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01 AUG 2013



**Connah's Quay Power Station
Environmental Reporting Form to EA
PART A**

Permit Number	EA/EPR/MP3337SH
Name of Operator	E.ON UK
Location of Installation	Connah's Quay Power Station Kelsterton Road Connah's Quay Deeside CH5 4BP
Time and date of the detection	31 st July 2013

(a) Notification requirements for any malfunction , breakdown or failure of equipment or techniques, accident or fugitive emission which has caused , is causing or may cause significant pollution

To be notified within 24 hours of detection

Date and time of Incident	19.30 31 st July 2013
Reference or description of the location of the event	Table S4.1b of EPR/MP3337SH defines an emission limit of 10 mg/m ³ for emission point A11 (Thermal Oxidiser) across a ten minute averaging period. For one, single ten minute averaging period (at 19.20pm), emissions rose to 10.20 mg/m ³ before returning to 8.58 mg/m ³ (below the 10mg/m ³ limit) by 19.30 pm
Description of where any release into the environment took place	Exceedance of emission limit for concentration of Carbon Monoxide within emissions to air from emission point A11. Exceedance only occurred for one ten minute average of entire working day
Substance(s) potentially released	Carbon Monoxide
Best estimate of the quantity or rate of release of substance	N/A
Measures taken, or intended to be taken, to stop any emission	Thorough investigation will occur, and strict scrutiny will be carried out to observe procedures during gas treatment plant operation. Possible unexpected occurrence due to higher than expected atmospheric temperatures.
Description of the failure of the accident	Increased temperature of off gas entering thermal oxidiser has appeared to result in slight increase in emissions in excess of 10 mg/m ³ . Exceedance only occurred once, at 10.20 mg/m ³ for one ten minute average of the entire working day.

(b) Notification requirements for the breach of a limit

To be notified within 24 hours of detection unless otherwise specified below

Emission point reference/source	A11
Parameter(s)	Carbon Monoxide
Limit	10 mg/m ³
Measured value and uncertainty	N/A
Date and time of monitoring	19.20pm - 19.30pm 31 st July 2013 to 7pm 5 th Feb
Measures taken or intended to be taken to stop the emission	Instantaneous amendment to offgas flow brought emissions back within regulatory limits. No further exceedance followed.

	INITIALS	DATE
OK FOR PUBLIC REGISTER	87	31/10/13
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(c) Notification requirements for the detection of any significant adverse effect	
To be notified within 24 hours	
Description of where the effect on the environment was detected	A11
Substance(s) detected	Carbon Monoxide
Concentration(s) of substance(s) detected	N/A
Date of monitoring /sampling	N/A

Name*	Andy Black
Post	Environmental Advisor
Signature	A. Black
Date	01/08/2013

*authorised to sign on behalf of E.ON UK plc

DATE	SIGNATURE	OK FOR PUBLIC RELEASE
		CONFIDENTIAL

From: [Ross, Stuart](#)
To: [Bradford, Julie](#)
Subject: FW: Part A : A11 Thermal Oxidiser exceedance
Date: 02 August 2013 09:32:02
Attachments: [PtAThermalOX31_07_2013.doc](#)

From: Black, Andrew <Andy.Black@eon-uk.com>
Sent: 01 August 2013 17:03
To: Ross, Stuart
Cc: Plass, Jason; Balmer, Simon; McIntyre, John
Subject: Part A : A11 Thermal Oxidiser exceedance

Stuart.

As previously discussed on the telephone, we slightly exceeded one ten minute average emission from the Thermal Oxidiser on our Gas Treatment Plant (emission point A11).

In further explanation, as you are aware E.ON have a Gas Treatment Plant at Connahs Quay, utilised to treat uncombusted BHP supplied gas to meet the quality standards required for distribution into the Transco network.

Primarily this involves the removal of Nitrogen from the BHP sour gas, reducing it from a concentration 10% to the 4% levels required from Transco. Nitrogen removal is effected via a number of temperature changes to heat and cool the gas, ultimately resulting in a predominantly Nitrogen waste gas (entitled 'off gas') separating from the treated sour gas via the molecular sieves. The off gas separates at very low temperature, and includes some methane due to the separation process.

Therefore the offgas is sent for combustion via the Thermal Oxidiser to convert any Methane to Carbon Dioxide / Carbon Monoxide and reduce potential greenhouse gas impact.

On the occasion of the incident, the offgas separated at a slightly warmer temperature than normal -182.3 deg c at 19:18 hours on 31st July 2013. Efforts were made to reduce the offgas temperature via the addition of liquid methane into the offgas flow.

The following time log account therefore occurred :

19:27 hrs – Alarm highlights instantaneous emission limit of 10.093 mg/Nm3 recorded (NB : this was not a ten min average exceedance).

19:30 hrs – peak Carbon Monoxide concentration of 10.25 mg/Nm3 recorded.

19:34 hrs – Carbon Monoxide production level drops to 9.9843 mg/Nm3

Due to this an average of 10.20 mg/Nm3 was recorded for the one ten minute average period between 19.20 and 19.30 hours upon 31st July 2013, this exceeds the 10mg/Nm3 emission limit detailed within the permit for emission point A11.

All ten minute average recordings following this have been within the emission limit.

As a result of this, please find enclosed a relevant Part A form for this episode. A completed Part B will follow in due course.

Please do not hesitate to contact myself should you have any further queries.

Kind Regards

Andy

Andy Black

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