

# Notice of variation and consolidation with introductory note

Environmental Permitting (England & Wales) Regulations 2016

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Baglan Operations Limited

Baglan Energy Park  
Seaway Parade  
Port Talbot  
SA12 7GE

Variation application number  
EPR/BJ7891IT/V010

Permit number  
EPR/BJ7891IT

# Baglan Power Station

## Permit number EPR/BJ7891IT

### Introductory note

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

Permit variation following the publication of the revised Best Available Techniques (BAT) Reference Document (BRef) for Large Combustion Plant (LCP). The associated BAT conclusions to this document were published on the 17th August 2017 in the Official Journal of the European Union.

This variation incorporates the changes required by the Industrial Emissions Directive following a statutory review of permits in the Large Combustion Plant sector. These include the amendment of the wording of several permit conditions relating to notifications, changes to emission limits and monitoring requirements and also includes the addition of a condition relating to a requirement for monitoring of groundwater and soil. The interpretation section of the permit has also been updated and the opportunity has been taken to consolidate the original permit and subsequent variations.

We are satisfied that the operator will be compliant with the published BAT conclusions which will apply from 18th August 2021.

The rest of the installation is unchanged and continues to be operated as follows:

The main purpose of the activity at the installation is to generate electricity for export to the National Grid. The installation consists of two gas turbines and a small combustion plant to raise power to start the turbines. The largest turbine, the GE MS9001H (9H), is a 492.4 MW electrical combined cycle gas turbine (CCGT) that will generate electricity for the National Grid; the GE LM2500 is also a CCGT but at 33MWe is smaller than the 9H. A small auxiliary boiler will also be operated as back up to the LM2500 CCGT to ensure continuity of the power supplies.

The main gas turbine has the potential to achieve very low releases of oxides of nitrogen, the main pollutant associated with the combustion of natural gas while attaining high energy efficiency.

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 BJ7891                                                                                         | Received 18 January 2001     | Duly made 30 January 2001                       |
| Schedule 4 Notice issued plus a request by the Environment Agency to extend determination date to 18/07/01 | 06 April 2001                | -                                               |
| Response to Schedule 4 Notice                                                                              | 04 May 2001<br>08 May 2001   | Response received<br>Extension request accepted |
| Request from Agency to extend determination date to 03/08/01                                               | 25 June 2001<br>25 June 2001 | Request dated<br>Request accepted               |

| Status log of the permit                                                                                                                                                                                                                                                                                                         |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                                                                                                                                                                                                                                                                                                                      | Date                                                                                                 | Comments                                                                                                                                                                                                                                                                                                                                        |
| Request from Baglan Operations Limited (BOL) to extend determination date to 24/08/01<br>Extension agreed by BOL to extend the determination from 24/08/01 to 31/08/01<br>Agency request to extend the determination date from 31/08/01 to 14/12/01<br>Request by BOL to extend the determination date from 14/12/01 to 31/12/01 | 02 August 2001<br>03 August 2001<br><br>09 August 2001<br><br>31 August 2001<br><br>13 December 2001 | Request dated<br>Request accepted but extended to 31 August 2001<br>Request accepted<br><br>Request accepted<br><br>Request accepted                                                                                                                                                                                                            |
| Permit BJ7891                                                                                                                                                                                                                                                                                                                    | Determined 31 December 2001                                                                          | -                                                                                                                                                                                                                                                                                                                                               |
| Application for variation (BR8026)                                                                                                                                                                                                                                                                                               | Received 12/03/2002                                                                                  | An error in the location of the ambient noise monitor was found in the original PPC permit.                                                                                                                                                                                                                                                     |
| Variation BR8026<br>{First variation}                                                                                                                                                                                                                                                                                            | Determined 12/06/2002                                                                                | This variation changed the ambient noise monitoring location and the reporting requirements associated with this change.                                                                                                                                                                                                                        |
| Application for variation (BX8823)                                                                                                                                                                                                                                                                                               | Received 14/05/2004                                                                                  | This application covers the change in operation of the smaller gas turbine to operate in open cycle.                                                                                                                                                                                                                                            |
| Variation BX8823IF<br>{Second variation}                                                                                                                                                                                                                                                                                         | Determined 03/08/2004                                                                                | This variation allows the temporary operation of one turbine in open cycle, changes in fuels available for use on the turbines, changes in the supply of water by BOL and adds a review for closing the energy cycle.                                                                                                                           |
| Variation AP3430BW<br>(Regulation 17(5) variation)<br>{Third variation}                                                                                                                                                                                                                                                          | Effective 08/11/04                                                                                   | This variation notice changed monitoring and reporting to meet the requirements of the revised Large Combustion Plants Directive [Directive 2001/80/EC].                                                                                                                                                                                        |
| Regulation 16(1)(1)<br>First minor change application                                                                                                                                                                                                                                                                            | Received 4/02/2005<br>Acceptance date 17/02/2005                                                     | Various minor changes to the original PPC application                                                                                                                                                                                                                                                                                           |
| Regulation 16(1)(2)<br>Second minor change application                                                                                                                                                                                                                                                                           | Received 4/02/2005<br>Acceptance date 17/02/2005                                                     | Minor change to close the LM2500 operating cycle                                                                                                                                                                                                                                                                                                |
| Variation MP39737LE<br>{Fourth variation}                                                                                                                                                                                                                                                                                        | Effective 31/10/06                                                                                   | Following investment by Baglan Operations, this variation notice allows both turbines to operate in closed cycle mode, for the smaller turbine to operate in open cycle when the larger turbine is not operating, includes the minor changes that have been made since the previous variation and clarifies the current reporting arrangements. |
| Regulation 16(1)(3)<br>Third minor change application                                                                                                                                                                                                                                                                            | Received 17/08/2006<br>Acceptance date 30/10/2006                                                    | Various minor changes to the original PPC application                                                                                                                                                                                                                                                                                           |

| Status log of the permit                  |            |                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                               | Date       | Comments                                                                                                                                                                                                                                                                                                                                                                      |
| Regulation 60 Notice sent to the Operator | 14/11/14   | Issue of a Notice under Regulation 60(1) of the EPR. Natural Resources Wales initiated review and variation to vary the permit under IED to implement the special provisions for LCP under Chapter III, introducing new Emission Limit Values (ELVs) applicable to LCP, referred to in Article 30(2) and set out in Annex V. The permit is also updated to modern conditions. |
| Regulation 60 Notice response             | 27/03/15   | Response received from the Operator.                                                                                                                                                                                                                                                                                                                                          |
| Additional information received           | 20/07/15   | Response to request for further information (RFI) dated 23/06/15.                                                                                                                                                                                                                                                                                                             |
| Variation determined<br>EPR/BJ7891IT/V009 | 01/01/2016 | Varied and consolidated permit issued in modern condition format.<br><br>Variation effective from 01/01/2016.                                                                                                                                                                                                                                                                 |
| Regulation 61 Notice sent to the Operator | 09/05/2018 | Issue of a Notice under Regulation 61(1) of the EPR. Natural Resources Wales initiated review and variation to vary the permit introduce new Emission Limit Values (ELVs) following the publication of the revised Best Available Techniques (BAT) Reference Document (BRef) for Large Combustion Plants (LCP).                                                               |
| Regulation 61 Notice response             | 22/11/2018 | Response received from the Operator.                                                                                                                                                                                                                                                                                                                                          |
| Additional information received           | 11/09/2019 | Response to request for further information (RFI) dated 11 September 2019                                                                                                                                                                                                                                                                                                     |
| Additional information received           | 07/02/2020 | Further information received via email dated 07 February 2020.                                                                                                                                                                                                                                                                                                                |
| Variation determined<br>EPR/BJ7891IT/V010 | 20/07/2020 | Varied and consolidated permit issued in modern condition format to Baglan Operations Limited.                                                                                                                                                                                                                                                                                |

End of introductory note

# Notice of variation and consolidation

## The Environmental Permitting (England and Wales) Regulations 2010

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 2010 varies and consolidates

### Permit number

**EPR/BJ7891IT**

### Issued to

**Baglan Operations Limited** ("the operator")

whose registered office is

**Severn Power Station West Nash Road**

**Nash**

**Newport**

**Gwent**

**NP18 2BZ**

company registration number 3882153

to operate a regulated facility at

**Baglan Energy Park**

**Seaway Parade**

**Port Talbot**

**SA12 7GE**

to the extent set out in the schedules.

The notice shall take effect from 20<sup>th</sup> July 2020

| Name        | Date       |
|-------------|------------|
| David Poole | 20/07/2020 |

Authorised on behalf of Natural Resources Wales

## **Schedule 1**

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

## **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.