

Compliance Assessment Report

Report ID:
CAR_NRW0036011

This form will report compliance with your permit as determined by an NRW officer

Site	Port Talbot Steel Works	Permit Ref	BL7108IM		
Operator/Permit holder	Tata Steel UK Limited				
Regime	Installations				
Date of assessment	06/06/2019	Time in	10:00	Out	12:00
Assessment type	Audit				
Parts of the permit assessed	1 Management; 2 Operations; 3 Emissions and Monitoring; 4 Information				
Lead officer's name	Cowie, Douglas				
Accompanied by					
Recipient's name/position	Claire Grainger/ Environment Manager	Date issued	03/12/2019		

Section 1 – Compliance Assessment Summary

This is based on the requirements of the permit under the Environmental Permitting Regulations or the licence under the Water Resources Act 1991 as amended by the Water Act 2003. A detailed explanation is captured in "Compliance Assessment Report Detail" (Section 2) and any actions you may need to take are given in the "Action(s)" (section 4). This summary details where we believe any non-compliance with the permit has occurred, the relevant condition and how the non-compliance has been categorised using our Compliance Classification Scheme (CCS). CCS Scores can be consolidated or suspended where appropriate, to reflect the impact of some non-compliances more accurately. For more details of our CCS scheme, contact your local office.

Permit conditions and compliance summary	CCS Category	Condition(s) breached
A1 - Specified by permit	A	
C2 - General Management - Management system and operating procedures	X	
D2 - Incident Management - Accidents, emergency and incident planning	A	
E1 - Emissions - Air	A	
G1 - Monitoring and Records, Maintenance and Reporting - Monitoring of emissions and environment	X	
	X	
G2 - Monitoring and Records, Maintenance and Reporting - Records of activity, site diary/journal/events	A	
G4 - Monitoring and Records, Maintenance and Reporting - Reporting and notification to Natural Resources Wales	A	

KEY: See Section 5 for breach categories, suspended scores will be indicated as such.

A = Assessed or assessed in part (no evidence of non-compliance), **X** = Action only,

O = Ongoing non-compliance, not scored.

Number of breaches recorded	0	Total compliance score (see section 5 for scoring scheme)	0
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If the Number of breaches recorded is greater than zero, please see Section 3 for our proposed enforcement response

Section 2 – Compliance Assessment Report Detail

This section contains a report of our findings and will usually include information on:

- The part(s) of the permit that were assessed (eg. Maintenance, training, combustion plant, etc)
- Where the type of assessment was 'Data Review' details of the report/results triggering the assessment
- Any non-compliances identified
- Any non-compliances with directly applicable legislation
- Details of any multiple non-compliances
- Information on the compliance score accrued inc.
- Details of advice given
- Any other areas of concern
- Any actions requested
- Any examples of good practice
- A reference to photos taken

Site description

Tata Steel UK Ltd (Tata Steel) operates an integrated iron and steel works at Port Talbot, Neath Port Talbot. The site is permitted as an installation under the Environmental Permitting Regulations (EPR). Tata Steel has several defined industrial processes which are carried out sequentially across the installation to convert raw iron ores and coal to semi-finished (slab) and finished steel products (such as hot rolled, pickled and oiled, cold rolled and annealed steel). The permit also covers coke making and the reception, stockpiling and blending of raw iron making materials. Four other companies – Cambrian Stone, Harsco Metals, Runtech and ICL – are contracted to undertake their own permitted activities at the steelworks on Tata Steel's behalf.

Purpose of visit/assessment

To review the complaint issues reported to Tata Steel over the previous quarter of operation (January – March 2019).

Other matters discussed during this intervention:

- Monitoring and emission limits for the BOS Off-gas Superheater (A66)
- Tata Steel's Air Quality Management Plan (AQMP)

The relevant permit conditions are listed under Sections 1.1, 2.3, 2.5, 3.1, 3.2, 3.5, 3.7, 4.1, 4.2, 4.3 and 4.4 of Tata's permit.

Person(s) present

Tata Steel

Beverley Jenkins

Lucy James

Andrew Townsend

Georgina Brooks (AQMP only)

NRW

Doug Cowie

Q1 2019 complaints

Environmental complaints received during the first quarter (Jan – Mar) of 2019 have included: dust fallout, visual steelworks emissions (releases), blast furnace releases and noise. The number of complaints received during Q1 has exceeded Tata Steel's target figure. This can be attributed to stability issues with Blast Furnace No.5 (BF5) following its restart in January 2019, which generated a surge in complaints over several weeks to Tata Steel and Natural Resources Wales (NRW).

A provisional complaint figure for Q2 (Apr – Jun) 2019 was also presented. An increase in complaints received directly by Tata Steel during this period correlated with a specific event on 26 April 2019 involving a molten metal torpedo spill and explosion. This event is subject to an ongoing safety investigation. This event generated approximately 70 complaints, so it is likely that Tata's Q2 target figure will also be exceeded.

Q1 and Q2 2019 are illustrations of how a single issue – for example, the April 2019 torpedo spill & explosion - can skew overall complaint figures. To qualify their figures and add more value, Tata is introducing greater granularity to its data to allow a more accurate picture of overall complaints performance. A combination of increased complaint data analysis supported by new software systems has helped Tata pursue this.

Tata Steel now has a dedicated complaints webpage and an electronic complaint form in place. This increases the available complaint reporting options and aims to improve the quality and consistency of complaint information. The community support specialist attached to Tata's Safety, Health & Environment (SHE) Team has led the development of the new electronic form. This has been harmonised with clearer distinction between complaints and 'claims'; the latter situation is where an individual expects or desires some form of recompense from Tata Steel because of perceived environmental impact from the steelworks.

Other improvements which were evident included:

- Regular steelworks complaint feedback to NRW (monthly sheets)
- Consistent and transparent liaison with elected community representatives
- Clear complaint metrics and KPIs displayed in the SHE Team's main meeting room, which is used for Daily and Weekly Stand-Up Meetings (DSUMs and WESUMs)
- A new quarterly newsletter for neighbouring communities
- An 'improving our environment' infographic on Tata's webpage
- Community engagement (Tea & Talk) sessions advertised at various locations in Port Talbot, Taibach and Margam

The Tea & Talk sessions have been introduced to reach out to concerned members of the community who may prefer face-to-face interaction rather than email or telephone. The sessions will be kept under review to ensure their format, location and timing are as accessible and effective as possible.

Since 2018, Tata has increased the resources available to deal with steelworks environmental complaint handling and community engagement. It is clear to the regulator that this additional resource has helped the SHE Team and continues to make a positive difference.

Environmental Incident Form (EIF) reporting

The SHE Team has been promoting greater harmonisation and more proactive EIF reporting across the steelworks. Permit breaches and elevated emissions are now EIF reporting criteria for all works areas.

Tata uses a standard EIF form at present but aims to move to an 'intranet' style system. Moving to a new system could present opportunities to develop stronger links with Tata's Process Safety Teams, for example when reporting an EIF in response to a leak or loss of containment. Setting agreed EIF reporting parameters for both safety and environment could potentially improve overall EIF reporting in terms of quality and consistency across the steelworks.

Continuous steelworks noise

NRW and Tata Steel are aware of ongoing complaints about continuous droning noise perceived to be from the steelworks. The Sinter Plant and specifically the sinter cooler fans have been identified as a potential noise source.

At the time of inspection, Tata Steel was planning a major sinter plant maintenance stop which presented an opportunity to fit new silencers to the sinter cooler fans. Two out of five silencers had already been installed.

At the time of writing, two further fan silencers have been installed (four in total). This specific matter has been covered in more detail within **CAR_NRW0035750** and **CAR_NRW0035822**.

Improvement Condition (IC) 17: BOS Off-gas Superheater

This IC requires:

IC17	The Operator shall conduct an assessment of potential options to safely achieve sampling of the exhaust from the BOS Off-gas Superheater (emission point A66). . The assessment shall be submitted for approval by NRW in the form of a written report.	31/12/2018
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Tata Steel has already responded to this IC by the specified deadline. Tata's report concludes that:

- The superheater is likely to be 'in-scope' in terms of the requirements set by the EC Medium Combustion Plant Directive (MCPD) for existing medium combustion plant.
- The rated thermal input capacity of the superheater is >5MW (NRW understands it to be 9MWth).
- Periodic (spot) sampling is not viable or safe at emission point A66 because the risk of harm to sampling personnel from sudden releases of high-pressure, superheated steam cannot be adequately controlled.
- The fuels used by the superheater are natural gas and/or blast furnace gas, which are understood to contain very low levels of sulphur.
- It is possible to fit a Continuous Emission Monitoring System (CEMS) to negate the steam (sampling) risk highlighted above.

To satisfy the MPCD requirements, Tata Steel proposes to install a CEMS to continuously monitor NO_x and will use a calculated method for SO₂ emissions from A66.

Annex II Table 2 of the MCPD outlines the following emission limit values for existing plant (other than engines and gas turbines) with a rated thermal input >5MW:

Table 2

Emission limit values (mg/Nm³) for existing medium combustion plants with a rated thermal input greater than 5 MW, other than engines and gas turbines

Pollutant	Solid biomass	Other solid fuels	Gas oil	Liquid fuels other than gas oil	Natural gas	Gaseous fuels other than natural gas
SO ₂	200 ⁽¹⁾ ⁽²⁾	400 ⁽³⁾	—	350 ⁽⁴⁾	—	35 ⁽⁵⁾ ⁽⁶⁾
NO _x	650	650	200	650	200	250
Dust	30 ⁽⁷⁾	30 ⁽⁷⁾	—	30	—	—

⁽¹⁾ The value does not apply in the case of plants firing exclusively woody solid biomass.

⁽²⁾ 300 mg/Nm³ in the case of plants firing straw.

⁽³⁾ 1 100 mg/Nm³ in the case of plants with a rated thermal input greater than 5 MW and less than or equal to 20 MW.

⁽⁴⁾ Until 1 January 2030, 850 mg/Nm³ in the case of plants with a rated thermal input greater than 5 MW and less than or equal to 20 MW firing heavy fuel oil.

⁽⁵⁾ 400 mg/Nm³ in the case of low calorific gases from coke ovens, and 200 mg/Nm³ in the case of low calorific gases from blast furnaces, in the iron and steel industry.

⁽⁶⁾ 170 mg/Nm³ in the case of biogas.

⁽⁷⁾ 50 mg/Nm³ in the case of plants with a rated thermal input greater than 5 MW and less than or equal to 20 MW.

For the BOS Off-gas superheater, requirements to monitor sulphur dioxide (SO₂) and oxides of nitrogen (NO_x) are confirmed in Annex II. There is no applicable requirement to monitor particulates (dust).

Table 2 confirms:

- specific NO_x emission limits when burning natural gas (200mg/Nm³) and other gaseous fuels (250mg/Nm³);
- specific SO₂ emission limits which only apply when burning other gaseous fuels, including Coke Oven Gas (400mg/Nm³) and Blast Furnace Gas (200mg/Nm³).

The associated monitoring requirements are confirmed in Annex III of the MCPD. The operator should be aware of an additional requirement to monitor carbon monoxide (CO). Annex III also makes provision for 'other' procedures, which are verified and approved by the regulator, to determine SO₂ emissions.

Summary

IC17 has been satisfied based on Tata Steel's submission dated 21 December 2018.

Based on the operator's submission, and the requirements outlined in MCPD Annex II and Annex III, we are content with the proposed installation of a CEMS to monitor gaseous pollutants at A66. This CEMS should be capable of monitoring oxides of nitrogen (NO_x) as well as carbon monoxide (CO) in order to meet the MCPD requirements.

Action: Tata Steel to confirm in writing when a CEMS instrument capable of monitoring NO_x and CO has been fitted at A66.

In the case of CEMS, compliance with emission limit values for MCP should be assessed and averaging periods determined using the methodology and standards outlined in Annex V of the EC Industrial Emissions Directive (IED). This approach aligns with the daily, monthly and annual reference periods already adopted for Tata Steel's LCPs.

NRW can consider a calculated method for determining SO₂ emissions from A66. Such a method has already been agreed for Tata Steel's large combustion plant (LCP) during periods where CEMS are unavailable e.g. due to malfunction.

Action: Tata Steel to confirm the proposed (calculated) method for SO₂ in an email to the regulating officer.

NRW recognises that the MCPD does not prescribe an emission limit or monitoring requirement for particulates (dust) when burning natural gas or other gaseous fuels. Emission limits for SO₂ only apply when burning steelworks gases e.g. blast furnace gas.

Monitoring results for A66 should be reported to the regulator on a quarterly basis. An existing reporting form e.g. *Form LCPD CEM A62* or *Form LCPD CEMS SO₂ & NO_x* could be adapted to create an appropriate reporting format.

The MCPD defines transitional compliance periods for existing medium combustion plant. For permitted iron and steel installations, the requirements for existing MCPs will be formalised and inserted into the permit as part of the primary Iron & Steel (II) BRef/BATc review cycle. The MCPD represents the minimum environmental standards for this type of combustion plant; additional or more stringent monitoring requirements can be considered by the regulator if there is a local or case-specific justification for them e.g. local air quality management objectives.

Note that the MCPD requirements for *new* medium combustion plant are already in force and no transitional compliance period applies. Tata Steel should contact the regulating officer if it proposes to install any new combustion plant >1MWth.

Steelworks Air Quality Management Plan (AQMP): Revision 11

Tata Steel has reviewed its overarching steelworks AQMP to incorporate some improvements, links to other controlled documents and new ways of working. NRW has been consulted as part of this review.

Tata has also developed a Dry Weather Action Plan which supports the overarching AQMP. This includes additional actions to be taken by the operator to control potentially 'dusty' activities and processes during periods of dry and warm weather. Learning from Tata Steel's 'Dust Wave' initiatives which have been active during 2018/19 has been incorporated into the Dry Weather Action Plan.

NRW welcomes this development and we would like to see the Dry Weather Action Plan formalised within the steelworks AQMP, or clearly signposted as a controlled document which supports the AQMP. The current version should be presented to the regulator for review and comment.

Action: Tata Steel to present its Dry Weather Action Plan to NRW by 28 February 2020.

[END OF SECTION 2]

EPR Compliance Assessment Report

**Report ID:
CAR_NRW0036011**

This form will report compliance with your permit as determined by an NRW officer

Site	Port Talbot Steel Works	Permit Ref	BL7108IM
Operator/Permit holder	Tata Steel UK Limited	Date	06/06/2019

Section 3 – Enforcement Response

You must take immediate action to rectify any non-compliance and prevent repetition. Non-compliance with your permit conditions constitutes an offence and can result in criminal prosecutions and/or suspension or revocation of a permit. Please read the detailed assessment in Section 2 and the steps you need to take in Section 4 below.

Section 4 – Action(s)

This section summarises the actions identified during the assessment along with the timescales for when they will need to be completed.

Criteria Ref.	CCS Category	Action required/advised	Due Date
See Section 1 above			
C2	X	Tata Steel to present its Dry Weather Action Plan to NRW by 28 February 2020.	28/02/2020
G1	X	Tata Steel to confirm the proposed (calculated) method for SO ₂ in an email to the regulating officer.	28/02/2020
G1	X	Tata Steel to confirm in writing when a CEMS instrument capable of monitoring NO _x and CO has been fitted at A66.	28/02/2020

Section 5 – Compliance notes for the Operator

To ensure you correct actual or potential non-compliance we may

- Advise on corrective actions verbally or in writing
- Require you to take specific actions verbally or in writing
- Issue a notice
- Require you to review your procedures or management system
- Change some of the conditions of your permit
- Decide to undertake a full review of your permit

Any breach of a permit condition is an offence and we may take legal action against you

- We will normally provide advice and guidance to assist you to come back into compliance either after an offence is committed or where we consider that an offence is likely to be committed. This is without prejudice to any other enforcement response that we consider may be required.
- Enforcement action can include the issue of a formal caution, prosecution, the service of a notice and/or suspension or revocation of the permit.

See our Enforcement and Civil Sanctions guidance for further information

This report does not relieve the site operator of the responsibility to

- Ensure you comply with the conditions of the permit at all times and prevent pollution of the environment
- Ensure you comply with other legislative provisions which may apply

Non-compliance scores and categories

CCS category	Description	Score
C1	A non-compliance that could have a major environmental effect	60
C2	A non-compliance which could have a significant environmental effect	31
C3	A non-compliance which could have a minor environmental effect	4
C4	A non-compliance which has no potential environmental effect	0.1

Operational Risk Appraisal (Opra) - Compliance assessment findings may affect your Opra score and/or your charges. This score influences the resource we use to assess permit compliance.

Section 6 – General information

Data protection notice

The information on this form will be processed by the Natural Resources Wales (NRW) to fulfil its regulatory and monitoring functions and to maintain the relevant public register(s). The NRW may also use and/or disclose it in connection with:

- Offering/providing you with its literature/services relating to environmental matters
- Consulting with the public, public bodies and other organisations (eg. 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 its service
- Freedom of Information Act/Environmental Regulations request

The NRW may pass it on to its agents/representatives to do these things on its behalf. You should ensure that any persons named on this form are informed of the contents of this data protection notice.

Disclosure of information

The NRW will provide a copy of this report to the public register(s). However, if you consider that any information contained in this report should not be released to the public register(s) on the grounds of commercial confidentiality, you must write to your local area office within fifteen working days of receipt of this form indicating which information it concerns and why it should not be released, giving your reasons in full.

Customer charter

What can I do if I disagree with this compliance assessment report?

If you are unable to resolve the issue with your site officer, you should firstly discuss the matter with officer's line managers using the informal appeals procedure. If you wish to raise your dispute further through our official Complaints and Commendations procedure, phone our general enquiry number 0300 065 3000 (Mon to Fri 08.00 – 18.00) and ask for the Customer Contact team or send an email to enquiries@naturalresourceswales.gov.uk. If you are still dissatisfied you can make a complaint to the Public Services Ombudsman for Wales. For advice on how to complain to the Ombudsman phone their helpline on 0845 607 0987.

Welsh Language

If you would like this form in Welsh please contact your Regulatory Officer.