

Notice of variation and consolidation with introductory note

Environmental Permitting (England & Wales) Regulations 2016

Dow Silicones UK Limited

Barry Cogeneration Plant

Wimborne Road

Dock No. 2

Barry

CF63 3DH

Variation application number

EPR/JP3632ZH/V004

Permit number

EPR/JP3632ZH

Barry Cogeneration Plant

Permit number EPR/JP3632ZH

Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit. Schedule 1 of the notice specifies that all the conditions of the permit have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made.

We have reviewed the permit for this installation against the revised BAT Conclusions for the Large Combustion Plant (LCP) sector published on 17 August 2017. This variation incorporates the changes required by the Industrial Emissions Directive (IED) following a statutory review of permits in the LCP 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 two improvement conditions (IC7 and IC8). The interpretation section of the permit has also been updated and the opportunity has been taken to consolidate the original permit and subsequent variations.

The Operator chose to operate the LCP under the Transitional National Plan (TNP) compliance route. The TNP ends on 30 June 2020, after which the emission limits set out in Chapter III of IED will be applicable to the plant. These have been included in Schedule 3(a). We are satisfied that the operator is currently achieving or will be achieving all relevant Best Available Techniques (BAT) by the time of the primary activity (chemicals manufacture) permit review (expected during 2022-23).

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

Dow Silicones UK Limited operate a CHP cogeneration facility providing steam and electricity to the Dow Silicones chemical plant and also exporting electricity to the National Grid. The Barry Cogeneration CHP Plant installation consists of seven combustion plant using natural gas as the primary fuel with distillate fuel oil as the standby fuel, with a total thermal input of 236MW. There are two cogeneration units, each consisting of a 21 MWth Siemens SGT-200 gas turbine, with associated 6 MWe generator, and a 38.5 MWth High Pressure (HP) heat recovery steam generator (HRSG) with supplementary firing, which use waste heat from gas turbines.

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 BX4135IJ	Received 17/08/05	
Request to extend determination date	13/12/05	20/12/05
RFI response	27/01/06	13/03/06
RFI	26/06/06	26/06/06
Permit Issued	30/06/06	
Application EPR/JP3632ZH/T001 (full transfer of permit BX4135IJ)	Duly made 25/01/13	Application to transfer the permit in full to Cofely Industrial Energy Services Limited.

Status log of the permit		
Description	Date	Comments
Transfer determined EPR/JP3632ZH	28/02/13	Full transfer of permit complete
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	30/03/15	Response received from Operator
Additional information received	15/07/15	Response to request for further information (RFI) dated 09/06/15
Additional information received	22/11/15	Additional information received from the Operator
Variation determined EPR/JP3632ZH/V002	30/12/15	Varied and consolidated permit issued in modern condition format. Variation effective from 01/01/2016
Application EPR/JP3632ZH/V003 received	05/04/16	Application to change legal entity name to "Industrial Energy Services Limited"
Application EPR/JP3632ZH/V003 determined	12/05/16	Variation EPR/JP3632ZH determined
Application EPR/JP3632ZH/T002 (full transfer of permit EPR/JP3632ZH)	Duly made 03/02/17	Application to transfer the permit in full to Engie FM Limited
Transfer determined EPR/JP3632ZH/T002	10/02/17	Full transfer of permit complete
Application EPR/JP3632ZH/T003	09/02/18	Application to transfer the permit in full from Engie FM Limited to Dow Silicones UK Limited
Transfer determined EPR/JP3632ZH/T003	07/03/18	Full transfer of permit complete
LCP Regulation 61 Notice sent to the Operator	09/05/18	Issue of a Notice under Regulation 61(1) of the EPR. Natural Resources Wales initiated review and variation to vary the permit to introduce new Emission Limit Values (ELVs) following the publication of the revised Best Available Techniques (BAT) Reference Document (BRef) for Large Combustion Plants (LCP).
LCP Regulation 61 Notice response received	09/11/18	Response received from the Operator
Additional information received	14/08/19	
Variation determined EPR/JP3632ZH/V004	30/06/20	Varied and consolidated permit issued in modern condition format to Dow Silicones UK Limited.

Other Part A installation permits relating to this installation		
Operator	Permit number	Date of issue
Dow Silicones UK Limited	BR9685IX	06/06/06

Other Part A installation permits relating to this installation

Operator	Permit number	Date of issue
Cabot Carbon Limited	BU2110IS	31/03/06
Navigator Terminals Windmill Limited	KP3734SH	01/06/06

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/JP3632ZH

Issued to

Dow Silicones UK Limited ("the operator")

whose registered office is

Barry Plant

Cardiff Road

Barry

Vale of Glamorgan

CF63 2YL

company registration number **00486170**

to operate a regulated facility at

Barry Cogeneration Plant

Wimborne Road

Dock No. 2

Barry

CF63 3DH

to the extent set out in the schedules.

The notice shall take effect from 01/07/2020.

Name	Date
Holly Noble	30/06/2020

Permitting Team Leader – Installations and RSR

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.