

RELEASES TO AIR

QUARTERLY RETURN

MONTHLY MEAN, MAXIMUM DAILY MEAN AND ANNUAL PERCENTILE CONCENTRATIONS

OPERATING MODE:

Operator: Engie

Form:

IED CON 2 (Gas Turbines)

Location: Barry Cogeneration Plant

Version/date:

V.3, 1 31 Dec 2015

Permit/Variation Number:

EPR/JP3632ZH/V002

Year: 2017	A1 / LCP 60					
	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	65.24	71.24		6.7	13.8	14.7
February	61.98	66.89		6.8	15.4	37.4
March	61.14	64.30		8.5	17.3	32.1
April	63.12	65.60		6.1	16.1	20.7
May	61.51	64.94		6.3	20.7	30.9
June	60.11	62.59		5.9	11.9	25.1
July	52.64	55.90		4.3	11.6	26.7
August	53.57	58.06		4.9	12.1	22.3
September	65.07	67.64		3.7	22.2	42.8
October	58.32	71.36		5.9	18.1	88.5
November	59.73	64.26		6.4	20.5	63.9
December	61.63	65.19		4.1	12.2	41.7
Monthly ELV / Daily ELV (f)	125	125		80	80	80
Annual 95th Percentile (h)	66.67(335)			18.7(335)		
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:



Date of return:

09th February 2018

No confidence adjustment

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IED CON 2 (Gas Turbines)

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Version/date:

V.3.1 31 Dec 2015

Permit/Variation Number: EPR/JP3632ZH/V002

Year: 2017	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	215.71	220.59		3.4	9.5	
February	-	-		-	-	
March	-	-		-	-	
April	-	-		-	-	
May	-	-		-	-	
June	186.98	205.20		6.3	45.2	
July	186.73	205.39		5.7	26.8	
August	188.11	193.22		4.1	4.2	
September	185.49	193.34		3.5	6.6	
October	183.36	195.62		12.4	17.1	
November	188.50	201.45		11.4	36.2	
December	188.25	202.05		4.2	25.7	
Monthly ELV / Daily ELV (f)	250	250		100	110	
Annual 95th Percentile (h)	218.59(55)			21.6(55)		
Annual Percentile ELV (g)	250			200		

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	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	58.41	62.25		2.9	8.5	8.5
February	57.91	60.62		3.7	10.5	28.1
March	59.38	63.61		4.3	14.8	15.5
April	61.92	64.51		3.3	10.8	10.8
May	60.68	69.02		2.9	7.3	11.3
June	60.77	72.10		2.7	5.3	6.3
July	63.89	73.65		2.0	4.9	14.3
August	60.23	66.06		2.6	6.4	13.3
September	69.36	81.53		2.0	4.5	5.5
October	62.24	65.69		1.8	3.2	17.2
November	61.76	65.57		2.9	8.2	21.4
December	60.32	63.04		3.3	8.2	21.6
Monthly ELV / Daily ELV (f)	125	125		80	80	80
Annual 95th Percentile (h)	70.73(350)			10.2(350)		
Annual Percentile ELV (g)	125			80		

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