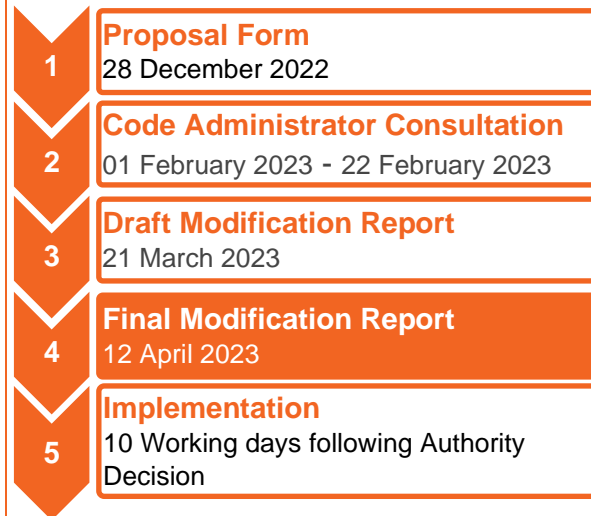


Final Modification Report

CM088: Fault Ride Through Definition

Overview: This proposal seeks to make changes to Section K of the STC in order to achieve harmonisation with the Grid Code following the [approval](#) of GC0141 on the 12 December 2022, and makes amendments to Connection Conditions (CC) and European Connection Conditions (ECC) sections of Grid Code in respect of defining the requirements for Fault Ride Through

Modification process & timetable



Have 5 minutes? Read our [Executive summary](#)

Have 20 minutes? Read the full [Final Modification Report](#)

Have 30 minutes? Read the full Final Modification Report and Annexes.

Status summary: This report has been submitted to the Authority for them to decide whether this change should happen.

Panel recommendation: The Panel has recommended unanimously that the Proposer's solution is implemented.

This modification is expected to have a: **Medium impact** for Offshore Transmission Owners

Governance route	Standard Governance modification to proceed to Code Administrator Consultation	
Who can I talk to about the change?	Proposer: David Halford David.Halford@nationalgrideso.com 07812 774065	Code Administrator Contact: Paul Mullen Paul.j.mullen@nationalgrideso.com 07794537028

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Executive summary

CM088 modification seeks to make changes to Section K of the STC in order to achieve harmonisation with the Grid Code following the [approval](#) of [GC0141](#) on the 12 December 2022, and makes amendments to Connection Conditions (CC) and European Connection Conditions (ECC) sections of Grid Code in respect of defining the requirements for Fault Ride Through.

What is the issue?

The Grid Code modification (GC0141) was [approved](#) by the Authority on 12 December 2022. GC0141 modification was raised by the ESO in March 2020 to address the concerns raised in Action 3 of the [Ofgem report](#) and Action 2 of the [BEIS report](#) into the 9th August 2019 Power Disruption.

One of the elements of the modification was a proposed update to the wording in the Connection Conditions (CC) and European Connection Conditions (ECC) sections of the Grid Code in respect of Fault Ride Through to ensure the requirements apply during and after a fault. As part of the final decision for GC0141, the proposed Fault Ride Through definition wording was approved.

What is the solution and when will it come into effect?

Proposer's solution:

The Proposer is seeking to amend Section K, Annex 1 of the STC to reflect the Fault Ride Through definition changes made to Section 6.3.15 of the Connections Conditions of the Grid Code for pre European Offshore Transmission Licensees.

Implementation date:

10 working days after the Authority's decision.

Panel recommendation:

The Panel has recommended unanimously that the Proposer's solution is implemented.

What is the impact if this change is made?

This change is to ensure consistency between the Grid Code and the STC when the Offshore Transmission System is originally bound by the Grid Code, but then migrates to an Offshore Transmission Owner (OFTO). This is bound by STC Section K, which documents the requirements for Fault Ride Through.

Interactions

The Grid Code sections CC and ECC have been amended by proposal GC0141. This proposal aligns Section K with the revised Grid Code.

What is the issue?

The Grid Code modification (GC0141) was [approved](#) by the Authority on 12 December 2022. GC0141 modification was raised by the ESO in March 2020 to address the concerns raised in Action 3 of the [Ofgem report](#) and Action 2 of the [BEIS report](#) into the 9th August 2019 Power Disruption.

In the Proposer's view one of the elements of the modification was a proposed update to the wording in the Connection Conditions (CC) and European Connection Conditions (ECC) sections of the Grid Code in respect of Fault Ride Through to ensure the requirements apply during and after a fault. As part of the final decision for GC0141, the proposed Fault Ride Through definition wording was approved.

Why change?

This change will ensure consistency between the Grid Code and the STC when the Offshore Transmission System is originally bound by the Grid Code, but then migrates to an Offshore Transmission Owner (OFTO). This is bound by STC Section K, which documents the requirements for Fault Ride Through.

What is the solution?

Proposer's solution

In the Proposer's view the solution is to amend Section K, Annex 1 of the STC to reflect the Fault Ride Through definition changes made to Section 6.3.15 of the Connections Conditions of the Grid Code for pre European Offshore Transmission Licensees.

PLEASE NOTE: Annex 2 of Section K of the STC which covers post European Offshore Transmission Licensees references the Grid Code European Connections Conditions in respect of Fault Ride Through definitions. Therefore, no changes are required to Annex 2.

Legal text

The legal text for this change can be found in Annex 2.

What is the impact of this change?

Proposer's assessment against STC Objectives

Relevant Objective	Identified impact
(a) efficient discharge of the obligations imposed upon transmission licensees by transmission licences and the Act	Positive Provides consistency between the Grid Code and STC for Offshore Transmission System pre and post migration to an OFTO

(b) development, maintenance and operation of an efficient, economical and coordinated system of electricity transmission	Positive Provides clarity and understanding in relation to the requirements for Fault Ride Through
(c) facilitating effective competition in the generation and supply of electricity, and (so far as consistent therewith) facilitating such competition in the distribution of electricity	Neutral
(d) protection of the security and quality of supply and safe operation of the national electricity transmission system insofar as it relates to interactions between transmission licensees	Positive Improves security and quality of supply by defining the obligations for Fault Ride Through
(e) promotion of good industry practice and efficiency in the implementation and administration of the arrangements described in the STC	Positive Provides clarity and understanding in relation to the requirements for Fault Ride Through
(f) facilitation of access to the national electricity transmission system for generation not yet connected to the national electricity transmission system or distribution system;	Neutral
(g) compliance with the Electricity Regulation and any relevant legally binding decision of the European Commission and/or the Agency.	Neutral

Code Administrator Consultation summary

The Code Administrator Consultation was issued on the 1 February 2023 and closed on 22 February 2023 and received 1 response, which was from the Proposer and was supportive of the change. This response can be found in Annex 3.

Panel Recommendation vote

The Panel met on 29 March 2023 to carry out their recommendation vote.

They assessed whether a change should be made to STC by assessing the proposed change and any alternatives against the Applicable Objectives.

Vote 1: Does the Original, facilitate the objectives better than the Baseline?

Panel Member: **Jamie Webb, National Grid ESO**

	Better facilitates AO (a)?	Better facilitates AO (b)?	Better facilitates AO (c)?	Better facilitates AO (d)?	Better facilitates AO (e)?	Better facilitates AO (f)?	Better facilitates AO (g)?	Overall (Y/N)
Original	Yes	Yes	Neutral	Yes	Yes	Neutral	Neutral	Yes
Voting Statement								
The proposal contributes to security and quality of supply by defining the requirements and obligations for Fault Ride Through and provides consistency between the Grid Code and STC for Offshore Transmission Systems pre and post migration to an OFTO.								

Panel Member: **Michelle MacDonald-Sandison, SHET**

	Better facilitates AO (a)?	Better facilitates AO (b)?	Better facilitates AO (c)?	Better facilitates AO (d)?	Better facilitates AO (e)?	Better facilitates AO (f)?	Better facilitates AO (g)?	Overall (Y/N)
Original	Yes	Neutral	Neutral	Yes	Yes	Neutral	Neutral	Yes
Voting Statement								
SHET believes the Original Proposal better facilitates objectives a), d) and e), as it provides consistency between Grid Code and the STC and addresses the concerns raised by Ofgem and BEIS relating to fault ride through.								

Panel Member: **Martin Cammidge, SPT**

	Better facilitates AO (a)?	Better facilitates AO (b)?	Better facilitates AO (c)?	Better facilitates AO (d)?	Better facilitates AO (e)?	Better facilitates AO (f)?	Better facilitates AO (g)?	Overall (Y/N)
Original	Yes	Yes	Neutral	Neutral	Yes	Neutral	Neutral	Yes
Voting Statement								
No Voting Statement provided.								

Panel Member: **Joel Matthews, OFTO**

	Better facilitates AO (a)?	Better facilitates AO (b)?	Better facilitates AO (c)?	Better facilitates AO (d)?	Better facilitates AO (e)?	Better facilitates AO (f)?	Better facilitates AO (g)?	Overall (Y/N)
Original	Yes	Yes	Neutral	Yes	Yes	Neutral	Neutral	Yes
Voting Statement								
This modification ensures consistency between the STC and the Grid Code.								

Panel Member: **Richard Woodward, NGET**

	Better facilitates AO (a)?	Better facilitates AO (b)?	Better facilitates AO (c)?	Better facilitates AO (d)?	Better facilitates AO (e)?	Better facilitates AO (f)?	Better facilitates AO (g)?	Overall (Y/N)
Original	Yes	Yes	Neutral	Yes	Neutral	Neutral	Neutral	Yes
Voting Statement								
This modification ensures necessary alignment to updated Grid Code provisions which improve system operability, so therefore better facilitates STC applicable objectives A, B & D.								

Vote 2 – Which option is the best?

Panel Member	BEST Option?	Which objectives does this option better facilitate? (If baseline not applicable).
Jamie Webb	Original	a, b, d, e
Michelle MacDonald-Sandison	Original	a, d, e
Martin Cammidge	Original	a, b, e
Joel Matthews	Original	a, b, d, e
Richard Woodward	Original	a, b, d

Panel conclusion

The Panel has recommended unanimously that the Proposer's solution is implemented.

When will this change take place?

Implementation date

10 working days after the Authority's decision.

Date decision required by

As soon as possible.

Implementation approach

None

Interactions

- | | | | |
|--|--|---|--------------------------------|
| <input checked="" type="checkbox"/> Grid Code | <input type="checkbox"/> BSC | <input type="checkbox"/> STC | <input type="checkbox"/> SQSS |
| <input type="checkbox"/> European
Network Codes | <input type="checkbox"/> EBR Article 18
T&Cs ¹ | <input type="checkbox"/> Other
modifications | <input type="checkbox"/> Other |

The Grid Code sections CC and ECC have been amended by proposal GC0141. This proposal aligns Section K with the revised Grid Code.

¹ If the modification has an impact on Article 18 T&Cs, it will need to follow the process set out in Article 18 of the Electricity Balancing Guideline (EBR – EU Regulation 2017/2195) – the main aspect of this is that the modification will need to be consulted on for 1 month in the Code Administrator Consultation phase. N.B. This will also satisfy the requirements of the NCER process.

Acronyms, key terms and reference material

Acronym / key term	Meaning
BEIS	Department for Business, Energy, and Industrial Strategy
BSC	Balancing and Settlement Code
CC	Connection Conditions
CUSC	Connection and Use of System Code
ECC	European Connection Conditions
NGESO	National Grid Electricity System Operator
OFGEM	Office of Gas and Electricity Markets
OFTO	Offshore Transmission Owner
STC	System Operator Transmission Owner Code
SQSS	Security and Quality of Supply Standards
ESO	Electricity System Operator
TO	Transmission Owner
TOCO	Transmission Owner Connection Offer

Reference material

- [GC0141 - Compliance Processes and Modelling amendments following 9th August 2019 Power Disruption](#)

Annexes

Annex	Information
Annex 1	CM088 - Proposal form
Annex 2	CM088 - Legal Text
Annex 3	CM088 – Code Administrator Consultation Response