

4.12 BSCP15/4.13 Application for Non-Standard BM Unit

To: BSCCo	Date Sent: 08/10/2018
From: Participant Details	
Party ID: GFPT	Name of Sender:
Contact email address:	
Our Ref:	Contact Tel. No.
	Contact Fax. No.
Name of Authorised Signatory¹: Mark Symes	
Authorised Signature:	Password:

Confidentiality

This form, associated diagrams and BSC Panel documents will routinely be made available in the public domain unless the applicant informs BSCCo otherwise at the time of application									
Request for Confidentiality	YES/NO* *Delete as applicable								
If 'YES', what is confidential?									
<table border="1"> <thead> <tr> <th>Confidential²?</th> <th>Yes/No (if only part then indicate which part)</th> </tr> </thead> <tbody> <tr> <td>Application form</td> <td></td> </tr> <tr> <td>Diagrams</td> <td></td> </tr> <tr> <td>BSC Panel Documents</td> <td></td> </tr> </tbody> </table>	Confidential²?	Yes/No (if only part then indicate which part)	Application form		Diagrams		BSC Panel Documents		
Confidential²?	Yes/No (if only part then indicate which part)								
Application form									
Diagrams									
BSC Panel Documents									
Justification for requesting confidentiality:									

Site Details

BM Unit Id(s) (if known):	E_DBFRM-1
BM Unit Name(s) (Max 30 Characters):	Down Barn Farm
National Grid BM Unit Id(s) (if known and applicable):	DBFRM-1

¹If the BSCP38 Authorisations process has not been completed, this form can be signed by a registered company director and accompanied by a letter on company stationery signed by the same registered company director.

² BSCCo will publish all Panel determinations, though for confidential papers the details will be anonymised. BSCCo is required to keep a list of all Non-Standard BM Unit determinations which must be made available to any Party upon request.

Application:

Why are you applying for a Non-Standard BM Unit (please tick)	
The Plant and Apparatus does not fall into one of the standard categories in K3.1.4	X
The Plant and Apparatus does fall into one of the standard categories in K3.1.4 but a different configuration satisfies the requirements for BM Units in K3.1.2	
The Plant and Apparatus Exports or Imports are at a CVA Boundary Point at which there are other Exports or Imports for which another person is responsible (the Plant and Apparatus may or may not be of a Standard BM Unit configuration)	
Description of Non-Standard BM Unit configuration	
<p>Down Barn Farm Power Station is located in Wallington, and consists of 13 1.5MW generators, each capable of being controlled individually but in practice run as a single 19.5MW unit. The site is intended as a merchant plant, and will be operating both in the wholesale market and the balancing market.</p> <p>The 13 Generation Units (GUs) connect in pairs and one singularly to 33kV/400V transformers. These transformers are connected to the main site busbar, which is then connected at 33kV to the SSE distribution network via a single cable. Other than auxiliary supplies there are no further connections to any LDSO owned switchboard.</p> <p>The Settlement Metering System is located within the circuit breaker which makes up the point of connection between the power station and the LDSO's Distribution System, which is at the defined metering point.</p> <p>As shown in the site SLDs, the sites auxiliary supply also feed some isolated LDSO-owned assets (lighting, battery chargers) via a DNO distribution board along with the sites own site load. There are no loads unconnected with the generation on site.</p>	
Please provide electrical single line diagram(s) of the Plant and Apparatus included in the Non-Standard (and any Standard) BM Unit(s) to support your application. The diagrams need to clearly show the location of the Metering Equipment, in particular the Settlement Current and Voltage Transformers (CTs/VTs) and CT/VT ratios, all existing Boundary Points and any System Connection Points at or near the proposed Boundary Point(s) and which items of Plant and Apparatus comprise which Non-Standard (and any Standard) BM Unit(s).	
List of electrical single line diagrams attached and description of Plant and Apparatus covered by each diagram.	
GFC-0216-30-01 Single Line Diagram Rev C.pdf	

Rationale

Rationale with reference to BSC Section K3.1 for the request for the Non-Standard BM Unit:
 BSC Section K para 3.1.2(b) combined with 3.1.2(e) requires that a BM unit must consist of the smallest aggregation of plant or apparatus which are capable of being independently controlled.

While each genset on this site could, theoretically, be registered as a BM Unit, we propose that a single BM Unit covering all 13 engines would provide several benefits

- more useful service to the SO when being used in the BM (who would otherwise have to issue instructions to 13 different BM Units)
- There are recurring costs associated with maintaining CVA BM Units, these would be seventeen times higher than otherwise necessary if each generator was metered individually (£16,200 vs £2,400 per year¹), with no identifiable benefit
- Thirteen BMUs instead of one has cost and convenience implications for the central and GFP Trading's settlements systems. This also applies to other areas where the site is represented within control systems, for example the EDT and EDL systems of National Grid.

¹ (13 BMUs x 12 months x £100 + 2 MSIDs x 12 months x £50)