Combustion Dirs

Magnox

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26 January 2018

RECEIVED
29 JAN 2018

Ms Julia Frost
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

Your ref:
Our ref: WYA/25.65/691

Dear Ms Frost

ENVIRONMENTAL PERMITTING (ENGLAND & WALES) REGULATIONS 2010, COMBUSTION PLANT PROCESSES – WYLFA POWER STATION – EMISSIONS REPORTING 2017

Please find enclosed the following for the period 1st January 2017 to 31st December 2017 :-

1. Report : WYA/REP/10211 Issue 1 – Combustion Plant Environmental Performance Report – 2017. This report includes completed Forms Air 1 and Performance 1 as specified in Permit No. QP3035LY.

All test results are within the authorised limits.

I trust these are to your satisfaction. Should you have any queries please contact my Environmental Co-ordinator, Mr S Riches or my Head of Health Physics & Chemistry, Mr M Elsworth.

In accordance with clause 4.3.3(a) of our permit and further to our letter reference WYA/25.65/689, please accept this letter as notification that the requirement to operate the Gas Turbines was officially stood down on 20th January 2018.

Yours sincerely

D.S. Law

Stuart Law
Site Director

OK FOR POSTING REGISTER — INITIALS: JF — DATE: 29/1/18
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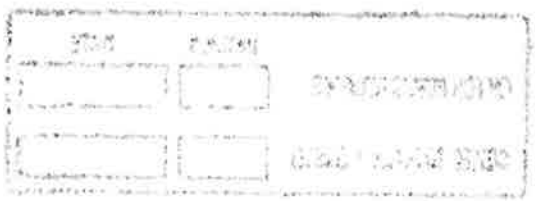
CC Letter only: M Elsworth

Letter & Attachments:
R Arkle, EA, Ghyll Mount, Gillan Way, Penrith, CA11 9BP
S Riches
M Woodward
M Murray
M Mullarkey, EHSQU, OTC

INVESTORS IN PEOPLE

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Cofrestrwyd yng Nghymru a Lloegr o dan rif Cwmni 2264251



Permit Number: **EPR/QP3035LY**
Installation: **Wylfa Power Station**
Report of Monitoring Emissions to the Air for the year: **2017**

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			0.9			09/03/2017	1125	7%
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]			36.0			09/03/2017	1130	7%
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]		215	271	311		09/03/2017	1125	7%
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]			80			09/03/2017	1130	7%
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				315	86	59		09/03/2017	1125	4%
A4				139	43	16		09/03/2017	1412	4%
A5				51	7	18		09/03/2017	0905	4%
A6					8			09/03/2017	1130	4%

* A1-A5 only

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 ..... Date 26/1/18.....
(Authorised to sign as representative of Operator)

Permit Number: **EPR/QP3035LY** Operator: **Magnox Limited**

Installation: **Wylfa Power Station** Form Number: **Performance1 / 18/12/2013**

Report of Performance Parameters for the year: **2017**

Parameter	Plant								
	Gas Turbine					Auxiliary Boilers	All other Back-up and standby diesel generators and engines	TOTAL	Units
	1	2	3	4	5				
Annual usage	30.2	30.1	22.3	25.4	31.6	-	-	-	Hours
Sulphur dioxide released to air	41	41	31	35	43	-	-	191	kg
Oxides of nitrogen released to air	453	484	335	406	493	-	-	2171	kg
Use of gas oil	27.3	27.3	20.2	23.0	28.6	86.4	15.6	228.4	tonnes
Sulphur content of gas oil Q1	0.08	0.08	0.08	0.08	0.08	0.03	#A10-A12= 0.04	-	% w/w
Sulphur content of gas oil Q2	0.07	0.07	0.07	0.07	0.07	0.03	#A13 = 0.10	-	% w/w
Sulphur content of gas oil Q3	0.07	0.07	0.07	0.07	0.07	0.03	#A14= 0.10 A15= 0.10	-	% w/w
Sulphur content of gas oil Q4	0.08	0.08	0.08	0.08	0.08	0.03	#A16=0.03 #A17=0.05 #A18=0.07	-	% w/w
Use of primary energy	324	322	239	272	339	1022	185	2702	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.

Signed: ..... Date 26/1/18

(Authorised to sign as representative of Operator)