

Schedule 1 – 5.1.1 Notification

PART B

Permit Number:	BR9715IB
Name of Operator:	Solutia UK Ltd
Location of Installation:	Corporation Road, Newport, Gwent, NP194XF
Location of the emission:	Therminol Plant – TH2
Time and date of the emission:	16/07/2019 at 11:02

Any more accurate information on the matters for notification under Part A	The quantity of benzene released following the TH2 compressor trip was calculated to be: 15kg upon initial release, and 97kg during the subsequent purge cycles [50kg reported initially] In this instance the initial release also involved ignition of the gas at the vent, resulting in a localized flame that required extinguishing There is an effect whereby steam can create static discharge, and it is this mechanism (west flame arrestor steam leak) which is thought to be the most likely cause of ignition
Measures taken, or intended to be taken, to prevent a recurrence of the incident	The venting of pressure is an intrinsic safety feature which functioned as intended. The vents are also equipped with flame arrestor devices, which serve to protect against flame propagation However, in order to further reduce the associated flame risk in an event such as this, the following actions were identified during the investigation: • Modify steam lines to reduce the likelihood of a repeat incident • Consider alternative heating medium for Flame Arrestors • Elevate Flame Arrestor away from a potential ignition source, and consider installing a steam snuff or CO2 purge • Highlight and raise awareness that steam jets can create static discharge
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	01/08/2019 – TH3 Pyro Feed 16/07/2019 – TH2 FA vent [This Notification] 24/06/2019 – PCP in effluent 02/11/2019 – PCP in effluent 09/12/2018 – PCP in effluent 21/11/2018 – Gas Turbine Compressor 26/07/2018 - D2010 Bellows failure 11/06/2018 - Benzene, ineffective purge cycle 12/03/2018 - PCP in effluent 31/01/2018 - NOx on TH3 Furnaces 15/01/2018 - Benzene CO₂ vent 09/01/2018 - PCP in effluent 30/10/2017 - Acetone coupling failure 25/10/2017 - Benzene CO₂ vent
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* Signed: 

Date: 12/08/2019

* authorised to sign on behalf of Solutia UK Ltd