

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:	Dequest Amino Stripper vessel
Time and date of the emission:	31/10/2020 at 01:57 for approximately 1hr

Any more accurate information on the matters for notification under Part A	The subsequent investigation determined that the event was consistent with a classic ‘pin-hole failure’ i.e. a small amount of erosion exposes a pinhole size defect in the glass lining of the vessel, which allows the corrosive contents of the vessel access to the steel vessel body. Corrosion products build up under the glass causing pressure, eventually resulting in a failure of a section of glass. This then very quickly leads to a failure of the vessel as seen in this case with a ~30mm hole resulting, and associated loss to the effluent system of the reported ~3000L The vessel was last ‘re-glassed’ in 2016, and most recently received an independent inspection in 03/2020 - being recorded as in good condition with no signs of damage In addition, Fe sampling is conducted on each batch as this is an indicator that there could be a failure of the lining. In this instance there were no high Fe readings leading up to the failure due to the mode of failure as outlined above The spilled material was directed to the effluent system for downstream neutralization at the effluent treatment plant. No adverse impact was observed on the site effluent discharge quality
Measures taken, or intended to be taken, to prevent a recurrence of the incident	The investigation identified a number of follow-up actions, including: • Consider alternative materials for vessel lining / construction (Complete) • Review inspection methods to identify whether any additions to current practice would be of benefit • Discuss with glass contractor if inclusion defects can be; avoided or more readily detected

	Complete review of vessel change-out frequency, and amend schedules accordingly
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	31/10/2020 - Amino Stripper [This Notification] 20/08/2020 - GT Water Injection Unit 09/06/2020 - T66 Pumphouse 20/04/2020 - Biphenyl Vent 08/10/2019 - PCP in Effluent 18/08/2019 - PCP in Effluent 01/08/2019 - TH3 Pyro Feed 16/07/2019 - TH2 FA vent 24/06/2019 - PCP in effluent 02/11/2019 - PCP in effluent

*** Signed:**



Date: 25/01/2021

* authorised to sign on behalf of Solutia UK Ltd