

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 – TH3 (East Pyrolysis Furnace)
Time and date of the emission:	01/08/2019 at 01:20

Any more accurate information on the matters for notification under Part A	As per Part A, a flange leak occurred on the East Pyrolysis furnace whilst it was being started-up for a new campaign. Upon detection, the unit was shut-down and CO₂ purged allowing repairs to take place The quantity of the release was revised to 175kg (200kg initial estimate), with the release occurring over approximately 2 hours whilst the plant was shut-down. The material comprised benzene (captured by the bespoke interceptor), and biphenyl which immediately solidified LEL detectors are located around the plant, but atmospheric benzene levels were not sufficient to exceed the alarm set-point The investigation indicated that following the shut-down period, the pipework was re-assembled with the flange faces not quite square. This is considered to be the principle cause as there was no damage to the gasket, and bolts were tight
Measures taken, or intended to be taken, to prevent a recurrence of the incident	The following actions were identified as measures to help prevent a recurrence: • Include a secondary check following a de-coke • Introduce leak checks (pressure / steam) • Review LEL detector alarm set-point to establish if they can provide leak indication without causing spurious alarms

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	08/10/2019 – PCP in Effluent 18/08/2019 – PCP in Effluent 01/08/2019 – TH3 Pyro Feed [This Notification] 16/07/2019 – TH2 FA vent 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 CO ₂ vent 09/01/2018 - PCP in effluent 30/10/2017 - Acetone coupling failure 25/10/2017 - Benzene CO ₂ vent

*** Signed:**



Date: 13/12/2019

* authorised to sign on behalf of Solutia UK Ltd