

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	EPR/BS6149IQ
Name of operator	Rockwool Limited
Location of Facility	Wern Tarw, Pencoed, Bridgend, CF35 6NY
Time and date of the detection	4 th June 2023
Rockwool Ref Number	10/23

(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	
Substance(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	A19
Parameter(s)	Carbon Monoxide
Limit	50 mg/Nm ³
Measured value and uncertainty	86.3 mg/Nm ³
Date and time of monitoring	4 th June 2023, 24 hour average
Measures taken, or intended to be taken, to stop the emission	A large CO spike occurred at 14:30pm following a tap out of the Cupola due to high pressure. A second CO spike occurred at 16:30pm following a filter bypass event linked again due to high pressure in the Cupola. CO then reduced slowly through the shift and was back within permit limits at 19:30pm. Unfortunately, the two large spikes resulted in the 24 hour average exceeding the 50mg/Nm³ limit. The scheduled line down day for this Thursday has been moved forward to Tuesday 6th June and extended to 48 hours to allow an inspection of the fly ash bags and combustion system.

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

Any more accurate information on the matters for notification under Part A.	CO readings settled back within limits after the event but a planned shutdown was brought forward so that the fly ash bags could be inspected as a possible cause of the high CO readings. During Easter the combustion system was inspected by Process and no issues were identified. Fly ash bags are usually replaced on 2 yearly basis and the bags were within this timeframe as they were next due to be changed during the August shutdown. However, a failure of the fly ash bags occurred sometime after the Easter shutdown. The failure has been linked to a problem with the heating of the fly ash filter. Lack of heating would lead to condensation in the system and this would compromise the filter bags. This was not initially detected as the heating system does not alarm on the control room WinCC. The compromised filter bags led to fly ash building up in the combustion system. This blocked a pressure sensor in the combustion chamber leading to a delay in detecting the breakthrough. The blocked pressure sensor did not show the correct negative pressure and it controls the exhaust gas fan. The exhaust gas fan worked harder as a result and the exhaust gases moved through the combustion system faster than usual leading to less time to burn off the CO. The issue was identified once the CO readings spiked on the CEMS.
Measures taken, or intended to be taken, to prevent a recurrence of the incident	The line was stopped earlier than planned to allow the compromised fly ash filter bags to be replaced. The combustion system was thoroughly cleaned. The next full inspection and replacement of fly ash bags is due in the August shutdown. Maintenance team are to install a heating system alarm on WinCC to prevent a recurrence.

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		
The dates of any unauthorised emissions from the facility in the preceding 24 months.		
Name*	Samuel Brookes	
Post	Environmental Manager	
Date	05/06/2023 (Part A) 04/08/2023 (Part B)	

* authorised to sign on behalf of Rockwool Limited