

### Terms of Reference:

## **GC0048: Application / Implementation of the Requirements for Generators European Network Code - Joint Grid Code / Distribution Code Workgroup**

### Background

1. European Network Codes (ENCs) include network codes and similar instruments prepared under Article 6 of Regulation (EC) No 714/2009, and are expected to be implemented as a supplementing regulation in Annex I of Regulation (EC) No 714/2009.
2. On entry into force the ENCs become European Law and as such take precedence over national law or codes and place obligations directly on affected parties. In the national application or implementation of the ENCs, a process of alignment will be required to ensure coordination or incorporation into existing national codes, as appropriate, and to avoid parallel or conflicting requirements; also, those requirements that are left to national interpretation in the ENCs will need to be determined on a national basis.
3. The Requirements for Generators (RfG) ENC sets functional requirements which by default apply to new generators connecting to the network (both Distribution and Transmission), as well as responsibilities on TSOs and DNOs.

### Scope

4. The role of this Workgroup is to progress the GB application / implementation of RfG. This will include to:
  - (i) Consider alternative code structures to achieve the best aligned solution to:
    - a) incorporate RfG into the GB code structure, bearing in mind the need for the code structures to facilitate the incorporation of other ENCs, and make recommendations to the GCRP and DCRP; while
    - b) maintaining and developing the GB requirements for Existing Power Generating Facilities which are by default exempt from the ENC RfG. And
    - c) Determine national parameters within the ENC RfG and application of these where required to the GB Grid and Distribution Codes.
  - (ii) Work with the mapping of the RfG to the GB codes as provided through the European Code Coordination Forum (ECCAF).
  - (iii) Develop an activity plan and timeline for completion of the activities associated with RfG application, including code drafting and approvals.
  - (iv) Consider changes to the GB Grid and Distribution Codes (including any Engineering Recommendations) and other code documents resulting from the need to align these with the ENC RfG.
  - (v) Consult on and obtain approval as appropriate for the changes to the existing GB Grid and Distribution Codes and national parameters from GCRP, DCRP and the Authority. For the avoidance of doubt, where parameters are allowed within a range which covers the current GB Grid or Distribution Codes value this will by default not be proposed for change.
  - (vi) Consider how to extend the work undertaken on RfG to the Demand Connection and HVDC ENCs which deal similarly with the technical requirements placed upon two further categories of equipment connected to the system.

### Timescales

5. The RfG code is targeted by the European Commission to complete comitology in 2014. The ENC will apply to 'new' generators, defined as those not currently connected to the system and which have not let contracts for major plant items by two years after RfG's entry into force. After its entry into force, all provisions of the ENC shall apply as from the day of expiration of a [likely three year period] following its publication.
6. It is timely for this Workgroup to be set-up. While for larger projects leadtimes are such that concerns are less immediate, for smaller generators the time from contract let to connection may be as little as 12 months. If caught by the ENC due to contract let in 2016 this plant could therefore be operational by 2017. The need to make timely investment and design decisions means that the outcome of the national application process is required as soon as possible. All parties will also need to reflect RfG requirements in any contract entered into post-2016.
7. There are complex structural questions of how to accommodate RfG requirements within the GB codes. It is necessary to start addressing these questions ahead of the completion of comitology to avoid diminishing the time available before the provisions of the ENC apply.
8. It is therefore necessary to establish this Workgroup without delay. Under the remit set out in these ToRs, the Workgroup will not continue beyond the date on which the provisions of the ENC apply.

### Governance

9. The Workgroup is to be set up jointly under the governance of the Grid Code and Distribution Code Review Panels (GCRP and DCRP).
10. Reporting lines for the Workgroup are to the GCRP and DCRP. For the purposes of information exchange only a reporting line will also be established to the European Code Coordination Application Forum (ECCAF) which is a joint standing group of the GB Code Panels with an advisory role to coordinate work on ENCs.

### Deliverables

11. Deliverables will include:
  - (i) A recommendation by the GCRP, DCRP and ECCAF on the future structure of the GB Grid and Distribution Codes as applicable to RfG.
  - (ii) Recommendations for approval by the GCRP and DCRP of the necessary modification proposals to the GB Grid and Distribution Codes and associated Engineering Recommendations resulting from the need to align these with the ENC RfG while maintaining requirements for existing Users.
  - (iii) Recommendations for approval by the GCRP and DCRP of the national parameters within the ENC RfG and application of these where required to the GB Grid and Distribution Codes.
  - (iv) A high level plan to achieve these objectives in a timely manner to be approved by the GCRP and DCRP.

## Membership

12. The Workgroup shall comprise a suitable and appropriate cross-section of experience and expertise from across the industry and representatives from the GCRP and DCRP. The membership shall include:

<b>Name</b>	<b>Position</b>	<b>Representing</b>
R Wilson	Chair	National Grid
	Representative	GCRP
	Representative	DCRP
	Technical Secretary	National Grid
A Johnson	National Grid Representative	National Grid
	Industry Representatives	Interested Industry Representatives
	Authority Representative	Ofgem

13. Since the work will affect all sizes of generators connected to both the Transmission and Distribution System it is expected that the group will include members to represent the interests of all of these generators.
14. The membership of the Workgroup may be amended to accommodate expertise in considering specific issues, or it may be that this will be achieved through the later set-up, with GCRP/DCRP approval, of sub-groups.

## Administration

15. The frequency of Workgroup meetings shall be defined as necessary by the Workgroup chair to meet the scope and objectives of the work being undertaken at that time.
16. National Grid will provide technical secretary resource to the Workgroup and handle administrative arrangements such as venue, agenda and minutes.
17. The Workgroup will have a dedicated section on the National Grid website, GCRP and DCRP websites as appropriate to make information such as minutes, papers and presentations available to a wider audience.
18. The Workgroup will meet in person, but may decide to hold meetings by teleconference with agreement of the Chair and a majority of the membership. Meetings will be held as required but are likely to be at least monthly in the first instance subject to review.
19. As the work progresses it may be necessary for the Workgroup to establish subgroups to consider specific issues in further detail. These subgroups will report to the Workgroup directly and membership will be sought from relevant technical experts.
20. It is anticipated that this Workgroup will provide updates to the GCRP and DCRP as appropriate and on conclusion will present a Workgroup Report and / or Interim Workgroup Reports as appropriate to the GCRP and DCRP.