

30<sup>th</sup> January 2023

Mrs E A Parr  
PPC Compliance Assistant  
Natural Resources Wales  
Rivers House  
St Mellons Business Park  
St Mellons  
CARDIFF  
CF3 0EY

Our Ref: W:\Environmental\NPPC\Environment Agency Reporting\Permit Reporting\Rod and Bar Mill\1. Returns\NRW\3. Annual\2022\RBM Returns

Dear Mrs Parr,

**RE: Rod and Bar Mill EPR Permit BV0759IC 4.1.5 Annual Returns 2022**

In accordance with CELSA Manufacturing UK Ltd Environmental Permitting Regulations (EPR) Rod and Bar Mill Permit BV0759IC, permit condition 4.1.5 requires the following:

*4.1.5 Where the Operator has a formal environmental management system applying to the Permitted Installation which encompasses annual improvement targets the Operator shall, not later than 31 January in each year, provide a summary report of the previous year's progress against such targets.*

The following information summarises the CELSA EMS Objectives and Targets for 2022.

**1.0 Consume no greater than 365.19 kWh/tonne of gas per month**

The average monthly process gas consumption in 2022 totalled to 394kWh/tonne.

Reducing CELSA's gas consumption has been met with several challenges this year. Hot charging is where billet production at the Melt Shop is synchronised with the rolling mill processes. The hot billet is transported directly after production to reduce the amount of natural gas required by the furnace to bring it back up to rolling temperature, as it is not allowed to cool. Due to disruption of the Melt Shop production process, hot charging was not utilised for periods of 2022, which made gas usage less efficient. In addition to this, performance of the gas recuperator deteriorated significantly. This resulted in reduced furnace efficiency as waste heat could not be utilised.

Gas use is tracked on a daily basis, and optimising its use is a key KPI for all RBM employees.

## **2.0 Consume no great than 99.4 kWh/t electricity per month**

The RBM consumed on average 105.69kWh/tonne of process electricity per month during 2022.

CELSA's electricity consumption target was met with some challenges during 2022 including frequent stops due to periods of high-energy prices. This reduced energy efficiency due to equipment running for shorter periods of time and being shut off during longer stops.

Electricity is tracked on a daily basis and optimising its use is a key KPI for all RBM employees.

## **3.0 Consume no more than 0.48 litres/tonne of oil per month**

The RBM consumed on average 0.44 litres of oil per tonne of finished product and successfully met the set target. An improvement in oil consumption is primarily a result of the maintenance and improvements made on 'A-System'. This included maintenance work and a renewal of fixed pipe work in the intermediate mill to stainless steel, as well as elevating the structures above floor level on rolling stands 11-16.

Oil consumption is tracked daily, and optimising its use is a key KPI for all RBM employees.

Should you require any further information regarding permit condition 4.1.5 and the above please do not hesitate to contact me.

Yours sincerely,



**Abbie Jones**  
**Environmental Graduate**