

**This note is in response to a question raised at the July 28<sup>th</sup> CUSC panel as to whether supplier BM Units were obligated, under the Grid Code, to provide Mandatory Frequency Response and so were exposed to the income or payment associated with Response Energy Payments.**

### **Summary**

Supplier BM Units do not have an obligation to provide frequency response under the Grid Code. As such they will not have any exposure to response holding payments as stipulated in CUSC section 4.1.3 and referred to in CUSC amendment proposal CAP107.

In effect the following Grid Code categories are obligated to provide mandatory Frequency Response.

- Generating Units
- DC Converters
- Power Park Modules

Please note. A number of entities within these categories have an exception to this obligation. These exceptions are noted in section CC.6 of the Grid Code

### **Relevant Grid Code Extracts**

The obligation to have in place the equipment to provide frequency response is laid down in section CC6.3.7 (a) of the Grid code. This section also stipulates who must have this equipment.

CC.6.3.7 (a)

Each **Generating Unit, DC Converter or Power Park Module** (excluding **Power Park Modules** in Scotland with a **Completion Date** before 1 July 2004 or in a **Power Station** in Scotland with a **Registered Capacity** less than 30MW) must be fitted with a fast acting proportional **Frequency** control device (or turbine speed governor) and unit load controller or equivalent control device to provide **Frequency** response under normal operational conditions in accordance with **Balancing Code 3 (BC3)**. The Frequency control device (or speed governor) must be designed and operated to the appropriate:

- (i) **European Specification**; or
- (ii) in the absence of a relevant **European Specification**, such other standard which is in common use within the European Community (which may include a manufacturer specification);

as at the time when the installation of which it forms part was designed or (in the case of modification or alteration to the **Frequency** control device (or turbine speed governor)) when the modification or alteration was designed.

However this is caveated by section (f) of CC.6.3.7 which describes exceptions to these obligations

For the avoidance of doubt, the requirements of Appendix 3 do not apply to:

- (i) **Generating Units** and/or **CCGT Modules** which have a

National Grid

**Completion Date** before 1 January 2001 in England and Wales

The obligation to have the capability to deliver frequency response is stipulated in BC.3 of the Grid Code.

BC3.5

RESPONSE FROM **GENSETS** (AND **DC CONVERTERS** AT **DC CONVERTER STATIONS** WHEN TRANSFERRING **ACTIVE POWER** TO THE **TOTAL SYSTEM**)

BC3.5.1 Capability

Each **Genset** (except those comprising of **Power Park Modules** in **SHETL's Transmission Area** in a **Power Station** with a **Registered Capacity** less than 30MW and those comprising of **Power Park Modules** in Scotland with a **Completion Date** before 1 July 2004) and each **DC Converter** at a **DC Converter Station** must at all times have the capability to operate automatically so as to provide response to changes in **Frequency** in accordance with the requirements of CC.6.3.7 in order to contribute to containing and correcting the **System Frequency** within the statutory requirements of **Frequency** control. . For **DC Converters** at **DC Converter Stations**, BC.3.1.3 also applies. In addition each **Genset** (and each **DC Converter** at a **DC Converter Station**) must at all times have the capability to operate in a **Limited Frequency Sensitive Mode** by operating so as to provide **Limited High Frequency Response**.