

18th June 2020

Mr I Oakes
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°. 12/05/2020 - A

Yours sincerely
FOR WARWICK INTERNATIONAL GROUP LIMITED



MR PETER BRYANT
HEALTH SAFETY, ENVIRONMENT & SECURITY 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 3
FILENAME:	Part B Form 12th May 2020 CO hot oil A21			Last printed 18/06/2020 16:35:00	



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°. 12/05/2020 - A

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

Q2 2020 scheduled monitoring was being carried out by our service provider on the 12th May 2020. As part of the schedule for this visit the heater units in the hot oil building were included in the monitoring. All the hot oil burners were tested on the day with burner unit DPE 29 showing a breach of the carbon monoxide emissions:

MONITORING RESULTS

Warwick Chemicals Ltd, Holywell
DPE 29 Oil Heater
12th May 2020

where MU = Measurement Uncertainty associated with the Result

Parameter	Units	Concentration			
		Result	MU +/-	Limit	
Oxides of Nitrogen (as NO ₂)	¹ mg/m ³	133	13.3	170	
Carbon Monoxide	¹ mg/m ³	184	18.4	70	
Carbon Dioxide	% v/v	Dry 10.4	0.35		
Oxygen	% v/v	Dry 2.5	0.24		
Water Vapour	% v/v	19.6	0.81		

¹ Reference Conditions (REF) are: 273K, 101.3kPa, dry gas, 3% oxygen.

The emissions from both of the other hot oil burner units were found to be within the consented limits.

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

When the report was received, and the emission result identified the boiler technician was contacted to rectify the problem. The unit was checked, and faults were identified – see extract from report below ...

Job Notes

Issues with e29 unit. Failed CO limits.
Carried out testing. Found CO at all outputs between 145 and 198ppm.
Other readings of 10.5% O₂ which results in flame chill factor causing CO to be over limit.
Carried out tests in range and all found to high O₂ causing the reading above normal for CO.
Found link arm bent to main air and this increased air through range. Removed and corrected. Gas pressure check and Main regulator checked, this was correct.
Also found control on main auto controller PID loop poor.
All reset.
Readings now from min fire rate 6.9%O₂ 12 ppm CO to max fire rate of 3.8%O₂ CO 14ppm.
Left in auto and all set.
Will check all 3 units next visit

The unit was repaired and emissions re-tested, see results below ...

