

From: [Ross, Stuart](#)
To: [Bradford, Julie](#)
Subject: FW: Q3 reporting data for Connahs Quay Power Station
Date: 28 October 2013 09:52:49
Attachments: [CONRWInvalidlogUnit1Q32013.docx](#)
[CONRWInvalidlogUnit2Q32013.docx](#)
[CONRWInvalidlogUnit3Q32013.docx](#)
[COFAQ3AirWatRep2013.xlsx](#)



From: Black, Andrew [mailto:Andy.Black@eon-uk.com]
Sent: 27 October 2013 12:50
To: Ross, Stuart
Cc: Plass, Jason; Felgate, Michael
Subject: Q3 reporting data for Connahs Quay Power Station

Stuart

Please find enclosed a full set of reporting forms for Q3 2013 for Connahs Quay Power Station.

I've attempted to replicate the revised data submission forms as supplied by the Environment Agency with permit variation EPR/MP3337SH/V005.

I would be grateful if you could advise if these forms are acceptable (in their new format).

With regard to the reporting emissions, the following points should be noted

The Annual Surveillance Data for emission point A12 (Gas treatment plant – Gas Regen Heater) refers to the AST visit from E.ON New build and technology on 21st June 2012. The 2013 AST visit is planned for monitoring on Oct 28th 2013 and thus will be reported within the Q4 data. The emission data for A11 refers to the Carbon Monoxide exceedance of 10.2 mg/m³ upon 31st July 2013.

Additionally please note that quarterly monitoring returns for Chlorine Dioxide and Chlorite monitoring from outfalls W1 and W2 are included for the first time.

The value reported for Chlorite (Average) monitoring (5mg/l) from W1 is an average of the highest level monitored from each of the two daily purges. This differs slightly from the permit requirement for an individual average from each 3hr purge window, The data will be refined further to provide this value (it requires construction of a more complex spreadsheet).

Nevertheless, the reported value enclosed within can be used to indicate compliance with the 5 mg/l emission limit.

The requirement within Form Water 1 to provide data uncertainty for each analyser has never previously been reported. I'm in the process of defining uncertainties for each emission parameter and will also provide this information as soon as possible.

A second email will follow with a full month by month breakdown of data reporting for Chlorite and Chlorine Dioxide monitoring for Q3 2013 in line with the requirements of Variation EPR/MP3337SH/V005.

Kind Regards

Andy

UNITING RETURNS N. WALTS

	INITIALS	DATE
CHECKED vs AUTHORIZATION	SC	28.10.13
TRACONS	JB	28.10.13
OK FOR PUBLIC REGISTER		
	JB	EDCM

RECEIVED

27 OCT 2013

RELEASES TO AIR
LCPD REPORTING- Continuous measurement systems invalidations log

Operational

Operator: E.ON UK PLC

Location: Connah's Quay Power Station

Permit/Variation number:

Release Point: A1

Emissions to Air – Invalidation Log

Date	Period of invalidation (hours)	Cumulative invalidated days in year	Comments
31/3/2013	0	0	N/A
30/06/13	0	0	N/A
30/9/13	0	0	N/A

Signed.....

Date.....

Form: Air 3 – Continuous measurement invalidation log (01/12/06)



RELEASES TO AIR
LCPD REPORTING- Continuous measurement systems invalidations log

Operational

Operator: E.ON UK PLC

Location: Connah's Quay Power Station

Permit/Variation number:

Release Point: A2

Emissions to Air – Invalidation Log

Date	Period of invalidation (hours)	Cumulative invalidated days in year	Comments
31/3/2013	0	0	N/A
30/6/2013	1	0	Impinger Tube Change
30/9/2013	0	0	N/A

Signed.....

Date.....



RELEASES TO AIR
LCPD REPORTING- Continuous measurement systems invalidations log

Operational

Operator: E.ON UK PLC

Location: Connah's Quay Power Station

Permit/Variation number:

Release Point: A3

Emissions to Air – Invalidation Log

Date	Period of invalidation (hours)	Cumulative invalidated days in year	Comments
31/3/2013	0	0	N/A
30/6/2013	0	0	N/A
30/9/2013	0	0	N/A

Signed.....

Date.....

Reporting of emissions to air for the period from 01/07/2013 to 30/09/2013**RECEIVED**

27 OCT 2013

Operator: E.ON UK

Site Location: Connaught Quay

Permit/Variation Number: MP3337SH

Release Points: A11, A12

Release Point	Substance / Parameter	ELV (mg/m3)	Reference Period	Result (mg/m3)
A11	Oxides of Nitrogen (NO and NO2 expressed as NO2)	95	10 min average	69.64
A12	Oxides of Nitrogen (NO and NO2 expressed as NO2)	95	10 min average	73*
A11	Carbon Monoxide	10	10 min average	10.2
A12	Carbon Monoxide	100	10 min average	77.7*
A11	Sulphur dioxide	9950	10 min average	90.9

*External monitoring completed by E.ON Engineering on 21st June 2012
2013 monitoring visit scheduled for October 28th 2013.

Signed on behalf of the Operator

Form Ref: Air - 1 / Connaught Quay PS (01/12/06)

RECEIVED

27 OCT 2013

Releases to Air - LCPD/PPC Continuous Measurement**Operational Summary for the 3 months to 30/09/2013**

Operator: E.ON UK

Site Location: Connah's Quay

Release Points: A1, A2, A3, A4

Permit/Variation Number: MP3337SH

Release Point	Pollutant	Month	ELV (mg/m3)	Max Daily Average	Calendar Monthly Mean	95% of validated hourly means
A1	NOx	Jul	75	35.3	28.49	32.2
A1	CO	Jul	30	1.65	1.34	1.5
A1	NOx	Aug	75	34.03	29.44	27.2
A1	CO	Aug	30	1.83	1.48	1.8
A1	NOx	Sep	75	37.43	32.19	40.7
A1	CO	Sep	30	1.55	1.43	1.6
A1	NOx	Annual	75			Due at end of year
A1	CO	Annual	30			Due at end of year
A2	NOx	Jul	75	57.1	52.91	54.2
A2	CO	Jul	30	1.47	1.33	1.3
A2	NOx	Aug	75	-	-	-
A2	CO	Aug	30	-	-	-
A2	NOx	Sep	75	-	-	-
A2	CO	Sep	30	-	-	-
A2	NOx	Annual	75			Due at end of year
A2	CO	Annual	30			Due at end of year
A3	NOx	Jul	75	23.13	20.57	19.6
A3	CO	Jul	30	1.36	1.12	1.5
A3	NOx	Aug	75	-	-	-
A3	CO	Aug	30	-	-	-
A3	NOx	Sep	75	27.4	21.58	26.9
A3	CO	Sep	30	1.47	1.31	1.5
A3	NOx	Annual	75			Due at end of year
A3	CO	Annual	30			Due at end of year
A4	NOx	Jul	75	-	-	-
A4	CO	Jul	30	-	-	-
A4	NOx	Aug	75	-	-	-
A4	CO	Aug	30	-	-	-
A4	NOx	Sep	75	24.77	19.55	-
A4	CO	Sep	30	2.24	1.59	-
A4	NOx	Annual	75			Due at end of year
A4	CO	Annual	30			Due at end of year

Notes - 1 Compliance with LCPD articles 4.1, 4.3 require measurement results for:Nitrogen oxides (as NO₂) to demonstrate that:

- i) none of the validated daily averages exceeds the ELV
- ii) 95% of all validated hourly averages do not exceed 150% of the ELV

Signed.....
 (Authorised to sign as a representative of operator)

Date.....

Air - 2 LCPD Continuous (01/12/06)

Permit Number : MP3337SH

Operator : E.ON

Installation : Connahs Quay Power Station

Form Number : Water1/ConnahsQuay PS (29/09/08)

Reporting of emissions to water (other than to sewer) for the period :

01/07/2013 To 30/09/2013



Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result	Test Method	Sample Date and Times	Uncertainty
W1	Flow	2.5 m³/s	Instantaneous	2.28	Analyser	Continuous	✓
W1	Temperature	25 C		25.0	Analyser	Continuous	✓
W1	Temperature Difference April - October	13 C		6.4	Analyser	Continuous	✓
W1	Temperature Difference November - March 95 percentile Maximum	13 C 20C		N/A	Analyser	Continuous	N/A
W1	Salinity	60 g/l		58.9	Analyser	Continuous	✓
W1	pH Minimum	9	Instantaneous	8.2	Analyser	Continuous	✓
W1	pH Minimum	6		6.8	Analyser	Continuous	✓
W1	Total Residual Oxidant (TRO) [5]	0.2 mg/l		N/A	Analyser	Continuous	N/A
W1	Residual Chlorine Dioxide [6]			0.002293	Analyser	Continuous	✓
W1	Residual Chlorite Ion [6]	10 mg/l (absolute limit)		0.074043	Analyser	Continuous	✓
W1	Residual Chlorite Ion [6]	5 mg/l	Average	0.052253	Analyser	Continuous	✓
W1	Oil and Grease	20 mg/l	Instantaneous	8.2	Analyser	Continuous	✓

Not doing

ATL

Signed

(Authorised to sign as representative of Operator)

Date

Installation : Connahs Quay Power Station

Form Number : Water1 / ConnahsQuay PS (29/09/08)

Reporting of emissions to water (other than to sewer) for the period :

01/07/2013 To 30/09/2013

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result	Test Method	Sample Date and Times	Uncertainty
W2	pH Maximum	9	Instantaneous	8.98	Analyser		✓
W2	pH Minimum	6	Instantaneous	6.6	Analyser		✓
W2	Oil and Grease	20 mg/l	Instantaneous	0	Analyser		✓
W2	Residual Chlorine Dioxide [6]		Instantaneous	0.01302	Analyser		✓

Signed

(Authorised to sign as representative of Operator)

Date