

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

Site	Tata Steel Port Talbot steelworks	Permit Ref	BL7108IM (as amended)
Operator/ Permit holder	Tata Steel UK Ltd		
Date	13 February 2015	Time in	09.30 Out 12.30
What parts of the permit were assessed	2014 NERP Verification		
Assessment	EPR - inspection	EPR Activity:	Installation X Waste Op Water Discharge
Recipient's name/position	Jason Heatman, Lead Environmental Engineer, Tata Steel Port Talbot		
Officers names	DMP Broom & DE Cowie	Date issued	21 May 2015

Section 1 - Compliance Assessment Summary

This is based on the requirements of the permit under the Environmental Permitting Regulations. A detailed explanation and any action you may need to take are given in the "Detailed Assessment of Compliance" (section 3). 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

Condition(s) breached

a) Permitted activities	1. Specified by permit	N	
b) Infrastructure	1. Engineering for prevention & control of pollution	N	
	2. Closure & decommissioning	N	
	3. Site drainage engineering (clean & foul)	N	
	4. Containment of stored materials	N	
	5. Plant and equipment	A	
c) General management	1. Staff competency/ training	N	
	2. Management system & operating procedures	C3	2.1.1 Management Techniques
	3. Materials acceptance	N	
	4. Storage handling, labelling, segregation	N	
d) Incident management	1. Site security	N	
	2. Accident, emergency & incident planning	N	
e) Emissions	1. Air	A	
	2. Land & Groundwater	N	
	3. Surface water	N	
	4. Sewer	N	
	5. Waste	N	
f) Amenity	1. Odour	N	
	2. Noise	N	
	3. Dust/fibres/particulates	N	
	4. Pests, birds & scavengers	N	
	5. Deposits on road	N	
g) Monitoring and records, maintenance and reporting	1. Monitoring of emissions & environment	A	
	2. Records of activity, site diary, journal & events	A	
	3. Maintenance records	N	
	4. Reporting & notification	C3	2.10.8 LCP CEMS invalidation
h) Resource efficiency	1. Efficient use of raw materials	N	
	2. Energy	N	

KEY: C1, C2, C3, C4 = CCS breach category (* suspended scores are marked with an asterisk),
A = Assessed or assessed in part (no evidence of non-compliance), N = Not assessed, NA = Not Applicable

Number of breaches recorded	2	Total compliance score (see section 5 for scoring scheme)	8
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If the Total No Breaches is greater than zero, then please see Section 3 for details of 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 (e.g. 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 suspended or consolidated scores.
- details of advice given
- any other areas of concern
- all actions requested
- any examples of good practice.
- a reference to photos taken

Site description

Tata Steel UK Ltd (Tata) 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). The steelworks has several identifiable permitted 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). The permit also covers coke making and the reception, stockpiling and blending of raw iron making materials. Two other companies, Cambrian Stone and Harsco, undertake separately-permitted slag handling and iron plating activities at the steelworks on Tata's behalf.

Purpose of visit/assessment

The UK operates a National Emissions Reduction Plan (NERP) for certain combustion plant. This plan covers the releases of sulphur dioxide (SO₂), oxides of nitrogen (NO_x) and particulate releases from qualifying plant. The purpose of this intervention was to review the operator's 2014 NERP data and the systems used at Port Talbot steelworks and to verify the submissions, if appropriate.

Person(s) present (Office based)

Tata Steel Richard Leonard
Sean Langstone

NRW Mark Broom
Doug Cowie

Each year the Environmental Regulator is required to verify the NERP submissions prior to trading (NERP Verification).

There are four large combustion plant (LCP) at Port Talbot steelworks that are within the NERP scheme and one boiler that is not (Boiler 3 - A62). A range of fuels are used to fire these boilers e.g. Heavy Fuel Oil (HFO), Blast Furnace Gas (BFG), Coke Oven Gas (COG), Natural Gas (NG) and now Basic Oxygen Steelmaking (BOS) gas. All the Continuous Emission Monitoring Systems (CEMS) in operation on these boiler plants are MCERTS* approved. Tata has entered all its plant into the Industrial Emissions Directive (IED) Transitional National Plan (TNP) that will replace the NERP from 1 January 2016.

LCP	NERP reference	PPC release point	Size (MWth)	BFG	COG	HFO	BOS	NG	CEMS parts	CEMS SO ₂	CEMS NO _x
Boiler 6&7	61	A52	268	✓	✓	✓	✓	✓	✓	✓	✓
Mitchell boiler	59	A53	81	✓	✓	✓	x	✓	✓	x	x
Boiler A5	60	A51	50	✓	✓	✓	✓	✓	✓	x	x
Service boilers	58	A50	114	✓	✓	✓	x	✓	✓	✓	✓

LCP	NERP reference	PPC release point	Size (MWth)	BFG	COG	HFO	BOS	NG	CEMS parts	CEMS SO ₂	CEMS NO _x
Boiler 3	Not in NERP	A62	70	✓	x	x	✓	✓	✓	✓	✓

Jason Heatman is the nominated site officer for the NERP returns with Bob Lewis (Corporate Emissions Trading Manager, Tata Steel UK Ltd) as the company's UK wide coordinator for NERP alongside his role managing EU ETS**.

Tata has put its PCME dust monitoring systems through QAL2 testing and the Mitchell Boiler and Boiler A5 have passed. The Service Boilers, Boiler 3 and Boilers 6 & 7 are due for QAL2 testing this year. In mid-2014 Tata had problems with its CODEL SO₂ and NO_x monitors. According to Tata's data invalidation logs, the monitors for A52A (Boiler 6) and A52B (Boiler 7) have exceeded 10 invalid days in 2014. Permit condition 2.10.8 requires the regulator to be notified within 28 days of finding more than 10 invalid days in any year of operation and also to submit a plan for returning to compliance. This plan has not submitted

within this timescale and has attracted one Compliance Classification System*** (CCS) Category 3 score (CCS reference 235926). We have also noted an associated failure of the operator's Environmental Management System (EMS) {condition 2.1.1} in relation to this failure to submit a plan. An additional CCS Category 3 score has been recorded under CCS reference 235926 for non-compliance with condition 2.1.1. We have also issued the operator with a **Warning** as a similar problem was found in 2012 (see CAR 5068, 28/1/2013). We note Tata has subsequently submitted the relevant plan to NRW on 17 February 2015.

Boiler 3 is on 'low duty' and is operating acceptably. Following operator intervention Boiler 7 is now responding and working; however the CEMs for the Service Boilers have had response problems that could be related to water vapour interference; and the CEM serving Boiler 6 is not working properly – CODEL are due to replace the monitor head w/c 16/02/2015. During these periods of CEMs problems, Tata has used – as it has done with similar previous CEMs problems – the sulphur content of the fuels and NO_x factors to calculate their mass releases. The apparently poor performance of the CODEL monitors has proved challenging and the response from CODEL's operatives has not met Tata's expectations. Tata may have to consider using other CEMs and/or CEMs maintenance contractors to improve the performance of its LCP CEMs.

Tata thinks it may have a problem complying with the new IED emission limits (post-2020) for the Service Boilers when they run on the combination of HFO and COG. There is a relaxation in IED Chapter 3 – see [Article 30 paragraph 6](#) which allows temporary derogations for gas-only combustion plants to burn other fuels for up to 10 days without abatement. Tata needs to review its use of HFO and the potential impact on its operations in the post-TNP period when it will run its LCP on HFO and desulphurised COG to ensure that it can comply with the multi-fuelled Emission Limit Values (ELVs) calculated according to IED Article 40 paragraph 1. It may be particularly useful to review fuel usage in relation to situations where BFG is not available as the primary fuel.

Tata Port Talbot's monitoring team have restarted Annual Surveillance Testing (AST) on the combustion plant now that they have been accredited to ISO 14181 – certificate 035 dated 18 December 2014.

During our NERP verification, the annual SO₂ tonnage returns did not match the submitted data. Tata has however found a difference in the two data sets due to the problems with its LCP CEMs. Tata needs to consider having a formal 'sign off' process or procedure in place, possibly led by the Combustion Management Works Area, before the quarterly tonnage data for Port Talbot steelworks is formally submitted to the regulator to ensure that such a problem does not recur.

Once this data has been reconciled and resubmitted, Tata's NERP returns for 2014 can be verified.

Conclusions and further actions required

1. Natural Resources Wales (NRW) to verify the existing plant NERP/LCP Forms for the relevant combustion processes based on the information presented and once Tata has reconciled and re-submitted its SO₂ tonnage data.
2. Tata needs to review the actions required by its permit when an LCP CEM accumulates more than 10 invalid days during any year of operation.
3. Tata to fully investigate the problems with the CODEL monitors and report back to NRW.
4. Tata to consider having a final check by the combustion area before final submission of the quarterly tonnage data.

[END OF SECTION 2]

**MCERTS is the Environment Agency's Monitoring Certification Scheme. It provides the framework for businesses to meet the regulator's quality requirements. If businesses can comply with MCERTS it provides the regulator with confidence in the monitoring of emissions to the environment. MCERTS is used to approve instruments, people and laboratories.*

***The EU Emissions Trading System (EU ETS) is the largest greenhouse gas emissions trading system in the world covering many different business sectors. These include oil refineries, offshore platforms and industries that produce iron and steel, cement and lime, paper, glass, ceramics and chemicals.*

****Natural Resources Wales currently applies the same regulatory tools and systems as the Environment Agency.*

	EPR Compliance Assessment Report	Report ID: 05833	
This form will report non-compliance with your permit as determined by an NRW officer			
Site	Tata Steel Port Talbot steelworks	Permit	BL7108IM (as amended)
Operator/ Permit	Tata Steel UK Ltd	Date	21 May 2015

Section 3- Enforcement Response		Only one of the boxes below should be ticked
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.		
Other than the provision of advice and guidance, at present we do not intend to take further enforcement action in respect of the non-compliance identified above. This does not preclude us from taking enforcement action if further relevant information comes to light or advice isn't followed.	n/a	
In respect of the above non-compliance you have been issued with a warning. At present we do not intend to take further enforcement action. This does not preclude us from taking additional enforcement action if further relevant information comes to light or offences continue.	✓	
We will now consider what enforcement action is appropriate and notify you, referencing this form.	n/a	

Section 4- Action(s)			
Where a non - compliance has been detected and an enforcement response has been selected above, this section summarises the steps you need to take to return to compliance and also provides timescales for this to be done.			
Criteria Ref.	CCS Category	Action Required/Advised	Due Date
See Section 1 above			
G4	N/A	Action 1: Natural Resources Wales (NRW) to verify the existing plant NERP/LCP Forms for the relevant combustion processes based on the information presented and once Tata has reconciled and re-submitted its SO2 tonnage data.	ASAP
G4, C2	C3	Action 2: Tata needs to review the actions required by its permit when an LCP CEM accumulates more than 10 invalid days during any year of operation.	Ongoing; monitor invalidation logs during 2015
G1	N/A	Action 3: Tata to fully investigate the problems with the CODEL monitors and report back to NRW.	30/7/2015 or otherwise agreed with the Regulator
G4	N/A	Recommendation: Tata to consider having a final check by the combustion area before final submission of the quarterly tonnage data.	N/A

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 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 which 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 Natural Resources Wales (NRW) to fulfill its regulatory and monitoring functions and to maintain the relevant public register(s). 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 (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 and taking any resulting action
- preventing breaches of environmental law
- assessing customer service satisfaction and improving its service
- Freedom of Information Act/Environmental Information Regulations request.

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

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 twenty 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 the officer's line managers. 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) 601 0987**.