

Natural Resources Wales permitting decisions

Sundorne Products (Llanidloes) Ltd - Bryn Posteg Landfill – NRW initiated variation

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Natural Resources Wales initiated Variation

The variation number is: EPR/BU7766IC/V007

The operator is: Sundorne Products (Llanidloes) Limited

The Installation is located at: Bryn Posteg Landfill, Tylwch Road, Llanidloes, Powys, SY18 6JJ

We have decided to issue an Natural Resources Wales initiated variation for Bryn Posteg Landfill operated by Sundorne Products (Llanidloes) Limited.

We consider in reaching that decision we have taken into account all relevant considerations and legal requirements and that the permit will ensure that the appropriate level of environmental protection is provided.

Purpose of this document

This decision document:

- explains how the application has been determined
- provides a record of the decision-making process
- shows how all relevant factors have been taken into account
- justifies the specific conditions in the permit other than those in our generic permit template.

Unless the decision document specifies otherwise we have accepted the applicant's proposals.

Key issues of the decision

The variation

The permit has been varied multiple times since the original permit was issued in 2004. During this time the permit has never been consolidated. Subsequently the permit has become increasingly difficult to use as a regulatory tool, records of site plans and operating techniques are incomplete and difficult to reconcile, coupled with this Bryn Posteg Landfill is the worst performing landfill in Wales. It was therefore necessary to consolidate the permit to ensure that NRW could regulate the site more efficiently and that the operator could have a more concise and easier to understand permit, which should subsequently make it easier for the operator to understand and comply with the conditions of the permit.

Information requests

The operating techniques are poorly defined and incomplete records are held by both the operator and NRW. NRW therefore requested that the operator provide up to date operating techniques, an up to date site plan clearly delineating the boundaries of the landfill, Material Recycling Facility and composting operations carried out on site, updated drawings showing pre-settlement levels, an updated monitoring plan and the manufacturer's specification for the biomass boiler that has been installed on site.

The site

The site plans accompanying the varying permits issued over the years were not sufficient for clearly delineating where the various regulated activities undertaken on site were being carried out. Amended site plans were requested from the operator to clarify this.

The operator has not provided a plan showing the extent of the site of the facility. We have therefore imposed an improvement condition requesting an updated site plan.

The original permitted site plan is included in the permit and the operator is required to carry on the permitted activities within the site boundary until such time as an updated site plan is provided and the permit is varied to reflect the changes.

The facility

The regulated facility is an installation which comprises the following activities listed in Part 2 of Schedule 1 to the Environmental Permitting Regulations and the following directly associated activities as listed and described in Table S1.1 of the permit.

The Installation is subject to the EPR because it carries out an activity listed in Part 1 of Schedule 1 of the EPR:

- Section 5.2 Part A(1)(a). The disposal of waste in a landfill.
- Section 5.4 Part A(1)(a)(i). Disposal of non-hazardous waste in a facility with a capacity exceeding 50 tonnes per day by biological treatment. Biological treatment of waste arising from the waste treatment facility prior to disposal at landfill.
- Section 5.4 Part A(1)(a)(ii). Disposal of non-hazardous waste in a facility with a capacity exceeding 50 tonnes per day by physico-chemical treatment. storage prior to treatment or disposal off site
- Section 5.4 Part A(1)(a)(i). Disposal of non-hazardous waste in a facility with a capacity exceeding 50 tonnes per day by biological treatment. Storage and treatment of leachate arising from the landfill.
- Section 5.1 Part B (a) (v). The incineration in a small waste incineration plant with an aggregate capacity of 50 kg or more Incineration of “Grade A” waste wood and shredded pallets in a Small Waste incinerator with a capacity of 250 kg/hr.

An installation may also comprise “directly associated activities”, which at this Installation includes:

- Landfill gas flaring
- Leachate discharges to foul sewers
- Treatment and discharge of site drainage from the installation.
- Storage of fuel for operation of plant and equipment

- Storage and baling of waste tyres.

Together, these listed and directly associated activities comprise the Installation.

Emissions

Air

There will be a new emission point to air arising from the Small waste Incinerator Plant (SWIP) for the combustion of Grade A waste wood. Given that the plant is less than 1 Megawatt and that Grade A waste wood is excluded from chapter 4 of the Industrial Emissions Directive we have requested that the operator quantify appropriate emission limits (if necessary). We have also requested that the operator provide a report detailing how it will apply Best Available Techniques to the plant. These have been requested by improvement condition4.

The permit conditions

Updating permit conditions during consolidation

We have updated previous permit conditions to those in the generic permit template as part of permit consolidation. The new conditions have the same meaning as those in the previous permits.

The operator has agreed that the new conditions are acceptable.

Improvement Conditions

We deemed it necessary to include improvement conditions in the consolidated permit. Please see Annex 1 for further details.

Waste types

As part of the consolidation of this permit, we have excluded the following wastes because non-hazardous gypsum-based materials should be disposed of only in landfills for non-hazardous waste in cells where no biodegradable waste is accepted.

17.08 gypsum-based construction material

17.08.02 gypsum-based construction materials other than those mentioned
 in 17.08.01

We made these decisions with respect to waste types in accordance with COUNCIL DECISION of 19 December 2002 establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 of and Annex II to Directive 1999/31/EC.

ANNEX 1: Improvement Conditions

We deemed it necessary to include the following improvement conditions in the permit:

IC1 The operator shall provide an up to date site plan delineating landfill activities, MRF and Composting activities to Natural Resources Wales within one month of the variation being issued.

This improvement condition is required to ensure that the operator supplies an up to date site plan delineating all activities. This will help to ensure effective regulation of the site's activities.

IC2 The operator shall submit a monitoring plan demonstrating how monitoring of bioaerosols will be undertaken from the biological treatment of waste arising from the waste treatment facility. The monitoring procedures must be in accordance with Technical Guidance Note (Monitoring) M9 Environmental monitoring of bioaerosols at regulated facilities.

This information shall be provided within one month of the variation issue.

This improvement condition is required to ensure that the appropriate measures are in place to ensure that appropriate monitoring of bioaerosols is implemented so that appropriate actions can be taken to minimise the risks from bioaerosols.

IC3 The operator shall submit an updated odour management plan to Natural Resources Wales for approval. The plan must be prepared in accordance with Horizontal Guidance Note H4 – Odour Management and must contain proposals for the review, management and reduction of both point and diffuse sources of odour from the site, such as those arising from landfilling, biological treatment of fines and the treatment of leachate.

The operator must implement any improvements identified in the odour management plan within 3 months of approval.

This improvement condition is required to ensure that the appropriate measures are in place to prevent pollution from odour.

IC4 The Operator shall submit a H1 screening report and if necessary dispersion modelling for emissions from the Biomass Boiler.

These predictions shall be used to propose appropriate emission limits.

This information shall be provided within two months of variation issue.

This improvement condition is required to derive emission limits from the Small Waste Incinerator Plant burning Grade A waste wood only.

IC5 Within 2 months of the variation issue. The operator shall submit an updated leachate management plan to Natural Resources Wales for approval. The plan must contain proposals for the monitoring, treatment, and management of leachate across all landfill phases / cells, including how leachate heads will be managed to the levels as required by the permit.

The operator must implement any improvements identified in the leachate management plan within 3 months of approval.

This improvement condition is required to ensure that the appropriate measures are in place to ensure that accidents that may cause pollution are minimised and that the appropriate measures are in place to prevent pollution from odour.

IC6 Within 3 months of the issue of this variation, the operator shall submit a review detailing an options appraisal for the remediation of landfill gas migration on phases 1 & 2 to Natural Resources Wales for approval. The proposal must contain details of the proposed remediation strategies and measures to comply with condition 3.1.7.

The operator must implement the improvements as identified in the review within 9 months of approval.

This improvement condition is required to ensure that the appropriate measures are implemented to minimise and prevent fugitive landfill gas emissions.

IC7 Within 3 months of the issue of this variation, the operator shall submit a review for the improvement of the surface water management system to Natural Resources Wales for approval. The plan must contain a review of the existing arrangements and further measures that could be taken to ensure compliance with conditions 3.1.1 and 3.1.2.

The operator must implement the improvements identified in the review within 12 months of approval.

This improvement condition is required to ensure that the appropriate measures are implemented to ensure that surface water emissions are managed and controlled appropriately.

IC 8 The operator shall submit a Fire Prevention and Mitigation Plan for the Waste Treatment Plant, the Biological Waste Treatment Plant and the Biomass Boiler for approval. The Plan must be produced using Natural Resources Wales current guidance on Fire Prevention and Mitigation Plans

The operator must submit the plan for approval within 6 months of the variation being issued.

This improvement condition is required to ensure that the appropriate measures and procedures are in place to ensure that any fires are minimised and mitigated against.

IC9a The operator shall monitor on a monthly basis, for a period of 12 months, upstream water quality and flow from the new surface water discharge point SW3 as shown on plan 1009.REED.01.

IC9b Within 2 months of completing the 12 month monitoring programme, the operator shall statistically review the data obtained from 5a and submit a report to Natural Resources Wales for approval that identifies revised compliance limits. The determinants as specified in table S3.3 shall be included.

These improvement conditions are included to ensure appropriate emission limits are set that are proportionate and enforceable in accordance with ambient conditions.