



GC0100 + GC0101
EU Connection Code
Mods 1 & 2 Proposals

Richard Woodward

30/05/2017

What will these mods deliver?

GC0100 – EU Connection Code Mod 1

Modify the Grid Code and Distribution Code to specify in GB...

- the scope and applicability of the EU requirements under RfG, HVDC and DCC, including to heavily modified 'existing' users;
- the four Type (A-D) banding levels under RfG for the GB synchronous area, plus set out the process for any future reviews;
- the Fault Ride Through requirements under RfG and HVDC;
- the Fast Fault Current Injection requirements under RfG;

GC0101 – EU Connection Code Mod 2

Modify the Grid Code and Distribution Code to specify in GB...

- the Voltage and Reactive requirements under RfG and HVDC
- the Frequency requirements under RfG and DCC

Background

Why are we doing it?

RfG, HVDC, DCC are 3/8 of the suite of codes which derive from the Third Energy Package EU energy legislation. The objective of the codes is to support greater connection of renewable generation; support system security; and increase market competition to reduce prices for end consumers

How are we doing it?

Originally we formed three industry issue groups under the Grid Code and Distribution Code to jointly understand the three codes and produce a GB-to-EU code mapping. These groups have since been considering how best apply the EU requirements, and have even consulted on some of their proposals

What is our approach?

Re-raise the existing issues groups (GC0048, GC0090, GC0091 – which we will required to close in due course) as modifications under Grid Code Open Governance procedures. We will seek the same approval from the Distribution Code Review Panel too, noting the differing governance arrangements.

We are planning for timely delivery of the mods to provide industry the maximum period to consider resulting compliance requirements

My ask of the Panel...

- **Approve** modifications GC0100 and GC0101 to proceed under Material Modification Grid Code open governance process
- **Approve** the closure of Grid Code issue GC0087; redirecting its scope under GC0101 for mod delivery
- **Approve** the timeline for completion, noting that GC0100 and GC0101 derive from existing issues which have already been meeting for **over 2 years**
- **Provide feedback** on the EU Connection Code mod delivery plan (see next slide)

Proposed EU Connection Code Delivery Plan

No.	Modification Details	Proposer	Status	2017								2018
				May	June	July	August	September	October	November	December	January
1	Scope; RfG Banding; RfG FFCT; RfG + HVDC FRT	R.Woodward		Panel	WG	WG	WG Consultation	WG	C.A. Consultation	RTA		
2	RfG + HVDC Voltage + Reactive; RfG + HVDC Frequency	R.Woodward		Panel	WG	WG	WG Consultation	WG	C.A. Consultation	RTA		
3	DCC Technical Requirements + DSR Requirements	F.Rodrck					Panel	WG	WG Consultation	WG	C.A. Consultation	RTA
4	RfG + HVDC + DCC System Management + Compliance	F.Rodrck			Panel	WG	WG	WG Consultation	WG	C.A. Consultation	RTA	

Existing GC/DC Issues workgroups	Lead	Status	2017									
			May	June	July	August	September	October	November	December		
GC0048 Requirements for Generators Generator Banding Fault Ride Through Fast Fault Current Injection Voltage and Reactive System Management + Compliance Processes	R.Woodward/M.Kay											Closed - Refer to Mods above
			WG	WG								
GC0087 RfG Frequency	F.Williams											Closed - Refer to Mods above
GC0090 HVDC Fault Ride Through Voltage and Reactive Frequency Compliance Processes	R.Woodward											Closed - Refer to Mods above
GC0091 DCC Technical Requirements Demand Side Response Compliance Processes	F.Rodrck/M.Kay											Closed - Refer to Mods above

Acronyms:

WG = Workgroup
 RTA = Report to Authority
 C.A. = Code Administrator

Plan as Excel attachment:



Microsoft Excel
Worksheet

Code Administrator



Chrissie Brown
30 May 2017

Material Modification/Workgroup Consultation and Workgroup

- The Panel is asked to agree:

This modification should:

- be subject to Material Modification route with Workgroup and Workgroup Consultation
- be assessed by a Workgroup and where these discussions should be held:
 - Workgroup day (7th June) – CA recommends
 - Separate Workgroup
- Terms of Reference for the Workgroup

Timetable – Material Modification – with Workgroup Consultation

Workgroup Meeting 1	7 June 2017
Workgroup Meeting 2	6/7 July 2017
Workgroup Consultation issued (20 Working days)	20 July 2017 (Close: 18 August 2017)
Workgroup meeting (WACMs and vote)	August/September 2017
Workgroup Report presented to Panel	12 September 2017 (Panel: 20 September 2017)
Code Administration Consultation Report issued to the Industry (15 Working Days)	25 September 2017 (Close: 16 October 2017)
Draft Modification Report issued to Industry (5WDs)	23 October 2017 (Close: 30 October 2017)
Draft Final Modification Report presented to Panel	7 November 2017

Timetable – Material Modification – with workgroup consultation

Modification Panel Recommendation Vote (5 WDs for Panel comment)	15 November 2017
Final Modification Report submitted to the Authority	27 November 2017
Authority Decision (25WDs)	15 January 2018
Implementation	30 January 2018