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| Explanatory note for establishing the LFC area operational methodology for the Synchronous Area of Great Britain |
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| Date 23/07/2018 |

Explanatory note

In relation to the Commission Regulation (EU) 2017/1485 establishing a guideline on electricity transmission system operation (hereafter referred to as “SO GL”)

For the single LFC Area within GB, as defined in the methodology for the Determination of LFC Blocks in the GB Synchronous Area, the TSO will undertake all the activities defined in the methodology for LFC area operational methodology in accordance with SOGL article 120.

The purpose of this methodology is more apparent in synchronous areas with more than one system operator coordinating activities relative to LFCR. In GB where there is a single ESO the development of this text is more of a formality. The ESO must monitor frequency quality and ensure that relevant action is taken.

The statutory obligations for the ESO relevant to the LFC operational methodology require that:

1. The ESO undertake to continually measure FRCE in GB. FRCE for GB is the measurement of the frequency deviation, which is the difference between actual frequency and its nominal 50Hz value. This may be a positive value or negative value and is measured in units of milli-Hertz. The control decisions and reporting obligations are based on a standard value for the electrical system to at least 1-second resolution and at least one location. (In practice this value is derived from multiple spot measurements at a higher measurement frequency from more than one location on the intact National Electricity Transmission System);
2. The ESO implements and operates a Frequency Restoration Process in GB. The Frequency Restoration Process, is one of the control processes which is used to restore the frequency to the restoration level within a maximum time duration of the Time to Restore Frequency. For information on the full set of control processes used in GB, that form part of the SOGL Article 140 – Process Activation Structure, please refer to the GB Synchronous Area Operational Methodologies Document, Article 18;
3. Utilising the Frequency Restoration Process and Frequency Replacement Process the ESO endeavors to maintain the general statistical frequency quality of the GB system inside the Frequency Restoration Control Error quality parameters defined in the GB Synchronous Area Operational Agreements document, Article 13.

Finally, and according to the Article 6(3)(g), this proposal shall be subject to approval by the NRA authority (ie OFGEM) of the Synchronous Area Great Britain.