

Permit Number: EPR/QP30351V
 Installation: Wyifa Power Station
 Report of Monitoring Emissions to the Air for the year: 2018

Operator: Magnox Limited
 Form Number: Air1 / 18/12/2013

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]			Test Method ^[2]	Sample ^[3]	Uncertainty ^[4]	
				1MWe*	2MWe*	2.8MWe*		Date	Time	
A1	Sulphur Dioxide	7 kg/hour	Mean spot measurements through a minimum of ten minutes stable operating conditions		1.2		BS6069 Section 4.4: 1993 (ISO 7935)	09/03/2017	0947	7%
A2		7 kg/hour			1.1			09/03/2017	1045	7%
A3		7 kg/hour			N/A			-	-	-
A4		7 kg/hour			1.4			09/03/2017	1412	7%
A5		7 kg/hour			1.2			09/03/2017	0905	7%
A6		110 mg/m ³ [6]			N/A			-	-	-
A1	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	400 mg/m ³ [5]	Mean spot measurements through a minimum of ten minutes stable operating conditions	217	270	338	ISO 10849: 1996	09/03/2017	0947	7%
A2		400 mg/m ³ [5]		210	290	329		09/03/2017	1045	7%
A3		400 mg/m ³ [5]		N/A	N/A	N/A		-	-	-
A4		400 mg/m ³ [5]		225	288	347		09/03/2017	1412	7%
A5		400 mg/m ³ [5]		165	281	329		09/03/2017	0905	7%
A6		250 mg/m ³ [6]			N/A			-	-	-
A1	Carbon Monoxide	No limits set	Mean spot measurements through a minimum of ten minutes stable operating conditions	262	125	58	ISO 12039	09/03/2017	0947	4%
A2				346	116	70		09/03/2017	1045	4%
A3				N/A	N/A	N/A		-	-	-
A4				139	43	16		09/03/2017	1412	4%
A5				51	7	18		09/03/2017	0905	4%
A6						N/A			-	-

* A1-A5 only

Footnotes:

1. N/A = 'Not applicable' as Auxiliary Boiler 4 and Gas Turbine (GT) 3 not operated in calendar year 2018.
2. All data for A1, A2, A4 and A5 is reported on the basis of emissions testing carried out in 2017. No emissions testing carried out in 2018 due to permanent cessation of GTs early in 2018.

Notes to accompany table

1. The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.
3. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
4. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
5. Reference conditions: dry air at a temperature of 273 K, at a pressure of 101.3 kPa and with an oxygen content of 15%.
6. Reference conditions: dry air at a temperature of 273 K, at a pressure of 101.3 kPa and with an oxygen content of 3%.

Signed Non Hughes
(Authorised to sign as representative of Operator)

Date 23/01/19

Permit Number:
Installation:
Report of Performance Parameters for the year:

EPR/QP3035LY
Wylfa Power Station
2018

Operator:
Form Number:

Magnox Limited
Performance1 / 18/12/2013

Parameter	Plant					Auxiliary Boilers	All other Back-up and standby diesel generators and engines	TOTAL	Units
	Gas Turbine								
	1	2	3	4	5				
Annual usage	1.8	1.7	0.0	1.4	1.8	-	-	-	Hours
Sulphur dioxide released to air	4	4	0	3	4	-	-	15	kg
Oxides of nitrogen released to air	27	27	0	22	28	-	-	104	kg
Use of gas oil	2.8	2.6	0.0	2.1	2.8	0.0	16.5	26.8	tonnes
Sulphur content of gas oil	Q1	0.08	0.08	N/A	0.08	-	#A10-A12= 0.03	-	% w/w
	Q2	-	-	-	-	-	#A13 = 0.10	-	% w/w
	Q3	-	-	-	-	-	#A14= 0.10 A15= 0.10	-	% w/w
	Q4	-	-	-	-	-	#A16=0.03 #A17=0.05 #A18=0.07	-	% w/w
Use of primary energy	33	31	0	25	33	0	195	316	MWh

*Conversion factor for delivered energy to primary energy = 2.6

Operator's Comments:

Values provided are the arithmetic mean of results within the reporting period.
Gas Turbine(GT) 3 ceased operation in November 2017 followed by GT 1,2,4 and 5 in January 2018. There was no operation of Auxiliary Boilers in 2018.
Diesel Generators, Tertiary Feed Pumps, BUFs 1 & 2 and REIC Back Up Generator permanently ceased operation in December 2018.

Signed: *Non Hughes*
(Authorised to sign as representative of Operator)

Date: *23/01/19*

