

Compliance Assessment Report

Report ID:
CAR_NRW0033890

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

Site	Pont-y-Felin EPR/BR8212IK	Permit Ref	BR8212IK		
Operator/Permit holder	Knauf Insulation Ltd				
Regime	Installations				
Date of assessment	31/08/2018	Time in	N/A	Out	N/A
Assessment type	Report/Data Review				
Parts of the permit assessed	Furnace Rebuild - Air Quality Monitoring				
Lead officer's name	Griffiths, David				
Accompanied by					
Recipient's name/position	Warren Christy/ EHS Manager	Date issued	05/09/2018		

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
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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

Project Title: Review of Technical Note: Additional Information Request (EPR/BR8212IK) - Further to your response to NRW on the 15th June 2018 and additional modelling Files on 30th July 2018

1 Introduction 1.1 NRW's Air Quality Modelling and Risk Assessment Team (AQMRAT) were tasked by NRW's Industry & Waste Regulation Team to review Technical Note 18188i1 submitted by Wood Environment & Infrastructure Solutions UK Limited¹ in response to AQMRAT's report C305_WD01².

1.2 The submitted Technical Note provided additional information in response to the comments detailed in Section 2 of AQMRAT's report C305_WD01.

Conclusion 2

2.1 The response stated that the proposed new fan specification would generate a smaller volumetric flow than existing fans and therefore final total volume flow could not be calculated pro-rata based on the ratio of existing flow to the number of current fans. This resolves any issues raised by paragraph 2.1 in Section 2 of AQMRAT's report C305_WD01.

2.2 The response does not adequately resolve the issue raised by paragraph 2.2 in Section 2 of AQMRAT's report C305_WD01. Whilst our Permitting Team have provided modelling and supplementary files from 2006 to AQMRAT, it is unknown whether these were originally submitted in support of the original permit application. Emission parameters in these modelling input files do not correspond with those in the current report for forming, furnace and white wool stacks.

ACTION Knauf

2.3 The response does not adequately resolve the issue raised by paragraph 2.3 in Section 2 of AQMRAT's report C305_WD01. Modelling input files from 2006 provided by the Permitting Team indicate that there is an emission of NO_x from the furnace stack which has not been considered in the most recent submission. **ACTION Knauf**

2.4 The response does not adequately resolve the issue raised by paragraph 2.4 in Section 2 of AQMRAT's report C305_WD01. The submitted response states that O₂ & moisture are not required as reference conditions are STP only except for the furnace stack which is STP dry. Whilst you have not provided a moisture figure for the furnace stack, back calculation requires a value of ~3 vol% for Scenario 1 and an increase to 4.5 vol% for Scenario 2. Files associated with previous modelling submissions provided by the Permitting Team indicate a water vapour mixing ratio of 0.0364 kg/kg for the forming stack which equates to ~5.5 vol%. Is there an explanation for the variation in moisture content between scenarios and relative to the original value based on the provided mixing ratio? **ACTION Knauf**

2.5 The response does not adequately resolve the issue raised by paragraph 2.5 in Section 2 of AQMRAT's report C305_WD01. The submitted response states that a sensitivity analysis has been undertaken on the Rhoose data against on-site data which was reviewed by AQMAU. We have no details of the scope of this sensitivity analysis and cannot therefore respond to the

suitability of this investigation. Your consultant should clarify why Rhose data was used if on-site data is available or confirm that on-site data is no longer available. In addition, the AQMAU report for the Pont-y-felin site in Cwmbran (ref.: AQMAU/C347/Rp01) concluded that Rhose Met Data was not appropriate. **ACTION Knauf**

2.6 The response does not adequately resolve the issue raised by paragraph 2.6 in Section 2 of AQMRAT's report C305_WD01. The submitted response states that the roughness value used is consistent with previous modelling studies and that it reflects "...the wooded areas to the east of the installation.". Following surface analysis of height between the forming stack and receptors R21, R22, R26, R37, R38 & R39 based on 2m lidar data (DTM subtracted from DSM), the original AQMRAT comment that the surface roughness of 1m may not be representative for the habitats site located at the East of the site remains valid. **ACTION Knauf**

2.7 The response does not adequately resolve the issue raised by paragraph 2.7 in Section 2 of AQMRAT's report C305_WD01. The submitted response states that modelling files have been provided with the response document. AQMRAT have not received these files and they were not included in the email received from the NRW Industry Regulation Team. Therefore our comment remains valid. **ACTION Knauf**

2.8 The response partially resolves the issue raised by paragraph 2.8 in Section 2 of AQMRAT's report C305_WD01. Whilst your consultant confirms that they had not identified this location as a possible receptor, they have stated that it will be included in all future assessments. They also confirm that the location has been "covered" by results from the grid and contour plots and contend that this receptor is not in an area which experiences the highest impact. However, you have not subsequently reported the predicted impact against relevant limits for the protection of human health at this location. **ACTION Knauf**

2.9 The response stated that the receptor location lies outside of the statutory 2km distance for consideration as a receptor for the size of the plant and as such was not deemed necessary for inclusion. This resolves any issues raised by paragraph 2.9 in Section 2 of AQMRAT's report C305_WD01.

2.10 The response partially resolves the issue raised by paragraph 2.10 in Section 2 of AQMRAT's report C305_WD01. The response details those assumptions made for the modelling which it considers "worst case" and include:

- 1 Lower emission temperature for the Furnace stack;
- 2 Use of terrain and building modules;
- 3 Reporting results from meteorological year with the highest predicted impacts at receptors;
- 4 Continuous operation throughout the year;
- 5 Use of meteorological data set which has previously been demonstrated to produce higher predicted impacts than on-site meteorological data.

While points 1, 3 & 4 may generally be considered to contribute to a "worst-case" scenario, point 2 would require screening prior to assumption that inclusion contributes to worst case. Similarly, point 5 would need to be screened against other meteorological data sets of the same year e.g. NWP, prior to assuming worst-case. See also paragraph 2.5 of this report. **ACTION Knauf**

2.11 The response stated that the ammonia concentration from APIS of 1.6 g/m³ was higher and therefore more conservative than the Ammonia Monitoring Network value of 1.2g/m³. This resolves any issues raised by paragraph 2.11 in Section 2 of AQMRAT's report C305_WD01.

2.12 The response includes a table indicating impacts for nutrient nitrogen deposition at ancient woodland sites against a suitable critical load for Acidophilous Quercus-dominated woodland.

This resolves any issues raised by paragraph 2.12 in Section 2 of AQMRAT's report C305_WD01.

2.13 The response does not adequately resolve the issue raised by paragraph 2.13 in Section 2 of AQMRAT's report C305_WD01. The submitted response states that no critical load data for acidity was available for the included features from APIS. However, APIS has the facility to query by location which would generate suitable critical loads for the selected habitat feature. Therefore, the submitted response is not a reasonable explanation for omitting the assessment of acid deposition at receptors. **ACTION Knauf**

1 Wood Environment & Infrastructure Solutions UK Limited, May 2018, "Technical Note: Additional Information Request (EPR/BR8212IK)", Ref.: Technical Note 18188i1

2 NRW Air Quality Modelling and Risk Assessment Team, 27th April 2018 "Knauf Air Quality Dispersion Modelling – Emissions from the new fan arrangement", Ref.: C305_WD01.

EPR Compliance Assessment Report

**Report ID:
CAR_NRW0033890**

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

Site	Pont-y-Felin EPR/BR8212IK	Permit Ref	BR8212IK
Operator/Permit holder	Knauf Insulation Ltd	Date	31/08/2018

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.

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.

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			

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.