

Grid Code Development Forum

Meeting #2

Headline Report – June 2015

Introduction

Rob Wilson (National Grid) welcomed the group and introduced the Grid Code Development Forum (GCDF) which is intended to help stakeholders explore issues before, where necessary, taking these to the Grid Code Review Panel (GCRP).

The GCDF has no formal governance, but a headline report will be produced after each meeting. It will be held every two months (typically the alternate months to GCRP) and an update on outputs will be a standing item on the GCRP agenda.

The agenda is intended to be led by stakeholders and if you have any issue that you would like to discuss at the next meeting please e-mail: grid.code@nationalgrid.com.

Grid Code Modifications Update

Franklin Rodrick (National Grid) gave an update on the issues which were discussed at the April GCDF meeting.

The attendees were made aware that the Multi-Shaft Modelling issue has been put on hold following discussion at the May GCRP either until implementation of the Electricity Balancing System (EBS) or a Generator shows interest in progressing it.

An update was provided on European Codes which highlighted that there is an EU Cross Border Committee meeting on the 26th June at which it is anticipated that the member states will vote to adopt RfG followed by voting on HVDC in July and DCC in September.

Reactive Power & Voltage Control

Graham Pannell from Renewable Energy Systems (RES) gave a presentation on Reactive Power Capability and Voltage Control Provision.

Wind turbines typically provide a reactive power capability similar to Connection Conditions **figure 1** at their LV terminals, but to provide the same at the connection point of a wind farm may necessitate additional equipment, which can be expensive. Evidence from one site showed a narrow band of reactive power had actually been required during normal operation. The question was asked whether National Grid really needs the prescribed capability at the connection point and why.

Voltage Control may be more economically provided and equally stable if performed at the generator LV terminals. The group discussed interaction with transformer tap control and how to determine appropriate settings. It was agreed that power station level control benefits from being able to despatch individual set-points to turbines, which can mitigate the effects of unavailable turbines. The presentation can be found [here](#).

It was advised that current Workgroups and previous consultations have looked at similar principles. A review of this work is required by the industry to identify if the issues have not been adequately addressed. The above mentioned Workgroups and Consultations can be found here:

[H/04](#) – Changes to Incorporate New Generation Technologies and DC Inter-connectors (Generic Provisions)

[G/06](#) – Power Park Modules and Synchronous Generating Units

[GC0075](#) – Hybrid STATCOMS

[GC0028](#) – Constant Terminal Voltage

Interested industry parties are invited to review this material, a summary of which will be presented by National Grid at the next GCDF meeting.

Grid Code Open Governance

Peter Bolitho from Waters Wye Associates delivered a presentation on Open Governance and what it means to the industry.

The presentation included the reasons why the Open Governance Modification to the Grid code was proposed.

Open Governance would lead to some significant changes to the governance process of the Grid Code. Some of the changes include – Proposer Ownership, Independent Panel Chair Person, Self-Governance, Alternative Proposals etc. It will also introduce a Grid Code Advisory Forum (aka GCDF), which would deal with pre-code development issues and technical matters. Click [here](#) to view the presentation slides. If you would like to learn more about Open Governance read [here](#).

Jade Clarke (National Grid) delivered a presentation on how Open Governance works in CUSC. Any CUSC party can raise a modification and continues ownership of the modification throughout the process. The Code Administrator supports the proposer throughout this.

The standard modification process times in CUSC are –

- Standard Workgroup – 6½+ months
- Self-Governance - 2½ months
- Fast Track Self-Governance – 1 month
- Urgent – 1+ day

The presentation can be found [here](#).

Grid Code OC8 – Safety Issues

Lev Stroud from National Grid's Transmission Network Control Centre delivered a presentation on

the Grid Code Operational Code (OC8) and considerations of how this could be improved.

Grid Code OC8 sets out standard procedures to use for the establishment and co-ordination of safety precautions when work is carried out on the National Electricity Transmission System (NETS) or the system of a User of the NETS.

The current version of OC8 is not very clear, has factual errors and processes are not defined clearly. National Grid proposed that there are some quick wins which include correcting typographical errors, creating guidance documents and reflecting more up to date processes.

In the long term National Grid would require input from the industry to identify what needs changing with respect to Safety in the Grid Code.

National Grid will consider these issues further internally before taking any further action. The presentation can be found [here](#).

Next Meeting

The next GCDF meeting will be on 12th August 2015 at National Grid House, Warwick. We will seek to provide webinar facilities for this meeting. If you have any issues that you would like to discuss at the next meeting please e-mail: grid.code@nationalgrid.com

The agenda and meeting materials will be circulated two weeks in advance of the meeting.

The Grid Code Newsletter, which is sent every two months, will include updates from GCDF meetings and agenda items for future meetings. If you would like to receive the Grid Code newsletter please email: grid.code@nationalgrid.com

GCDF will provide an update to the July GCRP and will give the panel a direction to take in terms of any future issues.

Attendees

Rob Wilson	NGET Chair
Franklin Rodrick	NGET Technical Secretary
Anthony Johnson	NGET
Lev Stroud	NGET Presenter
Dave Michie	NGET Presenter
Jade Clarke	NGET Presenter
Niall Duncan	Senvion
John Norbury	RWE
Steven Nutt	Parsons Brinckerhoff
Peter Woodcock	RWE
Campbell McDonald	SSE
Colin Green	ABB
Brian Anderson	Vestas
David Atherton	E.ON
Graham Pannell	RES Ltd
Ander Madariaga	ORE Catapult
Joseph Underwood	Drax Power Ltd
Peter Bolitho	Waters Wye Associates
Simon Ludlam	Eleclink
Amir Dahresobh	Nordex
David Lyon	Frontier Power