

## 4.12 BSCP15/4.13 Application for Non-Standard BM Unit

<b>To: BSCCo</b>	<b>Date Sent: 20/08/2018</b>
<b>From: Participant Details</b>	
<b>Party ID: INNOGY01</b>	<b>Name of Sender: Paul Hinksman</b>
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<b>Authorised Signature:</b>	<b>Password:</b>

### 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									
<b>Request for Confidentiality</b>	<b>YES/NO*</b> <span style="float: right;"><b>*Delete as applicable</b></span>								
If 'YES', what is confidential?									
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Application form									
Diagrams									
BSC Panel Documents									
Justification for requesting confidentiality:									

### Site Details

BM Unit Id(s) (if known):	TBC
BM Unit Name(s) (Max 30 Characters):	Grimsby A
National Grid BM Unit Id(s) (if known and applicable):	TBC

<sup>1</sup>If 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.

<sup>2</sup> 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)	
<p>Description of Non-Standard BM Unit configuration</p> <p>Grimsby Power Station is located on Moody Lane, Grimsby and consists of ten 2MW natural gas-fuelled generators, each capable of being controlled individually, but in practice run as a single 20MW unit.</p> <p>The power station is currently registered in SVA, RWE is planning to transfer the metering system into CVA. The long term plan is to provide balancing services to National Grid.</p> <p>The ten Generating Units (GUs) are connected in two groups of five. The first group is connected to Feeder 3 via Generator Switchboard 1. The second group is connected to Feeder 4 via Generator Switchboard 2. A single 33kV/11kV transformer connects the 11kV Switchboard B* to the local Licensed Distribution System Operator's (LDSO) distribution system (Northern PowerGrid (YEDB)) at 33kV via a single cable. The Settlement Metering System is located at the point of connection between the Power Station and the LDSO's distribution system which is at the Defined Metering Point (DMP).</p> <p>The site has two connection points to the LDSO, Feeder 1 (YE10) and Feeder 2 (YE20). RWE inherited this configuration form when the connection supplied Huntsman Tioxide factory (closed down in 2010). YE10 connection point including the 11kV Switchboard A has been de-energised and mothballed. The Bus Connector has been removed from service to physically separate the two 11kV Switchboards. There are future plans to install a second reciprocating gas engine project (Grimsby B) which will utilise the YE10 connection, the two connection points will continue to operate as separate connection. It is understood that Grimsby B would require Non Standard BM unit approval during the registration process.</p> <p>The auxiliary supply for all ten GUs is fed from Generator Switchboard 1 via a 11kV/400V transformer.</p> <p>*Please note that for technical reasons Grimsby 'A' Gas Engines are connected to the 'B' side of the 11kV Switchboard.</p>	
<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).</p> <p>Two electrical single line diagrams are attached:</p> <ol style="list-style-type: none"> <li>1. High level drawing detailing the meter configuration ref: Grimsby SLD Meter Configuration.pdf / Drawing Number: MAP/GRIM/0010/AP1</li> <li>2. Details electrical drawing of the Generating Units ref: Grimsby Genset SLD.pdf / 1681-11-01</li> </ol>	

**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.  
 Whilst each genset on this site could, theoretically, be registered as a BM Unit, we propose that a single BM

Unit covering all ten 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 ten different BM Units)
- There are recurring costs associated with maintaining CVA BM Units, these would be 10 times higher than otherwise necessary if each generator was metered individually (£13,200<sup>3</sup> vs £2,400 per year), with no identifiable benefit
- ten BMUs instead of one has cost and convenience implications for our central Trading & 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.
- If ten BM Units were required, there would need to be ten separate Metering Systems, located on each GU circuit, to measure the individual BM Unit flows. It would be extremely costly to install Metering Equipment and the associated metering class CTs and VTs for separate Metering Systems for each individual GU (estimate is ~£200,000).

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<sup>3</sup> (10 BMUs x 12 months x £100 + 2 MSIDs x 12 months x £50)