

Grid Code Modification Register

national**grid**

September 2017

Issue: 1.0

Date of Issue: 22 September 2017

Live Modification Summary Table

GC	Title	Proposal to Grid Code Review Panel Meeting	Publish Workgroup Consultation	Workgroup Consultation Closing Date	Workgroup Report to Grid Code Review Panel	Publish Code Admin/ Industry Consultation	Code Admin/Industry Consultation Closing Date	Draft Modification Report to Grid Code Review Panel	Grid Code Review Panel Vote	Publish/Submit Final Modification Report	Decision	Date of Implementation	Proposer	Code Admin Lead	Comments on changes, slippages and impact on implementation date
68	Grid Code New and Revised Unit Data & Instructions	20 Nov 2013	N/A	N/A	N/A	04 Nov 2013	03 Dec 2013	N/A	N/A	29 Jan 2014	03 Mar 2017	<i>EBS go-live date</i>	Rob Wilson National Grid	N/A	Approved by the Authority. However, implementation is contingent upon getting an agreed date for EBS go-live
91	GB Application of Demand Connection Code	14 Sep 2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Franklin Rodrick National Grid	Chrissie Brown	To be withdrawn when the DCRP raise the D code Modification.
94	Relevant Electrical Standards	Aug 2017	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	Damian Jackman SSE	Chrissie Brown	This modification is due to be Withdrawn following the raising of GC0103.

GC	Title	Proposal to Grid Code Review Panel Meeting	Publish Workgroup Consultation	Workgroup Consultation Closing Date	Workgroup Report to Grid Code Review Panel	Publish Code Admin/ Industry Consultation	Code Admin/Industry Consultation Closing Date	Draft Modification Report to Grid Code Review Panel	Grid Code Review Panel Vote	Publish/Submit Final Modification Report	Decision	Date of Implementation	Proposer	Code Admin Lead	Comments on changes, slippages and impact on implementation date
95	Transmission System Operation Guidelines	14 Sep 2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	James Bradley National Grid	Heena Chauhan	This modification was set up as an issue group. This will be withdrawn and new modifications raised.
96	Energy Storage	31 Aug 2016	Oct 2017	Nov 2017	07 Nov 2017	15 Nov 2017	17 Nov 2017	12 Dec 2017	20 Dec 2017	04 Jan 2017	08 Feb 2017	22 Feb 2017	Richard Woodward National Grid	Taran Heir	The Panel rejected a new timeline and requested this Modification be issued for Consultation as soon as practicable.
97	Project TERRE	16 Nov 2016	01 Nov 2017	22 Nov 2017	17 Jan 2018	22 Jan 2018	09 Feb 2018	14 Feb 2018	21 Feb 2018	23 Feb 2018	20 Mar 2018	02 April 2018	Richard Woodward National Grid	Caroline Wright	

GC	Title	Proposal to Grid Code Review Panel Meeting	Publish Workgroup Consultation	Workgroup Consultation Closing Date	Workgroup Report to Grid Code Review Panel	Publish Code Admin/ Industry Consultation	Code Admin/Industry Consultation Closing Date	Draft Modification Report to Grid Code Review Panel	Grid Code Review Panel Vote	Publish/Submit Final Modification Report	Decision	Date of Implementation	Proposer	Code Admin Lead	Comments on changes, slippages and impact on implementation date
98	Using GB Grid Code data to construct the EU Common Grid Model.	21 Jun 2017	N/A	N/A	N/A	21 Aug 2017	12 Sept 2017	12 Sept 2017	20 Sept 2017	20 Sept 2017	20 Sept 2017	3 Nov 2017	Robert Selbie National Grid	Chrissie Brown	
99	Establishing a Common Approach to Interconnector Scheduling	30 May 2017	02 Oct 2017	23 Oct 2017	07 Dec 2017	21 Dec 2017	24 Jan 2018	08 Feb 2018	16 Feb 2018	28 Feb 2018	06 Apr 2018	20 Apr 2018	Robert Selbie National Grid	Taran Heir	Panel approved a new timeline
100	EU Connection Codes GB Implementation – Mod 1	30 May 2017	11 Sept 2017	02 Oct 2017	07 Nov 2017	15 Nov 2017	17 Nov 2017	8 Dec 2017	20 Dec 2017	10 Jan 2018	14 Feb 2018	01 Mar 2018	Richard Woodward National Grid	Chrissie Brown	

GC	Title	Proposal to Grid Code Review Panel Meeting	Publish Workgroup Consultation	Workgroup Consultation Closing Date	Workgroup Report to Grid Code Review Panel	Publish Code Admin/ Industry Consultation	Code Admin/Industry Consultation Closing Date	Draft Modification Report to Grid Code Review Panel	Grid Code Review Panel Vote	Publish/Submit Final Modification Report	Decision	Date of Implementation	Proposer	Code Admin Lead	Comments on changes, slippages and impact on implementation date
101	EU Connection Codes GB Implementation – Mod 2	30 May 2017	11 Sept 2017	02 Oct 2017	07 Nov 2017	15 Nov 2017	17 Nov 2017	8 Dec 2017	20 Dec 2017	10 Jan 2018	14 Feb 2018	01 Mar 2018	Richard Woodward National Grid	Chrissie Brown	
102	EU Connection Codes GB Implementation – Mod 3	21 Jun 2017	Sept 2017	Sept 2017	07 Nov 2017	15 Nov 2017	17 Nov 2017	8 Dec 2017	20 Dec 2017	10 Jan 2018	14 Feb 2018	01 Mar 2018	Franklin Rodrick National Grid	Chrissie Brown	This Modification is to be progressed separate from GC0103.
103	The introduction of harmonised Applicable Electrical Standards in GB to ensure compliance with the EU Connection Codes	27 July 2017	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	Garth Graham SSE		The first Workgroup meeting will take place at the beginning of September.

GC	Title	Proposal to Grid Code Review Panel Meeting	Publish Workgroup Consultation	Workgroup Consultation Closing Date	Workgroup Report to Grid Code Review Panel	Publish Code Admin/ Industry Consultation	Code Admin/Industry Consultation Closing Date	Draft Modification Report to Grid Code Review Panel	Grid Code Review Panel Vote	Publish/Submit Final Modification Report	Decision	Date of Implementation	Proposer	Code Admin Lead	Comments on changes, slippages and impact on implementation date
104	EU Connection Codes GB Implementation – Demand Connection Code	16 Aug 2017	16 Nov 2017	07 Nov 2017	09 Jan 2018	19 Jan 2018	09 Feb 2018	13 Feb 2018	21 Feb 2018	7 Mar 2018	13 Apr 2018	30 Apr 2017	Rachel Woodbridge-Stocks National Grid		The first Workgroup discussions will take place at Workgroup day on the 6 September 2017.

Current Modifications

GC No.	0068	
Title	Grid Code New and Revised Unit Data & Instructions	
Proposer	Rob Wilson (National Grid)	
Raised	14 September 2016	
Route	Standard Modification (Pre-Open Governance)	
	Modification Description	Progress
	<p>This Modification seeks to modify the Grid Code to capture changes to unit data and instructions resulting from functionality introduced with National Grid's new Electricity Balancing System. This proposal seeks to modify the Grid Code to place an obligation on developers of Offshore Transmission Networks to provide OFTOs with the capability to vary the reactive flows at the Interface Point within two minutes</p>	<p><i>Modification Proposal</i> Proposals to develop the Frequency Response provisions of the Grid Code under GC0022 did not reach a conclusion. National Grid believes that there are a number of outstanding defects with the Frequency Response provisions of the Grid Code which should be addressed in a new Workgroup under the issue reference GC0087.</p> <p><i>Workgroup Update</i> This Modification has been approved by the Authority. However, implementation is contingent upon getting an agreed date for EBS go-live.</p>

GC No.	0091	
Title	GB Application of Demand Connection Code	
Proposer	Franklin Rodrick (National Grid)	
Raised	14 September 2016	
Route	Standard Modification (Pre-Open Governance)	
	Modification Description	Progress
	This Modification progresses the GB implementation of the DCC European Network Code	<p>Modification Proposal The Modification Proposal was proposed at the Panel on 14 September 2016 where the Grid Code Review Panel determined that the Modification will progress to a Workgroup.</p> <p>Workgroup Update This Modification is to be withdrawn following the raising of the DCRP Modification.</p>

GC No.	0094	
Title	Relevant Electrical Standards	
Proposer	Original Proposer Franklin Rodrick (National Grid) Current Proposer Damian Jackman	
Raised	14 September 2016	
Route	Standard Modification (Pre-Open Governance)	
	Modification Description	Progress
	<p>This proposal seeks to review the current Electrical Standards that are owned by NGET for England & Wales and by SPT and SHET for Scotland, and explore the option to consolidate these standards</p>	<p><i>Modification Proposal</i> The Modification Proposal was proposed at the Panel on 14 September 2016 where the Grid Code Review Panel determined that the Modification will progress to a Workgroup. The Original Proposer withdrew their support for the modification and SSE has now taken over as Proposer. As this was originally an issue group the Proposer will be completing a new Proposal form and submitting to the August Panel meeting. The Proposer will be formally withdrawing their support for this modification ahead of the September Panel meeting.</p>

GC No.	0095	
Title	Transmission System Operation Guidelines	
Proposer	James Bradley (National Grid)	
Raised	14 September 2016	
Route	Standard Modification (Pre-Open Governance)	
	Modification Description	Progress
	This Modification progresses the implementation of the Transmission System Operation Guideline (TSOG) European Network Code	<p>Modification Proposal The Modification Proposal was proposed at the Panel on 14 September 2016 where the Grid Code Review Panel determined that the Modification will progress to a Workgroup.</p> <p>Workgroup Update An Entry Into Force (EIF) assessment was carried out to assess whether the obligations for TSOG were met. Further work is to be carried out with Ofgem to assess the EIF requirements.</p>

GC No.	0096	
Title	Energy Storage	
Proposer	Richard Woodward (National Grid)	
Raised	31 August 2016	
Route	Standard Modification (Pre-Open Governance)	
	Modification Description	Progress
	<p>This Modification is to consider the appropriate technical requirements for Energy Storage technologies connecting to the Transmission system, and discuss any high level changes that may be necessary to the Grid Code</p>	<p><i>Modification Proposal</i> The Modification Proposal was proposed at the Panel on 31 August 2016 where the Grid Code Review Panel determined that the Modification will progress to a Workgroup.</p> <p><i>Workgroup Update</i> A Workgroup Report has been issued to the Workgroup for comments by 14 July 2017. The legal text is being developed and finalised.</p>

GC No.	0097
Title	Project TERRE
Proposer	Richard Woodward (National Grid)
Raised	16 November 2016
Route	Standard Modification (Pre-Open Governance)
Modification Description	Progress
<p>This Modification considers the appropriate technical requirements for Energy Storage technologies connecting to the Transmission system, and discuss any high level changes that may be necessary to the Grid Code.</p> <p>Project TERRE is a key implementation initiative for the European Electricity Balancing Guideline (EB GL), which aims to establish a pan-European market for Balancing Energy.</p> <p>The project is seeking to design and develop a central platform to facilitate the close to real-time (<1 hour) exchange of Replacement Reserves (balancing energy products with a >15 min lead time) between Transmission System Operators (TSOs) in Europe.</p> <p>GC0097 will review to what extent existing Grid Code processes, primarily in the Balancing Code section (BC1-3), need to be changed or supplemented in order to facilitate TERRE participation in GB. It will also consider the interaction with the existing GB Balancing Mechanism process given their converging timescales.</p>	<p><i>Modification Proposal</i> The Modification Proposal was proposed at the Panel on 16 November where the Grid Code Review Panel determined that the Modification will progress to a Workgroup.</p> <p><i>Workgroup Update</i> The solution for Grid Code processes is being progressed at Workgroup and joint working arrangements are being progressed with BSC Modification P344.</p>

GC No.	0098	
Title	Using GB Grid Code data to construct the EU Common Grid Model in accordance with Regulation (EU) 2015/1222 (CACM) and Regulation (EU) 2016/1719 (FCA).	
Proposer	Robert Selbie (National Grid)	
Raised	21 June 2017	
Route	Standard Modification	
	Modification Description	Progress
	<p>This modification seeks to give all parties visibility as to which data collected through the Grid Code is to be used to construct the GB Individual Grid Model in accordance with Regulation (EU) 2015/1222 (CACM) and Regulation (EU) 2016/1719 (FCA). A common grid model representing the European interconnected system is to be established so that TSOs can calculate cross-zonal capacity in a coordinated way.</p>	<p>Modification Proposal The Modification Proposal was proposed at the Panel on 21 June 2017 where the Panel requested for additional clarity to be added to the modification. The modification was re submitted to the July Panel meeting and the GCRP agreed that the modification should proceed as Self-Governance and straight to Code Administrator Consultation.</p> <p>Update This was approved by Panel Vote the appeal window will be open following the FMR being issued to Panel</p>

GC No.	0099	
Title	Establishing a Common Approach to Interconnector Scheduling	
Proposer	Robert Selbie (National Grid)	
Raised	30 May 2017	
Route	Standard Modification	
	Modification Description	Progress
	<p>This Modification seeks to introduce the interconnector scheduled transfer process to the Grid Code in order to establish common timings which are compatible with both the EU single intraday market coupling processes, and GB and EU balancing processes. CACM aims to promote effective competition in the generation, trading and supply of electricity and foresees the development of more liquid intraday markets which give parties the ability to balance their positions closer to real time should help to integrate renewable energy sources into the Union electricity market.</p>	<p><i>Modification Proposal</i> The Modification Proposal was proposed at the Panel on 30 May 2017 where the Grid Code Review Panel determined that the Modification would follow the Standard Modification Route.</p> <p><i>Workgroup Update</i> The Workgroup first met to discuss the questions raised by the Panel and pursued joint working arrangements as recommended by the Panel with BSC Modification P356. The Workgroup are currently in the process of finalising the Workgroup Consultation for issue to Industry.</p>

GC No.	0100	
Title	EU Connection Codes GB Implementation – Mod 1	
Proposer	Richard Woodward (National Grid)	
Raised	30 May 2017	
Route	Standard Modification	
	Modification Description	Progress
	<p>This modification (1/4) will set out within the Grid Code the following compliance obligations in the EU Connection Codes:</p> <ol style="list-style-type: none"> 1. Scope and applicability of the RfG, DCC and HVDC requirements for GB users 2. Set the x4 Type (A-D) MW banding levels for GB, as required in RfG 3. Set the GB Fast Fault Current Injection parameters, as set out in RfG 4. Set the GB Fault Ride Through requirements, as set out in RfG and HVD 	<p><i>Modification Proposal</i> The Modification Proposal was proposed at the Panel on 30 May 2017 where the Grid Code Review Panel determined that the Modification would progress under a Standard Modification route.</p> <p><i>Workgroup Update</i> The Workgroup Report has been issued for Consultation.</p>

GC No.	0101	
Title	EU Connection Codes GB Implementation – Mod 2	
Proposer	Richard Woodward (National Grid)	
Raised	30 May 2017	
Route	Standard Modification	
	Modification Description	Progress
	<p>This modification (2/4) will set out within the Grid Code the following compliance obligations in the EU Connection Codes:</p> <ol style="list-style-type: none"> 1. Set the Voltage & Reactive requirement in GB, as required in RfG and HVDC 2. Set the Frequency requirements in GB, as required in RfG and HVDC 	<p><i>Modification Proposal</i> The Modification Proposal was proposed at the Panel on 30 May 2017 where the Grid Code Review Panel determined that the Modification would progress under a Standard Modification route.</p> <p><i>Workgroup Update</i> The Workgroup Report has been issued for Consultation.</p>

GC No.	0102	
Title	EU Connection Codes GB Implementation – Mod 3	
Proposer	Richard Woodward (National Grid)	
Raised	21 June 2017	
Route	Standard Modification	
	Modification Description	Progress
	<p>This modification (3/4) will set out within the Grid Code the following compliance obligations in the EU Connection Codes:</p> <ol style="list-style-type: none"> 1. Set the System Management parameters, as set out in RfG and HVDC 2. Set the Compliance requirements, as set out in RfG, DCC and HVDC 	<p><i>Modification Proposal</i> The Modification Proposal was proposed at the Panel on 21 June 2017 where the Grid Code Review Panel determined that the Modification would progress under a Standard Modification route.</p> <p><i>Workgroup Update</i> Workgroup Meetings are being progressed to report back to the December Panel Meeting.</p>

GC No.	0103	
Title	The introduction of harmonised Applicable Electrical Standards in GB to ensure compliance with the EU Connection Codes	
Proposer	Garth Graham (SSE)	
Raised	27 July 2017	
Route	Urgent Modification (TBA)	
	Modification Description	Progress
	This modification will set out within the Grid Code the compliance obligations in the EU Connection Codes as they relate to Electrical Standards	<p><i>Modification Proposal</i> The Modification Proposal was proposed at the Panel on 27 July 2017 where the Grid Code Review Panel determined that the Modification would progress under an Urgent Modification route.</p> <p><i>Workgroup Update</i></p>

GC No.	0104
Title	EU Connection Codes GB Implementation – Demand Connection Code
Proposer	Rachel Woodbridge-Stocks (National Grid)
Raised	16 August 2017
Route	Standard Modification
Modification Description	Progress
<p>This modification will set out within the Grid Code the following compliance obligations in the European Network Code – Demand Connection Code (DCC):</p> <ol style="list-style-type: none"> 1. Technical requirements for new* Transmission-connected Demand Facilities; Transmission-connected Distribution Facilities and Distribution Systems. 2. Technical requirements for Demand Units used by a Demand Facility or a Closed Distribution System to provide Demand Response Services to System Operators. <p>* 'New' is defined as not being connected to the system at the time that the code enters into force and not having concluded a final and binding contract for the purchase of main plant items by two years after entry into force</p>	<p><i>Modification Proposal</i> The Modification Proposal was proposed at the Panel on 16 August 2017 where the Grid Code Review Panel determined that the Modification would progress under a Standard Modification route.</p> <p><i>Workgroup Update</i></p>

Concluded Modification Summary Table

GC	Title	Proposal to Grid Code Review Panel Meeting	Publish Workgroup Consultation	Workgroup Consultation Closing Date	Workgroup Report to Grid Code Review Panel	Publish Code Admin/ Industry Consultation	Code Admin/Industry Consultation Closing Date	Draft Modification Report to Grid Code Review Panel	Grid Code Review Panel Vote	Publish/Submit Final Modification Report	Decision	Date of Implementation	Proposer	Code Admin Lead	Comments on changes, slippages and impact on implementation date
48	Requirements for Generators	14 Sep 2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Richard Woodward National Grid	Chrissie Brown	This Modification was withdrawn 21 June 2017. This modification's defect is addressed in the new EU modifications GC102
87	Requirements for Generators Frequency Provisions	14 Sep 2016	17 Feb 2017	03 Mar 2017	20 Apr 2017	11 May 2017	N/A	N/A	N/A	N/A	N/A	N/A	Fiona Williams National Grid	Ellen Bishop	This Modification was withdrawn on 30 May 2017. This modification's defect is addressed in the new EU modifications GC100 and GC101
90	High Voltage Direct Current (HVDC)	13 Jul 2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Richard Woodward National Grid	Chrissie Brown	This Modification was withdrawn 21 June 2017. Following the approval of GC0102.