

Natural Resources Wales permitting decisions

Parc Adfer Energy Recovery Facility Decision Document

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Variation

The permit number is: EPR/AB3092CV/V003

The operator is: Parc Adfer Operations Limited (operator), the application was submitted by Paul Wright of SLR Consulting Limited on behalf of Parc Adfer Operations Limited.

The Installation is located at: Parc Adfer Energy Recovery Facility, Deeside Industrial Park, Deeside, Flintshire, CH5 2LL

We have decided to issue the variation for Parc Adfer Energy Recovery Facility operated by Parc Adfer operations limited.

The variation is to change the monitoring of the incinerator carbon monoxide emissions from a ½ hourly average with an Emission Limit Value of 100 mg/Nm³ to a 10-minute average with an Emission Limit Value of 150 mg/Nm³. Either limit and associated averaging period is allowed under the Industrial Emissions Directive Chapter IV and Annex VI, Part 3, Paragraph 1.5. and Part 8 Paragraph 1.1 (d) (i)

This variation also included a correction to an error in the previous version of the permit on table S2.2. The maximum quantity is corrected from 200,00 to 200,000 tonnes per annum.

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

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

Key issues of the decision

Legislation

NRW is satisfied that this decision is compatible with its general purpose of pursuing the sustainable management of natural resources in relation to Wales and applying the principles of sustainable management of natural resources.

All applicable European directives have been considered in the determination of the application.

The application to change monitoring for the CO emission come under the Industrial Emission Directive Chapter IV and Annex VI part 3 1.5 and part 8 1.1 (d) (i) which specify that the Carbon Monoxide short term limits should be 100 mg/m³ ½ hourly average or 150 mg/m³ for a 10-minute average.

Biodiversity, Heritage, Landscape and Nature Conservation

The application is within the relevant distance criteria of a site of heritage, landscape or nature conservation, and/or protected species or habitat.

We consider that the application will not affect any sites of nature conservation, landscape and heritage, and/or protected species or habitats identified. There is no Environmental Standard for carbon monoxide for protected conservation areas.

The change only applies to the short term carbon monoxide limit. The daily limit will remain the same.

We have not consulted with area teams or environmental agency on the application. This decision was taken in accordance with the relevant guidance.

Environmental Risk Assessment

Air

This section of the decision document deals primarily with the assessment of emissions to air from the stack and its potential impact on local air quality relating to the proposed change to carbon monoxide emission limit value and averaging period.

The Applicant has previously assessed the Installation's potential emissions to air against the relevant air quality standards, and the potential impact upon human health. These assessments predict the potential effects on local air quality from the Installation's stack emission.

The long term emission limit remain unchanged by this variation. The applicant submitted a H1 risk assessment on the change in short term emission limits to 150 mg/Nm³ over a 10 minute average. The H1 demonstrated that there would not be a significant adverse effect. All other emission limits will not change as a result of this variation.

Given that this variation is only changing carbon monoxide short term limit, which was screened as not having a significant impact in the H1 assessment, it was decided that there was no need for dispersion modelling.

Emission limits

This variation changes the carbon monoxide ELV and averaging period for releases from emission point A1 from 100 mg/Nm³ and half-hourly averages to 150 mg/Nm³ for 95% of all ten-minute averages. This follows the emission limits set out in the Industrial emission directive (IED) under Chapter IV and Annex VI (part 1.5)

The daily carbon monoxide emission limit is not affected by this variation. No other emission limits have been changed.

It is considered that the ELVs described above will ensure that significant pollution of the environment is prevented and a high level of protection for the environment secured.

Monitoring

We have decided that monitoring should be carried out for the parameters listed in the permit, using the methods detailed and to the frequencies specified. No changes are made except to the averaging period for short term carbon monoxide continuous measurement.

These monitoring requirements have been imposed in order to comply with both IED chapter IV/Annex VI, part 3, paragraph 1.5 and BAT. All other monitoring requirements remain unchanged as a result of this variation.

Reporting

We have specified reporting in the permit.

The emissions for CO will now be reported as a both a 10-minute and daily average.

We made these decisions in accordance with IED.

Operating techniques

There are no changes to any operating techniques as a result of this variation. The operating techniques have been carried over from the previous permit version.

The permit conditions

Updating permit conditions during consolidation

We have modified the monitoring permit condition 3.5.5 b), c) and d) to reflect use of both 10-minute and half-hourly averaging periods.

At the request of the operator the maximum throughput of waste listed in table s2.2 was changed from the previous permit version to correct a minor anomaly. It was changed from 200,00 TPA to 200,000 TPA.

The operator has agreed that the new conditions are acceptable

Future Permit Review

The variation will not change any other conditions or limits from the previous permit. It is noted that since the issue of the permit, more recent BAT conclusions were published in late 2019 and will necessitate a permit review. This however will be addressed in a future permit review for BRef compliance and not this variation.

OPRA

The OPRA score is unchanged at 207.

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