

Compliance Assessment Report CAR_NRW0039235

Permit being assessed: BW9999IG.

For: Chirk Particleboard Factory, held by Kronospan Ltd

At: Chirk Particleboard Holyhead Road , Chirk, Wrexham, Clwyd, LL14 5NT.

Type of assessment carried out: Site Inspection, Reason: Routine.

On 12/11/2021 between 10:00 and 14:00.

Parts of permit assessed: Formaldehyde and Resin Plants

NRW Lead Officer: Ian Oakes, accompanied by Rebecca Harwood, Emma Pierce, Stuart Ross.

Report sent to: Keith Baker, EHS Manager on 03/02/2022.

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

Part of permitted activity assessed (criteria)	Assessment result	Permit condition
B4 - Infrastructure - Containment of stored materials	Assessed (A)	
B5 - Infrastructure - Plant and equipment	Assessed (A)	

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

Total number of non-compliances recorded	Total non-compliance score
0	0

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?

No action required.

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.

At this time, we do not intend to take any further action.

This statement does not stop us from taking additional enforcement action if further relevant information comes to light or offences continue.

4. Details of our assessment

Formaldehyde and Resin Plants site visit 12 November 2021 (subject to Covid 19 restrictions)

Four Industry Regulation officers visited Kronospan for the purposes of site familiarisation and

inspection of the Formaldehyde and Resin Plants. This included raw material storage, formaldehyde and resin manufacture, abatement of emissions to air, management of surface water and formaldehyde transfer for resin manufacture.

The two bunded methanol tanks are fitted with an external to tank water sprinkler system, which would envelope the tanks in the event of a fire and foam suppression.

The four formaldehyde tanks contain Formalin (53% formaldehyde in water), which readily polymerises therefore the tanks are agitated, heated and insulated. All associated formaldehyde transfer lines including transfer to the Resin Plant are insulated and trace heated. The formaldehyde transfer line to the Resin Plant replaces internal tanker transfers and is seen as a significant improvement.

The bunds provide 110% capacity and rainwater is tested prior to discharge. Continuing Formaldehyde Plant tertiary containment and drainage improvements were discussed (on-going COMAH consideration with respect to dangerous substances).

The two formaldehyde plants are of similar design and oxidise methanol in air using a catalyst and are standard for the chemical industry and operate to BAT (Best Available Techniques). The formaldehyde gas is absorbed in water in a column to produce Formalin. Emissions to atmosphere are abated via a catalytic oxidiser (emissions control system) to convert residuals to carbon dioxide and water released at permitted emission point A1.

The Heat Transfer Fluid is normally contained within the plant when operational and transferred to a separate tank when not.

The surface water / effluent storage tank is sampled and tested (permit limits) and if suitable discharged to the surface water lagoons then Afon Bradley at permitted emission point W1.

The Resin Plant manufactures a variety of urea - formaldehyde, urea - melamine - formaldehyde or melamine - formaldehyde resins for various board applications. The plant comprises four reactors two of 15m³ capacity (and a 15 m³ holding vessel) and two of 46m³ capacity, a 300 tonne urea silo, melamine handling, formaldehyde transfer line and suitably bunded, multiple resin storage tanks.

Emissions to air are abated by two wet scrubbers (shared with paper impregnation) and discharge at permitted emission points A5 and A6. The scrubbers are being considered for replacement subject to a permit variation.

Inspection of the Formaldehyde and Resin Plants did not result in any non-compliances.

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.