Grid Code Review Panel

16 December 2021

## **Grid Code Review Panel Minutes**

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| Date: | 16/12/2021 | Location: | Microsoft Teams |
| Start: | 10:00am | End: | 14:00pm |

## **Participants**

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| Attendee | Initials | Company |
| Trisha McAuley | TM | Independent Panel Chair |
| Nisar Ahmed | NA | Code Administrator Representative |
| Banke John-Okwesa | BJO | Panel Technical Secretary, Code Administrator  |
| Alan Creighton | AC | Panel Member, Network Operator Representative |
| Alastair Frew | AF | Panel Member, Generator Representative |
| Christopher Smith | CS | Panel Member, Offshore Transmission Operator Representative |
| Graeme Vincent | GV | Alternate, Network Operator Representative |
| Gurpal Singh | GS | Authority Representative |
| Guy Nicholson | GN | Panel Member, Generator Representative |
| Iain Dallas | ID | Alternate, Generator Representative  |
| Jeremy Caplin  | JC | BSC Panel Representative |
| John Harrower | JH | Panel Member, Generator Representative |
| Nadir Hafeez | NH | Authority Representative |
| Rob Wilson | RWi | Panel Member, National Grid ESO |
| Robert Longden | RL | Panel Member, Supplier Representative |
| Roddy Wilson | RW | Panel Member, Onshore Transmission Operator Representative |
| Ross Kirkwood | RK | Alternate, Onshore Transmission Operator Representative |
| Sigrid Bolik | SB | Generator Representative |
| **Observers/Presenters** |  |  |
| Attendee | Initials | Company |
| Louise Trodden | LT | National Grid ESO (Presented new modification GC0154 - Incorporation of interconnector ramping requirements into the Grid Code as per SOGL Article 119)  |
| Tom Ireland  | TI  | National Grid ESO (Co-presented GC0154 - *Incorporation of interconnector ramping requirements into the Grid Code as per SOGL Article 119*)  |
| Terry Baldwin | TB | National Grid ESO (Presented new modification GC0155 - *Clarification of Fault Ride Through Technical Requirements*) |
| Sally Musaka | SM | Code Administrator, National Grid ESO |
| **Apologies** |  |  |
| Attendee | Initials | Company |
| Steve Cox | SC | Panel Member, Network Operator Representative |

## **Introductions and Apologies**

1. Apologies were received from Steve Cox.
2. The Chair reminded Panel Members of the requirement for impartiality and of declaring potential or perceived conflicts of interest.
3. **Minutes from previous meeting**
4. The meeting minutes from the Grid Code Review Panel held on 25 November 2021 were approved, subject to the incorporation of amendments from NH, AC and RWi.

## **Review of actions log**

1. The Panel reviewed the open actions and they agreed to close **Actions 412** and **413**.

## **Chair’s update**

1. The Chair advised that, due to recent changes in UK Government’ COVID guidelines and the ESO’s guidance that all non-key workers should work from home until there are further updates, the scheduled face to face Panel meeting for 27 January 2022 would now be held virtually. There was no change to the previously agreed cadence and location of meetings for the remainder of 2022.

## **Authority Decisions**

1. GS advised that the Authority decision for **GC0133** and **GC0137** would be published on 17 January 2022.

## **New modifications**

**[GC0154 Incorporation of interconnector ramping requirements into the Grid Code as per SOGL Article 119](https://www.nationalgrideso.com/industry-information/codes/grid-code-old/modifications/gc0154incorporation-interconnector-ramping)**

1. Louise Trodden (LT) and Tom Ireland (TI) from the National Grid ESO delivered a presentation on GC0154 which seeks to incorporate interconnector ramping requirements into the Grid Code according to System Operator Guideline (SOGL) Article 119. Article 119 (1) (c) of SOGL, relating to the Load Frequency Control (LFC) block operational methodology, requires ramping arrangements for active power output of HVDC interconnectors to be codified.
2. LT explained that the Authority had requested the ESO to align the GB frameworks by incorporating relevant provisions, including ramping arrangements set out in Article 3 of the LFC Block Operational Agreements, into the appropriate sections of the Grid Code. She advised that the current interconnector ramping approach and rates need to be reconsidered in respect of their impact on operational costs and the amount of reserves required to be held by the ESO.
3. AF pointed out that there is reference to retrospectivity and that, if this process would apply to the implementation of the solution, it may not fall within the remit of the Panel to decide on changes that will affect or impact the Users’ Bilateral Connection Agreements (BCA). TI acknowledged that it is not solely within the remit of the Grid Code to impose ramp rate limits onto existing interconnectors as it is a joint competency with the other Member States. However, he advised that the ESO would be engaging with other System Operators and Interconnectors to seek their views and requirements in order to ensure compliance of the proposed methodologies and also to encourage their participation in the development of the solution.
4. The Panel agreed that the Modification meets the Standard Governance criteria and can proceed to the Workgroup phase. The Panel reviewed the workgroup Terms of Reference and suggested that an additional term should be included to clarify that, should a retrospective solution be applied, the workgroup would consider and address any impacts on Bilateral Connection Agreements.

[**GC0155 Clarification of Fault Ride Through Technical Requirements**](https://www.nationalgrideso.com/industry-information/codes/grid-code-old/modifications/gc0154incorporation-interconnector-ramping)

1. Terry Baldwin (TB) from the National Grid ESO delivered a presentation on clarification of Fault Ride Through Requirements (FRT). TB noted that, in the GC0151 Authority decision letter of 05 November 2021, the Authority agreed with comments from some Panel members’ voting statements that the WAGCM2 proposal had potential merits but had not been fully scrutinised due to urgency and the tight timescales of the modification. This modification has been raised by the ESO on behalf of the GC0151 alternative (WAGCM2) proposer, Alastair Frew, in order to allow a workgroup to scrutinise the FRT issues highlighted. The WAGCM2 proposal highlighted certain of the technical requirements of FRT which required clarification. The Panel agreed that the Modification meets the Standard Governance criteria and can proceed to the Workgroup phase.
2. The Panel reviewed the workgroup Terms of Reference and it was agreed that the two additional terms outlined below would be included in the Terms of Reference:
* To consider clarifying and / or defining requirements for over-voltage during a fault.
* To consider if there are any cross-code impacts on other codes, most especially the Distribution Code and G99 requirements.

The Panel agreed that it would be appropriate for the Code Administrator to send out a notification email to the participants from the GC0151 workgroup seeking interested parties for the GC0154 workgroup. **ACTION 414**

## **7.** **In flight modification updates**

1. NA talked the Panel through the progression of the in-flight modifications. The in-flight modifications can be found in the Headline Report within the Grid Code Panel papers pack on the National Grid ESO website via the following link:

[https://www.nationalgrideso.com/industry-information/codes/grid-code-old/meetings/grid-code-panel-meeting-30092021](https://www.nationalgrideso.com/document/226071/download)

**[GC0139 Enhanced Planning-Data Exchange to Facilitate Whole System Planning](https://www.nationalgrideso.com/industry-information/codes/grid-code-old/modifications/gc0139-enhanced-planning-data-exchange)**

1. NA advised that the subgroup of experts looking at the legal text have made some progress and that there were no further updates from the Proposer on the subgroup’s progress.

**[GC0117 Improving transparency and consistency of access arrangements across GB by the creation of a pan-GB commonality of PGM requirements](https://www.nationalgrideso.com/industry-information/codes/grid-code-old/modifications/gc0117-improving-transparency-and)**

1. NA advised that the last workgroup meeting for this modification was held on 14 December 2021 and that, at this meeting, there was another presentation from the ENA (Open Networks) team on Operational Visibility and Monitoring (WS1B P6) in order to elaborate on the deliverables and timescales of their ongoing projects and how these may align with this modification. The Code Administrator Team and the Workgroup are currently developing a draft workgroup report but a few more workgroup meeting will be required to fully meet the requirements of this modification proposal.

**[GC0146 Solutions for frequency control of Power Park Modules](https://www.nationalgrideso.com/industry-information/codes/grid-code-old/modifications/gc0146-solutions-frequency-control-power)**

1. NA advised that the first Workgroup meeting was held on 8 December 2021 and that, at this meeting, the modification Timeline and Terms of Reference were agreed by the Workgroup. The main areas for further investigation and discussions were identified as follows:

• Legal implications to the statutory instrument - consideration as to whether the Balancing Mechanism Units need to be fully defined in the Grid Code instead of a reference to the Balancing and Settlement Code.

• Potential issues around cross border connections, any consequential knock-ons that had not been listed or highlighted within the proposal.

1. NA noted that the Terms of Reference had not been re-presented to the Panel since the Panel had approved the Terms of Reference last year when the modification proposal was initially presented to Panel and, there had been no new changes made aside from a change of ESO Representative.

## **Prioritisation Stack**

8871. The Panel reviewed the prioritisation stack and agreed to no change. The updated Prioritisation Stack can be found in the Headline Report via the following link: <https://www.nationalgrideso.com/document/226071/download>

## **9. Workgroup Reports**

1. There were no Workgroup Reports presented to the Panel.

## **10. Draft Final Modification Reports**

**[GC0138 Compliance process technical improvements (EU and GB User)](https://www.nationalgrideso.com/industry-information/codes/grid-code-old/modifications/gc0138-compliance-process-technical)**

1. NA delivered a presentation on GC0138 to the Panel. The modification seeks to update the existing compliance processes to allow for a more efficient delivery of a successful and quick turnaround of final site compliance testing and to facilitate developments in generation and HVDC technology, while maintaining effectiveness of the compliance process and strengthening the effectiveness of simulations. The Code Administrator Consultation was held from 03 November 2021 to 5pm on 3 December 2021 with 2 non-confidential responses received.
2. NA advised that the legal text that had been issued along with the Code Administrator Consultation report was out of date and that it did not include amendments by AC in relation to the ECP and OC5 sections and also proposed typographical amendments from the ESO. For this reason, he advised that the Panel recommendation vote could not be held. The Panel agreed to review the updated legal text between 17 December 2021 and 23 December 2021, after which a second Code Administrator Consultation should be re-issued. The GC0138 Draft Final Modification Report would then be re-presented to Panel for their recommendation vote on 24 February 2022.
3. NA also agreed to have an offline discussion with GN to clarify the on-going government Contract for Difference (CfD) auction which had been referred to in one of the responses from the Code Administrator Consultation. **ACTION 415**. The respondent had suggested allowing a grace period for the implementation of this modification in order to accommodate the ongoing government CfD auction, noting that implementing new changes prior to the CfD deadline will have an impact on the cost of projects.

*Post meeting note: The Draft Final Modification Report was re-submitted to Panel on 17 December 2021 for Panel to review and granting of approval for re-issuance of Code Administrator Consultation by 21 December 2021.*

**11. Reports to Authority**

1. There were no further updates for Panel.

## **12. Implementation updates**

1. There were no further updates for Panel

## **13. Governance**

1. There were no further updates for Panel.

## **14. Grid Code Development Forum (GCDF)**

1. RWi advised that the meeting that the next meeting would be held on 5 January 2022.

## **15. Standing Groups**

**Distribution Code Review Panel Update**

1. There were no further updates for the Panel.

**Joint European Stakeholder Group (JESG)**

1. NA stated that the JESG was held on 14 December 2021. The meeting materials can be found via the following link:

[h](https://www.nationalgrideso.com/industry-information/codes/european-network-codes-old/meetings/jesg-meeting-14-december-2021)[ttps://www.nationalgrideso.com/industry-information/codes/european-network-codes-old/meetings/jesg-meeting-12-october-2021](https://www.nationalgrideso.com/industry-information/codes/european-network-codes-old/meetings/jesg-meeting-14-december-2021)

## **16. Updates on other Industry Codes**

1. There were no updates.

## **17. Blockers to Modification progress**

1. There were no updates.

## **18. Horizon Scan**

1. NA provided updates on the Horizon Scan. The on-going and upcoming projects are available in the Grid Code Review Panel presentation pack within the Grid Code Panel papers pack on the National Grid ESO website via the following link:

[https://www.nationalgrideso.com/industry-information/codes/grid-code-old/meetings/grid-code-panel-meeting-25112021](https://www.nationalgrideso.com/document/225196/download)

## **19. Electrical Standards**

1. Charlotte Watts (CW) from the ESO delivered a presentation on the proposed modifications to NGESO NETA Despatch Instruction Guide & NGESO EDL Instruction Interface Valid Reason Codes. CW advised that the Dynamic Moderation and Dynamic Regulation are due to launch in spring next year and, as part of the design of the services, the ESO have introduced the capability of disarming/re-arming units to support the operational needs of the system. Due to this, the ESO would be introducing new reason codes for providers of the Balancing Mechanism units to have the ability to disarm and re-arm and this would require approval of the Panel to update the following documents:
* NGESO NETA Despatch Instruction Guide (it was noted that one of the changes would be to retitle this the NGESO BETTA Despatch Instruction Guide)
* NGESO EDL Instruction Interface Valid Reason Codes
1. NA noted that the Electrical Standards documents that had been published by the ESO on 25 November 2021 were incorrect versions and did not match those the Panel had approved on 27 October 2021. He assured the Panel that additional controls would be put in place to ensure that this anomaly does not re-occur in future. NA took the action to circulate the re-baselined and up to date versions of the documents for the Panel to review, provide comments or raise objections or further comments within 20 working days from the date of circulation, after which period the standards will be adopted on the ESO website. **ACTION 416.**

## **20.** **Forward Plan Update / Customer Journey**

1. There were no updates for Panel.

## **21. Any Other Business (AOB)**

##  **GC0109 Implementation Update**

1. RWi delivered a presentation on **GC0109** implementation updates in the Grid Code Review Panel presentation pack within the Grid Code Panel papers pack on the National Grid ESO website via the following link:

<https://www.nationalgrideso.com/industry-information/codes/grid-code-old/meetings/grid-code-panel-meeting-16122021>

1. RWi stated that it would cost an additional £150k to automate the process of posting Capacity Market Notices (CMNs) to BMRS. He advised that any party can subscribe to the Capacity Market Website and receive automated email and text alerts of CMNs, which are exactly what the ESO relies on, if they felt that the ESO’s manual updating of BMRS could be subject to delay. In response to the request for feedback as to whether the expense would be worth incurring to provide an automated service, Panel members expressing a view did not feel that this was the case but suggested that industry could also be approached, giving market participants the opportunity to air their views.

**GC0151 Reporting Update**

1. RWi delivered a presentation on **GC0151** reporting updates, covering impacts of Storm Arwen, Voltage Waveform data and timings of data publications. This presentation is available in the Grid Code Review Panel presentation pack within the Grid Code Panel papers pack on the National Grid ESO website via the following link:

[https://www.nationalgrideso.com/industry-information/codes/grid-code-old/meetings/grid-code-panel-meeting-25112021](https://www.nationalgrideso.com/industry-information/codes/grid-code-old/meetings/grid-code-panel-meeting-16122021)

1. Some Panel members expressed appreciation of the details provided in the Storm Arwen report which had been circulated within the Grid Code Panel papers pack. It was suggested that it would be beneficial if the ESO could make Voltage Waveforms data available via accessible links and it would be re-assuring if full waveform data is retained by the ESO for a specified period.

**The next Grid Code Review Panel meeting will be held on 27 January 2022 at 10:00 via Microsoft Teams.**

**New Modification Proposals to be submitted by 12 January 2022.**

**Grid Code Review Panel Papers Day is 19 January 2022.**