

N5SCHEDULE 5 Notification

Part B

Permit Number:	BL7108IM
Name of Operator:	Tata Steel UK Ltd
Location of Facility:	Port Talbot Works
Part A details	S5N/23/03A; S5N/23/12A; S5N/23/14A
Date Part A submitted	16/01/2023 (03A); 06/02/2023 (12A); 13/02/2023 (14A)

Any more accurate information on the matters notified under Part A

- This Part B applies to Part A notifications S5N/23/03A, S5N/23/12A and S5N/23/14A.
- In calendar week 2, the LSO zinc weekly average was breached with a measured value of 2.42 mg/l, and emission value of 2.33 mg/l with uncertainty applied.
- In calendar week 5, the LSO zinc weekly average was breached with a measured value of 3.05 mg/l, and emission value of 2.96 mg/l with uncertainty applied.
- In calendar week 6, the LSO zinc weekly average was breached with a measured value of 2.10 mg/l, and emission value of 2.01 mg/l with uncertainty applied.
- The results for the three week period are attached below.

Week 2	08/01/2023	5.7
	09/01/2023	3.85
	10/01/2023	2.775
	11/01/2023	2.11
	12/01/2023	1
	13/01/2023	1
	14/01/2023	0.51
Week 5	29/01/2023	0.9
	30/01/2023	1.9
	31/01/2023	1.8
	01/02/2023	5.62
	02/02/2023	7.15
	03/02/2023	1.74
	04/02/2023	2.22
Week 6	05/02/2023	2.755
	06/02/2023	4.625
	07/02/2023	3.651
	08/02/2023	0.9
	09/02/2023	1
	10/02/2023	0.8
	11/02/2023	1

- After investigation, the source of the elevated Zn has been identified as high heat gains on Blast Furnace 4. The high

	heat gains were forced on the BF4 to remove scabs building up on the furnace walls. - The scabs on the furnace walls are rich in trace metals such as zinc. Hence, the forcing of the scabs off the furnace walls elevated the Zn levels to the gas wash system, which enter the effluent system via the Dorr ponds. - The heat gains were reduced on the 8th of February, which correlates to the reduction of Zn levels at the LSO.
Measures taken, or intended to be taken, to prevent a recurrence of the incident	Please see below.
Measures to be 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	- The Nautilus was utilised during the elevated Zn levels to drop out the zinc. Sump no. 5 was also added to elevate pH levels and aid precipitation of the zinc. - The Procedure for Blowdowns at the Furnaces has been changed to include pre-notification to the Environment Department, to allow for diversion to the Nautilus and consideration of treatment options.
The dates of any Part A notifications in the previous 24 months	Please see attached Excel sheet.

Name*	Ellie Harrison
Post	Environmental Engineer
Signature	
Date	11/05/2023
Reference	S5N/23/03B