

Schedule 1 – 5.1.1 Notification

PART B

Permit Number:	BR9715B
Name of Operator:	Solutia UK Ltd
Location of Installation:	Corporation Road, Newport, Gwent, NP194XF
Location of the emission:	Therminol 3 – CO ₂ vent
Time and date of the emission:	10/07/2017, 02:23

Any more accurate information on the matters for notification under Part A	Following a number of unexpected furnace ‘trips’ the preceding day (as a result of a burner fault), the operation was shut down pending an investigation into the cause. Part of such a shutdown involves CO₂ purging to prevent a line blockage as the materials solidify upon cooling. In this instance, it was not noted that there was residual pressure in the process line, which was higher than the CO₂ relief valve set-pressure used to protect the process column. Consequently, as the purge commenced, a calculated 115 liters of 35° benzene & biphenyl were discharged via the CO₂ relief valve vent, then to the adjacent bespoke drain & separator unit. This took place during the short duration whilst the pressure in the process line dissipated. Whilst there was an interlock preventing both the process & purge lines being energized at the same time, this would not protect against the pressure scenario observed in this instance
Measures taken, or intended to be taken, to prevent a recurrence of the incident	The following are the main actions identified following the investigation: • Implement a ‘DCS trip’ to prevent the automated CO₂ purge valves opening if the pressure is >2.8 barg i.e. greater than the CO₂ purge pressure [Complete] • Review if the CO₂ purge & relief valve pressures can be raised, in conjunction with installation of a suitable non-return valve • Review the event with operators, and implement / modify further checklist(s) for: start-up shut-down, and other critical activities

	Review and update HAZOP(s) and associated engineering drawings for any similar purge points
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the emission	None proposed
The dates of any unauthorised emissions from the installation in the preceding 24 months	11/07/2017 - Benzene CO ₂ vent [This Notification] 10/04/2017 - NOx on TH3 Furnaces 12/08/2016 - Benzene Transfer Line 28/06/2016 - Boiler 16 NOx emissions 23/02/2016 - Bellows Failure 26/01/2016 - W1 pumping during cease discharge 10/01/2016 - Acetic Acid pipe failure 04/01/2016 - Catch Tank Vent, HCl / Acetic release

* Signed: 

Date: 10/08/2017

* authorised to sign on behalf of Solutia UK Ltd