

Grid Code Review Panel

22 November 2018

Welcome



[nationalgrid](#)ESO

Introductions and Apologies

Apologies

Observers



Approval of Panel Minutes

17 October 2018

Actions Log



Authority Decisions

None



New Modifications

None





In Flight Modification Updates

GC0111 - Fast Fault Current Injection Specification Text

- **Last meeting held: November 2018**
- **Workgroup Report due: February 2019**
- **Status: On track to meet workgroup report due date February 2019**
- **Next steps: Next workgroup meeting planned 6 December to finalise legal text**
- **Panel action required:**
- **More information on modification:**
<https://www.nationalgrideso.com/codes/grid-code/modifications/gc0111-fast-fault-current-injection-specification-text>

GC0114 - SOGL Prequalification Processes

- **Last meeting held:** 30 October 2018
- **Workgroup Report due:** December 2018
- **Status:** On Track to meet the current timetable in relation to sending the Workgroup Report to Panel for December 2018
- **Next steps:** Legal text to be finalised by the Proposer following the workgroup meeting held on 30 October 2018
- **Panel action required:** No action required from Panel
- **More information on modification:** <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0114-system-operation-guideline-prequalification-processes>

GC0109 - The open, transparent, nondiscriminatory and timely publication of the various GB electricity Warnings or Notices or Alerts or Declarations or Instructions or Directions etc., issued by or to the Network Operator(s).

- **Last meeting held:** 07 September 2018
- **Workgroup Report due:** February 2019
- **Status:** Off track to meet workgroup report due date February 2019
- **Next steps:** Workgroup were due to meet on 31 October 2018 but due to quoracy issues this didn't proceed, the next meeting was to be held on the 13 November 2018 but failure to attain quoracy again has meant this did not proceed – Code Admin are working with the workgroup to agree a new meeting date
- **Panel action required:** No action from panel
- **More information on modification:** <https://www.nationalgrideso.com/codes/trip-code/modifications/gc0109-open-transparent-non-discriminatory-and-timely-publication>

GC0096 - Energy Storage

- **Last meeting held:** 24 October 2018
- **Workgroup Report due:** November 2018
- **Status:** Currently off track to meet report due date November 2018, new proposed timeline on next slide
- **Next steps:** Legal text to be finalised and put on latest baseline
- **Panel action required:** Panel requested to approve new timeline
- **More information on modification:**
<https://www.nationalgrideso.com/codes/grid-code/modifications/gc0096-energy-storage>

GC0096 - New proposed timeline

Workgroup Meeting 1	17 August 2017
Publish Workgroup Consultation (15WDs)	7 December 2018
Workgroup Consultation Closing Date	11 January 2019
Workgroup Report presented to Panel	28 March 2019
Code Administration Consultation Report issued to the Industry (15WDs)	8 April 2019
Code Administrator Consultation closing date	30 April 2019
Draft Final Modification Report presented to Panel	30 May 2019
Grid Code Review Panel Recommendation Vote	30 May 2019
Final Modification Report issued the Authority	w/c 3 June 2019
Authority Decision (25 WDs)	w/c 8 July 2019
Decision implemented in Grid Code	w/c 22 July 2019

GC0103 - Introduction of Harmonised Applicable Electrical Standards

- **Last meeting held:** 27 March 2018
- **Workgroup Report due:** December 2018
- **Status:** Off track – due to progression of actions, and multiple solution options, further work is required to narrow the solution to one. A Webex call is being held on 16 November 2018 to progress this modification further. A new timeline is to be presented in early December for approval.
- **Next steps:** Progress the proposers original solution following last workgroup meeting
- **Panel action required:** None

GC0107/ GC0113

GC0107 - The open, transparent, non discriminatory and timely publication of the generic and/ or PGM specific values required to be specified by the relevant TSO(s) and / or relevant system operator et al., in accordance with the RFG.

GC0113 - The open, transparent, non-discriminatory and timely publication of the generic and user specific values required to be specified by the relevant TSO(s) and / or relevant system operator et al., in accordance with the DCC.

- **Last meeting held:** First meeting not yet been held, planned for 5 December 2018
- **Workgroup Report due:** February 2019
- **Status:** On Track to meet workgroup report due date to panel February 2019
- **Next steps:** First availability of quorate workgroup is 5 December 2018, a further update will be provided at the December 2018 Panel
- **Panel action required:** None

More information on modification:

GC0107 - <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0107-open-transparent-non-discriminatory-and-timely-publication>

GC0113 - <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0113-open-transparent-non-discriminatory-and-timely-publication>

GC0117 - Improving transparency and consistency of access arrangements across GB by the creation of a pan-GB commonality of PGM requirements.

- **Last meeting held: 11 October 2018**
- **Workgroup Report due: February 2019**
- **Status: On Track to meet workgroup report due date to panel February 2019**

Next steps: Finalising the Impact assessment with the inclusion of the Gap Analysis to be agreed by the workgroup before submission to the December Panel

- **Panel action required: None**
- **More information on modification:**
<https://www.nationalgrideso.com/codes/grid-code/modifications/gc0117-improving-transparency-and-consistency-access-arrangements>










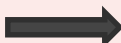
GC0105 - System Incidents Reporting

- **Last meeting held:** 17 October 2018
- **Workgroup Report due:** December 2018
- **Status:** On Track to meet the current timetable in relation to sending the Workgroup Report to Panel
- **Next steps:** Proposer currently finalising the solution based on Workgroup discussions. A Workgroup Alternative Grid Code Modification has been raised by NGET. The Workgroup is currently finalising the Workgroup report and considering which option is best. The next Workgroup meeting via Webex is scheduled for 20 November 2018.
- **Panel action required:** No Action
- **Link:** <https://www.nationalgrideso.com/codes/grid-code/modifications/gc0105-system-incidents-reporting>

Prioritisation principles

Complexity	The defect addressed by the proposed modification has implications for many different areas of the energy system which need to be taken into consideration throughout the process. The technical complexity and cross code impact of the modification will most likely require significant use of industry time and a higher than average number of workgroups to conclude the process.
Importance	The perceived value and risk associated with the proposed modification. The value / risk could be considered from a number of different perspectives i.e. financial / regulatory / licence obligations both directly for customer and end consumers more generally.
Urgency	A proposed modification which requires speedy consideration within the code governance process, as well as the timescales for implementation within the respective code.

Prioritisation Stack

Movement	Date Raised	Modifications at Workgroup Stage	Panel Comments on Prioritisation
	12/10/2017	GC0106: Data exchange requirements in accordance with Regulation (EU) 2017/1485 (SOGL)	European Network Code Compliance
	18/04/2018	GC0111: Fast Fault Current Injection (FFCI) specification text	Linked to European Network Codes
	08/05/2018	GC0114 System Operation Guideline: Prequalification Processes	European Network Code Compliance
	14/02/2018	GC0109: The open, transparent, non discriminatory and timely publication of the various GB electricity Warnings or Notices or Alerts or Declarations or Instructions or Directions etc., issued by or to the Network Operator(s).	Urgent Decision Request from Proposer
	10/07/2018	GC0118: Modification to the Grid Code to accommodate the recent Distribution Code modification to Engineering Recommendation P28 Voltage fluctuations and the connection of disturbing equipment to transmission systems and distribution networks in the UK	Straight forward Modification, linked to an Ofgem return on Dcode change.
	01/05/2016	GC0096: Storage, Definition and Assignment of Technical Requirements for Storage Technologies	Long standing Modification
	21/07/2017	GC0103: Introduction of Harmonised Applicable Electrical Standards	With other Modification having Legal requirements this modification has been placed here.
	18/04/2018	GC0113/107: The open, transparent, non discriminatory and timely publication of the generic and/ user specific values required to be specified by the relevant TSO(s) and / or relevant system operator et al., in accordance with the Demand Connection Code (DCC).	With other Modification having Legal requirements this modification has been placed here.
	20/06/2018	GC0117 - Improving transparency and consistency of access arrangements across GB by the creation of a pan-GB commonality of PGM requirements.	With other Modification having Legal requirements this modification has been placed here.
	10/10/2017	GC0105: System Incidents Reporting	Proposer not ready to start progress until later in the year.

Implementation Updates

- GC0098
- GC0099





Workgroup Reports

- **GC0106**

- **GC0118**

GC0106 Background

- **GC0106** was raised by National Grid Electricity System Operator and was submitted to the Grid Code Modification Panel for their consideration in October 2017
- Joint Grid and Distribution Code Workgroup established
- **Workgroup Consultation** – 8 responses received
- **Three** alternatives proposed (WAGCMs) and advice sought from Panel under GR20.8 on two occasions
 - Instructed to fully develop WAGCM2
 - Instructed to not fully develop WAGCM1 and 3 as based on legal interpretation
- The Workgroup concluded by majority that the Original solution best facilitates the Grid Code objectives and should be implemented. Two members out of nine concluded that WAGCM2 is the best option.
- Letter sent from Panel to authority on **6 November 2018** under GR21.5

GC0106 Terms of Reference

Specific Area	Location in the report
Review scope and applicability of requirements within Articles 40-53 (SOGL) for the Grid Code to ensure compliance with a minimal change approach;	Proposers solution
Complete a detailed assessment and code mapping of the KORRR and identify any additional changes that will be required resulting from the reserve requirements section of the SOGL;	Annex 8
Ensure that any Grid Code impact of Articles 40-53 (from (d) above) are reflected appropriately in modifications to the Distribution Code; and,	Annex 5 and solution sections
Consider any other impact on documentation within or under the governance of the Distribution Code	Annex 5 and solution sections
Legal text and implementation	Annex 4 & 5 and Section 8

The Panel is invited to:

- Accept the Workgroup Report
- Agree for GC0106 to proceed to Code Administrator Consultation

GC0106 Timeline

22 November 2018	Workgroup Report presented to Grid Code Review Panel
22 November 2018	Code Admin Consultation Report issued (15 Working Days ~ close date 13 December 2018)
14 December 2018 (late paper – Ofgem/Panel to agree)	Draft Modification Report issued to Industry and Panel (5 Working Days)
19 December 2018	Draft Final Modification Report presented to Panel and Recommendation Vote carried out
19 December 2018	FMR circulated to Panel (5 Working Days)
20 December 2018/ (if possible) 2 January 2019	Final Modification Report submitted to the Authority
6 February 2019	Authority Decision (25WDs)
14 March 2019	Implementation

GC0118 Background

GC0118 was raised by David Spillett from Energy Networks Association (on behalf of the Distribution Network Licenses) and was submitted to the Grid Code Modifications Panel for their consideration on 18 July 2018.

The purpose of GC0118 is to ensure the Grid Code implements the proposed changes as set out in the revised Engineering Recommendation P28 Issue 2 (2018) (subsequently referred to as EREC P28 Issue 2).

There was no Workgroup Consultation for this modification

There were no WAGCM's raised

GC0118 Terms of Reference

Specific Area	Location in the report
The parties that will be affected by this modification and how are these parties affected	Section 7
What rules will apply to existing parties?	Section 7
Which parties will the changes affect?	Section 7
Ensure the solution looks at the alignment of the application of P28 in all of the TO areas;	Section 7
Consider and liaise with the Scottish TOs and OFTOs;	Section 7
Consider and liaise with the P28 working group.	Section 7

The Panel is invited to:

- Accept the Workgroup Report
- Agree for GC0118 to proceed to Code Administrator Consultation

GC0118 Next Steps Timeline

22 November 2018	Workgroup Report presented to Grid Code Review Panel
29 November 2018	Code Admin Consultation Report issued (15 Working Days ~ close date 20 December 2018)
16 January 2019	Draft Modification Report issued to Industry and Panel (5 Working Days)
23 January 2019	Draft Final Modification Report presented to Panel and Recommendation Vote carried out
23 January 2019	Final Modification Report circulated to Panel (5 Working Days)
01 February 2019	Final Modification Report submitted to the Authority
08 March 2019	Authority Decision (25WDs)
25 March 2019 (10WDs following decision)	Implementation

Electrical Standards



Electricity
Transmission

TS 3.02.14 RES i2 Gas Insulated Switchgear

GCRP

November 2018

Matthew Iles – Policy Development



What has changed and Why?

Main Transmission System has been updated and RES version has been updated to reflect changes.

Removed requirement to prove power frequency withstand at atmospheric pressure (0barg).

- Test viewed as proving resistance to gas contamination, but it is not a substitute for good QA
- No longer enforceable and is impractical on new Gas Insulated Switchgear designs which operate at higher dielectric stress – seen as a blocker.
- Equipment is not operated at atmospheric pressure; if it is below minimal functional pressure it would be switched out of service. Doesn't prove withstands against transients.
 - International Electrotechnical Commission standards require dielectric tests at minimal functional pressure, including transients.
- May decrease cost of switchgear as suppliers no longer need to perform test.

Removed reference to CENELEC (European Committee for Electrotechnical Standardization) standards already referenced in IEC 62271-203.

| TS 3.02.14 RES i2 Gas Insulated Switchgear | November 2018

Communications Standard

GCRP November 2018



Communications Standards Update

We're proposing an update to the Communications Standards to reflect technology developments.

We discussed our proposed updates at the Grid Code Development Forum (GCDF) on 3rd October 2018.

EDL / EDT solution providers are developing technology to run hosted services, which may be a more attractive option for some BM Participants.

The conventional setup of EDL would be dual redundant communication routes from National Grid Electricity System Operator's Control Centre to the Generator's Control Point, i.e. a secure, resilient path from one secure site to another secure site.

In updating the Communications Standards to allow for EDL hosted services, we want to ensure that these principles aren't compromised, but we take advantage of these advances in the technology.

We've also included clarification of the timescales appropriate for data submitted via EDT (>4hrs) and data submitted via EDL (<4hrs)

Governance

Quoracy



Quoracy

The Code Administrator has experienced issues with attaining the minimum quoracy for GC0109 and GC0107/113 modifications. This potentially means that these modifications may not meet the timetable agreed by Grid Code Review Panel.

The current drafting of the Governance Rules is unclear about the number Workgroup members required for a Workgroup meeting to proceed. Given this, the Code Administrator sought legal advice about quoracy for Workgroup meetings.

The Legal Advice received can be summarised as follows:

- To establish a workgroup, 5 workgroup members are required (GR.20.3).
- To hold a workgroup meeting it has been advised that there are 5 workgroup members in attendance either in person or via webex.

The Code Administrator has been adding the minimum levels of quoracy to communications with industry in relation to Workgroups and requesting that when apologies are given that an alternate is provided to attend the Workgroup.



Grid Code Development Forum and Workgroup Day

Grid Code Development Forum and Workgroup Day

Grid Code Development Forum 7 November 2018

TS 3.02.14 RES i2– update to the Electrical Standards

Next Grid Code Development Forum and Workgroup Day – 5 December 2018

- GC0114 vote to be held on workgroup day
- GC107/113 workgroup meeting to be held after GC0114

Reports to the Authority

None





Standing Items

- Distribution Code Panel update
- JESG Update

AOB



Next Panel Meeting

10am on 19 December 2018 at National Grid House

Papers Day – 11 December 2018

nationalgrideso.com

National Grid ESO, National Grid House, Warwick Technology Park,
Gallows Hill, Warwick, CV346DA

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