

Schedule 5 - Notification These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	TP3639BH
Name of operator	CELSA Manufacturing (UK) Ltd
Location of Facility	Seawall Road, Tremorfa, Cardiff CF24 5TH
Time and date of the detection	22/09/2024 at 10:00, 25/09/2024 at 10:00, 08/10/2024 at 10:00, 13/10/2024 at 10:00 & 15/10/2024 at 10:00.

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission /	
Description of the failure or accident.	

(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	A1 Meltshop Furnace Stack
Parameter(s)	Particulates
Limit	Daily average should not exceed 5.0mg/m³, excluding non-operational hours.
Measured value and uncertainty	21/09/2024 daily average: 5.25mg/m³, 24/09/2024 daily average: 5.40mg/m³, 07/10/2024 daily average: 5.30mg/m³, 12/10/2024 daily average: 5.00mg/m³ & 14/10/2024 daily average: 5.53mg/m³.
Date and Time of Monitoring	21/09/2024, 24/09/2024, 07/10/2024, 12/10/2024 & 14/10/2024.
Measures taken, or intended to be taken, to stop the emission	An investigation is ongoing into the elevated reading that resulted in a breach.

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period
(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B - to be submitted as soon as practicable

<p>Any more accurate information on the matters for notification under Part A.</p>	<p>Cause of Breach:</p> <p>The breach of the particulate limit was due to a lapse in the maintenance schedule for the dedusting system in the Electric Arc Furnace (EAF) at CELSA. Mechanical stress and high-pressure conditions in the system mean the dust bags are subject to wear and require consistent inspection. However, due to a recent change in contractor, the inspection procedures were altered, leading to inadequate routine checks of the 7,000 dust bags across 20 cabinets in the baghouse. This contributed to undetected damage and compromised the dust bags' effectiveness.</p>
<p>Measures taken, or intended to be taken, to prevent a recurrence of the incident</p>	<p>Revised Maintenance Schedule:</p> <p>A comprehensive maintenance schedule has been implemented to ensure all dust bags are inspected regularly and thoroughly. This includes using the installed probes within each cabinet to monitor dust levels, helping to detect any issues early.</p> <p>Enhanced Inspection Procedures:</p> <p>A more detailed inspection protocol has been introduced to ensure each cabinet is checked systematically. This protocol includes checks to identify elevated dust levels in specific cabinets, allowing for targeted flushing or repairs as needed.</p> <p>Repairs and Replacements:</p> <p>Identified areas with missing or broken pipework within specific cabinets have been repaired to restore full functionality.</p>
<p>Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission</p>	<p>Immediate Repairs:</p> <p>Repairs have been made to cabinets showing signs of malfunction, such as missing or broken pipework. This measure is intended to reduce dust emissions immediately.</p> <p>Real-Time Monitoring and Flushing System:</p> <p>We are using the online monitoring system to continuously track dust levels across cabinets. If elevated dust levels are detected, affected cabinets are flushed out to minimize any release into the environment.</p> <p>Contractor Re-Training:</p> <p>Contractors responsible for maintenance have been re-trained in the revised inspection and maintenance protocols to prevent future oversights.</p>

The dates of any unauthorised emissions from the facility in the preceding 24 months.	15/07/2023, 07/03/2023, 04/08/2023, 24/10/2023 13/11/2023, 20/11/2023, 25/11/2023, 29/11/2023, 13/12/2023, 21/12/2023, 01/01/2024, 17/01/2024, 31/05/2024, 01/06/2024, 12/07/2024, 21/09/2024, 24/09/2024, 07/10/2024, 12/10/2024.
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Name*	[REDACTED]
Post	Environmental Advisor
Signature	[REDACTED]
Date	15/11/2024

* authorised to sign on behalf of CELSA Manufacturing UK Limited