

Permit Number: EPR/AP3136UA

Operator: Dragon LNG Limited

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

Form Number: Air1 / 28/10/2022

Reporting of periodic measurement of emissions to air from 01/07/2022 to 30/09/2022

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	No testing carried out for the Qtr – Zero Send out expected	EN 14792	N/A	N/A
A9	Oxides of nitrogen (NO and NO2 expressed as NO2)	86 mg/m ³ [6]	Quarterly spot samples	No testing carried out for the Qtr – Zero Send out expected	EN 14792	N/A	N/A
A10	Oxides of nitrogen (NO and NO2 expressed as NO2)	86 mg/m ³ [6]	Quarterly spot samples	No testing carried out for the Qtr – Zero Send out expected	EN 14792	N/A	N/A
A11	Oxides of nitrogen (NO and NO2 expressed as NO2)	86 mg/m ³ [6]	Quarterly spot samples	No testing carried out for the Qtr – Zero Send out expected	EN 14792	N/A	N/A
A12	Oxides of nitrogen (NO and NO2 expressed as NO2)	86 mg/m ³ [6]	Quarterly spot samples	No testing carried out for the Qtr – Zero Send out expected	EN 14792	N/A	N/A
A13	Oxides of nitrogen (NO and NO2 expressed as NO2)	86 mg/m ³ [6]	Quarterly spot samples	No testing carried out for the Qtr – Zero Send out expected	EN 14792	N/A	N/A
A8	Carbon monoxide	130 mg/m ³ [6]	Quarterly spot samples	No testing carried out for the Qtr – Zero Send out expected	EN 15058	N/A	N/A
A9	Carbon monoxide	130 mg/m ³ [6]	Quarterly spot samples	No testing carried out for the Qtr – Zero Send out expected	EN 15058	N/A	N/A

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A10	Carbon monoxide	130 mg/m ³ [6]	Quarterly spot samples	No testing carried out for the Qtr – Zero Send out expected	EN 15058	N/A	N/A
A11	Carbon monoxide	130 mg/m ³ [6]	Quarterly spot samples	No testing carried out for the Qtr – Zero Send out expected	EN 15058	N/A	N/A
A12	Carbon monoxide	130 mg/m ³ [6]	Quarterly spot samples	No testing carried out for the Qtr – Zero Send out expected	EN 15058	N/A	N/A
A13	Carbon monoxide	130 mg/m ³ [6]	Quarterly spot samples	No testing carried out for the Qtr – Zero Send out expected	EN 15058	N/A	N/A
A8	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour. ^[9]	Value during quarterly spot sampling	No testing carried out for the Qtr – Zero Send out expected	-	N/A	N/A
A9	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour. ^[9]	Value during quarterly spot sampling	No testing carried out for the Qtr – Zero Send out expected	-	N/A	N/A
A10	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour. ^[9]	Value during quarterly spot sampling	No testing carried out for the Qtr – Zero Send out expected	-	N/A	N/A
A11	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour. ^[9]	Value during quarterly spot sampling	No testing carried out for the Qtr – Zero Send out expected	-	N/A	N/A

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A12	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour. ^[9]	Value during quarterly spot sampling	No testing carried out for the Qtr – Zero Send out expected	-	N/A	N/A
A13	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour. ^[9]	Value during quarterly spot sampling	No testing carried out for the Qtr – Zero Send out expected	-	N/A	N/A
A8	Fuel	N/A	Fuel used during emissions sampling	N/A	-	N/A	N/A
A9	Fuel	N/A	Fuel used during emissions sampling	N/A	-	N/A	N/A
A10	Fuel	N/A	Fuel used during emissions sampling	N/A	-	N/A	N/A
A11	Fuel	N/A	Fuel used during emissions sampling	N/A	-	N/A	N/A
A12	Fuel	N/A	Fuel used during emissions sampling	N/A	-	N/A	N/A
A13	Fuel	N/A	Fuel used during emissions sampling	N/A	-	N/A	N/A

[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.

SignedPriscilla Wilson.....

Date.....28/10/2022.....

(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/ 28/10/2022

Emission Point: A8

Reporting of continuously monitored emissions to air for the period from 01/07/2022 to 30/09/2022

Month	Monthly Mean of oxides of nitrogen (NO and NO ₂ expressed as NO ₂) (mg/m ³)	Monthly mean of carbon monoxide
Quarter 1		
January	Submitted Q1	Submitted Q1
February	Submitted Q1	Submitted Q1
March	Submitted Q1	Submitted Q1
Quarter 2		
April	6.79	19.27
May	0.04	0.58
June	0	0
Quarter 3		
July	0.00	6.97
August	10.08	43.41
September	10.39	68.68
Quarter 4		
October	N/A	N/A
November	N/A	N/A
December	N/A	N/A

[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 / 28/10/2022

Reporting of emissions of effluent for the period from 01/07/2022 to 30/09/2022

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	BS EN ISO 9377-2 or SCA blue book 77 ISBN0117517283	03/08/22 08:00	
E3	Oil (mg/l)	5 mg/l	Monthly spot samples		BS EN ISO 9377-2 or SCA blue book 77 ISBN0117517283		
			Jan/Apr/Jul/Oct	<1		06/07/2022 08:00 hours	
			Feb/May/Aug/Nov	<1		03/08/2022 08:00 hours	
			Mar/Jun/Sep/Dec	<1		05/09/2022 08:00 hours	
E2(B)	Suspended solids (mg/l)	50 mg/l	Quarterly spot samples	4.05	BS EN 872 or SCA blue book 105 ISBN 011751957X	03/08/22 08:00	
E3	Suspended solids (mg/l)	50 mg/l	Monthly spot samples		BS EN 872 or SCA blue book 105 ISBN 011751957X		

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
			Jan/Apr/Jul/Oct	<2		06/07/2022 08:00 hours	
			Feb/May/Aug/Nov	<2		03/08/2022 08:00 hours	
			Mar/Jun/Sep/Dec	<2		05/09/2022 08:00 hours	
E2(B)	pH	6 – 9	Quarterly spot samples	8.2	BS ISO 10523 or SCA blue book 14 ISBN 0117514284	03/08/22 08:00	
E3	pH	6 – 9	Monthly spot samples		BS ISO 10523 or SCA blue book 14 ISBN 0117514284		
			Jan/Apr/Jul/Oct	7.9		06/07/2022 08:00 hours	
			Feb/May/Aug/Nov	7.7		03/08/2022 08:00 hours	
			Mar/Jun/Sep/Dec	7.6		05/09/2022 08:00 hours	
E3	Total oxidised nitrogen asN (mg/l) ^[6]	45 mg/l	Monthly averages on-line analyser	5.26	BS EN ISO 13395 or BS EN 11905-1 or BS EN 12260 or BS ISO 29441 or SCA blue book 40 ISBN 0117515930	Average for the quarter	
E3	Flow (m3/day)	-	Total volume		Continuous monitor		
			Jan/Apr/Jul/Oct	285.77		Total for the month	

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
			Feb/May/Aug/Nov	200.02		Total for the month	
			Mar/Jun/Sep/Dec	409.60		Total for the month	

[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.

SignedP Wilson..... Date.....28/10/2022.....
 (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 / 08/07/2022

Reporting of Energy Usage for the year XXXX

Energy Source	Energy Usage		Specific Usage (MWh/unit 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 : **Annual Reporting for completion January 2023**

Signed

Date.....

Permit Number: EPR/AP3136UA

Operator: Dragon LNG Limited

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

Form Number: Performance1 / 28/10/2022

Reporting of other performance indicators for the period 01/07/2022 to 30/09/2022

Parameter	Quantity (GWh)
Natural gas	97.0455

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

SignedP Wilson..... Date.....28/10/2022.....
(Authorised to sign as representative of Operator)