

Compliance Assessment Report CAR_NRW0050681

Permit being assessed: TP3639BH.

For: Tremorfa Melt Shop, **held by:** 7 Steel Manufacturing (UK) Limited

At: Seawall Road, Tremorfa, Cardiff, Cardiff, CF24 5TH.

Type of assessment: Report/Data Review,

Reason: Routine.

On: 31/12/2025.

Parts of permit assessed: 4.2.2 / 4.2.3 / 4.2.5 / 4.2.6 / 3.1 / 1.2.

NRW Lead Officer: Dale Padfield.

Report sent to: ~, Environmental Manager , on 13/02/2026.

1. Summary of our findings (full details in section 4)

Part of permitted activity assessed (compliance criteria)	Assessment result	Permit condition
IR1C - Installations - Management - Energy Efficiency	Assessed (A)	
IR3A(1) - Installations - Emissions and monitoring - Emissions to water	Assessed (A)	
IR3A(2) - Installations - Emissions and monitoring - Emissions to air	Action only (X)	
IR4B - Installations - Information - Reporting	Assessed (A)	

Result types are explained in more detail in the 'Important Information' section below.

Total non-compliances recorded	Total non-compliance score
0	0

How we use the non-compliance score to calculate your annual fee is explained in the 'Important Information' section below.

2. What action is required?

Criteria	Action needed	Complete by
IR3A(2)	Provide copies of all external reports concerning monitoring undertaken on emissions points A1, A2, A5 and A11. Additionally, provide a copy of the monitoring data from on site continuous monitors for: A1 particulate CEM between 01/11/2025 and 30/11/2025	13/03/2026

Criteria	Action needed	Complete by
	along with a log of the corresponding Meltshop operations (i.e., plant on or off). A5 particulate CEM between 01/11/2025 and 30/11/2025. CEM data should be in excel format.	

Compliance criteria codes are listed in the 'Important information' section below.

3. What will happen next?

Any non-compliance we have identified and recorded on this form is an offence. It can result in criminal prosecution and/or suspension or revocation of your permit.

At this time, we do not intend to take any further action.

This statement does not stop us from taking additional enforcement action if further relevant information comes to light or offences continue.

4. Details of our assessment

7 Steel UK Ltd

EPR/TP3639BH

This compliance assessment report (CAR) details the following:

- Review of annual performance reporting submissions
- Review of Quarter four (October – December) 2025 reporting returns
- Review of Annual emissions reporting

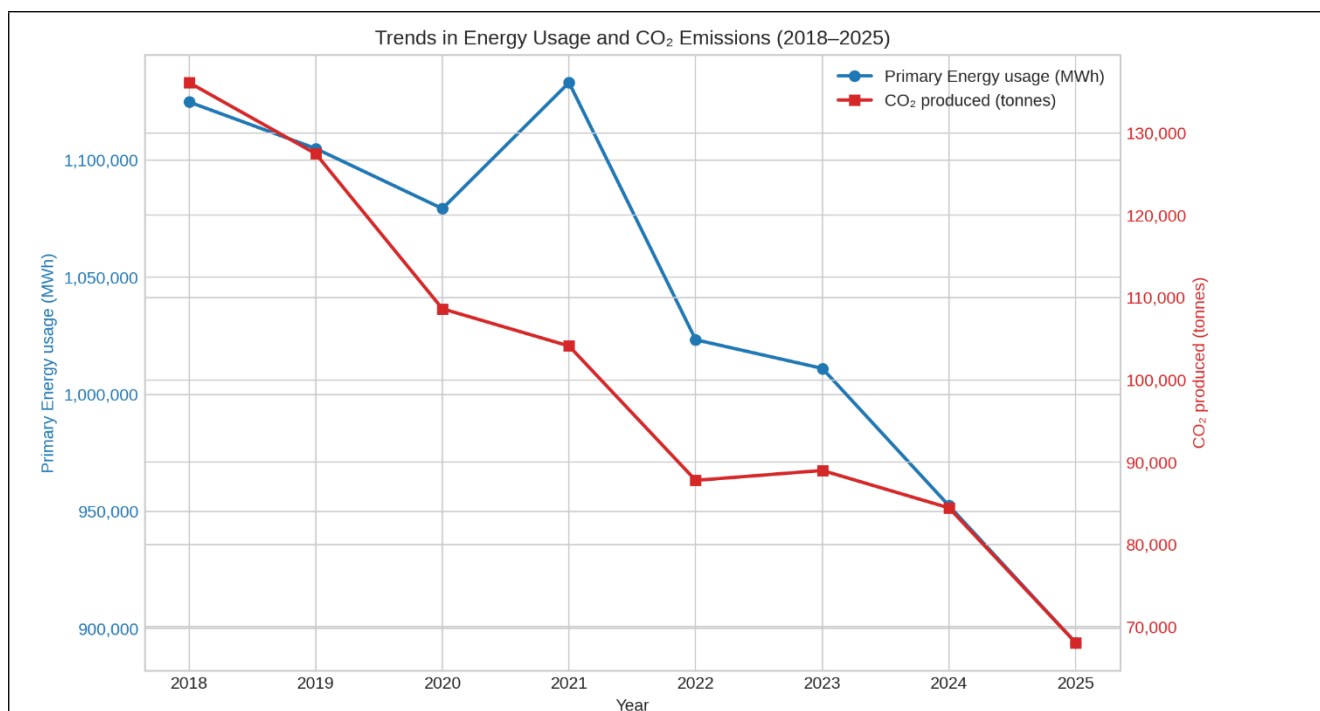
Annual reporting submissions

Production

Production of finished steel saw a slight increase in 2025 when compared to the previous year with a total of 800,491.05 tonnes reported. Tonnages for activities A2, A3, A4, A11, A12 and A13 are within permitted tonnages where limits are imposed.

Energy Usage

Primary energy usage (MWh electricity) has seen a significant decrease in 2025 when compared to 2024 and previous years, with 2025 showing the lowest usage in eight years, resulting in a reduction in associated carbon emissions, as depicted in the graph below.



Electricity consumption in 2025 shows an overall 6.29% reduction relative to 2024, indicating continued progress toward the Melt Shop's internal energy-efficiency objectives. Evidence provided suggests that this reduction is primarily attributable to operational optimisation measures. These include adjustments to electrical and oxygen patterns designed to enhance the performance of the furnace arcing process, thereby lowering demand on the 33 kV electrical supply. In addition, the ongoing review and refinement of furnace scrap blends appear to have improved melting efficiency, contributing to a more effective use of each basket drop.

Natural gas consumption has recorded only a minor nominal increase since 2023. Based on the information supplied, gas usage is predominantly associated with the Ladle Furnace burners, and the Melt Shop is operating this equipment at what is described as the minimum feasible gas demand for the process. The operator has indicated that opportunities for further reductions will continue to be explored, though scope may be limited by process safety and operational requirements.

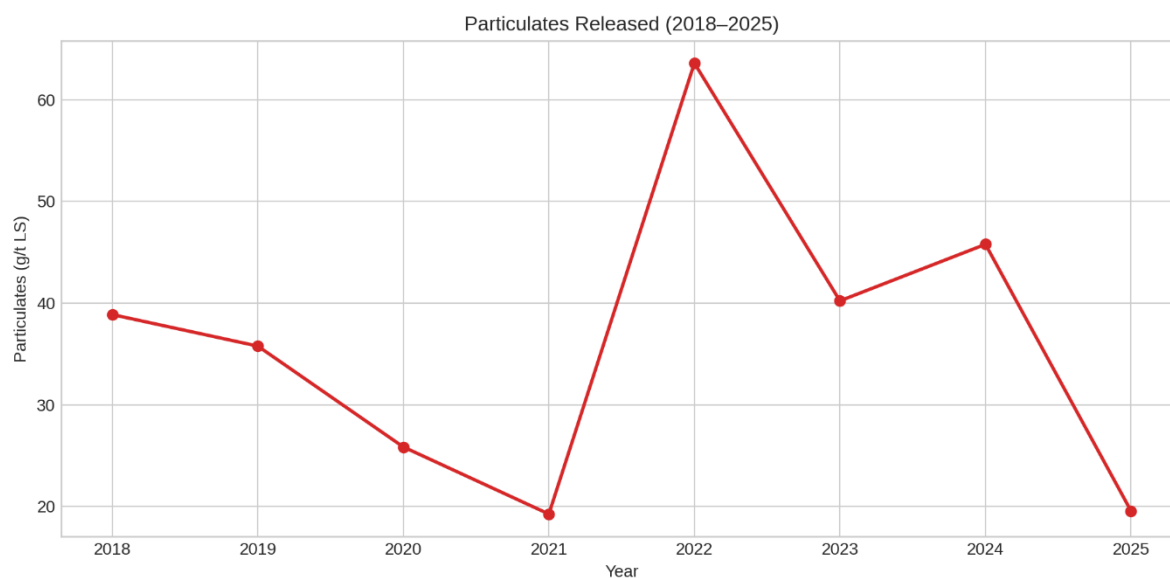
When normalised against production tonnage, the consumption trends presented follow the same pattern as the absolute values and align with the stated operational explanations. Overall, the data indicates a generally positive trajectory in electricity efficiency, alongside stable and well-controlled natural gas usage, subject to ongoing monitoring.

A1 Metlshop Air Emissions

Particulates

Particulate emissions show a 49.7% reduction between 2018 (38.87 g/t LS) and 2025 (19.56 g/t LS). The lowest recorded level occurred in 2021, while a significant peak was observed in 2022, where

emissions temporarily rose to 63.60 g/t LS. This deviation suggests an operational or process-related issue in 2022 that was subsequently brought back under control. Overall, the trend indicates a return to lower particulate release levels aligned with improved process performance and emissions management controls. It is also noted that there has been a significant reduction in Schedule 5 notifications for particulate exceedances at the A1 emission point, providing NRW with further confidence that the improvement in emissions management controls has been effective. A graph below provides a visual aid to the decreases in particulate matter releases.



NO_x and SO_x emissions

NO_x emissions remain relatively consistent with previous years figures. There appears to be an increase in SO_x emissions, the results are calculated based on spot samples which can result in over estimation. However, the does appear to be a general increase from 2022. Monitoring results indicate compliance with the ELV (25mg/m³), continued upward trend may warrant further investigation to ensure emissions remain within compliance limits.

Water Use

Water use decreased by 21.4% over the reporting period, from 0.585 m³/t LS in 2018 to 0.460 m³/t LS in 2025. Water use peaked in 2019, after which the site delivered a sustained downward trend. The lowest consumption appears in 2025, indicating continuing efficiency improvements in water handling, recycling, or process demand optimisation. A slight increase in noted when the data for m³ per tonne of billet production is evaluated, however, this is almost comparable to 2024 figures and is still a reduction on previous years. The data suggests progressive alignment with water-reduction objectives and effective implementation of conservation measures.

Waste Production

Minimal changes are seen in waste production at the facility, with the figures aligning with that reported over the previous years.

Fugitive emissions

In 2025, 7 Steel continued to operate the Melt Shop's total capture and abatement system to control particulate emissions from the EAF and Ladle Furnace processes. Routine structural maintenance and targeted operational improvements helped maintain the effectiveness of the roof canopy, extraction system and bag-house. A number of preventative and corrective actions were implemented, including enhanced operator training, real-time dust-cabinet monitoring, increased electrical inspection frequency, and minor structural weather-protection works. These measures strengthened the site's ability to prevent fugitive dust releases. Slag-handling activities remained controlled, with all hot-slag emissions captured internally before material was transferred for cooling, storage and reprocessing at the 'minerals site'. Dust suppression measures are implemented at external operational areas, supported by bowsers and groundwater-fed spray systems, no reports were received regarding fugitive dust emissions.

Ambient monitoring continued at four dust-monitoring locations on-site and in the surrounding community. This data will be subject to a further detailed review this compliance year.

Two daily-average exceedances of the A1 particulate limit occurred in 2025, and two A5 trigger-level exceedances occurred in January. All incidents were investigated, with corrective actions implemented and no further recurrence during the year.

Several reports concerning noise were received by NRW. The details of which are captured in previous CAR forms, including any non-compliances identified and actions undertaken by the operator. Further reports of noise were received during quarter 4 of 2025, upon investigation, these were substantiated as arising from the nearby 'sea defence' works along rover-way, whereby substantial groundworks, including piling operations are being conducted.

On-going non-compliance is noted with the storage of EAF dust at the 'minerals site', with concerns of fugitive emissions to soil and groundwater. The investigation and non-compliance scoring will be captured in a separate CAR form.

Quarter 4 (October ~ December) and Annual 2025 permit reporting returns

Air emissions ~ A1 / A2/ A4 / A5 / A11/ Ambient monitoring

A1 ~ Annual emissions reporting, as provided on form 'Air 2' indicates all parameters are within their respective ELV's.

A1 ~ Quarter 4 emissions reporting, as provided on form 'Air 1', the following highest monthly concentrations were reported, 2.70 mg/m³, 5.07 mg/m³ and 4.81 mg/m³ for the months October, November and December respectively. The result in November is marginally above the ELV, this is deemed to be within the likely measurement uncertainty of the analyser, as such, no non-compliance is scored, in-line with NRW non-compliance scoring policy. Reports accepted.

A2 ~ Particulates within the respective ELV. Report accepted

A4 ~ A Ringelmann shade 0 was reported for each month of the quarter. The returns are accepted.

A5 ~ Annual emissions monitoring for NO_x and particulate matter both within their respective ELV's. The operator reported a total of 423.14 hourly average recordings, with no hourly averages exceeding the 20 mg/m³ trigger level. The returns are accepted.

A11 ~ Particulate concentration within respective ELV. Report accepted.

Ambient monitoring – monitoring received for all 4 ambient dust monitors. This data will be subject to a further detailed review this compliance year.

As part of the ongoing compliance and assurance surrounding the reporting of emissions data, 7 steel are requested to submit the monitoring data detailed in the following action:

Action 1 ~ 7 Steel 13th February 2026: Provide copies of all external reports concerning monitoring undertaken on emissions points A1, A2, A5 and A11. Additionally, provide a copy of the monitoring data from on site continuous monitors for:

A1 particulate CEM between 01/11/2025 and 30/11/2025 along with a log of the corresponding Meltshop operations (i.e., plant on or off).

A5 particulate CEM between 01/11/2025 and 30/11/2025.

CEM data should be in excel format. **Due 13/03/2026**

Emissions to sewer S1 / S2 / S5 / Asphalt plant soakaway

S1 ~ Various parameters exceeded their relevant ELV's, however, NRW were notified of these exceedances via Schedule 5 notification. Plant and operational improvements were completed in accordance with the agreement to suspend on-going non-compliance scoring in relation to exceedances of ELV's at the S1 emission point. Since completion, all discharges have been compliant with the permit ELV. Further detail on the measures implemented are available in compliance report CAR_NRW0050310.

S2 ~ All parameters within their respective ELV's.

S5 ~ All parameters within their respective ELV's.

Asphalt plant discharge soakaway ~ Biannual report received in July. No ELV's set for monitoring

parameters, results within expected ranges.

All reports accepted.

Waste returns

Waste returns were reported within the reporting window, all received EWC codes are compliant with the permit. The returns are accepted.

End.

If you have any queries about this report, or to discuss completion of any actions, please contact the NRW Officer named above.

Important information

Legal status of this report

Your permit is issued to you under the Environmental Permitting Regulations. You have a responsibility to comply with the conditions of your permit and prevent pollution/harm of the environment. You must also ensure that you comply with any other relevant legislation that may apply to your site's operations.

This report explains the findings of our assessment and any action you are required to take. We categorise non-compliance using our guidance for assessing non-compliance at regulated sites.

When we find potential non-compliance/s we will normally give you advice on how to maintain compliance.

To correct non-compliance, we may:

- require you to take specific actions
- issue a notice
- review the conditions of your permit.

Any advice and guidance we give will be without prejudice to any other enforcement response that we consider may be required.

Assessment results and non-compliance categories (used in section 1):

Assessment result	Description
Assessed (A)	Assessed or assessed in part, no evidence of non-compliance found
Action only (X)	Action required for the permit condition assessed to avoid non-compliance. No non-compliance scored at this time
Ongoing (O)	Ongoing non-compliance, not scored

Non-compliance category	Description	Score
C1 Major	Potential to have a major, serious, persistent and/or extensive impact or effect on the environment, people and/or property	60
C2 Significant	Potential to have a significant impact or effect on the environment, people and/or property	31
C3 Minor	Potential to have a minor or minimal impact or effect on the environment, people and/or property	4
C4 No environmental impact	Non-compliance at a regulated site that cannot foreseeably have any impact on the environment, people and/or property	0.1

How we use assessment scores

The number and severity of non-compliances recorded in a year will affect your annual subsistence fee the following year. A non-compliance factor is added to your site's Operator Performance Risk Appraisal (OPRA) score when we calculate your fee to reflect the additional resource we use to assess permit compliance.

If your assessment result in Section 1 is suspended, what does this mean?

In line with our guidance, we may suspend scores for up to six months to allow time for remedial action to be taken. Suspended scores will be re-instated if the action is not completed.

Full list of Industry compliance criteria (used in section 1 and 2):**1. Management**

- IR1A – General management
- IR1B – Finance (only applicable to Landfill)
- IR1C – Energy efficiency
- IR1D - Efficient use of raw materials
- IR1E - Avoidance, recovery and disposal of wastes produced by the activities
- IR1F - Multiple operator installations

2. Operations

- IR2A – Permitted activities
- IR2B – The site
- IR2C – Operating techniques
- IR2D – Technical requirements
- IR2E – Improvement programme
- IR2F – Pre-operational conditions
- IR2G – Landfill engineering (only applicable to Landfill)
- IR2H – Waste acceptance (only applicable to Landfill)
- IR2I – Leachate levels (only applicable to Landfill)
- IR2J – Closure and aftercare (only applicable to Landfill)
- IR2K – Landfill gas management (only applicable to Landfill)

3. Emission and Monitoring

- IR3A(1) – Emissions to water
- IR3A(2) – Emissions to air
- IR3A(3) – Emissions to land
- IR3B – Emissions of substances not controlled by emission limits
- IR3C – Odour
- IR3D – Noise and vibration
- IR3E – Monitoring
- IR3F – Pests
- IR3G – Air quality management plans
- IR3H – Monitoring for the purposes of the Industrial Emissions Directive (this heading includes Large Combustion Plants)
- IR3I – Fire

4. Information

- IR4A – Records
- IR4B – Reporting
- IR4C – Notification

Enforcement response

Any non-compliance with a permit condition is an offence and we may take legal action against you. Action we take can include prosecution, serving a notice on you and/or suspension or revocation of your permit. See our Enforcement and Sanctions Guidance for further information.

Data protection notice

You should make sure that anyone named in this report knows that the information it contains will be processed by Natural Resources Wales to fulfil its regulatory and monitoring functions and to maintain the relevant public register(s).

We may also use and/or disclose the report in connection with:

- offering or providing you with our literature or services relating to environmental matters
- consulting with the public, public bodies and other organisations (e.g. Health and Safety Executive, local authorities) on environmental issues
- carrying out statistical analysis, research and development on environmental issues
- providing public register information to enquirers
- investigating possible breaches of environmental law
- assessing customer service satisfaction and improving our service
- Freedom of Information Act or Environmental Information Regulations requests.

We may also pass it on to our agents or representatives to do these things on our behalf.

Disclosure of information – this report will be available to view on-line

If you think this report contains commercially confidential information that should not be placed on our public register, you must contact your local Natural Resources Wales office within **fifteen working days** of receiving this report, using the contact details in the accompanying email or letter. You must give a full explanation of why it should not be added to our public register, including specifying which information is commercially confidential. We will assess your request and respond to you within twenty working days to let you know if we agree to your request.

Disputing the Content of this Compliance Assessment Report Form

If you disagree with the content of this Compliance Assessment Report form, you should submit your concerns, in writing, to the regulating officer who issued it within **15 working days** of its issue. This will be treated as a **Stage 1 review**.

If you are not satisfied with the outcome of the stage 1 review, you may request a **Stage 2 appeal**. This request must be submitted **within 21 working days** of receiving the response from the stage 1 review.

Further details on our review and appeal process are available at: [Natural Resources Wales / Appeal a regulatory decision from Natural Resources Wales](#)

Concerns Not Related to the Content of this Compliance Assessment Report Form

If your concerns do not relate to the content of the Compliance Assessment Report form, you should first attempt to resolve the issue with the regulating officer or their line manager.

If the issue remains unresolved, please contact our **Customer Contact Team**:

- **Telephone:** 0300 065 3000 (Monday to Friday, 09:00–17:00)
- **Email:** enquiries@naturalresourceswales.gov.uk

They will provide details on how to escalate your concerns through our **Complaints and Commendations procedure**.

If you are dissatisfied with our response, you may contact the **Public Services Ombudsman for Wales**:

- **Telephone:** 0300 790 0203
- **Email:** ask@ombudsman.wales

Welsh Language Standards

We are committed to establishing Natural Resources Wales as a naturally bilingual organisation. We will provide compliance reports in your preferred language.