

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

Site	Shotton Works EPR/BR7321IK/V006		Permit Ref	BR7321IK		
Operator/ Permit holder	Tata Steel UK Limited					
Date	09/07/2015		Time in	09:40	Out	16:00
What parts of the permit were assessed	Full Site Inspection					
Assessment	Site Inspection	EPR Activity:	Installation	X	Waste Op	Water Discharge
Recipient's name/position	Peter Shephard					
Officer's name	Matthew Kelk, Ian Oakes (NRW), Sean Bembridge (HSE)		Date issued	29/07/2015		

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	A	
b) Infrastructure	1. Engineering for prevention & control of pollution	A	
	2. Closure & decommissioning	N	
	3. Site drainage engineering (clean & foul)	N	
	4. Containment of stored materials	A	
	5. Plant and equipment	A	
c) General management	1. Staff competency/ training	N	
	2. Management system & operating procedures	N	
	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	A	
	4. Sewer	N	
	5. Waste	N	
f) Amenity	1. Odour	A	
	2. Noise	A	
	3. Dust/fibres/particulates	A	
	4. Pests, birds & scavengers	A	
	5. Deposits on road	A	
g) Monitoring and records, maintenance and reporting	1. Monitoring of emissions & environment	N	
	2. Records of activity, site diary, journal & events	N	
	3. Maintenance records	N	
	4. Reporting & notification	N	
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 (no evidence of non-compliance), N = Not assessed, NA = Not Applicable, 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 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

This report should be clear, comprehensive, unambiguous and normally completed within 14 days of an assessment.

In this document 'Natural Resources Wales' means the Natural Resources Body for Wales established by Article 3 of the Natural Resources Body for Wales (Establishment) Order 2012.

On the 9 July 2015 an inspection of Shotton Works was carried out by NRW Officers, Matthew Kelk (lead regulatory officer) and Ian Oakes (Technical Specialist, Industry Regulation). Accompanying NRW was Sean Bembridge from the Health and Safety Executive (HSE) on a familiarisation visit.

Several issues were discussed prior to a full site inspection of the Galvanisation and Paint Lines.

1. Effluent Treatment Plant (ETP)

The current ETP process uses sulphuric acid and lime, creating a by-product gypsum, this has caused operational issues as this cannot be disposed of at the onsite landfill. As a consequence Tata are to fit a new efficient ETP plant which uses Sulphuric acid, Ferric Chloride, Sodium Hydroxide and a flocculating agent which produces minimal sludge.

Currently trials are being carried out with a pilot effluent treatment plant which is being run alongside the current ETP which was commissioned in June 2015. NRW have given permission for this trial to run for 6 months with a possible extension dependant on the ETP trial. Tata will need to apply for further extension when the current permission expires on 12 November 2015.

Historically due to legacy body policy the current ETP was included as a directly associated activity to the galvanisation and coating activities authorised under permit BR7321IK. Under Industrial Emission Directive (IED) and consequently Environmental Permitting Regulations 2010 (as amended)(EPR Regulation), the treatment of waste using physico-chemical methods is a listed activity under section 5.4 schedule 1 of EPR Regulations, See excerpt from regs below:-

Section 5.4 - Disposal, recovery or a mix of disposal and recovery of non-hazardous waste

Part A(1)

*(a) Disposal of non hazardous waste with a capacity exceeding 50 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving one or more of the following activities, and excluding activities covered by Council Directive 91/271/EEC concerning urban waste-water treatment-
(ii) physico-chemical treatment.*

Action

Tata to confirm by 29 August 2015 average volume of waste being treated through ETP on a daily basis. If this exceeds the daily 50 tonne limit then the effluent treatment plant will become a listed activity.

Following cessation of the trial pilot effluent plant project, the plant will be up scaled to full scale. Prior to this becoming operational Tata will need to apply for a variation to permit BR7321IK. If treatment volumes are over the aforementioned threshold Tata will need to include the ETP as a listed activity within the variation.

The new effluent treatment plant will need to meet Best Available Technique (BAT) in accordance with the following BREF document - Common Waste Water and Waste Gas Treatment/Management Systems in the Chemical Sector. It should be noted that the current edition is under review (as of July 2014 and the updated version is available on the IPPC Bureau website under BAT reference notes). Any new plant will need to meet BAT published in the new BREF.

Proposals have been put forward to install a dissolved air flotation (DAF) system to the galvanising lines, this will need to be discussed with NRW before this becomes operational and may include a variation to your environmental permit.

Action

Tata to provide a timeline for the testing of the pilot plant and the installation of the new plant to NRW by 29 August 2015.

2. Tern Lagoons

Water is used to cool down (quench) the steel coils on the galvanising lines. Post quench the water is directed to the tern lagoons on site. Tata propose to install a cooling tower to allow recirculation of this process water. Unfortunately as a consequence of this water levels would drop in the Tern Lagoon habitat. Tata have been investigating further sources of water, primarily the broken bank drain, where Tata's ETP discharges so that this can be added to the tern lagoon to allow the cooling tower project to go ahead.

Following discussions with NRW, Tata have been carrying out a baseline study to establish the chemical quality of the tern lagoons. Furthermore the study also includes testing of the broken bank drain to establish the viability of feeding water from the broken bank drain to the tern lagoons.

Initial results from the study show that if water was fed from the broken bank drain to the tern lagoons there would be a detriment in terms of chemical oxygen demand (COD). Tata are currently completing the first phase of testing, upon completion Tata to send chemical testing results to NRW for review.

It was discussed during the meeting that the pilot ETP plant will hopefully be able to achieve lower discharge limits than the current plant. When the pilot plant is up scaled to full size, the broken bank drain may be of a suitable quality to discharge to the tern lagoons.

Action

NRW request that an options appraisal is forwarded for the cooling tower/tern lagoons project to indicate all viable options if the broken bank drain is not an option by 29 August 2015

3. Chrome Free Project

New passivation tank and associated equipment on galv 6 under construction, Tata plans this to be operational in Autumn 2015. Chrome free product is already being used on galv 5 line, Tata are able to switch to chromic acid depending on customer specification. Chromic acid baths emissions are chemically scrubbed prior to exhausting to atmosphere. Tata have carried out air emissions testing on the chrome free product being used on galv 5 and in agreement with NRW (letter 13/05/2015) the new passivation line on galv 6 will not need to abate air emissions from this part of the process.

Chromic Acid chemcoater is currently still in use on paint coating lines, Tata have been working with paint manufacturers with regards to alternatives.

Action

Tata to provide NRW with a quarterly update on the progress of moving towards chromic acid free on the coating lines

4. Topics raised for the COMAH Interventions Manager (CIM):

a). The COMAH Interventions carried out by the Operator over recent years (and future iterations) include a number of themes, examples being the: development of inspection regimes, updating drawings, identification and labelling of valves, inspection of underground PE coated pipework, pressure testing of natural gas pipelines, categorisation of and the isolation for entry into confined spaces, minimisation of fuel oil storage and the inspection of tanks, degradation (aging plant) mechanisms to be incorporated into inspections, tank design for containment of hazardous substances and the optimisation of steam raising capacity. The CIM is to review actions with respect to intervention requirements.

b). The future classification of chromic acid (substance of very high concern, sunset date September 2017) under the EU Regulation on Classification, Labelling and Packaging of Chemicals and the implications for regulation under

COMAH Seveso III (lower Tier versus Upper Tier) were discussed. The CIM is to provide advice and guidance as required.

Advice and Guidance

Whilst inspecting the coating line an IBC of alkali solution was noted on a platform several metres above bunding. NRW question as to whether this would be able to capture leakage.

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Section 3- Enforcement Response **Only one of the boxes below should be ticked**

<p>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.</p>	
<p>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.</p>	X
<p>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.</p>	
<p>We will now consider what enforcement action is appropriate and notify you, referencing this form.</p>	

Section 4- Action(s)

Where 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			

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 the Natural Resources Wales (NRW) to fulfill 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 (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.

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 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 607 0987.