



Grid Code Review Panel

Thursday 27 July 2023

Online Meeting via Teams

WELCOME



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

29 June 2023



Action Log





Chair's Update

Authority Decisions and Update (as at 19 July 2023)



Decisions Pending

- ☐ [GC0148: Implementation of EU Emergency and Restoration Code Phase II](#)

Decisions Received since last Panel meeting

- ☐ None

Received Final Modification Reports since last Panel Meeting

- ☐ None [GC0156: Facilitating the Implementation of the Electricity System Restoration Standard](#) (to be sent on 24 July 2023)

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

Request for Urgency

GC0162 - Changes to OC6 to amend the operational timings for the delivery of the additional demand reduction above 20%



Critical Friend Feedback – GC0162

Code Administrator comments	Amendments made by the Proposer
<p>Requested for clarity throughout the document</p> <p>Requested full legal text clauses be included with correct formatting to reflect the baseline</p>	<p>Proposer accepted all amendments made by the Code Administrator</p>

Summary

Operating Code 6 (OC6) is one of the tools which enables the Electricity System Operator (ESO) to reduce Demand on the National Electricity Transmission System to either avoid or relieve operating problems. It is designed to be used at no or short notice.

There has been an increased focus on the tools the ESO has available to reduce demand to ensure the GB Electricity System remains balanced in the event of an operational situation where there is a need to reduce National Demand.

In an event where demand disconnection is required, OC6 stipulates the operational timings to achieve this. If GC0161 is approved, the first 20% of demand to be disconnected will be able to utilise Electricity Supply Emergency Code (ESEC) blocks, which allow for sites to be protected. However, operational timing required for demand disconnection between 20% and 40% mean that ESEC blocks cannot be used and thus sites cannot be protected.

The need for this Grid Code changed has been raised through the Electricity Shortfall Prioritisation Review (ESPR) which is lead by DESNZ. Raising this Grid Code modification received unanimous support from all the GB Distribution Network Operators representatives on the review group.

Why Change

Government wants to align Demand Control products following the Electricity Shortfall Prioritisation Review (ESPR). To enable the ESO, during a supply shortfall, to instruct the Distribution Network Operators (DNOs) to utilise OC6 Demand Control, so that there can be protection of critical sites when there is a requirement to reduce demand between 20% and 40%.

If we don't urgently resolve this issue, there is a risk that there could be a significant shortfall event impact on the security of the electricity system this winter 23/24. This would result in critical sites being disconnected, resulting in detrimental impact on society, including an increased risk to life. This modification will amend the operational timing requirements to disconnect between 20% and 40% of demand, allowing ESEC style blocks to be used, and enabling the protection of critical sites.

DNOs could become non-compliant with OC6, if they were directed by a Government body to protect sites during demand disconnections.

Proposed Solution

The solution will amend wording within section OC6.5.5 of the Grid Code which dictates the operational timing requirements of demand disconnection between 20% and 40% of demand.

Draft legal text

- OC6.5.5 (a) If **The Company** has given a **National Electricity Transmission System Warning - High Risk of Demand Reduction** to a **Network Operator**, and has issued it by 1600 hours on the previous day, it can instruct the **Network Operator** to reduce its Demand by the percentage specified in the **National Electricity Transmission System Warning**.
- (b) **The Company** accepts that if it has not issued the **National Electricity Transmission System Warning - High Risk of Demand Reduction** by 1600 hours on the previous day or if it has issued it by 1600 hours on the previous day, but it requires a further percentage of **Demand** reduction (which may be in excess of 40 per cent of the total **Demand** on the **User System** of the **Network Operator** (measured at the time the **Demand** reduction is required) from that set out in the **National Electricity Transmission System Warning**, it can only receive an amount that can be made available at that time by the **Network Operator**.
- (c) ~~Other than with regard to the proviso, the provisions of OC6.5.3 shall apply to those instructions.~~
- Other than with regard to the proviso, the provisions of OC6.5.3 shall apply to those instructions, except in regards to OC6.5.3(d) where **Demand Control** initiated by **Demand Disconnection** shall be initiated as soon as possible but in any event no longer than two minutes from the instruction being received from **The Company**, and the first 20% of **Demand Disconnection** completed within five minutes of the instruction being received from **The Company**, and any further **Demand Disconnection** above 20% to take 5 minutes for each extra 5% of **Demand** being disconnected.

Ofgem's Urgency Criteria

Ofgem's current view is that an urgent modification should be linked to an imminent issue or a current issue that if not urgently addressed may cause:

- a) A significant commercial impact on parties, consumers or other stakeholder(s); or
- b) A significant impact on the safety and security of the electricity and/or gas systems; or
- c) A party to be in breach of any relevant legal requirements.

More information can be found at:

<https://www.ofgem.gov.uk/sites/default/files/2022-08/Urgency%20Guidance%20-%20FINAL.pdf>

Proposer’s Justification vs Ofgem’s Urgency Criteria

The Proposer recommends that this modification should be treated as an Urgent Modification proposal and be assessed by a Workgroup

Ofgem’s Urgency Criteria	Proposer’s Justification
a) A significant commercial impact on parties, consumers or other stakeholder(s).	n/a
b) A significant impact on the safety and security of the electricity and/or gas systems.	If we don’t urgently resolve this issue, there is a risk that there could be a significant shortfall event impact on the security of the electricity system this winter 23/24. This would result in critical sites being disconnected, resulting in detrimental impact on society, including an increased risk to life. This modification will amend the operational timing requirements to disconnect between 20% and 40% of demand, allowing ESEC style blocks to be used, and enabling the protection of critical sites.
c) A party to be in breach of any relevant legal requirements	DNOs could become non-compliant with OC6, if they were directed by a Government body to protect sites during demand disconnections.

GC0162 Urgent Timeline – 1 Dec Decision

Milestone	Date	Milestone	Date
Electricity Shortfall Prioritisation Review – Workshop agree to proceed with a urgent modification	29 June 2023	Workgroup report issued to Panel (3 working days)	25 September 2023
Urgent modification proposal submitted	20 July 2023	Panel sign off that Workgroup Report has met its Terms of Reference	28 September (Normal Panel)
Modification presented to Panel	27 July 2023	Code Administrator Consultation (1 calendar month)	2 October 2023 to 2 November 2023
Workgroup Nominations (5 Working Days)	28 July to 4 August 2023	Draft Final Modification Report (DFMR) issued to Panel (2 working days)	8 November 2023
Ofgem grant Urgency	04 August 2023	Panel undertake DFMR recommendation vote	13 November 2023 (Special Panel, actual Panel 23 November)
Workgroup 1 – Agree timeline, Terms of Reference and discuss solution	10 August 2023	Final Modification Report issued to Panel to check votes recorded correctly (<1 working days)	13 November 2023 (by 11:00)
Workgroup 2 – Refine solution and potential alternatives	23 August 2023	Final Modification Report issued to Ofgem	13 November 2023 (by 12:00)
Workgroup 3 – Refine solution and potential alternatives	29 August 2023	Ofgem decision	TBC (Around Dec 1)
Workgroup 4 - Finalise Workgroup Consultation	8 September 2023	Implementation Date	1/10 WD after Authority decision
Workgroup Consultation (5 working days)	12 September 2023 to 18 September 2023		
Workgroup 5 - Assess Workgroup Consultation Responses and Workgroup Vote	21 September 2023		

GC0162 Timeline Without Urgency

Milestone	Date	Milestone	Date
Electricity Shortfall Prioritisation Review – Workshop agree to proceed with a urgent modification	29 June 2023	Workgroup report issued to Panel (5 working days)	17 January 2024
Urgent modification proposal submitted	20 July 2023	Panel sign off that Workgroup Report has met its Terms of Reference	25 January 2024
Modification presented to Panel	27 July 2023	Code Administrator Consultation (1 calendar month)	30 January 2024 to 01 March 2024
Workgroup Nominations (15 Working Days)	01 August to 30 August 2023	Draft Final Modification Report (DFMR) issued to Panel (5 working days)	20 March 2024
Workgroup 1 – Agree timeline, Terms of Reference and discuss solution	12 September 2023	Panel undertake DFMR recommendation vote	28 March 2024
Workgroup 2 – Refine solution and potential alternatives	04 October 2023	Final Modification Report issued to Panel to check votes recorded correctly (5 working days)	02 – 09 April 2024
Workgroup 3 – Refine solution and potential alternatives	24 October 2023	Final Modification Report issued to Ofgem	10 April 2024
Workgroup 4 - Finalise Workgroup Consultation	8 November 2023	Ofgem decision	TBC
Workgroup Consultation (5 working days)	14 November 2023 to 05 December 2023	Implementation Date	10 WD after Authority decision
Workgroup 5 - Assess Workgroup Consultation Responses and Workgroup Vote	14 December 2023		

GC0162 – the asks of Panel

- **AGREE** that this Modification should proceed to Workgroup
- **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
- **VOTE** whether or not to recommend Urgency
- **AGREE** timetable for Urgency
- **AGREE** Workgroup Terms of Reference
- **NOTE** next steps:
 - Under Grid Code Section GR.23.4, we will now consult the Authority as to whether this Modification is an Urgent Grid Code Modification Proposal
 - Letter to be sent to Ofgem 28 July 2023
 - Ofgem approval of Urgent treatment sought by 5pm on 04 August 2023
 - 1st Workgroup to be held 10 August 2023 (pending urgency approval)



Inflight Modification Updates

Milly Lewis, Code Administrator

GC0103: The introduction of harmonised Applicable Electrical Standards in GB to ensure compliance with the EU Connection Timeline Update

Update: Workgroup 1 agreed the need for a sub-group to explore the technical feasibility of harmonisation across the current RES and consequently extended the timeline. Workgroup 2 on 19 July agreed that the sub-group will need to convene in order to gauge the scale of the mapping exercise and therefore assess the duration of the sub-group phase.

A revised timeline will be provided as soon as possible.

GC0117: Improving transparency and consistency of access arrangements across GB by the creation of a pan-GB commonality of Power Stations requirements Title and Timeline Update

In September 2021 the Workgroup requested the title be updated in refer to ‘Power Stations’ rather than “Power Generating Module”, whilst various modification documentation has updated the Panel approval for this change has not been officially recorded.

Ask of Panel: Agree the retrospective change of title for the modification

	Workgroup Report issued to Panel	DFMR issued to Panel	FMR issued to Ofgem
Previous timeline	16 August 2023	18 October 2023	07 November 2023
New timeline	TBC	TBC	TBC

Rationale: More time is required for the Workgroup to undertake analysis for WAGCM1 (Workgroup Alternative Grid Code Modification).

Workgroups Remaining: 3-4 dependent on analysis

Ask of Panel: Allow for the timeline to be TBC until the next Workgroup on 08 August 2023

GC0159: Introducing Competitively Appointed Transmission Owners

Timeline Update

	Workgroup Report issued to Panel	DFMR issued to Panel	FMR issued to Ofgem
Previous timeline	20 September 2023	15 November 2023	04 December 2023
Provisional timeline	16 November 2023	17 January 2024	07 February 2024

Rationale: The enabling legislation is not expected to be approved by Parliament ahead of the Summer recess on 20 July 2023. A decision is anticipated to be announced between September – October 2023. The above timeline has been prepared by the Code Administrator ahead of agreement with the Workgroup as provisional dates.

Workgroups Remaining: 2

Ask of Panel: Agree revised timeline or agree to leave as TBC until there is confirmation of the decision

Live Grid Code Modification Consultations




- **Workgroup Consultation:** GC0154: Incorporation of interconnector ramping requirements into the Grid Code as per SOGL Article 119 will close at 5pm 03 August 2023
- **Code Administrator Consultation:** GC0161: Changes to OC6 to allow for site protection will close at 5pm 17 August 2023



Panel Tracker

Milly Lewis, Code Administrator

Prioritisation Stack

Grid Code - Prioritisation Stack




Mod Number	Previous Priority No:	Priority No	Title
GC0161	1	1	Changes to OC6 to allow for site protection and demand disconnect rotation
GC0139	2	2	Enhanced Planning Data Exchange to Facilitate Whole System Planning
GC0117	4	3	Improving transparency and consistency of access arrangements across GB by the creation of a pan-GB commonality of PGM requirements
GC0154	5	4	Incorporation of interconnector ramping requirements into the Grid Code as per SOGL Article 119
GC0155	6	5	Clarification of Fault Ride Through Technical Requirements
GC0103	7	6	The introduction of harmonised Applicable Electrical Standards in GB to ensure compliance with the EU Connection Codes
GC0159	8	7	Introducing Competitively Appointed Transmission Owners
GC0140	9	8	Grid Code Sandbox: enabling derogation from certain obligations to support small-scale trials of innovative propositions

Grid Code Development Forum – Previous and Next

5 July 2023

Creation of new EDL Reason Codes

A presentation was shared in relation to the proposal of additional EDL Reason Codes to support the reform of Frequency Response Services. This will require updates to the “EDL Instruction Interface – Valid Reason Codes” Document.

This will be presented at the July Grid Code Review Panel to start to the formal process of review and approval.

Digitalised Whole System Technical Code – Operating Code No.2 simplification – Frank Kasibante, ESO

An update was shared on the progress of the simplification of Grid Section, Operating Code No.2 (OC2), prior to the submission of the proposal at a future Grid Code Panel.

2 August 2023 (Deadline for Agenda items - 26 July)

Final Agenda items TBC.



Standing Items

- Distribution Code Panel update (Alan Creighton)
- JESG Update (information only)
 - 11 July meeting cancelled
 - Previous meeting – 13 June 2023 [Meeting materials and Headline Report](#)
 - Next meeting – 08 August 2023



Updates on other industry codes



Proposed Additional Reason Codes

Frequency Response

Vicky Allen

Background

Ancillary Service Reform: Improving Disarming & Re-arming for Stacking

- The new suite of dynamic frequency response services have been live and in an operational state for 2 years.
- They have attracted many new providers which is expected to increase. This increase, along with the service needs, has placed new demands on the ENCC, which the original systems were not designed to cater for.
- As part of our work to reform frequency response we need to evolve the solution for how the control room disarm and re-arm response services.
- These changes will support the further evolution of our services.
- The current situation for the disarming & re-arming feature is:
 - There is a single disarm reason code for all the services whilst rearming can be done by service.
 - ENCC colleagues have requested enhancements to this capability including the ability to disarm by service.
- Therefore, new reason codes need to be introduced into service and the IT systems.
- A number of existing codes will be removed based on Service Provider feedback that it is easier to implement with the codes by individual service rather than grouped.

What are we proposing?

The introduction of 6 new additional reason codes for Response Disarming.

Deleting 4 existing reason codes for Response Disarming and Re-arming.

Proposed Additional Reason Codes		Existing Reason Codes (to be deleted)	
Disarm		Disarm	
XCL	Dynamic Containment Low Response	DNS	Cease Contracted Response Service(s) at the Start time
XCH	Dynamic Containment High Response	Re-arm	
XML	Dynamic Moderation Low Response	DC	Dynamic Containment Response should resume at the Start time
XMH	Dynamic Moderation High Response	DM	Dynamic Moderation Response should resume at the Start time
XRL	Dynamic Regulation Low Response	DR	Dynamic Regulation Response should resume at the Start time
XRH	Dynamic Regulation High Response		

Documents to update

- The below Technical Standards of the Grid Code will need updating:

[EDL Instruction Interface – Valid Reason Codes](#) - add 6 and delete 4 reason codes to the list in section 2

Why change:

Business Benefit:

- Improved System Security – Features will enable control room to better protect system security by giving the ENCC more control over how they disarm and rearm
- Market Impact – Increased ENCC ability to control the dynamic products will enable further evolution of efficient markets
- Time Saved – Improved ENCC processes leading to faster operations and reduced risk of mistakes

When we expect these changes to be in place

- Our aim is to have these new reason codes in place by Spring 2024

Delivery Plan:

Month FY23 / Work Stream	Jul 23	Aug 23	Sep 23	Oct 23	Nov 23	Dec 23	Jan 24	Feb 24	Mar 24	Apr 24	May 24	Jun 24
Analysis & Design	<div></div>											
Decision Point	<div></div>											
Provider Testing (1)	<div></div>											
Delivery Slot 1	<div></div>											
Provider Testing (2)	<div></div>											
Delivery Slot 2	<div></div>											

- There are 2 possible delivery dates for this change: 1) March 2024 or 2) June 2024
- We will be making the decision as to which delivery date we are aiming for in October 2023
- Provider testing will be voluntary and will be available for 6 weeks in advance of the delivery date



Any Other Business

Activities ahead of the next Panel Meeting

Grid Code Development Forum

02 Aug 2023

Modification Proposals to be submitted

09 Aug 2023

Papers Day

16 August 2023

GC0161 Draft Final Modification Report Papers

22 August 2023

Panel Meeting

24 Aug 2023
Teams Meeting

Close



Rob Marshall

Acting Independent Chair, Grid Code Review Panel