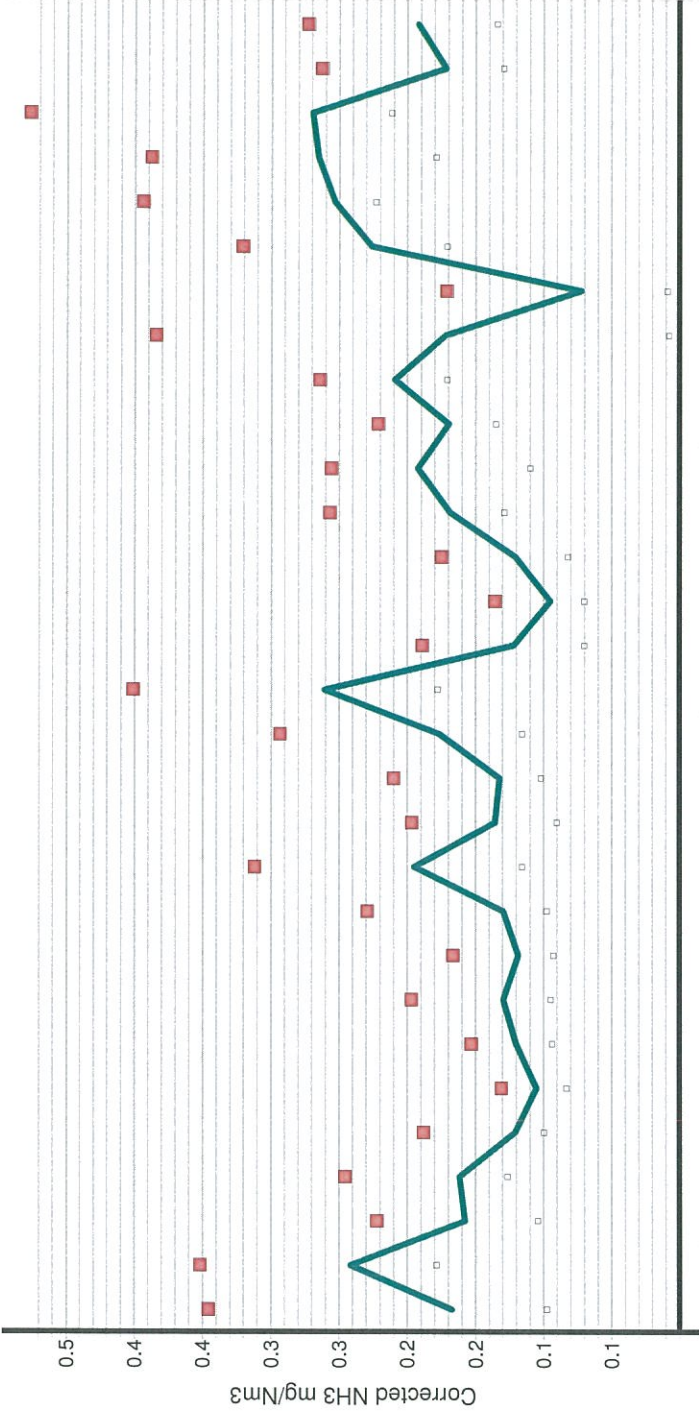
Date: 3/12/16

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 November 2016

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

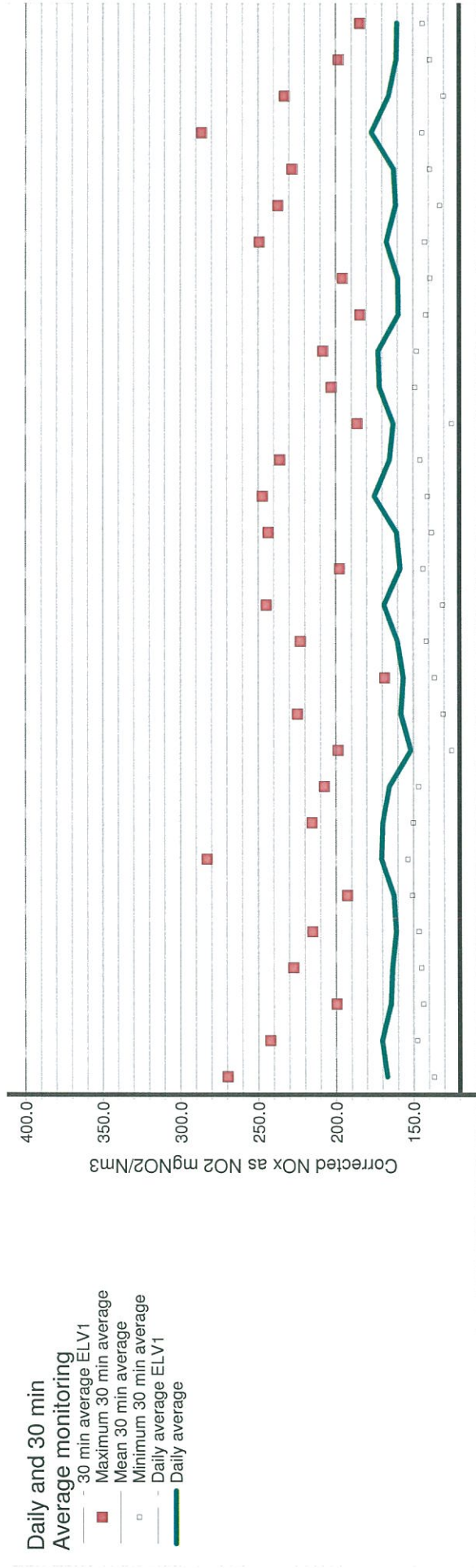


	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Monthly summary																														
Monthly maximum	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.3	0.3	0.3	0.5	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.2	0.4	0.4	0.4	0.5	0.3	0.3
Monthly mean	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.3	0.3	0.3	0.3	0.2	0.2
Monthly minimum	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.2	0.3	0.2	0.2
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
Monthly maximum	0.2	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	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.3	0.3	0.3	0.3	0.2	0.2
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

Signed:  (Authorised to sign as representative of Operator)

Date: 3/12/16

Reporting of Continuously Monitored Emissions to Air for Oxides of Nitrogen Emission Point A20 for the month of November 2016



Monthly summary		Date
30 min	30 min average ELV1	1 400 2 400 3 400 4 400 5 400 6 400 7 400 8 400 9 400 10 400 11 400 12 400 13 400 14 400 15 400 16 400 17 400 18 400 19 400 20 400 21 400 22 400 23 400 24 400 25 400 26 400 27 400 28 400 29 400 30 400
Average	Monthly maximum	269.7
	Monthly mean	166.8
	Monthly minimum	125.0
	Total invalid results	0
	Total exceedances	0
24 hour	Monthly maximum	166.8
	No. invalid days	0
	ELV1 exceedances	0

Signed  (Authorised to sign as representative of Operator)

Date: 3/12/16