

Draft Grid Code Modification Fast Track Proposal Report

GC0116

Correction to the compliance dates included in modifications GC0100-102 for the Requirements for Generators (RfG) and HVDC European Network Codes and other minor housekeeping changes

What stage is this document at?

- 01** Draft Grid Code Modification Fast Track Report
- 02 Approved CUSC Modification Fast Track Report

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Any Questions?

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About this document

This Grid Code Modification Fast Track Proposal will be presented to the Grid Code Panel on 28 June 2018.

The Grid Code Panel will consider the Proposer's view, and agree whether this is a Grid Code Modification Fast Track Proposal and make a determination on whether to implement the modification.

Proposer

Rob Wilson

Document Control

Version	Date	Author	Change Reference
0.1	20/06/2018	Rob Wilson	Draft Grid Code Modification Fast Track Proposal Report

1 Why Change

In their [decision letters](#) on each of the GC0100-102 Grid Code modifications which implemented the Requirements for Generators and HVDC European Network Codes in GB, Ofgem noted that the compliance dates for equipment designated as ‘new’ and therefore caught by the amended code requirements were incorrect. This was because compliance for each of the European Connection Codes is required by 3 years after their publication in the European Journal rather than, as with every other European Code requirement, being offset from the Entry into Force date of the code becoming European Law. Ofgem therefore instructed in their decision that a housekeeping change should be progressed to correct this. The differences in these dates is minor and is shown in the table below in the solution section.

The GC0100-102 changes to the Grid Code were the most comprehensive possibly since liberalisation of the markets in 2000 as part of the New Electricity Trading Arrangements (NETA). Carrying out this work across three modifications also led to some challenges in coordination and accurate cross-referencing. Therefore as part of this modification a number of other small changes are proposed to tidy up the GC0100-102 solutions, and, in carrying out this comprehensive review, to carry out some other minor housekeeping. All of these changes are clerical in nature and cover formatting of the code plus some errors or inconsistencies in referencing. The changes are listed below in the Legal Text section of this proposal by section of the code.

2 Solution

Ofgem’s decision letters for each of GC0100-102 state:

‘We also note that there is an error with the compliance dates proposed by the modification. Article 72 of RfG and Article 86 of HVDC states that “this Regulation shall apply from three years after publication”, however the dates proposed as part of this modification state that compliance will start three years from entry into force. We therefore encourage industry to raise a housekeeping modification to address this error to ensure that the Grid Code correctly reflects the applicable regulatory and legislative framework at all times.’

This modification therefore corrects the date of compliance with RfG to 27 April 2019 and HVDC to 8 Sept 2019 as also set out in the following table:

European Connection Code	Entry into Force Date	Publication Date in EU Journal	Compliance Date	
			In GC0100-102 modifications (3 years from EIF)	Corrected (3 years from publication in EU Journal)
RfG	17/5/16	27/4/16	17/5/19	27/4/19
HVDC	28/9/16	8/9/16	28/9/19	8/9/19
DCC	8/9/16	18/8/16	-	18/8/19

Note that the third of the European Connection Codes, the Demand Connection Code (DCC), is included in this table for completeness but is being implemented in the Grid Code through modification GC0104. It is unaffected by this correction as the compliance date in the GC0104 proposal is correct at 18 August 2019. All of these dates can be checked on the [Commission's Electricity Network Codes site](#).

The opportunity has also been taken to undertake a general housekeeping review, particularly in light of the volume of changes associated with the GC0100-102 modifications, and to carry out a number of other minor housekeeping amendments.

3 Proposed Legal Text Implementation

Specific changes are listed below by section of the code and are in addition to spelling, formatting and typo corrections that have been made throughout. Legal text is attached in Annex 1 and is supplied as change marked copies of each of the affected Grid Code sections.

Glossary and Definitions (G&D)

- 1) Date Changes to 'EU Code User' definition to correct the compliance dates for RfG and HVDC European Connection codes.
- 2) Removal of references to 'existing' and 'EDRC' with reference to the applicability of the European Codes - as in the final version of GC0100 this was achieved using the EU Code User/GB Code User definitions.
- 3) Clarification added to GB Code User
- 4) Alphabetical order changes made as necessary
- 5) High Frequency Response – Reference to Figure "ECC.A.3.3" added
- 6) Part 1 & 2 System Ancillary Services – References to ECC.8.1 added
- 7) Planned Maintenance Outage – Reference to ECC.6.5.8 added
- 8) User Data File Structure – Reference added to ECP
- 9) Interim Operational Notification or ION – Reference added to ECP

Planning Code (PC)

- 1) PC.A.3.3.1(d) removal of the term 'existing' which is no longer required and could cause confusion
- 2) PC.A.5.4.3.2 has been updated to align with the DRC as some of the data required under the HVDC code for OTSDUW Plant (in Schedule 1) also needed to be copied to Schedule 18 (Offshore Transmission System Data).
- 3) PC.A.5.4.3.2 amended to clarify that it only applies to OTSDUW DC Converters who are also EU Code Users (aligning with the GC0100-102 requirements)
- 4) PC.A.2.2.3.1 – Add reference to 'ECC.7.4'
- 5) PC.A.5.4.3.4 – Add reference to 'ECC.6.1.5'
- 6) PC.A.5.5 – Add reference to 'Figure ECC.A.3.1'

Connection Conditions (CC)

- 1) Appendix 3 – removal of 'new' in title ('Minimum Frequency Response Requirement and Operating Range for New Power Station...'); this far pre-dates GC0100-102 but the reference to 'new' will now cause confusion.

Compliance Processes (CP)

- 1) CP.A.3.7 – Add OTSDUW Plant and Apparatus

European Connection Conditions (ECC)

- 1) ECC.6.1.5 – Change from ‘Existing User’ to ‘GB Code User’ to match final GC0100-102 version
- 2) ‘Frequency’ made consistently bold throughout as a defined term
- 3) In tables ECC.6.1.4.2(a), ECC.6.1.4.2(b), ECC.6.1.4.3(a) and ECC.6.1.4.3(b) – ‘Network’ replaced by ‘System’ for consistency
- 4) Figure ECC.6.3.2.4(a) appeared with the same reference twice. The second Figure should be ECC.6.3.2.4(b)
- 5) ECC.6.3.6.3.1 – References to ECC.6.3.2 and ECC.6.3.8 added to improve clarity.
- 6) Figure 6.3.7.3.4(a) incorrectly drawn crossed overlines – re-drawn.
- 7) Table 6.3.7.3.3(a) and Table Table 6.3.7.3.4(a) updated to clarify that the combined Frequency Insensitivity and Frequency Deadband should be $\pm 15\text{mHz}$.
- 8) ECC.6.3.16.1.2 – error in cross-referencing corrected ECC.6.1.2 should be ECC.6.1.4

European Compliance Processes (ECP)

- 1) ECP.A.3.7 – OTSDUW Plant and Apparatus added.
- 2) Table A.3.5.1 – Correct 10% to 0% for HVDC. This is a typo which was inconsistent with the rest of the table
- 3) Diagrams ECP.A.5.8.8, ECP.A.6.6.8 and ECP.A.7.5.8 – typical response plots for BC2/4 plots and BC5/6 corrected to match text
- 4) ECP.8.5.8, ECP.A.6.5.1 and ECP.A.6.8.2 - references updated from ‘CC’ section to correct ‘ECC’ section

Data Registration Code (DRC)

- 1) Font and margins changed in schedule 15 to allow all text to fit on page
- 2) Schedule 18 Page 23/24 formatting changes. Additional elements added to ensure consistency with Schedule 1 and HVDV Code. A consequential change has also been made to PC.A.5.4.3.2 for consistency.
- 3) Corresponding ECC references (ECC.6.3.6.2.1 and ECC.6.3.7) added to Schedule 4
- 4) Schedule 9 – Add reference to ECCs
- 5) Schedule 18 Page 19 – add reference to ECC.5.2.1

Balancing Code 2 (BC2)

- 1) BC2.A.1.6 ‘bmra’ changed to capitals
- 2) BC2.11.2(d) – Reference also added to ECC.6.3.8
- 3) BC2.A.2.1 – Reference added to ECC.8

Balancing Code 3 (BC3)

- 1) BC.3.7.2.2 – ‘New Generator’ replaced by the defined term ‘EU Generator’

Operating Code 2 (OC2)

- 1) OC2.4.2.1(b) – Additional reference added to OC2.4.2.1(b) to include ECC.6.3.2

Operating Code 5 (OC5)

- 1) OC5.5.1.2(c) – Reference to BC.7.1 added for clarity as this also applies to plant operating in frequency sensitive mode
- 2) OC5.5.4 Test And Monitoring Assessment; this section references requirements defined elsewhere in the code so while not changing any requirements some changes made for consistency/clarity – Voltage Fluctuation and Flicker – text removed other than Grid Code References CC.6.1.7(a) / CC.6.1.7(b) and ECC.6.1.7(a) / ECC.6.1.7(b) for consistency with these clauses which were amended in GC0076. Also a number of references added for consistency with the ECC section – ‘Synchronising’ (ref ECC.6.2.2.9), ‘Excitation/Voltage Control System’, ‘Bilateral Agreement’, ‘Subsynchronous Torsional Interaction Damping capability’, ‘Power Oscillation Damping capability’ and ‘Control Facilities for HVDC Systems’.
- 3) OC5.A.2.8.8 Figure 2, OC5.A.3.6. Figure 2 and OC5.A.4.5. Figure 2; updated to clarify the numbering of the tests
- 4) ECP.A.5.8.9, ECP.A.6.6.9 & ECP.A.7.5.9 additional text added ‘while operating at MLP4’ for clarification
- 5) OC5.8.1(a) – Add reference to ECC

Operating Code 6 (OC6)

- 1) OC6.6.2(b) - ‘and Table ECC.A.5.5.1a’ added to reference after ‘Table CC.A.5.5.1a’

Operating Code 8A (OC8A)

- 1) OC8A.4.2.2, OC8A.4.3.6 - References to ECC.5.2 added.

Operating Code 8B (OC8B)

- 1) OC8B.4.2.2 - Reference to ECC.5.2 added.

4 Grid Code Panel Approval

- 4.1 On 28 June 2018 the Grid Code Modifications Panel will consider whether GC0116 meets the fast track criteria (and self-Governance criteria) and whether the Grid Code Modification should be made.

The Grid Code Modification Fast Track Proposal if implemented would meet the Fast Track Criteria as detailed below as well as the self-Governance criteria.

Fast Track Criteria

Fast Track Criteria A proposed Grid Code Modification Proposal that, if implemented,

- (a) would meet the Self-Governance Criteria; and
- (b) is properly a housekeeping modification required as a result of some error or factual change, including but not limited to:
 - (i) updating names or addresses listed in the Grid Code;
 - (ii) correcting any minor typographical errors;
 - (iii) correcting formatting and consistency errors, such as paragraph numbering; or
 - (iv) updating out of date references to other documents or paragraphs

Self-Governance Criteria

A proposed Modification that, if implemented,

(a) is unlikely to have a material effect on:

(i) existing or future electricity consumers; and

(ii) competition in the generation, distribution, or supply of electricity or any commercial activities connected with the generation, distribution or supply of electricity; and

(iii) the operation of the National Electricity Transmission System;

and

(iv) matters relating to sustainable development, safety or security of supply, or the management of market or network emergencies;

and

(v) the Grid Code's governance procedures or the Grid Code's modification procedures, and

(b) is unlikely to discriminate between different classes of Users

5 Proposed Implementation

- 5.1 It is proposed that the GC0116 Grid Code Modification Fast Track Proposal is implemented on the 1 August after publication of the approved Grid Code Modification Fast Track Report providing no objections have been raised as per the objection process described in GR26.

Date	Activity
28 June 2018	Draft Grid Code Modification Fast Track Proposal Report presented to the Grid Code Panel
6 July 2018	Publish approved Grid Code Modification Fast Track Report
27 July 2018	Appeal window closes
1 August 2018	Code Administrator to implement GC0116

6 Objections (as per section GR26 of the Governance Rules)

- 6.1 If GC0116 is approved by the Grid Code Modifications Panel, you will have the opportunity to raise an objection to the Modification.
- 6.2 The Approved Grid Code Modification Fast Track Proposal will not be implemented if an objection is received.
- 6.3 The Grid Code Panel Secretary will notify the Grid Code Panel, the Authority and Grid Code Parties if an objection is received.
- 6.4 The Grid Code Panel Secretary shall notify the proposer that additional information is required if the proposer wishes the Grid Code Fast Track Modification to continue as a Grid Code Modification Proposal.

