

1st August 2017

Dr Gareth Richards
Pollution and Prevention Control Team
Natural Resources Wales
Rivers House
St Mellons Business Park
St Mellons
CARDIFF
CF3 0EY

Dear Gareth,

RE: Tremorfa Melt Shop Environmental Permit TP3639BH Formal Notification of Proposed Changes

In accordance with CELSA Manufacturing UK Ltd Tremorfa Melt Shop Environmental Permit (EPR) TP3639BH, please find below our formal notification of the proposed process changes for the use of a mobile jaw crusher in the Mineral Site at the Tremorfa Works, for slag.

1.0 Introduction

CELSA Manufacturing UK Ltd is regulated under section 12 of the Environmental Permitting Regulations 2010 (as amended) to operate an installation which carries out activities as defined within section 2.1 A(1)(b) '*Producing, melting or refining iron or steel or any ferrous alloy, including continuous casting*'. As such the company is permitted in accordance to the terms and conditions of EPR Permit TP3639BH.

Section 2.3.6 of EPR TP3639BH states:

"The operator shall obtain written agreement from Natural Resources Wales prior to any period of use of the mobile crushing and screening plant."

2.0 Proposed Changes

2.1 Slag Crushing

2.1.1 General

CELSA intend to use a mobile plant to enable further processing of the slag which is currently stored at the site, from the week commencing the 7th August and should not take more than 7 days to process. This process change forms part of an ongoing investment programme into the installation and its processes, to improve customer satisfaction relating to specific slag sizes. The proposed equipment will be located at the Mineral Site as detailed in *Appendix 1*.

The proposed equipment will be used to process 5,000 tonnes of oversize slag for a specific customer and should not take more than 7 days to process.

2.1.2 Scale Crushing Process Description

The proposed mobile slag crusher will be located at the Mineral Site as detailed in *Appendix 1*.

The mobile plant equipment to be used is as follows:

- Keestrack Giove

The Keestrack Giove jaw crusher is designed to provide a non-stop system to ensure continuous crushing, also using heavy duty quality water absorbing filters and dust suppression system. The jaw crusher has a feed size up to 650mm, independent double deck vibrating pre-screen 2.3000 x 1.000mm and a capacity of up to 420 tonnes/hour.

The technical specification of the Keestrack Giove is attached in *Appendix 2*.

3.0 Environmental Impact

CELSA have assessed the environmental impacts in accordance with the requirements of EP TP3639BH, and these are listed below.

3.1 Raw Materials

Diesel oil and Engine oil will be used by the Keestrack Giove. Double skinned tanks are fitted to the vehicle to prevent any losses from the plant machinery. Spill kits will be in place in the event of a spillage. The diesel oil will be supplied by CELSA's service contractors, Harsco, under normal site operating procedures.

3.2 Water Use

There will be no additional water used during this process.

3.2 Emissions to Water

No emissions to water will be produced by the proposed mobile plant equipment.

3.3 Emissions to Air

No particulate matter or dust emissions to air are anticipated, due to the slag jaw crusher being fitted with a dust suppression system.

3.4 Odour

The slag crushing operations undertaken are not deemed odorous.

3.5 Waste

No additional waste will be produced from the slag crushing activity. All crushed oversize slag will be sent to the respective customer.

3.6 Energy

The main uses of energy at the installation will not change as the Keestrack Giove will be provided by diesel fuel.

3.7 Noise and Vibration

It must be noted that the machinery will be sited within the Mineral Site and only in operation between 6:00am and 6:00pm, meaning that no additional noise is anticipated on top of the machinery and slag screening noise. Therefore, CELSA do not anticipate that the operational activity of the slag crushing will give rise to complaints.

CELSA do not anticipate that the slag crushing will give rise to any vibration source.

In summary CELSA do not anticipate that the slag crushing will cause any additional environmental impact from the site operations.

4.0 Timescales

CELSA intend to operate the proposed plant equipment to crush 5,000 tonnes of oversize slag for a specific customer.

5.0 Conclusions

The proposed equipment will be used to process 5,000 tonnes of oversize slag for a specific customer, ensure full customer satisfaction.

In summary CELSA do not anticipate that the slag crushing activity will cause any additional environmental impact from the site operations.

We hope that the above text provides enough information for your needs. As detailed above, due to the fact that the environmental impact is minimal we believe that these process changes are small enough to warrant a formal notification rather than a 'variation' to our process as essentially all of the process operations and authorised release points will remain unchanged.

Should you require any further information regarding these works please do not hesitate to contact me.

Yours sincerely



Sioned Hatcher
Environment Advisor

APPENDIX 1: TP3639BH SITE BOUNDARY



Scrap screening location



APPENDIX 2: KEESTRACK GIOVE INFORMATION BROCHURE

B5



- Feed size up to 650 mm (26")
- Independent double deck vibrating pre-screen 2.300 x 1.000 mm (8' x 3')
- Feed opening 1.100 x 800 mm (43" x 31")
- C.S.S min. - max. 70 - 175 mm (3"-7")
- Capacity up to 420 tonnes / hour
- Heavy duty quarry machine
- Intake hopper 5 m³
- Smart sequential auto start/stop from remote
- Ability to track while producing
- Hydraulic gap adjustment to safely prevent clogging



Applications

- Granite, Basalt and most medium and hard stone
- Concrete and landfill recycling
- Primary crushing
- Construction waste
- Demolition
- Quarrying and mining
- Gravel
- Coal, slag and others

	Transport Dimensions	Working Dimensions
Weight	50,7 t (55 sT)	
Length	15.131 mm (49'8")	16.730 mm (54'10")
Height	3.500 mm (11'6")	4.270 mm (14')
Width	3.000 mm (9'10")	5.800 mm (19')