

**RELEASES TO AIR
QUARTERLY RETURN**

**MONTHLY MEAN, MAXIMUM DAILY MEAN AND ANNUAL PERCENTILE CONCENTRATIONS
OPERATING MODE:**

Operator: Dow Silicones UK Ltd

Form: IED CON 2 (Gas Turbines)

Location: Barry Cogeneration Plant

Version/Date:

V.3.1 31 Dec 2016

Permit/Variation Number: EPR/JP3632ZH/V002

A3 / LCP60						
Year: 2018	NOx (mg/m3)			CO (mg/m3)		
Month	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean
January	59.92	86.17		2	15	33.1
February	60.04	77.33		3.5	8.8	9.7
March	63.5	80.74		3.8	10.7	18.8
April	59.62	62.48		3.5	13.3	19.4
May	60.02	66.19		3	8.2	24.4
June	54.67	58.31		3	12.4	23
July	53.65	57.36		2.3	4.8	20.2
August	61.44	76.9		1.5	8.8	26.3
September	54.37	55.09		0.7	2.2	17.4
October	-	-		-	-	-
November	-	-		-	-	-
December	72.93	79.47		2	7.4	7.4
Monthly ELV / Daily ELV (f)	125	125		80	80	80
Annual 95th Percentile (h)	77.01(164)			9.5(164)		
Annual Percentile ELV (g)	125			80		

NOTES:

(a) All data based on validated hourly average concentrations, excluding start-up and shut-down and periods of malfunction or breakdown of abatement equipment, at 15% O₂, dry, 273.15K, 101.325 kPa

(b) Annual percentiles are submitted with the final return (Quarter 4)

(c) Extend report to cover the required number of LCP on each site and repeat report for each separately regulated Operating Mode as required, e.g., Combined Cycle, Open Cycle, Supplementary firing, Auxiliary firing

(d) Averages determined at loads in the range 70% < Load ≤ 100% ISO base load and above

(e) Averages determined at loads in the range MSUL* < Load = 100% ISO base load and above (* For a 3 parameter approach, from the point of Start-Up to the point of Shut-down)

(f) Leave the Daily ELV blank if this is applied as a 95th percentile ELV within the Permit

(g) For each pollutant, report the Annual 95th percentile ELV for hourly averages in the first column and, if applicable, the Annual 95th percentile ELV for daily means in the second column

(h) For each pollutant, report the Annual 95th percentile of hourly averages in the first column and, if applicable, the Annual 95th percentile of daily means in the second column

Signed on behalf of the Operator by:



Judith Sartor, Environmental Specialist

Date of return:

7th February 2019

No confidence adjustment

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Permit/Variation Number: EPR/JP3632ZH/V002

Form: IED CON 2 (Gas Turbines)
Version/Date: V.3.1 31 Dec 2015

Year: 2018	A2 / LCP60					
	NOx (mg/m3)			CO (mg/m3)		
Month	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean
January	186.72	196.96		7	25.6	
February	193.71	202.79		3.9	13.1	
March	189.4	197.49		5.1	10.3	
April	185.29	192.4		2.5	6.6	
May	187.69	194.5		3.4	4.3	
June	196.37	214.87		3.6	7.3	
July	184.36	186.72		2.7	5.2	
August	-	-		-	-	
September	189.3	197.2		166.7	262.4	
October	190.93	205.31		12.7	24.8	
November	200.25	212.91		9.8	16.8	
December	206.31	215.86		15.5	29.6	
Monthly ELV / Daily ELV (f)	250	250		100	110	
Annual 95th Percentile (h)	213.24(117)			31.8(117)		
Annual Percentile ELV (g)	250			200		

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Month	NOx (mg/m3)			CO (mg/m3)		
	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean
January	61.06	64.74		2.7	9.2	15.9
February	63.58	65.84		5.4	12.1	43.8
March	52.77	63.76		11.4	55.1	126.3
April	58.16	65.77		7.6	21.3	42.6
May	58.	63.54		6.4	12.8	25.3
June	59.01	65.59		6.4	21.2	31.6
July	57.89	60.66		4.1	8.1	24.8
August	59.99	66.01		5.1	12.1	37.3
September	66.88	78.79		7.	15.2	15.2
October	75.6	80.65		8.6	12.5	11.8
November	73.26	82.25		7.7	14.	10.8
December	68.67	73.33		7.9	11.3	11.3
Monthly ELV / Daily ELV (f)	125.	125.		80.	80.	80.
Annual 95th Percentile (h)	78.47(331)			16.7(331)		
Annual Percentile ELV (g)	125.			80.		

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