

Grid Code Review Panel

Thursday 30 June 2022

Online Meeting via Teams



WELCOME

As we continue to operate in these uncertain times and following best practice from other businesses, we want to adapt to be able to facilitate the governance process in the best possible way. Since moving to virtual Panel meetings, we have found it harder to accurately capture minutes and attribute comments correctly to attendees. We are also conscious of the impact of short periods of poor sound quality. With your consent, we wish to use Microsoft Teams to record all Panel meetings to help us accurately document minutes. We want to assure you that the recordings will be explicitly used to document minutes only and the same protocol for Panel meetings still applies in terms of strict confidentiality. As has always been the case, the draft minutes will be sent to Panel and the Chair for approval each month. Once the minutes are approved, the recording will be deleted. A reminder of this and consent will be sought at the beginning of each meeting, to be noted in the minutes.

As the independent Panel Chair, we have tested the appropriateness of recording Panel meetings with Trisha McAuley who is supportive of the approach. We welcome any comments or feedback on this.

Purpose of Panel & Duties of Panel Members

The **Panel** shall be the standing body to carry out the **functions** referred to in the Governance Rules (**GR3.1.1**)

Functions (GR.3.2)

The **Panel** shall endeavour at all times to operate:

- in an **efficient, economical and expeditious manner**, taking account of the complexity, importance and urgency of particular Modification Proposals; and
- With a view to ensuring that the **Grid Code** facilitates **achievement of the Grid Code Objectives**.

Duties of Panel Members & Alternates (GR.3.3)

1. Shall act **impartially** and in accordance with the requirements of the **Grid Code**; and
2. Shall not have any **conflicts of interest**.

Shall not be representative of, and shall act without undue regard to the particular interests of the persons or body of persons by whom he/she was appointed as Panel Member and any Related Person from time to time.

Approval of Panel Minutes

Approval of Panel Minutes from the Meeting held
26 May 2022



Actions Log

Review of the actions log



Chair's Update

Update from the Chair

Authority Decisions and Update



GC0138 decision received on 10 June, implemented on 24 June 2022.

The Authority's publication on decisions can be found on their website below:

<https://www.ofgem.gov.uk/publications/code-modificationmodification-proposals-ofgem-decision-expected-publication-dates-timetable>

New modifications submitted

**GC0157 Grid Code
Housekeeping
Modification**



CODE CHANGE DELIVERY

Technical Codes

GC0157 Grid Code Housekeeping Modification

Grid Code Review Panel, 30th June 2022

Frank Kasibante

GC0157 Grid Code Housekeeping Modification

What's the issue?

- This Proposal seeks to make minor corrections in the Grid Code of errors identified from previous implementations.
- It also presents ***for information only*** an amended housekeeping process that will be used by the ESO going forward.

Why Change?

- This change is required to correct errors made from previous implementations to the Grid Code.

What is the proposed solution?

- Implement currently identified housekeeping changes in the Grid Code.

What is the benefit for the consumer?

- Improved accuracy and quality of the code.

What is the proposed governance route?

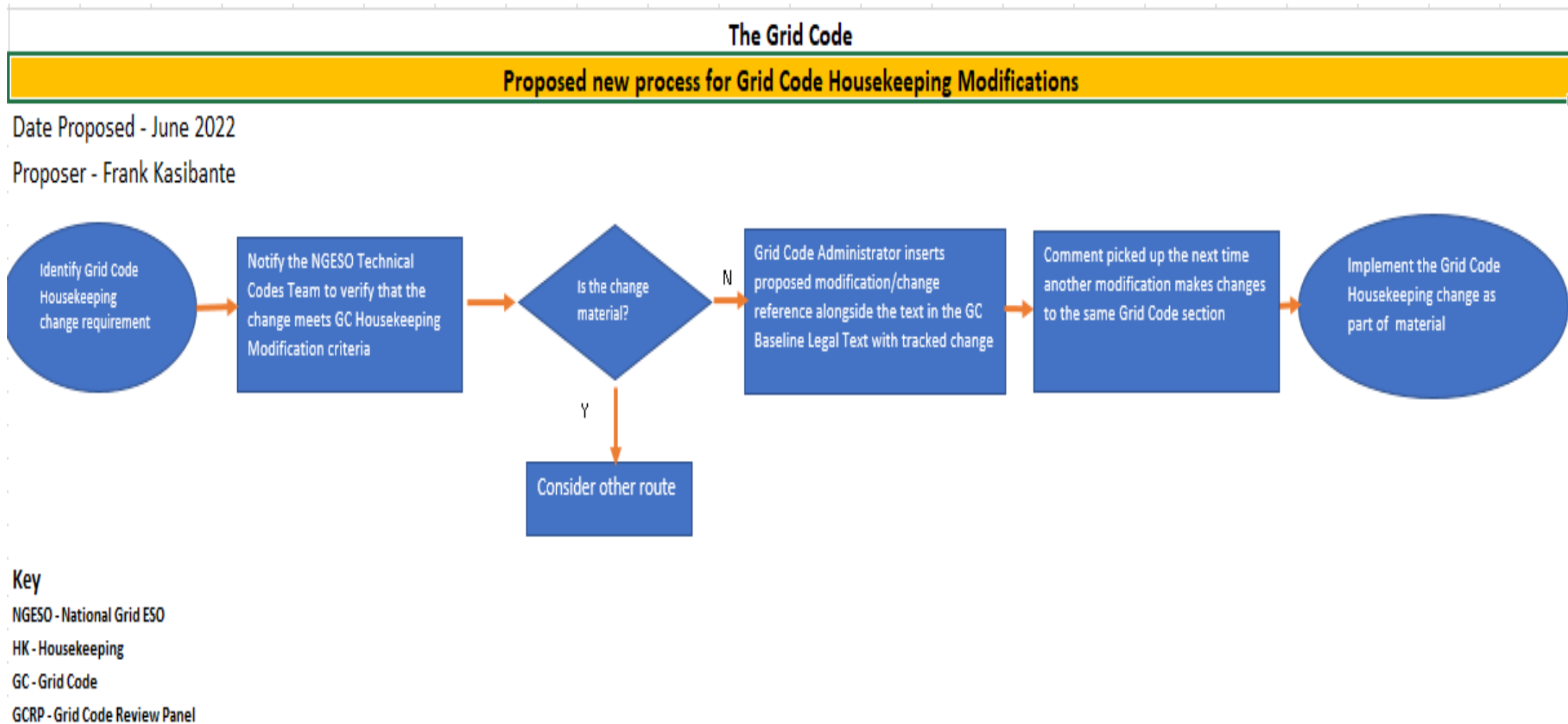
- Self-Governance modification to proceed to Code Administrator Consultation

Why is Self-Governance the proposed route?

- The changes to the code are not material.

GC0157 Grid Code Housekeeping Modification

Proposed new Housekeeping process



Timeline for GC0157 – Proposed Timeline – Code Administrator Consultation

Milestone	Date
Modification presented to Panel	30 June 2022
Code Administrator Consultation (24 working days)	05 July 2022 to 05 August 2022
Draft Self Governance Modification Report issued to Panel (5 working days)	17 August 2022
Panel undertake Draft Self Governance Modification Report determination vote	25 August 2022
Final Self Governance Modification Report issued to Panel to check votes recorded correctly	30 August 2022
Appeals Window (15 working days)	07 September 2022 to 28 September 2022
Implementation Date	06 October 2022

GC0157 – the asks of Panel

- **AGREE** that this Modification meets the Self-Governance Criteria (Panel decision) rather than Standard Governance (Ofgem decision)
- **AGREE** that this Modification should proceed to Code Administrator Consultation
- **NOTE** that there appear not to be any impacts on the Electricity Balancing Regulation (EBR) Article 18 terms and conditions held within the Grid Code.
- **NOTE** the proposed timeline

Grid Code Self-Governance Criteria

Self-Governance Criteria	<p>A proposed Modification that, if implemented,</p> <ul style="list-style-type: none">(a) is unlikely to have a material effect on:<ul style="list-style-type: none">(i) existing or future electricity consumers; and(ii) competition in the generation, storage, distribution, or supply of electricity or any commercial activities connected with the generation, storage, distribution or supply of electricity; and(iii) the operation of the National Electricity Transmission System; and(iv) matters relating to sustainable development, safety or security of supply, or the management of market or network emergencies; and(v) the Grid Code's governance procedures or the Grid Code's modification procedures, and(b) is unlikely to discriminate between different classes of Users.(c) other than where the modification meets the Fast Track Criteria, will not constitute an amendment to the Regulated Sections of the Grid Code.
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Inflight Modification Updates

Jennifer Groome, Code Administrator

GC0146 Withdrawal

Solutions for frequency control Power Park Modules

The Proposer withdrew their support for GC0146 on 7 June. A withdrawal window was opened up for 5 days from this date. No parties came forward to opt for the modification.

GC0146 - the asks of Panel

- **AGREE** that the Modification can be withdrawn.

GC0154 Update

Incorporation of interconnector ramping requirements into the Grid Code as per SOGLA119

Following the Workgroup meeting on 16 June 2022 the Workgroup decided that a cost/benefit analysis is required ahead of the Workgroup Consultation. A refined timeline will be presented to the July Grid Code Panel for approval.

GC0156 Terms of Reference Update

The Workgroup would like to include the following within their Terms of Reference:

Workgroup Term of Reference

Review the ESRS requirements as established by NGESO (in conjunction with the ESRS Steering Group), and as provided to the GC0156 group, to clarify whether:

- the requirement to restore 'demand' is unambiguously understood;
- the requirement to restore '60% and 100%' of demand is unambiguously understood;
- there is an unambiguous understanding of the time related requirements; and
- there is an unambiguous understanding of the term 'region', Understand, consider and develop requirements such that the necessary changes can be made in the Grid Code and Distribution Code to facilitate the implementation of the Electricity System Restoration Standard as directed by BEIS in Special Condition 2.2 of National Grid Electricity System Operator's Transmission Licence.

Consider and develop the necessary changes that can be made in the Grid Code and Distribution Code to facilitate the implementation of NGESO's interpretation of the Electricity System Restoration Standard as directed by BEIS in Special Condition 2.2 of National Grid Electricity System Operator's Transmission Licence. (i.e. 60% of Demand to be restored within 24 hours (all regions) and 100% of Demand within 5 days with the assumption that the Total System is in an operable state.

Consider any feedback from the ESRS Steering Group in the solution and Final Workgroup Report.

Ensuring measures are put in place in the Grid Code to facilitate the requirements of the ESRS (60% of Demand to be restored within 24 hours (all regions) and 100% of Demand within 5 days) with the assumption that the Total System is in an operable state.

Review the findings of the seven ESRS workstreams to assess what information from those workstreams is relevant to the Grid Code and this Workgroup.

Clarify the obligations and implications for Restoration Service Providers and other Users (Grid Code and Distribution Code) of meeting the ESRS.

Consider what the impact of a Fault Ride Through event as the cause (or suspected cause) of the national power outage, will be in terms of compliance with GC0151 and GC0155. In addition, consider any relevant recommendations from other workgroups and E3C which would have an impact on the ESRS

GC0156 Change of Title

The Workgroup agreed to change the title of the modification from: “Implementation of Electricity System Restoration Standard” to “Facilitating the implementation of the Electricity System Restoration Standard” as the latter better expresses the purpose of the modification.

GC0156 - the asks of Panel

- **AGREE** that additional points within Terms of Reference
- **AGREE** the change of title

Panel Tracker

Jennifer Groome



Prioritisation Stack

Workgroup Report

**GC0148: Implementation of EU Emergency and Restoration
Code Phase II**

Milly Lewis

GC0148 Summary

- GC0148 outlines the work that needs to be completed within GB to comply with the retained European Law and address some other related items which fit within the Emergency and Restoration Code arena.
- Grid Code Panel unanimously agreed that GC0148 should follow Standard Governance route and proceed to Workgroup.
- One solution was developed, 2 WAGCMs were brought forward by the Workgroup.
- On 27 May 2022, the Workgroup concluded they had addressed the Terms of Reference. They also concluded unanimously that the Original, WAGCM2 (7 out of 7 votes) and by a majority that WAGCM1(6 out of 7 votes) better facilitated the Applicable Grid Code Objectives than the Baseline.

What are the GC0148 Solutions – the Original

GC0148 Original

Update Grid Code for compliance with these requirements. This includes updates to low frequency demand disconnection, communication systems, critical tools and facilities, System Defence Plan, System Restoration Plan, Test Plan, the inclusion of smaller non-CUSC Parties and requirements for electricity storage modules during low system frequencies.

Following Workgroup Consultation feedback, the proposer and Workgroup agreed that Distributed Restart should be removed from GC0148 solution. Work done will be transferred to GC0156 so that it can be fully developed, and discrepancies are better addressed.

- This solution seeks to provide greater robustness and resilience measures to protect the system in the event of distress and to provide additional measures to restore the system in the event of a total or partial system shutdown.
- This change would also have a positive impact on consumers through greater clarity of the industry codes, improvements and governance of the System Defence Plan, the System Restoration Plan and Test Plan.
- **Ofgem's decision will be required by 2 December 2022**

Implementation Date: 10 working days after Authority's decision

What is the GC0148 Solution – 2 alternatives

Alternative Solution	Details	Implementation Date
WAGCM1	<p>As per the Original but:</p> <ul style="list-style-type: none">• Include compliance with ERNC Article 40(2)-(4) refers to exchange of information from ESO to stakeholders. It adds on notification requirements for Emergency, Black Out and Restoration System State	As per the Original solution
WAGCM2	<p>Identical to WAGCM1 but also</p> <ul style="list-style-type: none">• Adds in the Grid Code Definitions for Normal and Alert States. This is to ensure it is clear what the system state is in, when it is not in a Emergency/Blackout or Restoration System State	As per the Original Solution

GC0148 Workgroup Consultation

The Workgroup held their Workgroup Consultation between 28 March 2022 and 27 April 2022 and received 7 non-confidential responses. Key points were;

- **Distributed Restart:** Most respondents considered that Distributed ReStart should be moved out of GC0148 and into GC0156 (Electricity System Restoration Standard). The one respondent who felt that Distributed ReStart should be retained within GC0148 qualified their Statement with “Distributed restart amendments could be included in either the GC0148 or GC0156 proposals”
- **72 hours resilience period:** There was general support for a 72 hour mains independence resilience period (rather than the minimum 24 hour period in E&R) though a number of questions were raised as to how this would fit with the requirement to restore 100% of the demand in 5 days (120 hours).
- There was general support for the treatment of **Non-CUSC Parties** falling under the framework of E&R through contracts with the ESO so long as they are transparent, consistent and treated holistically in terms of the “Total System”

GC0148 Workgroup Terms of Reference

Workgroup Term of Reference	Location in Workgroup Report
a) Implementation and costs;	<p><u>Page: 23</u></p> <p>There may be some costs in terms of comms resilience and critical tools and facilities, but most Users have them already, so it is considered relatively low. There will be additional costs with regards to communications, infrastructure but this is more of an issue relating to Electricity System Restoration Standard (ESRS) and will be picked up as part of GC0156</p>
b) Review draft legal text should it have been provided. If legal text is not submitted within the Grid Code Modification Proposal the Workgroup should be instructed to assist in the developing of the legal text; and	<p><u>Page: 20</u></p>
c) Consider whether any further Industry experts or stakeholders should be invited to participate within the Workgroup to ensure that all potentially affected stakeholders have the opportunity to be represented in the Workgroup. Demonstrate what has been done to cover this clearly in the report.	<p>The Workgroup consisted of appropriately experienced personnel. Specialist knowledge was called in in respect of the Control Telephony requirements.</p>
<p>d) Consider how the following remaining elements of the Network Code Electricity Emergency and Restoration (NCER) can be implemented in the GB Grid Code:</p> <p>i) Articles 15(5) – 15(8), 41 and 42(1)(2) and (5) of the NCER which have an implementation date of 18 December 2022.</p> <p>ii) Articles 15(9), 48(3) and 50 which are consequentially related to Articles 15(5) – 15(8), 41 and 42(1)(2) and (5) of the NCE</p> <p>iii) The outstanding issues arising from implementation of the NCER carried out through Grid Code modifications GC0127 and GC0128, namely a) whether and, if appropriate, how the NCER should apply to Non-CUSC Parties and b) the requirements applicable to Electricity Storage Modules when transitioning from an import mode of operation to an export mode of operation during low system frequencies.</p>	<p><u>Pages: 8 to 15</u></p>

GC0148 Workgroup Terms of Reference

Workgroup Term of Reference	Location in Workgroup Report
e) Whilst it is not proposed to implement the recommendations / findings of the Distributed Re-Start Project as part of this modification, where time allows and the Workgroup believe it is appropriate and efficient, then the Workgroup may consider if it is expedient to include those elements of the Distributed Re-start project that have been finalised and agreed by affected stakeholders in this modification. Alternatively, the Workgroup should make code changes in such a way as to facilitate the future delivery of code changes associated with the Distributed Re-Start Project	<u>Pages: 16 to 18</u> Requirements for Distributed ReStart has been discussed by Workgroup and they have decided this should be moved to GC0156.
f) Following the 9 th August 2019 System frequency incident, the E3C's initiated work (being carried out by the Electricity Task Group) on the low frequency demand disconnection (LFDD) scheme. The Workgroup should ensure that they are familiar with this work and ensure that the solution developed in GC0148 is co-ordinated with any code changes that <i>may be required to implement the findings of the ETG work</i> .	As part of the solution a meeting has been held with those involved in the E3C work to ensure their solution is consistent with the development of the GC0148 solution.
g) As a joint workgroup (as recommended by the Proposer), consider the impact on the Distribution Code and EREC G99.	<u>Pages: 18 and 23</u>
h) Consider any other cross codes impacts.	<u>Pages: 18 and 23</u>

GC0148 - the asks of Panel

- **AGREE** that the Workgroup have met their Terms of Reference
- **AGREE** that this Modification can proceed to Code Administrator Consultation
- **NOTE** that this Modification does not impact the Electricity Balancing Regulation (EBR) Article 18 terms and conditions held within the Grid Code
- **NOTE** the ongoing timeline; with the Ofgem decision required by 2nd December

GC0148 Next Steps (Standard Governance)

Milestone	Date
Code Administrator Consultation	06 July 2022 to 6 August 2022
Draft Final Modification Report issued to Panel	17 August 2022
Draft Final Modification Report presented to Panel	25 August 2022
Final Modification Report issued to Panel to check votes recorded correctly (5 working days)	30 August 2022
Submission of Final Modification Report to Ofgem	07 September 2022
Ofgem Decision required by	02 December 2022



Grid Code Development Forum and Workgroup Day(s)



Rob Wilson, NGESO

Grid Code Development Forum – Previous and Next

1 June 2022

RIIO-2 BP2 Consultation Update

An update was shared on the draft RIIO-2 Business Plan 2 (BP2) consultation. The RIIO-2 price control timeline documenting the key planning milestones was shared, the three roles which will be focussed on during the BP2 period, with an overview of each of the roles, including some of the new activities that will be included within this period.

Whole System Technical Code Project Update

A brief introduction was shared to the group in relation to the Digitalised Whole System Technical Code Project, with an update of the specific project workstreams which have been considered and will be taken forward. A timeline was shared for the Alignment, Simplification and Rationalisation (ASR), workstream with the key milestones documented.

6 July 2022 (Deadline for Agenda items - 29th June)

Agenda items TBC, but future agenda items will include:

- ***CATO/Early Competition***
- ***Offshore Co-ordination***
- ***Grid Code modification in relation to a change to Slope Tolerance (CC.A.7.2.2.3. and ECC.A.7.2.2.3)***

Standing Items

- **Distribution Code Panel update (Alan Creighton)**
- **JESG Update (information only)**

JESG Update

Joint European Stakeholder Group – 14 June 2022

[Meeting materials and Headline Report](#)

Next meeting – 12 July 2022

Updates on other industry codes



AOB

- Whole System Technical Code Letters

Next Panel Meeting

10am on 28 July 2022 - Faraday House

Papers Day – 20 July 2022

Modification Proposals to be submitted by 13 July 2022

Close



Trisha McAuley
Independent Chair, GCRP