

# Grid Code Review Panel (GCRP)

## 21 March 2024

### Grid Code Review Panel Minutes

**Date:** 21/03/2024      **Location:** Microsoft Teams  
**Start:** 10:00 AM      **End:** 1:30 PM

### Participants

Attendee	Initials	Representing
Trisha McAuley	TM	Independent Panel Chair
Milly Lewis	ML	Panel Secretary, Code Administrator
Lizzie Timmins	LT	Panel Technical Secretary, Code Administrator
Alan Creighton	AC	Panel Member, Network Operator Representative
Alastair Frew	AF	Panel Member, Generator Representative
Darshak Shah	DS	Panel Member, Generator Representative
David Monkhouse	DM	Panel Member, Offshore Transmission Licensee Representative
Graeme Vincent	GV	Alternate, Network Operator Representative
Gurpal Singh	GS	Authority Representative
John Harrower	JH	Panel Member, Generator Representative
Nadir Hafeez	NH	Authority Representative
Robert Longden	RL	Panel Member, Supplier Representative
Ross Kirkwood	RK	Panel Member, Onshore Transmission Licensee Representative
Sigrd Bolik	SB	Generator Representative
Terry Baldwin	TB	Panel Member, National Grid ESO

### Apologies

Attendee	Initials	Representing
Matthew White	MW	Panel Member, Network Operator Representative

### Presenters / Observers

Attendee	Initials	
Alana Collis-Dugmore	ACD	National Grid ESO, Observer
Alison Price	AP	National Grid ESO, Presenter - Connections Update
Antony Johnson	AJ	National Grid ESO, Proposer GC0169
Elana Byrne	EB	ESO Code Administrator, GC0103 Chair

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Frank Kasibante	FK	National Grid ESO, Proposer GC0168
Jay Ramachandran	JR	National Grid ESO, Presenter GC0168
Mike Oxenham	MO	National Grid ESO, Presenter - Connections Update
Steve Baker	SB	National Grid ESO, Observer

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## 1. Introductions, Apologies and Declarations of Interest

10133. Apologies were received from Matthew White. No declarations of interest were noted.

10134. The Chair informed the Panel that Jonathan Whitaker had left the ESO Code Administrator and that Milly Lewis would be Panel Secretary until May 2024 when Lizzie Timmins would take the role.

## 2. Minutes from previous meetings

10135. The minutes from the Panel meeting held on 22 February were approved subject to the incorporation of amendments from AC.

## 3. Review of actions log

ML gave an update on the open actions, as follows:

10136. **Action 451** – action to remain open, with further update to be given at April 2024 Panel.

## 4. Chair's update

10137. The Chair noted that the Connections Delivery Board was due to meet on 21 March 2024, advising that Sarah Carter will be attending on behalf of ESO Code Administrator, as future meetings clash with the Grid Code Review Panel meetings.

## 5. Authority Decisions

10138. GS advised that a decision on GC0154 was made on 15 March 2024 to approve WAGCM1, noting that this is due to be implemented on 02 April 2024.

## 6. New Modifications

### GC0168: Submission of Electro Magnetic Transient (EMT) Models

10139. FK gave a presentation on GC0168, which seeks to require certain Users to provide the ESO with EMT models to enable analyses such as system oscillation, inverter stability and Transient Over Voltage (ToV).

10140. There was significant Panel discussion relating to the modification, covering the following areas:

- Costs to Generators resulting from the modification;
- Users who would be required to provide EMT models;
- Interactions between SA2004 and H/04;
- Previous modifications with discussion around EMT models and whether they were appropriate in giving all information required; and
- Whether DNOs would be obligated to collect information from embedded Power Stations.
- Potential for the requirement for a DCode modification, and other cross-code impacts

10141. The Panel agreed that the modification should proceed to Workgroup under the Standard Governance route and agreed Terms of Reference for the modification.
10142. Network Operator representatives on the Panel agreed to meet offline to discuss whether an associated DCode modification would be required, and the potential for a joint Workgroup **(Action 454)**.
10143. ML noted that nominations will be opened after the April Panel, following completion of Action 454.

**GC0169: Material changes identified from Grid Code Modification GC0136 and Consistency of requirements between the Connection Conditions and European Connection Conditions**

10144. AJ gave a presentation on GC0169, which aims to address i) a number of appropriate non specialist changes identified following Grid Code Modification GC0136: Non-material changes to the Grid Code following implementation of the EU Connection Codes and ii) alignment in the requirements between the Connection Conditions and European Connection Conditions and interactions with the European Compliance Processes.
10145. AJ suggested that a joint Grid Code/DCode Workgroup will be required due to the changes required to G99.
10146. The Panel Secretary presented their slide on Critical Friend Feedback, which requested clarity throughout the Proposal document and suggested that the modification covers multiple defects and should be split out into two modifications.
10147. GS noted that they felt there are two distinct elements identified within the modification, covering multiple defects, and suggested that it should be split into multiple modifications. AJ noted that the same parties were likely to be affected by the different issues so advised that one Workgroup would be the most efficient way of covering it.
10148. GS pointed out that multiple material defects on different subjects included in this proposal need assessing individually against the applicable Grid Code objectives, which would require potential changes to the Authority's templates for decisions and reports. As per standard practice and the way the Governance rules outline, separate modifications should be raised to cover different Grid Code defects with material impact which require Authority determination.
10149. GS highlighted that the potential defect i) c on changing the name references of SHETL to SHET comes across as a non-material defect, which should be dealt via
10150. Self-Governance rather than asking for Authority determination by combining it with unrelated material defects.
10151. The Panel had a discussion regarding this; one Panel member noted that the modification should be split but should proceed under one Workgroup.
10152. The Panel agreed by majority that the modification as presented to Panel could proceed as is under Standard Governance.
10153. The Panel did not agree Terms of Reference for the modification.
10154. AJ agreed to develop draft Terms of Reference for the modification and to reach out to the DCode Administrator to form a joint Workgroup.

**GC0170: Typographical and formatting updates following the implementation of GC0156: Facilitating the Implementation of the Electricity System Restoration Standard**

10155. ML gave a presentation on GC0170, which aims to make minor amendments to the Grid Code which were highlighted through the implementation of GC0156: Facilitating the Implementation of the Electricity System Restoration Standard.
10156. The Panel unanimously agreed that the modification meets the Fast Track Self Governance criteria and should proceed in line with the timeline submitted within the Panel papers.

## 7. In flight modification updates

10157. ML noted that the Code Administrator Consultation for GC0117 closes on 25 March 2024 and noted that ML will be taking over as chair of GC0166.

## 8. Horizon Scan

10158. AP and MO provided an update on expected connections related modification proposals to the Panel, noting that they are not currently proposing any Grid Code modifications. Slides can be found at the following link: [Grid Code Review Panel Meeting - 21.03.2024 | ESO \(nationalgrideso.com\)](#)

10159. AC noted that there may be data interactions with several in-flight modifications (GSR029 and GC0139) as well as the Strategic Connections Group and the Batteries Sub-Group. AC also noted that the proposed data submission windows should align with existing Grid Code data submission timelines.

## 9. Workgroup Reports

### GC0159: Introducing Competitively Appointed Transmission Owners

10160. ML gave a presentation on GC0159, which aims to introduce the concept of Competitively Appointed Transmission Owners (CATOs) to the Grid Code to enable Onshore Network Competition for the design, build and ownership of Onshore Transmission assets.

10161. ML advised that GC0159 was sent back to Workgroup in December 2023 due to concerns that the Workgroup had not fully considered interactions with GC0156, noting that some legal text amendments had been made following Panel feedback.

10162. SB outlined the legal text amendments that had been made, noting rationale for why some amendments had not been made.

10163. AC requested that the final version of legal text be recirculated with the Panel prior to Code Administrator Consultation.

10164. The Panel agreed that the Workgroup has met the Terms of Reference of the modification and that it can proceed to Code Administrator Consultation once the Workgroup has agreed the amended legal text.

### GC0163: GB Grid Forming (GBGF) - Removal of Virtual Impedance restriction

10165. EB gave a presentation on GC0163, which seeks to clarify the Grid Code with regard to the treatment of Virtual Impedance as defined within a Grid Forming Plant.

10166. The Panel agreed unanimously that the Terms of Reference have been met and that the modification can proceed to Code Administrator Consultation.

## 10. Prioritisation Stack / Dashboard

10167. The Panel reviewed the prioritisation stack and agreed to add new modifications GC0168 and GC0169 between GC0166 and GC0164.

10168. The resulting prioritisation stack can be found via the following link: [Grid Code Review Panel Meeting - 21.03.2024 | ESO \(nationalgrideso.com\)](#)

## 11. Draft Final Modification Reports

10169. There were no Draft Final Modification Reports presented to the Panel.

## 12. Reports to Authority

10170. There were no updates for the Panel.

### 13. Implementation updates

#### GC0156: Facilitating the Implementation of the Electricity System Restoration Standard

10171. ML advised that GC0156 was implemented on 04 March 2024 and that GC0170 has been raised to address typographical issues with the legal text.
10172. ML also advised that the Test Plan is with Ofgem for decision and that there are some outstanding comments currently being addressed with the Distribution Restoration Zone Control System standard, which will be submitted to the Panel in due course.
10173. ML noted that the Authority Decision letter referred to EBR implications, but advised this was not raised within Workgroup, although the requirements have been fulfilled and steps were in place to make sure oversights did not happen in the future.

### 14. Governance

10174. There were no updates for the Panel.

### 15. Grid Code Development Forum (GCDF)

10175. TB advised that the the last meeting was held on 06 March 2024, covering the following items:
- a. Update on Fax Machine Replacement;
  - b. Overview of the approved code modifications for the implementation of the Electricity System Restoration Standard (ESRS); and
  - c. Update on Proposed changes to the Grid Code in the treatment of Embedded Small Power Stations with a Bilateral Embedded Generation Agreement.
10176. The meeting papers and presentation can be found via the following link: [Grid Code Development Forum \(GCDF\) - 06.03.2024 | ESO \(nationalgrideso.com\)](#)
10177. The next meeting is planned for 03 April 2024, with 27 March 2024 being the deadline for agenda items.

### 16. Standing Groups

#### **Distribution Code Review Panel Update**

10178. AC advised that the Distribution Code Review Panel have not met since the previous Grid Code Review Panel meeting.

#### **Joint European Stakeholder Group (JESG)**

10179. ML advised that the next meeting is due to take place on 09 April 2024.

#### **CUSC Overview**

10180. ML presented a slide to the Panel relating to CUSC modification changes from February 2024. This can be found in the [Grid Code Review Panel papers](#).

### 17. Updates on other Industry Codes

10181. RR noted that modification GC0166 will have an impact on the BSC and requested that the ESO raise this modification as soon as possible to begin the modification process.

## 18. Challenges to Modification Progress

10182. There were no updates for the Panel.

## 19. Electrical Standards

10183. There were no updates for the Panel.

## 20. Any Other Business (AOB)

10184. GS noted that the Authority have recently published two consultations on Energy Code Reform:

- An [Ofgem consultation](#) on the implementation of Energy Code Reform (closing date 23 April 2024).
- A joint [DESNZ/Ofgem consultation](#) on Code Manager licence and Code Manager selection regulations (closing date 5 May 2024).

10185. GS also advised that the Authority have recently published an open letter regarding data best practice in codes, reflecting clear steer for guidance in handling of data.

10186. ML proposed that the next face to face Grid Code Review Panel meeting be held in May instead of April. The Panel had no objections to this.

## 21. Close

10187. The Chair thanked the Panel for their time and contribution and brought the meeting to a close.

**The next Grid Code Review Panel meeting will be held on 25 April 2024 on Microsoft Teams.**

**New Modification Proposals are to be submitted by 10 April 2024.**

**Grid Code Review Panel Papers Day is 17 April 2024.**