

PERMIT NUMBER JP3632ZH
DOW SILICONES UK LTD
SCHEDULE 5 INCIDENT NOTIFICATION

To:	Process Industry Inspector
FAO: Mr Geraint Thomas	Natural Resources Wales Rivers House St Mellons Business Park Fortran Road St Mellons Cardiff CF3 0EY
Phone	03000 65 3000
Email	icc@cyfoethnaturiolcymru.gov.uk
From:	
Name Of Operator	Dow Silicones UK Ltd
Location of Process:	Cardiff Road, Barry, Vale of Glamorgan
FAX No:	
Telephone No:	+44 1446 723960
Email	
Date Information Provided:	16 th August 2023

Part A

Permit Number	EPR/JP3632ZH
Name of Operator	Dow Silicones UK Ltd
Location of Facility	Barry, South Glamorgan, Wales
Time and Date of Detection	28 th July 2023

a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
To be notified immediately	
Date and time of 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 quantities or rate of release	
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 permit condition	
To be notified immediately	
Emission point reference source	A1 and A2
Parameter(s)	NOx / CO
Limit	A1 NOx Max daily mean 110 mg/m ³ (GT not operating) A1 NOx Monthly mean 100 mg/m ³ (GT not operating) A2 CO Max daily mean 110 mg/m ³
Measured value and uncertainty	A1 NOx Max daily mean 156.82 mg/m ³ A1 NOx Monthly mean 103.16 mg/m ³ A2 CO Max daily mean 115.8 mg/m ³
Date and time of monitoring	Monthly/daily measured averages – calculated using CEMS (Continuous Emission Monitoring Systems) A1 NOx Max daily mean - 30 th May 2023 A1 NOx Monthly mean - May 2023 A2 CO Max daily mean - 23 rd June 2023
Measures taken, or intended to be taken, to stop the emission	Unit A (A1) – we have been unable able to run the GT on the Unit due to various maintenance and reliability issues. The GT contains the NOx abatement functionality, so without it we are

	unable to reduce the NOx. Getting this GT operational remains a key focus for the site. Unit FB (A2) the spike of CO was during a period where the unit was running very hard. The steam flowrate was reduced and the CO returned to normal levels.
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Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

c) In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment: To be notified immediately	
Description of where the effect on the environment was detected	
Substance(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B- to be submitted as soon as practicable

Any more information on the matters for notification under Part A	
Measure taken, or intended to be taken, to prevent a recurrence of the incident	Unit A (A1) –On 30th May the boiler was only operational in the reporting range for 4.05 hours, as the steam flow had been increased and decreased due to operational issues with one of the other units. When the unit is not settled the NOx and CO levels can fluctuate. This is what caused this specific peak. Unit A will continue to be operated minimally until the GT is operational. Unit FB (A2) The boiler was tuned to optimise for low NOx, but the CO increases when making high flows of steam. We plan to bring the boiler experts back in to work on further tuning to optimise for both NOx and CO to ensure we can generate high steam flow when required and be within permit for both NOx and CO. We were unable to fully carry this out during commissioning due to the production pressure to generate steam with other boilers out for statutory inspection. Until the tuning has been completed we can keep the CO within the permit limit by not operating at high steam flows.
Measure 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	
Post	Environmental Specialist
Signature	
Date	16 th August 2023