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# Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

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**Kronospan Limited**

**Chirk Particleboard Factory  
Holyhead Road  
Chirk  
Wrexham  
LL14 5NT**

Variation number

**EPR/BW9999IG/V011**

Permit number

**EPR/BW9999IG**

# Chirk Particleboard Factory

## Permit number EPR/BW9999IG

### Introductory note

**This introductory note does not form a part of the notice.**

The following notice gives notice of the variation and consolidation of an environmental permit.

This is a permit variation following the publication of the revised Best Available Techniques (BAT) Reference Document (BRef) for Waste Incineration. The associated BAT Conclusions to this document were published on 3 December 2019 in the Official Journal of the European Union.

Natural Resources Wales (NRW), are required to periodically review Environmental Permits by Regulation 34 of the Environmental Permitting Regulations (EPR) and under the terms of the Industrial Emissions Directive. This variation incorporates the changes required as a result of this statutory review. These include changes to emission limits and monitoring requirements where the plant falls directly within scope of the Waste Incineration BRef (K8) and indirectly as the most applicable BRef (K7) for consideration. We are satisfied that the operator will continue to implement Best Available Techniques (BAT) following the variation.

We have consolidated the permit through this review.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

#### Status log of the permit

Description	Date	Comments
Application BW9999IG (EPR/BW9999IG/A001)	Received 28/11/03	Duly made, Supersedes withdrawn application BR7194

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## Status log of the permit

Description	Date	Comments
Additional information via Schedule 4	Request dated 23/02/04	Response in part dated 19/04/04
Additional information via Schedule 4		Noise survey 21/05/04
Re-submission of Schedule 4 response	Request dated 26/05/04	Information received on 30/06/04
Permit determined BW9999IG (EPR/BW9999IG/A001)	17/09/04	
Variation notice KP3735SC. Issued (EPR/BW9999IG/V002)	05/04/06	Re-issue of conditions to account for administrative errors and to change emission limits values from the original permit
Variation application EPR/BW9999IG/V003	Duly Made 02/12/08	
Variation application EPR/BW9999IG/V003 issued	28/04/09	
Variation application EPR/BW9999IG/V004	Duly Made 18/05/10	
Variation application EPR/BW9999IG/V004 issued	22/08/10	
Variation application EPR/BW9999IG/V005	Duly Made 28/10/10	
Variation application EPR/BW9999IG/V005 issued	08/12/10	
Variation application EPR/BW9999IG/V006	Duly Made 05/01/16	
Variation application EPR/BW9999IG/V006 issued	01/02/16	
Variation application EPR/BW9999IG/V007	Duly Made 13/01/17	Substantial variation to include combustion plant
Additional information requested	08/03/17	Schedule 5 Notice
Additional information received	28/03/17	Updated site plan, clarification regarding release of trade effluent to sewer from combustion plant, gas engine emissions monitoring point assessment and additional information on the air quality assessment.
Additional information received	13/04/17	Information describing control of NO <sub>x</sub> and CO emissions from gas engines

## Status log of the permit

Description	Date	Comments
Additional information requested	19/05/17	Schedule 5 Notice
Additional information received	26/05/17 & 09/06/17	Updated site plan, clarification regarding release of trade effluent to sewer from combustion plant, gas engine tuning settings, updating modelling for K7 at 6% O <sub>2</sub> reference oxygen content, & predicted impacts associated with half-hourly and daily NO <sub>x</sub> ELVs, when all dryers are offline. Also, predicted NO <sub>x</sub> PCs and PECs at ecological receptors under "Limits Case".
Additional information requested	03/07/17	Email to: R.Flavell (Fichtner) (cc; K Baker, Kronospan)
Additional information requested	05/07/17	Email to: R.Flavell (Fichtner) (cc; K Baker, Kronospan)
Additional information received	12/07/17	Updated PCs and PECs for the "Limits Case" ecological assessment, following under-estimation for some modelling scenarios. Assessment of predicted impact on European Sites for Nutrient Nitrogen and Acid Deposition. Provision of modelling assessment for Berwyn SPA.
Additional information received	26/07/17	Revised acid deposition predictions for woodland habitats following error in previous calculations. Clarification on predicted releases from site when K7 and K8 are offline compared with releases when MDF2 is offline for the Likely, Limits and Worst Cases.
Additional information received	16/08/17	Provision of predicted impact on human health under the Limits Case when MDF2 is offline for annual and daily mean NO <sub>x</sub> . Also predicted daily mean NO <sub>x</sub> impact at Canal Wood LWS and Chirk Castle ancient woodland.
Variation determined EPR/BW9999IG/V007	30/11/17	
Variation and consolidation application EPR/BW9999IG/V008	Duly made 27/07/18	Application for new OSB Production line; consolidation of extant WCBC & NRW permits to
Variation and consolidation application number EPR/BW9999IG/V011	Page iv	04/06/2025

**Status log of the permit**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
received		implement WG Direction; Natural Resources Wales Production of Wood-based Panels Sector Review
Additional information requested	01/08/18	Email
Additional information received	02/08/18	Email confirmation that the Sawmill and Laminated Flooring Line are both EPR Section 6.6 B (a) i activities. (Response to email request on 01/08/18).
Additional information requested	23/11/18	Schedule 5 Notice
Regulation 61 Notice sent to the Operator	15/01/19	Issue of a Notice under Regulation 61(1) of the Environmental Permitting (England and Wales) Regulations 2016 requiring further information on expected compliance with the “Large Volume Organic Chemicals BAT Conclusions” and “Common Waste Water and Waste Gas Treatment / Management Systems in the Chemical Sector BAT Conclusions”. The purpose of this request is to gather information to inform a forthcoming NRW review of the permit against these best practice documents.
Additional information received	21/01/19, 23/01/19 & 24/01/19	Schedule 5 Notice response covering, air quality assessment, Kronoplus Ltd operations, noise assessment and more detailed comparison of Kronospan Ltd’s operations against the Wood Panel BREF BAT Conclusions.
Additional information requested	08/04/19	Schedule 5 Notice
Additional information requested	03/05/19	Query on waste types accepted by K7. (Grades of wood part of the question no longer relevant).
Additional information received	28/05/19	Schedule 5 Notice response (including response to 03/05/19 email query) covering: Identification of which legal entities control each regulated activity. Provision of updated noise assessment, noise

**Status log of the permit**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
		modelling for on-site traffic and complaints log template. Clarification on Air Quality Assessment Input tables, status of Gas Engines 4 & 5, plume abatement on the newly constructed WESP 21, items of combustion plant using Light Fuel Oil as a secondary fuel and which combustion plant the report in Appendix E of the variation application is relevant to. Clarification of raw material usage, water use, releases to sewer, relevant to proposed OSB process. Clarification on waste types used in on-site processes.
Additional information requested	04/06/19	Email
Additional information received	05/06/19	Email: 2016 site baseline noise assessment & clarification on NVC report appendices. (Response to email request on 04/06/19).
Additional information requested	10/06/19	Email
Additional information requested	11/06/19	Email requesting clarification of the relationship between Kronospan Ltd and the companies operating the Part B activities for accounting purposes.
Additional information received	12/06/19	Justification for air quality modelling scenarios used for ecological assessment (response to email request on 10/06/19)
Additional information requested	27/06/19	Email
Additional information received	02/07/19	Email: Demonstration of Kronospan Ltd operator control of Part B activities (response to email request on 11/06/19).
Additional information received	02/07/19	Kronospan response to Regulation 61(1) notice requiring further information on expected compliance with the "Large Volume Organic Chemicals BAT Conclusions" and "Common Waste Water and Waste Gas Treatment / Management

**Status log of the permit**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
		Systems in the Chemical Sector BAT Conclusions”.
Additional information received	03/07/19	Email: Boiler Fuel Creation Procedure. (Response to email request on 27/06/19).
Additional information requested	12/07/19	Email
Additional information received	12/07/19	Email: clarifying sources of releases from WESPs 32 and 21 (response to email request on 12/07/19).
Additional information requested	23/07/19	Schedule 5 Notice
Additional information received	30/09/19	Schedule 5 Notice response covering: press abatement emissions dispersion from original WESP 32, location of bag filter abatement plant and associated emissions, K8 ammonia modelling, justification of habitats assessment scenarios, critical loads assessment for key ecological interest features, updated noise modelling, OSB BAT assessment, segregation of K7 and K8 boiler fuel and updated emission point plan.
Additional information received	04/10/19	Air Quality and Noise Modelling Files in support of Schedule 5 response.
Additional information requested	25/10/19	Email
Additional information requested	29/10/19	Email
Additional information received	29/10/19	Email confirmation that Kronospan wish to retain half-hour average ELVs and legal ability for abnormal operation of K8 Biomass Boiler in NRW permit. Confirmation of CEM arrangements for K8. (Response to email request on 29/10/19).
Additional information received	31/10/19	Amended emission point plan and plan showing release points from bag filter abatement plant. (Response to email request on 29/10/19)
Additional information	08/11/19	Email: Amended Boiler Fuel

**Status log of the permit**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
received		Creation procedure (Part response to email request on 25/10/19).
Additional information requested	13/11/19	Email
Additional information requested	22/11/19	Email
Additional information received	22/11/19	Email: Air Quality Assessment for OSB Planning application, response to press abatement modelling questions and source of WESP 32 emission limits. Results of fuel trials on K7 Boiler. (Results of fuel trials are part response to email request on 13/11/19)
Additional information received	28/11/19	Finished Product Composition (response to email dated 22/11/19)
Confidentiality decision following objection notice received from operator on 28/11/19	20/12/19	Decision to accept the objection notice received from the operator in relation to specified information received as part of the application.
Additional information received	09/01/20	Further review of dust extraction units, with technical data sheets and updated modelling.
Additional information requested	15/01/20	Follow-up noise questions following assessment of Schedule 5 response #3.
Additional information requested	05/02/20	Schedule 5 Notice
Additional information received	16/03/20 & 09/04/20 & 12/04/20	Schedule 5 Notice Part Response covering: modelling supporting K1 increased NO <sub>x</sub> ELV, modelling of additional pollutants for K7, AQ modelling of half hourly averages for K8, confirmation of K8 auxiliary fuel, Abnormal Emissions Impact Assessment for K8 and HHRA addendum to include fisher receptor. Air Quality Modelling files in support of response. Background noise monitoring question not answered due to Covid-19 restrictions.
Additional information requested	06/05/20 & 27/05/20	Emails requesting confirmation of current trade effluent emission

## Status log of the permit

Description	Date	Comments
		points
Additional information received	21/05/20 & 27/05/20	Emails confirming current trade effluent emission points
Additional information received	15/07/20	Letter from Kronospan following NRW & Kronospan meeting on 9 July 2020. Confirms understanding of postponing determination of OSB development and removing from this variation. This is due to difficulty of obtaining up to date background noise data due to Covid-19 restrictions. (Superceded by correspondence sent to Kronospan dated 18/03/22 advising submission of a new application for OSB in the light of design changes since the original application PAN-002755).
Additional information requested	08/10/20	Schedule 5 Notice
Additional information received	27/11/20, 02/12/20, & 10/12/20	Schedule 5 Notice response covering: Site plans including emission points, modelling of particulate emissions and design specification for bag filter abatement plant, points of clarification in relation to air modelling from third and fourth Schedule 5 responses, in-combination habitats assessment for European Sites, updated Fire Prevention and Mitigation Plan and noise assessment for Chip Dryer No. 4.
Additional information requested	02/12/20	Email requesting clarification and submission of noise modelling files for New Chip Dryer 4
Additional information received	02/12/20	Noise modelling files for new Chip Dryer 4
Additional information requested	07/12/20	Emails requesting clarification on calculation of K1 emission rate & submission of 4 x missing bag filter data sheets.
Additional information received	10/12/20	4 x missing bag filter data sheets submitted in response to email dated 07/12/20
Additional information requested	10/12/20	Email querying Met data for K8 half-hourly ELVs model inputs
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<b>Description</b>	<b>Date</b>	<b>Comments</b>
Additional information requested	16/12/20	Additional clarification sought on in-combination assessment provided as part of the fifth Schedule 5 Notice Response.
Additional information requested	18/12/20 & 11/01/21	Emails querying noise modelling for New Chip Dryer 4
Additional information received	23/12/20	Clarification on K1 emission rate, Met data for K8 half-hourly ELV model inputs and updated in-combination assessment in response to follow up questions via emails dated 07/12/20, 10/12/20 & 16/12/20
Additional information requested	23/12/20 & 07/01/21	Emails querying model inputs for WESP 32 Press abatement releases
Additional information received	21/01/21	Amended site plan with air emission point A29 removed.
Additional information received	22/01/21 & 15/03/21	Emails clarifying queries on noise modelling for new Chip Dryer 4 (email request dated 18/12/20).
Additional information requested	26/01/21	Email: Confirmation of modelling scenarios required for WESP 32 Press abatement releases and plume visibility analysis.
Additional information requested	09/02/21	Email: follow up noise questions based on email response of 22/01/21
Additional information received	03/03/21	Press abatement and plume visibility modelling for WESP 32 (response to email dated 26/01/21)
Additional information received	08/03/21	Email: revised and updated noise modelling files verifying noise reduction associated with new wood chip preparation plant (response to email dated 09/02/21)
Additional information requested	16/07/21	Schedule 5 Notice
Additional information provided to Operator	22/07/21	Spreadsheet of Medium Combustion Plant permits issued in North & Mid Wales regions to inform scope of habitats in-combination assessment.
Additional information received	31/07/21	Response to Schedule 5 Notice dated 16/07/21. Consolidated Air Quality Modelling report for the

**Status log of the permit**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
		installation.
Additional information requested	19/08/21	Email: Process flow diagram for WESP 21
Additional information requested	25/08/21	Email: Excel spreadsheet of emission calculations underpinning air quality modelling and priority order for other Schedule 5 follow up items.
Additional information requested	26/08/21	Email request for consolidated Air Quality modelling report to address inconsistencies identified from initial review of Schedule 5 response dated 31/07/21.
Additional information received	10/09/21	Updated Consolidated Air Quality Modelling report addressing the inconsistencies identified in emails dated 25/08/21 & 26/08/21.
Additional information received	15/12/21	Updated consolidated air quality modelling report addressing habitats issues with acid deposition process contributions and critical loads for assessment.
Additional information requested	17/12/21	Email: Feasibility of meeting Likely Case NO <sub>x</sub> emission limits in terms of normal process fluctuations.
Additional information received	11/01/22	Email: Emissions monitoring results for WESP 21 and MDF 1 & 2 cyclones. (response to email dated 17/12/21)
Notice of Deemed Withdrawal PAN-002755	15/06/22	OSB development proposals partially deemed withdrawn from this variation.
Variation determined Consolidated Permit: EPR/BW9999IG	04/10/22	Varied and consolidated permit issued in modern IED condition format. The following permits have been consolidated: EPR/BW9999IG and WCBC/IPPC/03/KR(V3). Consolidation includes review of permit against the Best Available Techniques (BAT) Reference Document for the Production of Wood-based Panels
Regulation 61 Notice Response from Operator	31/01/2023	Response received from Operator to Regulation 61(1) Notice dated 15/01/2019.

**Status log of the permit**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
Additional information requested	03/03/2023	Letter requesting revised response to CWW Bref to include Manufacture of Urea-formaldehyde and melamine-urea-formaldehyde resin activity
Additional information received	24/03/2023	Additional response to Regulation 61(1) Notice from Operator
Natural Resources Wales initiated variation determined EPR/BW9999IG/V009	16/05/2023	Natural Resources Wales initiated review and variation to vary the permit following the publication of the revised Best Available Techniques (BAT) Reference Documents for Large Volume Organic Chemicals and Common Waste Water and Waste Gas Treatment / Management Systems in the Chemical Sector
Variation Application (PAN-021028) EPR/BW9999IG/V010	Duly Made 06/03/2023	Application to change ELV from WESP 21 for oxides of nitrogen and re-duct emission points A5 & A6 to WESP 32.
Regulation 61 Notice sent to the Operator	30/03/2023	Issue of a Notice under Regulation 61(1) of the Environmental Permitting (England and Wales) Regulations 2016 requiring further information on expected compliance with the "Waste Incineration BAT Conclusions". The purpose of this request is to gather information to inform a forthcoming NRW review of the permit against these best practice documents.
Additional information requested.	30/05/2023	Clarification on emission limits at A28 & A31 with re-ducting of A5 & A6 to WESP 32 (A28). Schedule 5 Notice dated 30/05/2023.
Additional information received.	13/06/2023	Email in response to Schedule 5 Notice 30/5/2023 regarding emission limits at A28 & A31.
Additional information requested.	20/06/2023	Schedule 5 Notice. Clarification of emission point for the proposed change in emission limit value.
Additional information received.	21/06/2023	Email in response to Schedule 5 Notice 19/06/2023. Resubmission of air quality report and supporting information to correct emission point reference change.
Additional information	21/06/2023	Email in response to Schedule 5
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<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
received.		Notice 19/06/2023. Letter regarding emission point A32.
Variation determined EPR/BW9999IG/V010	15/09/2023	Varied and consolidated permit issued.
Regulation 61 Notice Response from Operator	05/10/2023	Response received from Operator to Regulation 61(1) Notice dated 30/03/2023.
Further information requested	22/01/2024	Natural Resources Wales letter to operator on K7.
Additional information received	01/03/2024	Additional response to Regulation 61(1) Notice from Operator
Additional information received	30/05/2024	Letter concerning K7 biomass CEMS
Natural Resources Wales initiated variation determined EPR/BW9999IG/V011	04/06/2025	Natural Resources Wales initiated review and variation to vary the permit following the publication of the revised Best Available Techniques (BAT) Reference Documents for Waste Incineration.

End of introductory note

## Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Natural Resources Body for Wales (“Natural Resources Wales”) in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates:

Permit number

**EPR/BW9999IG**

issued to

**Kronospan Limited** (“the operator”)

whose registered office is

**Kronospan Limited**

**Maesygywn Farm**

**Chirk**

**Wrexham**

**LL14 5NT**

company registration number **00981905**

to operate a regulated facility at

**Chirk Particleboard Factory**

**Holyhead Road**

**Chirk**

**Wrexham**

**LL14 5NT**

to the extent set out in the schedules.

The notice shall take effect from 04/06/2025

Signed

Date

<b>Holly Noble</b>	<b>04/06/2025</b>
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Authorised on behalf of Natural Resources Wales

**Schedule 1**

All conditions have been varied by the consolidated permit as a result of an Natural Resources Wales initiated variation.

**Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

[End]