



Schedule 1

Notification of Unauthorised Release

Operator: Tata Steel UK Ltd

Authorisation: BS3905IP **Location:** Llanwern Works
Newport
South Wales
NP19 4QZ

Date Submitted: 17/04/2020

PART B

- **Further details of the release and results of any investigations carried out**

This Part B is a follow-up to the Part A Notification for a breach of hydrogen chloride limit on 11 March 2020 at the A7 emission point (Pickle Line Stack No. 2). Average recorded value of two samples was 249.1 mg/m³ (± 3 mg/m³).

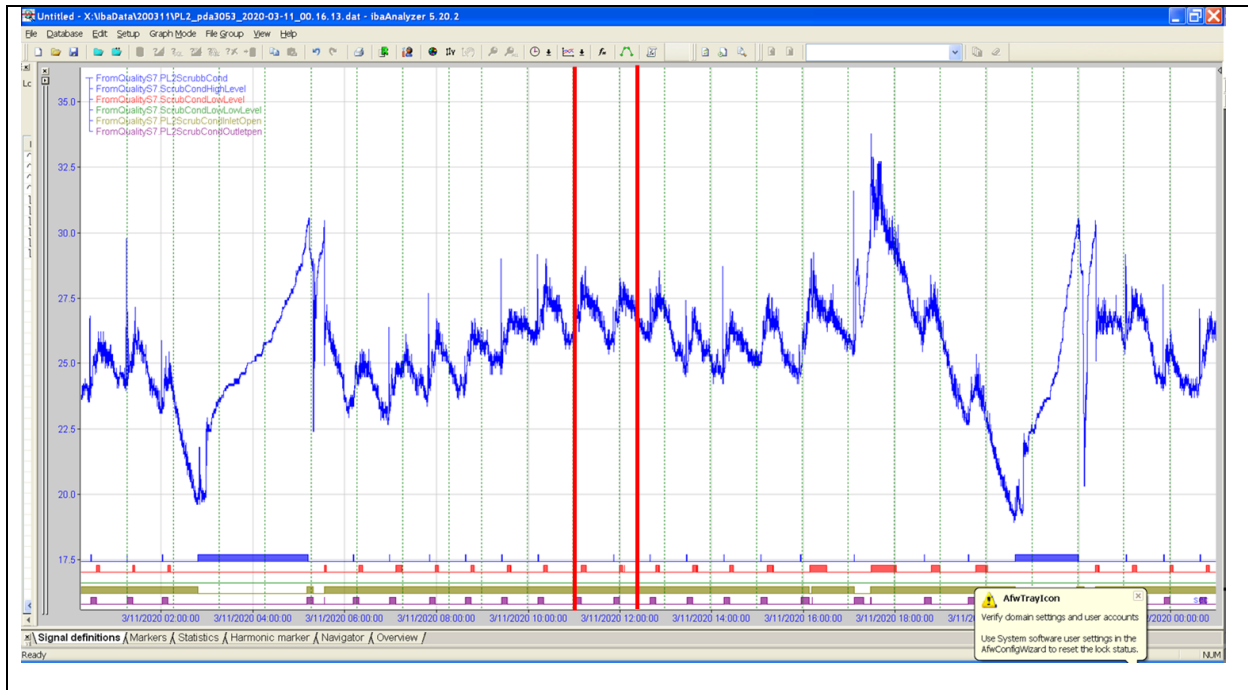
The levels were high relative to the limit and any previously recorded samples. Analysis was undertaken twice and gave the same results. The impinger used to collect the sample was checked, along with the blank values – neither suggested any contamination of the sampling equipment or solutions.

In order to confirm normal function of the Pickle Line scrubber, a trace from the conductivity analyser is presented below. This shows that during the period of sample collection between 11:07 and 12:15 (and either side), the make-up water wash system was operating as normal:

- Recirculation of scrubber water up to upper conductivity set point of 30 mS
- At 30 mS, scrubber water tank empties to low level and refills with fresh water. This cycle repeats until the conductivity level reaches 20 mS.

There is nothing in the trace below that indicates either inadequate supply of fresh water to the system, or saturation of the scrubber water with hydrogen chloride preventing scrubbing of acid from Pickle Line fume.

In the event that conductivity goes excessively high, an audible alarm sounds, alerting the acid attendant and line exit operator.



• **Measures taken or intended to be taken to prevent a recurrence of the incident**

Root cause of the breach is unclear. Repeat of sample is planned as soon as possible – w/c 20 April 2020.

• **Measures taken, or intended to be taken, to: rectify, limit or prevent any pollution of the environment or harm which has been caused by the emission**

No indication of ongoing release of elevated levels of hydrogen chloride – scrubber system is functioning as per design, within make-up limits specified above.

Plant personnel have not reported any abnormal pickle odour around plant.

• **The dates of any PART A notifications within the previous 24 months**

- 16, 17, 18 Feb 2020 – Suspended solids at W1 consent point
- w/c 22 Dec 2019 – Suspended solids at W1 consent point
- 15 Jan 2019 – Loss of W1 effluent sample
- 13 Sep 2018 – Suspended solids at W1 consent point
- 8 Aug 2018 – Hydrocarbon at W1 consent point
- 27 June 2018 – Hydrocarbon at W1 consent point
- 24 May 2018 – High pH at W1 consent point
- 28 Mar 2018 – HCl stack emissions

Name: Michael Launder

Position: Environmental Engineer

Signature:

[Signed on behalf of Tata Steel Strip Products UK]