

**RELEASES TO AIR
QUARTERLY RETURN
MONTHLY MEAN, MAXIMUM DAILY MEAN AND ANNUAL PERCENTILE CONCENTRATIONS
OPERATING MODE:**

Operator: **Dow Silicones UK Ltd**
Location: **Barry Cogeneration Plant**
Permit/Variation Number: **EPR/JP3632ZH/V004**

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

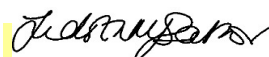
Year: 2020						
A1 / LCP 60						
Month	NOx (mg/m3)			CO (mg/m3)		
	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean
January	56.85	75.76		10.5	27	
February	67.16	83.61		5.4	11.6	
March	81.93	97.15		3.9	7.7	
April	73.43	94.45		7.2	22.5	
May	65.65	70.79		8.1	17.5	
June	68.4	77.91		5.5	12.4	
July	65.45	72.70		2.86	14.32	
August	65.16	75.38		4.48	12.67	
September	62.97	79.97		2.54	7.31	
October		-		-	-	
November	-	-		-	-	
December	-	-		-	-	
Monthly ELV / Daily ELV (f)	75.	82.5		80.	80.	
Annual 95th Percentile (h)						
Annual Percentile ELV (g)						

New permit limits from 1 July 2020

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:

28th October 2020

No confidence adjustment

**RELEASES TO AIR
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Year: 2020						
A2 / LCP60						
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	-	-		-	-	
February	-	-		-	-	
March	200.81	217.31		15.4	19.2	
April	208.98	218.51		11.3	25.4	
May	224.36	240.01		8.4	11.1	
June	218.01	233.57		8.2	12.3	
July	200.53	208.34		4.87	65.59	
August	-	-		-	-	
September	212.18	221.97		0.51	1.03	
October	-	-		-	-	
November	-	-		-	-	
December	-	-		-	-	
Monthly ELV / Daily ELV (f)	100	110		100	110	
Annual 95th Percentile (h)						
Annual Percentile ELV (g)						

65 hours
0 hours
53 hours

New permit limits from 1 July 2020

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A3 / LCP60						
Year: 2020						
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	82.62	89.08		0.3	1.5	
February	78.13	88.05		0.3	1.8	
March	71.65	78.52		0	0.1	
April	70.75	77.66		0	0.2	
May	74.09	81.84		0	0.1	
June	55.83	71.3		0.7	5.8	
July	37.27	79.67		3.7	13.5	
August	28.05	34.29		4.9	12.0	
September	27.79	31.89		5.0	17.1	
October	-	-		-	-	
November	-	-		-	-	
December	-	-		-	-	
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Annual 95th Percentile (h)						
Annual Percentile ELV (g)						

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