

Permit Number: EPR/AP3136UA

Operator: Dragon LNG Limited

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

Form Number: Air1 / 08/07/2022

Reporting of periodic measurement of emissions to air from 01/04/2022 to 30/06/2022

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 NO ₂ expressed as NO ₂)	86 mg/m ³ [6]	Quarterly spot samples	Out of service for internal maintenance	EN 14792	Out of service for internal maintenance	N/A
A9	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	86 mg/m ³ [6]	Quarterly spot samples	56.8 mg/m ³	EN 14792	20/06/2022 12:12 – 13:15 hrs	+/- 3.5
A10	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	86 mg/m ³ [6]	Quarterly spot samples	56.7 mg/m ³	EN 14792	20/06/2022 13:45-14:45 hrs	+/-3.4
A11	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	86 mg/m ³ [6]	Quarterly spot samples	43.8 mg/m ³	EN 14792	21/06/2022 11:07-12:07 hrs	+/-2.9
A12	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	86 mg/m ³ [6]	Quarterly spot samples	48.5 mg/m ³	EN 14792	21/06/2022 13:31-13:31 hrs	+/-3
A13	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	86 mg/m ³ [6]	Quarterly spot samples	56.1 mg/m ³	EN 14792	21/06/2022 13:51-14.51 hrs	+/-3.2
A8	Carbon monoxide	130 mg/m ³ [6]	Quarterly spot samples	Out of service for internal maintenance	EN 15058	Out of service for internal maintenance	N/A
A9	Carbon monoxide	130 mg/m ³ [6]	Quarterly spot samples	34.1 mg/m ³	EN 15058	20/06/2022 12:12 – 13:15 hrs	+/- 1.5
A10	Carbon monoxide	130 mg/m ³ [6]	Quarterly spot samples	23.9 mg/m ³	EN 15058	20/06/2022 13:45-14:45 hrs	+/- 2.7

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A11	Carbon monoxide	130 mg/m ³ [6]	Quarterly spot samples	23.9 mg/m3	EN 15058	21/06/2022 11:07-12:07 hrs	+/-1.1
A12	Carbon monoxide	130 mg/m ³ [6]	Quarterly spot samples	44.9 mg/m3	EN 15058	21/06/2022 13:31-13:31 hrs	+/-1.6
A13	Carbon monoxide	130 mg/m ³ [6]	Quarterly spot samples	19.4 mg/m3	EN 15058	21/06/2022 13:51-14.51 hrs	+/-0.9
A8	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour.[9]	Value during quarterly spot sampling	Out of service for internal maintenance	-	Out of service for internal maintenance	N/A
A9	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour.[9]	Value during quarterly spot sampling	150 T/Hr	-	20/06/2022 12:12 – 13:15 hrs	Standard Operating Condition
A10	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour.[9]	Value during quarterly spot sampling	150 T/Hr	-	20/06/2022 13:45-14:45 hrs	Standard Operating Condition
A11	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour.[9]	Value during quarterly spot sampling	150 T/Hr	-	21/06/2022 11:07-12:07 hrs	Standard Operating Condition
A12	Load (tonnes per hour)	Average hourly throughput of up to 169 tonnes per hour.[9]	Value during quarterly spot sampling	150 T/Hr	-	21/06/2022 13:31-13:31 hrs	Standard Operating Condition
A13	Load (tonnes per hour)	Average hourly throughput of up to 169	Value during quarterly spot sampling	150 T/Hr	-	21/06/2022 13:51-14.51 hrs	Standard Operating Condition

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
		tonnes per hour. ^[9]					
A8	Fuel	N/A	Fuel used during emissions sampling	Natural Gas	-	N/A	Process medium
A9	Fuel	N/A	Fuel used during emissions sampling	Natural Gas	-	N/A	Process medium
A10	Fuel	N/A	Fuel used during emissions sampling	Natural Gas	-	N/A	Process medium
A11	Fuel	N/A	Fuel used during emissions sampling	Natural Gas	-	N/A	Process medium
A12	Fuel	N/A	Fuel used during emissions sampling	Natural Gas	-	N/A	Process medium
A13	Fuel	N/A	Fuel used during emissions sampling	Natural Gas	-	N/A	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.

SignedPriscilla Wilson.....

Date.....28/07/2022.....

(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/ 08/07/2022

Emission Point: A8

Reporting of continuously monitored emissions to air for the period from 01/04/2022 to 30/06/2022

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	N/A	N/A
August	N/A	N/A
September	N/A	N/A
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 / 08/07/2022

Reporting of emissions of effluent for the period from 01/04/2022 to 30/06/2022

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 mg/l	BS EN ISO 9377-2 or SCA blue book 77 ISBN0117517283	Average of quarterly spot samples	
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 mg/l		20/04/2022 08:00 hours	
			Feb/May/Aug/Nov	<1 mg/l		25/05/2022 08:00 hours	
			Mar/Jun/Sep/Dec	<1 mg/l		23/06/2022 08:00 hours	
E2(B)	Suspended solids (mg/l)	50 mg/l	Quarterly spot samples	103 mg/l	BS EN 872 or SCA blue book 105 ISBN 011751957X	Average for the quarter spot samples	
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		20/04/2022 08:00 hours	
			Feb / May / Aug / Nov	<2		25/05/2022 08:00 hours	
			Mar / Jun / Sep / Dec	<2.8		23/06/2022 08:00 hours	
E2(B)	pH	6 – 9	Quarterly spot samples	8	BS ISO 10523 or SCA blue book 14 ISBN 0117514284	Average for the quarter spot samples	
E3	pH	6 – 9	Monthly spot samples		BS ISO 10523 or SCA blue book 14 ISBN 0117514284		
			Jan / Apr / Jul / Oct	7.6		20/04/2022 08:00 hours	
			Feb / May / Aug / Nov	7.6		25/05/2022 08:00 hours	
			Mar / Jun / Sep / Dec	7.5		23/06/2022 08:00 hours	
E3	Total oxidised nitrogen asN (mg/l) ^[6]	45 mg/l	Monthly spot samples	9.5	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 spot samples	
E3	Flow (m3/day)	-	Total volume		Continuous monitor		
			Jan / Apr / Jul / Oct	1516.12			

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	1059.02			
			Feb/May/Aug/Nov	1663.39			

[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.....28/07/2022.....
(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		
	Quantity	Primary Energy (MWh)	Specific Usage (MWh/unit output)
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 / 08/07/2022

Reporting of other performance indicators for the period 01/04/2022 to 30/06/2022

Parameter	Quantity (GWh)
Natural gas	163.3519

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

SignedP Wilson..... Date.....28/07/2022.....
(Authorised to sign as representative of Operator)