

Compliance Assessment Report CAR_NRW0036867

Permit being assessed: TP3639BH.

For: Tremorfa Melt Shop , held by Celsa Manufacturing UK Ltd

At: Tremorfa Works New Melt Shop Seawall Road , Tremorfa, Cardiff, South Wales, CF24 5TH.

Type of assessment carried out: Report/Data Review, Reason: Other.

On 14/08/2020.

Parts of permit assessed: 3.1.2

NRW Lead Officer: Richard Taylor.

Report sent to: Richard Lewis, Environment Officer on 14/08/2020.

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

Part of permitted activity assessed (criteria)	Assessment result	Permit condition
E1 - Emissions - Air	C3 Minor	3.1.2

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

Total number of non-compliances recorded	Total non-compliance score
1	4

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
E1	return to under compliance limit	31/08/2020

Action 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.

You are non-compliant with your permit.

We are currently considering taking enforcement action against you for the non-compliance recorded above. We will contact you in due course.

4. Details of our assessment

Celsa Manufacturing (UK) Limited hold an environment permit TP3639BH for their Tremorfa meltshop.

On 9th April, 2020 the site reported a breach of their limits for Dioxins to air with a reading of

0.6ng/m³ against a permitted maximum of 0.1ng/m³. The measurement was taken during their annual monitoring on 14th Feb 2020 from a single point source (A1). All furnace generated gases go through this point after abatement processes have occurred.

EA guidance 'dealing with dioxins' was followed where Public Health Wales was informed on 17th Apr 2020 of the breach of dioxin limits. The site were also asked to carry out a Human Health Impact assessment according to the guidance.

NRW AQMRAT team assessed the report provided by Celsa and have now come to a decision regarding the report. Although the figures reached during the cross check were slightly more than Celsa's figures, they were found to be under the Committee of Toxicity (COT) Tolerable Daily Intake (TDI) limit of 2pg WHO-TEQ/kg/day in-line with guidance.

The Celsa report concludes that for the Adult Hypothetical Maximum Exposed Individual (HMEI), exposure to PCDDs/Fs was not significant. The "base scenario" was calculated to be 42.6% of the COT TDI, with a range of 12.5% and 42.9% of the COT TDI. NRW AQMRAT checks with the Environment Agency Human Health Risk Assessment tool broadly agree with Celsa's conclusions, our checks result in higher values than presented in the report, however, the impact is still below 100% of the COT TDI.

Our calculated maximum ground level concentration values are slightly higher than those predicted by the Celsa report which followed the HMIP methodology to calculate the dioxin impact. We verified and cross checked the values and inputs used by Celsa and using the same HMIP methodology and conclude that predicted values are found to be below 100% of the COT TDI.

Therefore, Celsa has been found to be within the limits for the Human Health impact assessment for its excess dioxin release. However, the permit limit was still breached, and carried a minor environmental effect. This has been given a Cat 3 permit breach against permit condition 3.1.2.

Result – 1x Cat 3 breach of permit condition 3.1.2 for 0.6ng/m³ against a permitted maximum of 0.1ng/m³ from a measurement from 14th Feb 2020.

Following EA guidance, no further immediate enforcement action will be taken for this exceedance. However, the root cause must be addressed which is aimed at initial dioxins formulation in the steel making process. Celsa has subsequently drawn up a 4 point approach which is being implemented;

- Management of EAF temperature to prevent dioxin formation.
- Further modifications to operational parameters controlling temperature regulation.
- Re-tests (May 19th produced a figure of 0.099ng/m³).
- Deploying activated carbon injection to reduce dioxin formation.

Further evaluation of coming results will determine the success level of the measures in place. This CAR is issued with a warning that we are committed to following applicable guidance for dioxin exceedances which may involve future enforcement action.

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 only relating to the activity assessment
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.

What are suspended scores?

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 and Waste action criteria (used in section 1 and 2):**A: Permitted activities**

- A1 Specified by permit

B: Infrastructure

- B1 Infrastructure – Engineering for prevention and control of emissions
- B2 Infrastructure – Closure and decommissioning
- B3 Infrastructure – Site drainage engineering (clean and foul)
- B4 Infrastructure – Containment of stored materials
- B5 Infrastructure – Plant and equipment

C: General management

- C1 General management – Staff competency/training
- C2 General management – Management system and operating procedures
- C3 General management – Materials acceptance
- C4 General management – Storage, handling, labelling and segregation

D: Incident management

- D1 Incident management – Site security
- D2 Incident management – Accidents, emergency and incident planning

E: Emissions

- E1 Emissions – Air
- E2 Emissions – Land and groundwater
- E3 Emissions – Surface water
- E4 Emissions – Sewer
- E5 Emissions – Waste

F: Amenity

- F1 Amenity – Odour
- F2 Amenity – Noise
- F3 Amenity – Dust/fibres/particulates and litter
- F4 Amenity – Pests/birds and scavengers
- F5 Amenity – Deposits on road

G: Monitoring and records, maintenance and reporting

- G1 Monitoring and records, maintenance and reporting – Monitoring of emissions and environment
- G2 Monitoring and records, maintenance and reporting – Records of activity, site diary/journal/events
- G3 Monitoring and records, maintenance and reporting – Maintenance records
- G4 Monitoring and records, maintenance and reporting – Reporting and notification to Natural Resources Wales

H: Resources efficiency

- H1 Resource efficiency – Efficient use of raw materials
- H2 Resource efficiency – Energy efficiency

Enforcement response

Any permit condition non-compliance 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 20 working days to let you know if we agree to your request.

What do I do if I disagree with the report or have a complaint?

If you disagree with this compliance assessment report, you should contact the lead officer without delay to discuss your concerns.

If you are unable to resolve the issue with the lead officer or their line manager you should contact our Customer Contact team on 0300 065 3000 (Monday to Friday 08:00 – 18:00), or email enquiries@naturalresourceswales.gov.uk for details of how to raise your dispute further through our Complaints and Commendations procedure.

If you are dissatisfied with our response, you can contact the Public Services Ombudsman for Wales by phone on 0300 7900203 or by email at 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.