

# Releases to Air - PPC Continuous Measurement

## Operational Summary for the period 01/01/2021 to 31/12/2021

Operator: National Grid Gas PLC

Site Location: Felindre Compressor Station

Permit/Variation no: RP3232LD

Release Point: A1

Continuous Measurement Form						
Pollutant	Month	Daily Avg ELV (mg/m <sup>3</sup> )	Daily Mean <sup>[1][2]</sup> (mg/m <sup>3</sup> )	Hourly 95th Percentile ELV (mg/m <sup>3</sup> )	Cumulative 95th Percentile Hourly Avg Value <sup>[2]</sup> (mg/m <sup>3</sup> )	Total Mass Release (kg)
<b>Quarter 1</b>						
NOX	Jan	75	0.00	150	-	0.24
CO		100	0.00	100	-	3.40
NOX	Feb	75	11.86	150	12.04	126.72
CO		100	8.51	100	8.50	88.45
NOX	Mar	75	11.97	150	11.81	731.40
CO		100	8.63	100	8.95	473.98
<b>Quarter 2</b>						
NOX	Apr	75	0.00	150	11.81	0.00
CO		100	0.00	100	8.95	0.00
NOX	May	75	0.00	150	11.81	0.69
CO		100	0.00	100	8.95	2.52
NOX	Jun	75	0.00	150	11.81	0.00
CO		100	0.00	100	8.95	0.00
<b>Quarter 3</b>						
NOX	Jul	-	-	-	11.81	
CO		-	-	-	8.95	
NOX	Aug	-	-	-	11.81	
CO		-	-	-	8.95	
NOX	Sep	-	-	-	11.81	
CO		-	-	-	8.95	
<b>Quarter 4</b>						
NOX	Oct	-	-	-	11.81	
CO		-	-	-	8.95	
NOX	Nov	-	-	-	11.81	
CO		-	-	-	8.95	
NOX	Dec	-	-	-	11.81	
CO		-	-	-	8.95	

Signed on behalf of the Operator:

**M Secomb**

Date:

08 July 2021

[1] The result given is the maximum value obtained during the reporting period expressed in the same terms as the emission limit value.

[2] Concentrations are reported with the uncertainties at 95% confidence level of 10% for CO and 20% for Nox subtracted from the continuous prediction.



# Releases to Air - PPC Continuous Measurement

## Operational Summary for the period 01/01/2021 to 31/12/2021

Operator: National Grid Gas PLC

Site Location: Felindre Compressor Station

Permit/Variation no: RP3232LD

Release Point: A2

Continuous Measurement Form						
Pollutant	Month	Daily Avg ELV (mg/m <sup>3</sup> )	Daily Mean <sup>[1][2]</sup> (mg/m <sup>3</sup> )	Hourly 95th Percentile ELV (mg/m <sup>3</sup> )	Cumulative 95th Percentile Hourly Avg Value <sup>[2]</sup> (mg/m <sup>3</sup> )	Total Mass Release (kg)
<b>Quarter 1</b>						
NOX	Jan	75	0.00	150	-	1.14
CO		100	0.00	100	-	0.59
NOX	Feb	75	19.53	150	21.70	171.25
CO		100	3.27	100	3.30	35.61
NOX	Mar	75	22.11	150	23.45	925.68
CO		100	3.33	100	3.32	132.33
<b>Quarter 2</b>						
NOX	Apr	75	0.00	150	23.45	0.74
CO		100	0.00	100	3.32	1.69
NOX	May	75	0.00	150	23.45	0.00
CO		100	0.00	100	3.32	0.00
NOX	Jun	75	0.00	150	23.45	0.00
CO		100	0.00	100	3.32	0.00
<b>Quarter 3</b>						
NOX	Jul	-	-	-	23.45	
CO		-	-	-	3.32	
NOX	Aug	-	-	-	23.45	
CO		-	-	-	3.32	
NOX	Sep	-	-	-	23.45	
CO		-	-	-	3.32	
<b>Quarter 4</b>						
NOX	Oct	-	-	-	23.45	
CO		-	-	-	3.32	
NOX	Nov	-	-	-	23.45	
CO		-	-	-	3.32	
NOX	Dec	-	-	-	23.45	
CO		-	-	-	3.32	

Signed on behalf of the Operator:

**M Secomb**

Date:

08 July 2021

[1] The result given is the maximum value obtained during the reporting period expressed in the same terms as the emission limit value.

[2] Concentrations are reported with the uncertainties at 95% confidence level of 10% for CO and 20% for Nox subtracted from the continuous prediction.



## Reporting of other performance indicators for the period 01/01/2021 to 31/12/2021

Operator: National Grid Gas PLC

Site Location: Felindre Compressor Station

Permit/Variation no: RP3232LD

Period	Turbine Unit	Hours of Operation	Hours of Operation at less than 70% MCR	Mass of NOx per Hour of Operation (t/h)	Mass of CO per Hour of Operation (t/h)
Quarter 1	B	560.58	19.75	0.0015	0.0010
	C	382.78	12.73	0.0029	0.0004
Quarter 2	B	0.82	0.82	0.0008	0.0031
	C	0.45	0.45	0.0017	0.0038
Quarter 3	B			-	-
	C			-	-
Quarter 4	B			-	-
	C			-	-
Annual	B	561.39	20.56	0.0015	0.0010
	C	383.22	13.17	0.0029	0.0004

Operator's Comments:

Signed on behalf of the Operator: M Secomb

Date: 08 July 2021



## Reporting of emissions to water (other than to sewer) for the period 01/01/2021 to 31/12/2021

Operator: National Grid Gas PLC

Site Location: Felindre Compressor Station

Permit/Variation no: RP3232LD

Period	Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3][5]</sup>	Uncertainty <sup>[4]</sup>
Biannual 1	W1	visible oil and grease	No visible oil and grease	Any sample	No contamination	Visual check	N/A	N/A
Biannual 2	W1	visible oil and grease	No visible oil and grease	Any sample	No contamination	Visual check		

Signed on behalf of the Operator: M Secomb

Date: 08 July 2021

[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] A visual check is carried out daily during the site walk round (Monday-Friday). A sample date and time is only recorded for a positive result.



**Releases to Air - Continuous Measurement Systems Invalidation Log**

**Operational Summary for the period 01/01/2021 to 31/12/2021**

**Operator: National Grid Gas PLC**

**Site Location: Felindre Compressor Station**

**Permit/Variation no: RP3232LD**

<b>Emissions to Air - Invalidation Log</b>			
<b>Date</b>	<b>Period of Invalidation (hours)</b>	<b>Cumulative Invalidated Days in Year</b>	<b>Comments</b>

**Signed on behalf of the Operator: M Secomb**

**Date: 08 July 2021**

