

PERMIT NUMBER BR9685IX

DOW CORNING LTD

SCHEDULE 5 INCIDENT NOTIFICATION

To:	Process Industry Inspector
FAO: Mr Tony Leakey	Natural Resources Wales Rivers House St Mellons Business Park Fortran Road St Mellons Cardiff CF3 0EY
Phone	03000 65 3000
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From:	Judith Sartor
Name Of Operator	Dow Silicones UK Ltd
Location of Process:	Cardiff Road, Barry, Vale of Glamorgan
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Date Information Provided:	27 th April 2021

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	June 30 th 2020 – April 27 th 2021

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	A2
Parameter(s)	NOx
Limit	100 mg/m³
Measured value and uncertainty	214 mg/m3 average 1st July 2020 – 31st March 2021
Date and time of monitoring	Monthly measured averages – calculated using CEMS (Continuous Emission Monitoring Systems)
Measures taken, or intended to be taken, to stop the emission	The High Pressure (Fired) boiler at the Combined Heat and Power (CHP) plant on the Barry site along with 2 Gas Turbines (GT's) required upgrading to meet new permit limits in a new permit issued on 30th June 2021. In May 2020 discussions were held with NRW as upgrades to the GT's were delayed due to Covid. This resulted in the second GT not being upgraded until November 2020. Emissions from the GTs have complied with the new permit limits since June 30th 2020. The knock on impact of GT delays meant that the HP boiler was

required to operate during the second GT upgrade. Operation during other periods was minimised as far as practically possible. The following agreement was made with NRW:

NRW governance has agreed an approach that will allow HP boiler operation exceeding the Annex V NO_x ELV for 8-11 weeks during delayed upgrading and statutory inspection works. We will score a permit condition breach and then suspend subsequently as there is a credible plan to achieve compliance (upgrade programme) already in place. It is likely that the permit condition breach will be recorded as a category 3 minor AQ impact as emissions will be no higher than currently allowed during the TNP. This will be recorded on a CAR for the public record.

The HP boiler has run for 4.81 weeks (808.5 hours) weeks since June 30th 2020 so is within the agreed 8-11 weeks NRW governance allowance.

RELEASES TO AIR

Operator: **Dow Silicones UK Ltd**
 Location: **Barry Cogeneration Plant**
 Permit/Variation Number: **EPR/JP3632ZH/V004**

2020 / 2021	A2 / LCP60		
	NO _x (mg/m ³)		
Month	Monthly Mean	Max Daily Mean	Hours running
Jul-2020	207.71	215.44	65
Aug-2020	-	-	0
Sep-2020	221.12	231.28	53
Oct-2020	211.91	228.69	400
Nov-2020	222.8	230.46	72.5
Dec-2020	218.2	222.11	27.5
Jan-2021	215.61	221.83	77.5
Feb-2021	215.35	233.92	108.5
Mar-2021	187.35	187.35	4.5
Average (time weighted)	214.04618		
Monthly ELV / Daily ELV (f)	100	110	808.5

New permit limits from 1 July 2020

The HP boiler is currently undergoing its low NO_x upgrade with start up due in May 2021 (ahead of HRSG statutory inspections). It is anticipated that the HP boiler will comply with the 100mg/m³ NO_x permit limit post start up.

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	
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	Jude Sartor
Post	Environmental Specialist
Signature	
Date	27 th April 2021