

21st January 2022

Mr I Oakes/Mr S Ross
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

Dear Mr Oakes

PART B REPORT (SCHEDULE 1) – PPC PERMIT NUMBER BU 2357

Please find enclosed the information provided as a Part B report for the following Part A notification:-

Part A ref. N°. 16/01/2022 - A

Yours sincerely
FOR WARWICK INTERNATIONAL GROUP LIMITED



MR PETER BRYANT
HEALTH SAFETY & ENVIRONMENT MANAGER

TITLE :	Part 'B' Report Form			ISSUE NO.	15.0
REF :	RCF20	AREA:	SITE	DATE OF ISSUE:	08.05.13
RELATED DOCUMENT:	WI 903 App C			PAGE:	2 of 2
FILENAME:	Part B Form 16th January 2022 Luwa lagging fire			Last printed 21/01/2022 12:57:00	



Part B Notification (schedule 1) in accordance with condition 5 (5.1.1 and 5.1.2) of PPC Permit BU 2357.

REFERENCES

Part A form, Ref. N°. 16/01/2022 - A

Further, more accurate information on the matters for notification under Part A.

At 14.25hrs on the 16th January 2022 inspections were being carried out on the mechanical seal for the Luwa 2 rotor. The shift maintenance fitter was approaching the plant and noticed flame around the middle section of the Luwa column. He radioed the Shift Plant Manager and informed him of what he had seen and activated the break glass emergency call point on the Plant. As the site emergency alarm had activated the on-site emergency response team mustered and prepared to tackle the fire. A hose was initially used to knock down the flames and this was followed up by setting up a ground monitor to assist with knocking the flames down and cooling the cladding.

The on-site emergency plan had been initiated by the Shift Plant Manager and the external Brigade had been called in. No COMAH emergency code words were used when calling the external Brigade but there is a pre-determined attendance of six fire engines. Three of these engines were cancelled whilst they were on route to site.

The fire had been extinguished about five minutes after the on-site emergency team had attended the scene and before the first Brigade engine had arrived and sections of the external cladding had been removed to check for any smouldering lagging. The external Brigade crew assisted with checking the area with a thermal camera to see if there were any residual hot spots that might reignite. The area was declared to be clear, and all fire teams stood down. There were no injuries to any of the employees or the attending external Brigade. There had been no loss of primary containment of any of the material being processed on the Luwa Plant.

The fire was a result of oil from the mechanical seal getting under the cladding and into the lagging on the steam heated column. The flash point of the oil is 140°C with the column heated to about 145°C to 150°C. It is possible that the oil may have undergone some thermal decomposition which lowered the flash point.

Measures taken (or intended to be taken) to prevent a recurrence of the incident.

The information relating to the rotor stub-shaft and the failed mechanical seal has been discussed with the members of the Engineering Department and used as a learning exercise. The method of repairing and/or checking the mechanical seal will now include referencing the O&M manual for this equipment. The cladding on the column is going to be repositioned and all the joints sealed with a flexible sealer.

In the longer term, once the AED Recycle Plant is operational, the Luwa 2 Plant will be shut down and decommissioned. The other wiped film evaporators on site have been checked for sealed cladding and the integrity of the mechanical seals. No issues were identified.

Measures taken (or intended to be taken) to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the emission.

It is thought that there was no measurable environmental impact as a result of this incident/emission.

Dates of unauthorised emissions from the installation in the previous 24 months.

01/01/2020, 02/01/2020, 08/01/2020, 01/02/2020, 03/02/2020, 18/02/2020, 30/04/2020, 12/05/2020, 12/06/2020, 11/08/2020, 20/09/2020, 06/11/2020, 30/11/2020, 12/01/2021, 24/03/2021, 23/04/2021, 28/05/2021, 16/01/2022.