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Grid Code Modification Proposal Form

GC0181:

Enhance the Effectiveness of System Incidents Reporting

Overview: Reports are available for industry and the Grid Code Panel to monitor the effectiveness of technical requirements in the Grid Code and Distribution Code – GC0105 and GC0151. The data and the reports are not effectively serving their purpose due to the way the system incidents are being reported. This modification aims to be a further improvement of GC0105.

Modification process & timetable



Status summary: The Proposer has raised a modification and is seeking a decision from the Panel on the governance route to be taken.

This modification is expected to have a: **Low impact** on Transmission System Owners

Modification drivers: System Operability, System Security, Transparency

Proposer's recommendation of governance route	Self-Governance modification with assessment by a Workgroup	
Who can I talk to about the change?	Proposer: Sabiha Farzana Sabiha.Farzana@statkraft.com	Code Administrator Contact: Jess Rivalland jessica.rivalland@neso.energy

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What is the defect you are trying to resolve?

The existing reporting process has room for improvement to increase its effectiveness. Here are some key areas we believe need improvement:

- Reports are made available to the industry quite late, often three months after the events have occurred.
- The data sampling rate is insufficient for thorough analysis.
- Reports do not incorporate data from various locations across Great Britain.

Additionally, there may be other concerns that the Workgroup can explore. For instance, the recent Spanish blackout demonstrates the importance for reliable data to analyse the causes of Grid disturbance events

Why change?

To carry out effective analysis and understand the cause of Grid disturbance events.

What is the Proposer's solution?

The Proposer recommends the following requirements for NESO in its capacity as the GB System Operator in the Grid Code Operating Code (OC)3.4:

- OC3.4.3 – Reduce the reporting time from the current three months to one week.
- OC3.4.1(b)(iii) – Increase the sampling rate from the existing 1 second to 100 milliseconds.
- Gather frequency measurements from at least five different regions across Great Britain.

Additionally, the Proposer is keen to receive feedback from the Workgroup regarding other potential improvements and solutions.

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What is in and out of scope?

OC3.4 is in scope

Draft legal text

OC3.4.1(b)(iii) the Frequency record **from at least five different regions** (in table and graphical format) at **100 millisecond** intervals for **10 seconds** before and 1 minute after the Significant Event.

OC3.4.3 The Company shall prepare and publish the System Incidents Report **weekly** in accordance with the following timescales:

- (a) a data cut-off date of the end of each **week** for that reporting **week**;
- (b) data is collated, reviewed and processed in the subsequent two **weeks** for each reporting **week**;
- (c) System Incidents Report to be published at latest on the last working day of the second **week** after each reporting **week** (in other words the report for **the first week in January** would be published on the last working day of **the second week in January**, and so on) and submitted to the next regular Grid Code Review Panel. For the avoidance of doubt, if there are no incidents arising under OC3.4.1 (a)-(c), a System Incidents Report would nevertheless still be published stating that 'No System Incident occurred in month [X]

What is the impact of this change?

Proposer's assessment against Grid Code Objectives	
Relevant Objective	Identified impact
(i) To permit the development, maintenance and operation of an efficient, coordinated and economical system for the transmission of electricity;	Positive This change means that the energy system can operate more safely and reliably now and in the

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	future in a way that benefits end Consumers.
(ii) Facilitating effective competition in the generation and supply of electricity (and without limiting the foregoing, to facilitate the national electricity transmission system being made available to persons authorised to supply or generate electricity on terms which neither prevent nor restrict competition in the supply or generation of electricity);	Neutral
(iii) Subject to sub-paragraphs (i) and (ii), to promote the security and efficiency of the electricity generation, transmission and distribution systems in the national electricity transmission system operator area taken as a whole;	Positive This change means that the energy system can operate more safely and reliably now and in the future in a way that benefits end Consumers.
(iv) To efficiently discharge the obligations imposed upon the licensee by this license* and to comply with the Electricity Regulation and any relevant legally binding decisions of the European Commission and/or the Agency; and	Neutral
(v) To promote efficiency in the implementation and administration of the Grid Code arrangements	Neutral

* See *Electricity System Operator Licence*

Proposer's assessment of the impact of the modification on the stakeholder / consumer benefit categories

Stakeholder / consumer benefit categories	Identified impact
Improved safety and reliability of the system	Positive This change mean that the energy system can operate more safely and reliably now and in the future in a way that benefits end Consumers

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Lower bills than would otherwise be the case	Neutral
Benefits for society as a whole	Positive The recent Spanish Blackout around 12:35 on April 28, 2025 demonstrates the reliance of the society on a safe and secure electricity grid.
Reduced environmental damage	Neutral
Improved quality of service	Neutral

When will this change take place?

Implementation date:

18 May 2026

Proposer's justification of Implementation date:

The modification should be able to be developed quickly before consultation, and should not take long to implement.

Date decision required by

30 March 2026

Implementation approach

The existing processes to operate OC3.4 to be updated.

Proposer's justification for governance route

Governance route: Self-Governance modification with assessment by a Workgroup

The Proposer has recommended a Self-Governance Modification as the Proposer does not think that the proposed solution will have a material impact on industry

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parties. The Modification is unlikely to discriminate between different classes of Grid Code Parties and is unlikely to have a material effect on:

- Existing or future electricity customers; Competition in the Generation, Distribution, or supply of electricity
- Commercial activities connected with the Generation, Distribution or supply of electricity
- The operation of the National Electricity Transmission System Matters relating to sustainable development, safety or security of supply
- The management of market or network emergencies
- The Grid Code's governance procedures or the Grid Code's modification procedures.

The Proposer has recommended an assessment by a Workgroup, allowing the Workgroup to collaborate and assist the Proposer in finding potential solutions.

Interactions

<input type="checkbox"/> CUSC	<input type="checkbox"/> BSC	<input type="checkbox"/> STC	<input type="checkbox"/> SQSS
<input type="checkbox"/> European	<input type="checkbox"/> EBR Article 18	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Network Codes	T&Cs ¹	modifications	

No interactions.

Industry engagement and feedback

To develop their solution, the Proposer had a meeting with NESO representatives Frank Kasibante, Claire Newton, Antony Johnson, Graham Lear and Jesus Sanchez Cortes post presentation to Grid Code Development Forum (GCDF) in November 2024.

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Proposer engaged with Guy Nicholson, Head of Zero Carbon Grid Solutions, Statkraft. And also engaged with Lisa Waters, founding Director of Waters Wye Associates (WWA) to refine solution.

Acronyms, key terms and reference material

Acronym / key term	Meaning
BSC	Balancing and Settlement Code
CUSC	Connection and Use of System Code
EBR	Electricity Balancing Regulation
GC	Grid Code
GCDF	Grid Code Development Forum
OC	Operating Code
STC	System Operator Transmission Owner Code
SQSS	Security and Quality of Supply Standards
T&Cs	Terms and Conditions

Reference material

- [GCDF presentation slides](#)