

Permit Number: BT4885IT

Operator: UPM-Kymmene UK Ltd

Facility: Shotton Paper Mill

Form Number: A1

Reporting of periodically monitored emissions to air for the period from 1st January 2016 to 30th June 2016

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	0.20	BS ISO 15713	26/04/16	0.002
A20	Nitrous Oxide (N ₂ O)	No limit applies	Periodic over minimum 1-hour period	0.07	FTIR	27/04/16	1.6
A20	Cadmium & thallium and their compounds (total)	0.05 mg/m ³	over minimum 30 minute, maximum 8 hour period	0.0009	BS EN 14385	26/04/16	0.0001
A20	Mercury and its compounds	0.05 mg/m ³	over minimum 30 minute, maximum 8 hour period	0.003	BS EN 13211	26/04/16	0.0004
20.32A20	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	0.31	BS EN 14385	26/04/16	0.05
A20	Dioxins / Furans (1-TEQ)	0.1 ng/m ³	over minimum 6 hour period, maximum 8 hour period	0.003	BS EN 1948 Parts 1, 2 and 3	27/04/16	0.0007
A20	Dioxin like PCBs (WHO-TEQ Humans / Mammals) (5)	No limit applies	-	0.00055	BS EN 1948 Parts 1, 2 and 3	27/04/16	0.0001
A20	Dioxin like PCBs (WHO-TEQ Fish)	No limit applies	-	0.00002	BS EN 1948 Parts 1, 2 and 3	27/04/16	0.000005
A20	Dioxin like PCBs (WHO-TEQ Birds) (5)	No limit applies	-	0.00115	BS EN 1948 Parts 1, 2 and 3	27/04/16	0.0002
A20	Dioxins / Furans (WHO - TEQ Humans / Mammals) (5)	No limit applies	-	0.003	BS EN 1948 Parts 1, 2 and 3	27/04/16	0.0006
A20	Dioxins / Furans (WHO - TEQ Fish)	No limit applies	-	0.003	BS EN 1948 Parts 1, 2 and 3	27/04/16	0.0006
A20	Dioxins / Furans (WHO - TEQ Birds)	No limit applies	-	0.006	BS EN 1948 Parts 1, 2 and 3	27/04/16	0.0013
A20	Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies	-	0.71	BS ISO 11338-1 & BS ISO 11338-2	28/04/16	0.15

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method	Result Date and Time [2]	Uncertainty [3]
A20	Anthanthrene	No limit applies	-	<0.02	BS ISO 11338-1 & BS ISO 11338-2	28/04/16	<0.03
A20	Benzo(a)anthracene	No limit applies	-	<0.02			<0.03
A20	Benzo(b)fluoranthene	No limit applies	-	<0.02			<0.03
A20	Benzo(k)fluoranthene	No limit applies	-	<0.02			<0.03
A20	Benzo(b)naph-thiophene	No limit applies	-	<0.02			<0.03
A20	Benzo(c)phenanthrene	No limit applies	-	<0.02			<0.03
A20	Benzo(ghi)perylene	No limit applies	-	<0.02			<0.03
A20	Benzo(a)pyrene	No limit applies	-	<0.02			<0.03
A20	Cholanthrene	No limit applies	-	<0.02			<0.03
A20	Chrysene	No limit applies	-	<0.02			<0.03
A20	Cyclopenta(c,d)pyrene	No limit applies	-	<0.02			<0.03
A20	Dibenzo(ah)anthracene	No limit applies	-	<0.02			<0.03
A20	Dibenzo(ai)pyrene	No limit applies	-	<0.02			<0.03
A20	Fluoranthene	No limit applies	-	0.05			0.009
A20	Indo[1,2,3-cd]pyrene	No limit applies	-	0.02			<0.03
A20	Naphthalene	No limit applies	-	0.45			0.09

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

 10/8/16