

PERMIT NUMBER BR9685IX

DOW CORNING LTD

SCHEDULE 5 INCIDENT NOTIFICATION

To:	Process Industry Inspector
FAO: Mr Tony Leahey	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: Name Of Operator Location of Process:	Judith Sartor Dow Silicones UK Ltd Cardiff Road, Barry, Vale of Glamorgan
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Date Information Provided:	23/05/19

Part A

Permit Number	EPR/BR9685IX
Name of Operator	Dow Corning Ltd
Location of Facility	Barry, South Glamorgan, Wales
Time and Date of Detection	23/05/19

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	22/05/2019 00:01 – 23:59
Reference or description of the location of the event	W1 -Final effluent to river
Description of where any release into the environment took place	W1 -Final effluent to river
Substance(s) potentially released	Methanol
Best estimate of quantities or rate of release	63.91ppm (daily composite sample 22/5/19) for 2273m3 effluent (145.27kg of methanol) Daily composite sample for 23/5/19 not yet available – WWT process ran for 11 hours on this day with elevated Methanol – this sample will be sent for BOD analysis
Measures taken, or intended to be taken, to stop any emission	The source of the methanol contamination was identified and isolated. WWT process has been shut down to flush out remaining methanol contaminated effluent. A grab sample from the morning of 23/05/19 has been sent for BOD analysis.
Description of the failure or accident	A damaged interchanger caused a leak of methanol into an effluent stream. Initially the leak was not identified as it is contained within plant equipment. The leak became apparent when elevated levels of Methanol were detected in both Primary and Secondary Wastewater processes. The leak was located and stopped, the effluent flow to river was stopped to allow the methanol level to be brought back under control. An investigation will be carried out to establish the cause of the interchanger failure. We will also investigate if the methanol release to the river could have been lessened or prevented by other control methods.

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b) Notification requirements for the breach of a permit condition	
To be notified immediately	
Emission point reference source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

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	BOD sample results: 22/05/2019 was 176 mg/l 23/05/2019 was 23 mg/l 2 investigations were carried out, one in the process area and one in the wastewater area. These showed some key areas where improvements can be made to prevent a reoccurrence of this incident.
Measure taken, or intended to be taken, to prevent a recurrence of the incident	The following recommendations have been taken from the 2 investigations carried out as a result of this breach: • Improve start up procedures for carbon block interchangers to prevent damage, this will be done for all on site • Improve operating procedures for actions to take when receiving elevated lab results • Improve communication between areas regarding elevated lab results • Utilise existing lab systems to identify abnormal lab results in routine samples • Implement a change in the control strategy to minimise methanol in the wastewater stream • Improve procedures and decision tree for feeding abnormal feeds into the wastewater plant. • Evaluate if an online analyser can be installed to give continuous measurement on inlet stream to wastewater treatment and /or final effluent stream
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.	There is not believed to be any lasting pollution caused by this breach of permit limit.

The dates of any unauthorised emissions from the facility in the preceding 24 months.	
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Name	Judith Sartor
Post	Environmental Specialist
Signature	
Date	15/08/19