

PERMIT NUMBER BR9685IX

DOW SILICONES UK LTD

SCHEDULE 5 INCIDENT NOTIFICATION

To:	Process Industry Inspector
FAO: Mr Geraint Harris	Natural Resources Wales Rivers House St Mellons Business Park Fortran Road St Mellons Cardiff CF3 0EY
Phone	03000 65 3000
Email	icc@cyfoethnaturioleymru.gov.uk
From:	[REDACTED]
Name Of Operator	Dow Silicones UK Ltd
Location of Process:	Cardiff Road, Barry, Vale of Glamorgan
FAX No:	
Telephone No:	01446 723960
Email	[REDACTED]
Date Information Provided:	6 th September 2024

Part A

Permit Number	EPR/BR9685IX
Name of Operator	Dow Silicones UK Ltd
Location of Facility	Barry, South Glamorgan, Wales
Time and Date of Detection	5 th September 2024 21:21

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	5 th September 2024 21:21
Reference or description of the location of the event	Grid ref - 51.409490, -3.238312
Description of where any release into the environment took place	W348 TCS process at Dow Silicones UK Ltd
Substance(s) potentially released	Chlorosilane liquid (which generates HCl vapour when in contact with the moist air)
Best estimate of quantities or rate of release	Calculation in progress as part of internal investigation.
Measures taken, or intended to be taken, to stop any emission	Water curtains and plant deluge were activated to reduce the vapour cloud until the HCl generation stopped. Equipment was remotely isolated.
Description of the failure or accident	<p>HCl gas alarms were received by the W348 operator. The operator observed the plant using the CCTV and witnessed an HCl vapour cloud travelling WSW from W348.</p> <p>The water deluge was activated and the main plant valves remotely isolated. The rate of emission visibly decreased.</p> <p>All plant evacuation alarms were activated for affected areas.</p> <p>Additional water curtains were used to reduce residual HCl generation. Operations personnel wearing BA then attended to ensure the leak was fully stopped and make further manual isolations.</p> <p>A full internal RCI will be carried out for this event.</p>

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	
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	[Redacted]
Post	Environmental Specialist
Signature	[Redacted]
Date	6 th September 2024