



Tuesday 18th January 2022

Permitting Service,
Natural Resources Wales,
Cambria House,
29 Newport Road,
Cardiff
CF24 0TP

Ref: Operator's Report on NRW Permit No.EPR/BB3097ZS for 2021

Dear Sir/Madam,

Please find below our report on the performance of the activities over the previous year.

- 1) The results of the monitoring and assessment, carried out in accordance with the permit, indicate emissions values in line with our expectations for this facility, and in line with what we have witnessed in previous years, with emissions values well within the advised scope of the MCPD. There was a slight increase in O2 levels for boiler No.1 towards year end and this will be addressed by a planned service visit during January 2022. We do not anticipate any decline in this performance in the future, due to our structured planned maintenance system and a stable operating condition.
- 2) We are unable to report the results of the annual steam generation for the site due to a failure on our client's steam meter for Boiler no.1 during June 2021, which remains unresolved at the time of writing. As a result of this failure, we are unable to report on the gross thermal efficiency of the plant.

Gas consumption for the period of 6,813,147m³ represents a decrease of 3.17% over the previous year, however, see 'Energy Usage' note (below) regarding additional fuel consumption by mobile plant.

The recorded feedwater meter readings (combined for all 3 boilers) of 105,037m³ also represents a decrease of 4.15% over the previous year, however, see 'Water Usage' note (below) regarding water usage by mobile plant.

- 3) For the period 27/07/21 through 08/12/2021, due to the failure of the control system on site boiler No.2 and extensive maintenance shutdowns on both site boiler No.1 and site boiler No.3 consecutively, a mobile steam raising boiler was utilised to supplement the site demand.

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- 4) The performance parameters as set out in Schedule 4, Table 4.3 are discussed below. The report as per Schedule 4 Table 4.4 is attached as a separate document;

Water Usage - It is not possible to determine the exact raw water usage of the boiler plant due to the mechanism by which our client supplies the boilerhouse; i.e., that our client supplies us with softened water via a condensate return vessel, the make up of which we have no control over. We utilise two supplies in addition to the above, for emergency filling of the hotwell when our client is unable to supply us with sufficient water through the usual process. These are described as "Grade 1" and "Grade 3" and so the quantities of 28m³ and 1345m³ respectively do not represent the actual raw water usage in the production of steam.

With regards to the mobile plant utilised as described in para. (3) above, there were no metered connections to the unit and so we are unable to give specific consumption data relating to this item.

Energy Usage - In 2021 we consumed 74,188MWh of Natural Gas. As per para. (2) above, no efficiency is reported due to the client's steam meter failure. In addition, 238,084 litres of BS2869 Class A2 gasoil were consumed during the operation of the mobile boiler plant identified in para. (3) above which represents an additional energy consumption of 2,602MWh (Total 76,790MWh).

A handwritten signature in black ink, appearing to be "Jonathan Barwick", written over a horizontal line.

Jonathan Barwick
Contracts Manager

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