

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/22/60A; S5N/22/63A; S5N/22/65A
Date Part A submitted	22/08/2022 (60A); 05/09/2022 (63A); 13/09/2022 (65A)

Any more accurate information on the matters notified under Part A

- This Part B applies to Part A notifications S5N/22/60A, S5N/22/63A and S5N/22/65A for breaches at the Long Sea Outfall (LSO).
- 14/08/2022 – 20/08/2022 the weekly iron (Fe) measured value was 6.73 mg/l (emission value of 6.23 mg/l following the application of uncertainty).
- 28/08/2022 – 03/09/2022 the weekly iron (Fe) measured value was 6.36 mg/l (emission value of 5.86 mg/l following the application of uncertainty).
- 04/09/2022 – 10/09/2022 the weekly iron (Fe) measured value was 6.97 mg/l (emission value of 6.47 mg/l following the application of uncertainty).
- Cold Mill Effluent Treatment Plant (CMEFF) is owned by Energy, with day-to-day operation of the plant outsourced to a contractor. The contract swapped from the previous incumbent ICGL to Hargreaves on the 13th September 2022.
- Part of the water treatment process at CMEFF involves the use of a clarifier to remove suspended solids. The clarifier has been identified as being in poor condition, without the regular desludging that is required as part of operational control. ICGL did not report the poor condition of the clarifier to Energy Distribution.
- Furthermore, the removal of one of the sludge tanks from operation (made redundant due to condition) caused the sludge level to increase and settle in the clarifier. When the press water is returned to the clarifier the water is clear (as all cloths have now been changed), but this unfortunately resulted in the displacement of the sludge in the clarifier, which ends up directly at the Final Water tank before being pumped to the LSO. The process sludge being displaced is high in Fe, and indeed most of the Total Fe at the LSO is accounted for as insoluble Fe.
- Additionally, during 04/09/22 – 10/09/22, the polymer dosing line had been removed from the launder which feeds the clarifier process at the BOS Plant (feeding Sump no. 5). This is used to help drop out suspended solids, and the removal of this led to increased Fe levels in the Sump no.5 effluent. The polymer dosing has since been reinstated, and Fe levels have dropped accordingly.

Measures taken, or intended to be taken, to prevent a recurrence of the incident	<ul style="list-style-type: none"> • CMEFF Clarifier was cleaned out 05/09/22 – 09/09/22 to remove the built-up sludge in the clarifier and stop sludge weiring over to the Final Effluent tank. • Training pack and manual for new CMEFF contractors (Hargreaves) has been developed. Full and sufficient training is to be rolled out to the new contractors. • Monthly meetings with new contractor (Hargreaves) to be initiated with focus on water quality KPI's. • Plant process review/study to be undertaken by Suez (site wide water treatment contractor) and Energy.
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	<ul style="list-style-type: none"> • Please see above.
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	07/10/2022
Reference	S5N/22/60B