Permit Number: EPR/AP3136UA Operator: Dragon LNG Limited

Facility: Dragon LNG, Waterson, Milford Haven, Pembrokeshire, SA73 1DR Form Number: Air 30/06/2023

Reporting of periodic measurement of emissions to air from 01/04/2023 to 30/06/2023

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A8	Oxides of nitrogen (NO and NO2 expressed as NO2)	86 mg/m^{3}[6]	Quarterly spot samples	51.4 mg/l	EN 14792	19/06/2023 14:23 -15:23	+/- 3.3
A9	Oxides of nitrogen (NO and NO2 expressed as NO2)	86 mg/m^{3}[6]	Quarterly spot samples	72.5 mg/l	EN 14792	19/06/2023 12:54–13:54	+/-3.9
A10	Oxides of nitrogen (NO and NO2 expressed as NO2)	86 mg/m^{3}[6]	Quarterly spot samples	64.6 mg/l	EN 14792	20/06/2023 14:11–15:11	+/-
A11	Oxides of nitrogen (NO and NO2 expressed as NO2)	86 mg/m^{3}[6]	Quarterly spot samples	57.7mg/l	EN 14792	20/06/2023 10:04-11.04	+/-3.4
A12	Oxides of nitrogen (NO and NO2 expressed as NO2)	86 mg/m^{3}[6]	Quarterly spot samples	60.2 mg/l	EN 14792	20/06/2023 11:23-12:23	+/- 3.5
A13	Oxides of nitrogen (NO and NO2 expressed as NO2)	86 mg/m^{3}[6]	Quarterly spot samples	63.5 mg/l	EN 14792	20/06/2023 12:46-13:46	+/- 3.6
A8	Carbon monoxide	130 mg/m^{3}[6]	Quarterly spot samples	30.9 mg/l	EN 15058	19/06/2023 14:23 -15:23	+/- 1.6
A9	Carbon monoxide	130 mg/m^{3}[6]	Quarterly spot samples	20.8 mg/l	EN 15058	19/06/2023 12:54 – 13:54	+/- 1.3
A10	Carbon monoxide	130 mg/m^{3}[6]	Quarterly spot samples	38.5 mg/l	EN 15058	20/06/2023 14:11 – 15:11	+/- 3.6
A11	Carbon monoxide	130 mg/m^{3}[6]	Quarterly spot samples	16.2 mg/l	EN 15058	20/06/2023 10:04-11.04	+/-1.1

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A12	Carbon monoxide	130 mg/m3[6]	Quarterly spot samples	13.5 mg/l	EN 15058	20/06/2023 11:23-12:23	+/-1.0
A13	Carbon monoxide	130 mg/m3[6]	Quarterly spot samples	13.6 mg/l	EN 15058	20/06/2023 12:46-13:46	+/- 1.0
A8	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour.[9]	Value during quarterly spot sampling	150 T/Hr	-	19/06/2023 14:23 -15:23	
A9	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour.[9]	Value during quarterly spot sampling	150 T/Hr	-	19/06/2023 12:54–13:54	-
A10	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour.[9]	Value during quarterly spot sampling	150 T/Hr	-	20/06/2023 14:11–15:11	-
A11	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour.[9]	Value during quarterly spot sampling	150 T/Hr	-	20/06/2023 10:04-11.04	-
A12	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour.[9]	Value during quarterly spot sampling	150 T/Hr	-	20/06/2023 11:23-12:23	-
A13	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour.[9]	Value during quarterly spot sampling	150 T/hr	-	20/06/2023 12:46-13:46	-

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A8	Fuel	N/A	Fuel used during emissions sampling	Natural Gas	-	-	Process medium
A9	Fuel	N/A	Fuel used during emissions sampling	Natural Gas	-	-	Process medium
A10	Fuel	N/A	Fuel used during emissions sampling	Natural Gas	-	-	Process medium
A11	Fuel	N/A	Fuel used during emissions sampling	Natural Gas	-	-	Process medium
A12	Fuel	N/A	Fuel used during emissions sampling	Natural Gas	-	-	Process medium
A13	Fuel	N/A	Fuel used during emissions sampling	Natural Gas	-	-	Process medium

[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 Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example 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 for mg/m3 are 15% O2 CCGT, 6% O2 solid fuels, 3% O2 for oil and gas, dry, 0°C, 101.325 kPa

[6] The site is permitted to operate either: a maximum of 6 SCVs at an hourly average throughput of up to 150 tonnes per hour; or a maximum of 5 SCVs at an average hourly throughput of up to 169 tonnes per hour.

Signed ……Priscilla Wilson……. Date……30/06/2023……..

(Authorised to sign as representative of Operator)

Permit Number: EPR/AP3136UA

Operator: Dragon LNG Limited

Facility: Dragon LNG, Waterson, Milford Haven, Pembrokeshire, SA73 1DR

Form Number: Air2/ 30/06/2023
Emission Point: A8

Reporting of continuously monitored emissions to air for the period from 01/04/2023 to 31/06/2023

Month	Monthly Mean of oxides of nitrogen (NO and NO2 expressed as NO2) (mg/m^3)	Monthly mean of carbon monoxide
Quarter 1		
January	5.390	24.913
February	1.431	4.457
March	9.237	23.670
Quarter 2		
April	5.46	24.913
May	0.53	9.93
June	0.58	0.92
Quarter 3		
July	-	-
August	-	-
September	-	-
Quarter 4		
October	-	-
November	-	-
December	-	-

[1] All data based on validated hourly average concentrations, excluding start-up and shut-down and periods of malfunction or breakdown of abatement equipment

[2] Reference conditions for mg/m3 are 15% O2 CCGT, 6% O2 solid fuels, 3% O2 for oil and gas, dry, 0°C, 101.325 kPa

Permit Number: EPR/AP3136UA Operator: Dragon LNG Limited

Facility: Dragon LNG, Waterson, Milford Haven, Pembrokeshire, SA73 1DR Form Number: Water1 / 30/06/2023

Reporting of emissions of effluent for the period from 01/04/2023 to 30/06/2023

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
E2(B)	Oil (mg/l)	5 mg/l	Quarterly spot samples	<1.10	BS EN ISO 9377-2 or SCA blue book 77 ISBN0117517 283	Average of monthly samples taken 12/04/2023 08:00 10/05/2023 08:00 06/06/2023 08:00	
E3	Oil (mg/l)	5 mg/l	Monthly spot samples		BS EN ISO 9377-2 or SCA blue book 77 ISBN0117517 283		
			~~Jan~~/Apr/~~Jul/Oct~~	<1		12/04/2023 08:00	
			~~Feb~~/May/~~Aug/Nov~~	<1		05/05/2023 08:00	
			~~Mar~~/Jun/~~Sep/Dec~~	<1		06/062023 08:00	
E2(B)	Suspended solids (mg/l)	50 mg/l	Quarterly spot samples	12.18 mg/l	BS EN 872 or SCA blue book 105 ISBN 011751957X	Average of monthly samples taken 12/04/2023 08:00 10/05/2023 08:00 06/06/2023 08:00	
E3	Suspended solids (mg/l)	50 mg/l	Monthly spot samples		BS EN 872 or SCA blue book 105 ISBN 011751957X		
			~~Jan~~/Apr/~~Jul/Oct~~	3.4		12/04/2023 08:00	
			~~Feb~~/May/~~Aug/Nov~~	<2		05/05/2023 08:00	

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
			~~Mar~~/Jun/~~Sep/Dec~~	<2		06/062023 08:00	
E2(B)	pH	6 – 9	Quarterly spot samples		BS ISO 10523 or SCA blue book 14 ISBN 0117514284	Average of monthly samples taken	
E3	pH	6 – 9	Monthly spot samples		BS ISO 10523 or SCA blue book 14 ISBN 0117514284		
			~~Jan~~/Apr/~~Jul/Oct~~	7.4		12/04/2023 08:00	
			~~Feb~~/May/~~Aug/Nov~~	7.4		02/05/2023 08:00	
			~~Mar~~/Jun/~~Sep/Dec~~	7.5		06/062023 08:00	
E3	Total oxidised nitrogen asN (mg/l) [6]	45 mg/l	Monthly averages on-line analyser	25.77 mg/l	BS EN ISO 13395 or BS EN 11905-1 or BS EN 12260 or BS ISO 29441 or SCA blue book 40 ISBN 0117515930	1-30 April 2023 1-31 May 2023 1– 30 June2023	
E3	Flow (m3/day)	-	Total volume		Continuous monitor		
			~~Jan~~/Apr/~~Jul/Oct~~	49.26			
			~~Feb~~/May/~~Aug/Nov~~	25.14			
			~~Mar~~/Jun/~~Sep/Dec~~	2.93			

[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 Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example 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] TON calculated from online continuous analyser that measures Nitrates & Nitrites concentrations (mg/l as N) directly and reports average values for the month.

Signed ……Priscilla Wilson……. Date……30/06/2023……..

(Authorised to sign as representative of Operator)

Permit Number: EPR/AP3136UA Operator: Dragon LNG Limited

Facility: Dragon LNG, Waterson, Milford Haven, Pembrokeshire, SA73 1DR Form Number: Energy1 / 31/12/2023

Reporting of Energy Usage for the year 2023

Energy Source	Energy Usage		+Specific Usage (MWh/GWh output)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh		
Natural Gas	MWh		
Gas Oil	tonnes		
Other	specify		
TOTAL	-		

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

END OF YEAR REPORTING – DEC 2023

Signed …….....…… Date……..

Permit Number: EPR/AP3136UA Operator: Dragon LNG Limited

Facility: Dragon LNG, Waterson, Milford Haven, Pembrokeshire, SA73 1DR

Form Number: Performance1 30/06/2023

Reporting of other performance indicators for the period 01/04/2023 to 30/06/2023

Parameter	Quantity (GWh)
Natural gas	181,758

Operator's comments : Fuel Gas used in the Submerged Combustion Vapourisers

Signed ……Priscilla Wilson……. Date……30/06/2023……..

(Authorised to sign as representative of Operator)