

Permit Number: BT4885IT
 Facility: Shotton Paper Mill
 Operator: UPM-Kymmene UK Ltd
 Form Number: A1

Reporting of periodically monitored emissions to air for the period from 01/01/15 to 31/06/2015

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method	Result Date and Time ^[2]	Uncertainty ^[3]
A20	Hydrogen fluoride	2 mg/m ³	Periodic over minimum 1-hour period	0.13	BS ISO 15713	12:30 – 13:30 18/5/15	0.02
A20	Nitrous Oxide (N ₂ O)	No limit applies	Periodic over minimum 1-hour period	0.01	FTIR	12:50 – 14:50 20/5/15	22
A20	Cadmium & thallium and their compounds (total)	0.05 mg/m ³	over minimum 30 minute, maximum 8 hour period	0.002	BS EN 14385	11:52 – 12:58 18/5/15	0.0004
A20	Mercury and its compounds	0.05 mg/m ³	over minimum 30 minute, maximum 8 hour period	0.0001	BS EN 13211	11:52 – 12:58 18/5/15	0.00002
A20	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.5 mg/m ³	over minimum 30 minute, maximum 8 hour period	0.13	BS EN 14385	11:52 – 12:58 18/5/15	0.03
A20	Dioxins / Furans (I-TEQ)	0.1 ng/m ³	over minimum 6 hour period, maximum 8 hour period	0.008	BS EN 1948 Parts 1, 2 and 3	08:40 – 14:50 20/5/15	0.002
A20	Dioxin like PCBs (WHO-TEQ Humans / Mammals) (5)	No limit applies	-	0.002	BS EN 1948 Parts 1, 2 and 3	08:40 – 14:50 20/5/15	0.0002
A20	Dioxin like PCBs (WHO-TEQ Fish)	No limit applies	-	0.0001	BS EN 1948 Parts 1, 2 and 3	08:40 – 14:50 20/5/15	0.00001
A20	Dioxin like PCBs (WHO-TEQ Birds) (5)	No limit applies	-	0.007	BS EN 1948 Parts 1, 2 and 3	08:40 – 14:50 20/5/15	0.001
A20	Dioxins / Furans (WHO – TEQ Humans / Mammals) (5)	No limit applies	-	0.007	BS EN 1948 Parts 1, 2 and 3	08:40 – 14:50 20/5/15	0.001
A20	Dioxins / Furans (WHO – TEQ Fish)	No limit applies	-	0.008	BS EN 1948 Parts 1, 2 and 3	08:40 – 14:50 20/5/15	0.002
A20	Dioxins / Furans (WHO – TEQ Birds)	No limit applies	-	0.02	BS EN 1948 Parts 1, 2 and 3	08:40 – 14:50 20/5/15	0.004

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method	Result Date and Time ^[2]	Uncertainty ^[3]
A20	Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies	-	0.19	BS ISO 11338	08:15 – 14:25 21/5/15	0.04
A20	Anthranthrene	No limit applies	-	0.0117	BS ISO 11338	08:15 – 14:25 21/5/15	0.0024
A20	Benzo(a)anthracene	No limit applies	-	0.0117			0.0024
A20	Benzo(b)fluoranthene	No limit applies	-	0.0117			0.0024
A20	Benzo(k)fluoranthene	No limit applies	-	0.0117			0.0024
A20	Benzo(b)naph(2,1-d)thiophene	No limit applies	-	0.0117			0.0024
A20	Benzo(c)phenanthrene	No limit applies	-	0.0117			0.0024
A20	Benzo(ghi)perylene	No limit applies	-	0.0117			0.0024
A20	Benzo(a)pyrene	No limit applies	-	0.0117			0.0024
A20	Cholanthrene	No limit applies	-	0.0117			0.0024
A20	Chrysene	No limit applies	-	0.0117			0.0024
A20	Cyclopenta(c,d)pyrene	No limit applies	-	0.0117			0.0024
A20	Dibenzo(ah)anthracene	No limit applies	-	0.0117			0.0024
A20	Dibenzo(ai)pyrene	No limit applies	-	0.0117			0.0024
A20	Fluoranthene	No limit applies	-	0.0117			0.0024
A20	Indol1,2,3-cdpyrene	No limit applies	-	0.0117			0.0024
A20	Naphthalene	No limit applies	-	0.0117			0.0024

[1] For dioxins and dioxin-like PCBs, the result are to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum

[2] The date and time of the sample that produced the result is given.

[3] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed

(authorised to sign as representative of UPM-Kymmene UK Ltd)

Date.....11/8/15