

Minutes

Meeting name	Grid Code Review Panel
Meeting number	56
Date of meeting	18 th July 2012
Time	10:00am - 4:00pm
Location	National Grid House, Warwick, CV34 6DA

Attendees

Name	Role	Initials	Company
Ian Pashley	Chair	IP	National Grid
Robyn Jenkins	Secretary	RJ	National Grid
Thomas Derry	Member	TD	National Grid
Bec Thornton	Member	BT	National Grid
Graham Stein	Member	GS	National Grid
Richard Lavender	Alternate	RLA	National Grid
Shafqat Ali	Presenter	SA	National Grid
Bali Virk	Presenter	BVi	National Grid
Steve Lam	Presenter	SL	National Grid
Nick Sargent	Presenter	NS	National Grid
John Morris	Member	JM	EDF Energy
Alastair Frew	Member	AF	ScottishPower
Alan Creighton	Member	AC	Northern Powergrid
Tom Davies	Member	TDA	Magnox
John Lucas	Member	JL	Elexon
Guy Nicholson	Member	GN	Senergy Econnect
Steve Brown	Member	SB	Ofgem
Campbell McDonald	Member	CM	SSE Generation
Guy Phillips	Member	GP	E.ON UK
Lisa Waters	Alternate	LW	Waters Wye
Sigrid Bolik	Alternate	SBO	REpower
Damien McCluskey	Observer	DM	National Grid

Apologies

Name	Role	Initials	Company
Barbara Vest	Member	BV	Energy UK
Alan Barlow	Member	AB	Magnox
John Norbury	Member	JN	RWE
Jim Barrett	Alternate	JB	Centrica
Richard Lowe	Alternate	RL	SHETL
Kathryn Coffin	Alternate	KC	Elexon
Shijun Yi	Alternate	SY	Ofgem
Alan Michie	Alternate	AM	SPT
Alan Kelly	Member	AK	SPT
Gordon Kelly	Alternate	GK	ScottishPower
Xavier Pinchaux	Alternate	XP	RTE
Brian Punton	Member	BP	SHETL
Neil Sandison	Member	NS	SSE
Mike Kay	Member	MK	ENW
Dick Lewis	Member	DL	SONI
Nick Tart	Presenter	NT	National Grid
Audrey Ramsay	Member	AR	National Grid

1 Introductions & Apologies

2572. The Chair welcomed the group and the apologies were noted.

2 Approval of Minutes

a) May 2012 GCRP Minutes

2573. The Panel approved the minutes for publication.

2574. **ACTION: RJ** Upload minutes on to the National Grid website.

3 Review of Actions

a) Summary of Actions

March 2012 GCRP

2575. Minute 2466 - RJ informed the Panel that the March 2012 GCRP Minutes have been uploaded. This action is completed and can be closed.

Fault Ride Through

2576. Minute 2365 – GS noted that an industry workshop has been arranged for the 10th September 2012. Interested parties are requested to email the Grid Code team to register. This action is completed and can be closed.

Significant System Events Report (previously RoCoF Report)

2577. Minute 2016 – TD informed the Panel that the possibility of including an estimate of system inertia in the Significant Systems Event Report is being examined. This action remains ongoing.

2012/13 Membership

2578. Minute 2467 – RJ noted that an email was sent to Nigel Cornwall before the Panel meeting. No response has been received. This action remains ongoing.

Voltage Fluctuations

2579. Minute 2480 – GS noted that comments were received from AC and these will be incorporated into the report. The Panel agreed that the paper could move forward to consultation, and the aim is to publish that in September. GS urged Panel members with generation connections to look at the consultation. This action is completed and can be closed.

Offshore Wind Farms Not Connected to an Offshore Transmission System

2580. Minute 2483 – TD noted that the paper has been updated and is with National Grid to finalise the legal text ahead of circulation to Panel for review. This action is ongoing.

Special Actions

2581. Minute 2409 – TD confirmed that Special Actions was presented at the June 2012 Operational Forum and changes to the internal processes are ongoing. This action is completed and can be closed.

Grid Code Connection Conditions for Small Embedded Power Stations

2582. Minute 2225 - GS noted that the issue due to be investigated will be materially affected by the provisions of the European Network Code, Requirements for Generators (RfG). He suggested that those affected in the short term can be dealt with on a case by case basis due to the low number of cases.

2583. The Panel suggested, as JN raised the issue, the action should remain until the next Panel meeting where he can comment.

2584. GP questioned the applicability of RfG to current generators.

Space Weather

2585. Minute 2496 – TD noted that JN has provided comments on the fax. This action is completed and can now be closed.
2586. Minute 2498 – RJ noted that the E3C minutes are confidential and not published in the public domain. This action is completed and can be closed.
2587. JM suggested there should be information coming to generators with vulnerable plant as a result of the E3C report, to date nothing has been communicated to the Generators. JM emailed National Grid seeking further information but has not received a response.
2588. Minute 2499 – The Panel agreed that it would more appropriate to hold an information session at the next operational forum (see minute 2703) rather than at the GCRP. This action is ongoing.

High Wind Speed Shutdown

2589. Minute 2504 – CMD circulated an email to the Panel and the National Grid representatives with his views on High Wind Speed Shutdown and Power Available. This action is completed and can be closed.
2590. Minute 2506 – Updated Terms of Reference were circulated to the Panel as part of pp12/34, Intermittent Generation Strategy. This action is completed and can be closed.

Information on Embedded Small Power Stations - Terms of Reference

2591. Minute 2511 – GS noted that the workgroup invitation will be issued as soon as a suitable date is found.
2592. LW suggested that, as well as DNO's, small generators may wish to be involved in the workgroup. GS agreed to discuss with LW outside of the Panel meeting.
2593. **ACTION: GS/LW** Discuss workgroup membership.

Codification of Generic Requirements currently included in Bilateral Agreements

2594. Minute 2517 – GS suggested that National Grid aim to publish illustrative examples in November, as a review of our external website is underway and the work will coincide with this. Additionally, many of the existing templates are not suitable for publication, so further work is needed.
2595. The Panel requested sight of the proposed information prior to publication; GS agreed to provide an update at the September 2012 GCRP before publishing the templates in October..
2596. **ACTION: GS** Circulate draft templates to the Panel with the papers for the September Panel meeting and publish to the website in October.

Delegation of Authority (DOA) for Busbar Switching Contracts

2597. Minute 2520 – RJ noted that RWE and National Grid have been discussing DOA.
2598. The Panel expressed concern about the timescales indicated for completing the DOA work and asked if there were any issues because the DOA's are out of date. RJ agreed to clarify the situation and report back to the September 2012 Panel meeting.
2599. **ACTION: RJ** Report back on the status of the DOA work.

Frequency Resilience of the Total System

2600. Minute 2525 – GS noted that MK has agreed to chair the workgroup; a suitable date needs to be found to hold the workgroup meeting. This action is completed and can be closed.

Electricity Balancing System Group

2601. Minute 2536 – SA informed the Panel that a meeting has been arranged with Eggborough to discuss TSL. The GCRP will be updated with the outcomes of this meeting and next steps will be agreed. This action is ongoing.

BM Unit Data from Intermittent Generation

2602. Minute 2541 – The CBSG Terms of Reference were circulated with the Panel Papers. This action is completed and can be closed.
2603. Minute 2542 – RJ noted that a presentation of Standing Groups is on the Agenda. This action is completed and can be closed.

2604. Minute 2545 – The action is covered under Agenda item 8a.

Any Other Business

2605. Minute 2570 – SB noted that coinciding with GCRP was a DECC/Ofgem workshop on stakeholder engagement. SB agreed to update the Panel on progress at the September meeting

2606. **ACTION: SB** Update the Panel on the outcome of the Stakeholder Engagement Workshop held on the 18th July 2012.

4 New Grid Code Development Issues

a) Intermittent Generation Strategy

2607. SL presented the paper pp12/34 to the Panel.

2608. The paper sets out the strategy proposed for looking at issues with intermittent generation. This paper contains the output of discussions held by the Commercial Balancing Services Group (CBSG) on the concept of power available to better facilitate intermittent generation. The CBSG has been used as a forum to discuss issues experienced with intermittent generation with a view to developing potential solutions. SL stated that the CBSG had been mindful of the interaction with other workstreams taking place in the Grid Code, hence National Grid had proposed to progress this work under the governance of the GCRP. The group noted the interactions between High Wind Speed Shutdown and Power Available, and suggested that it would be more efficient to run the two workgroups together.

2609. CMD questioned why National Grid would want to use Power Available rather than FPN. SL responded that FPNs from intermittent generation can be subject to a comparatively high level of uncertainty and hence forecasting error due to the nature of forecasting. Therefore power available could be used to improve the accuracy of settlement and to provide a better indication of active power output as well as headroom on the system if plant was curtailed. IP explained that this is one of the areas the workgroup will be looking at and the merits of power available would be fully justified before concluding on whether to progress this.

2610. JL asked if the single benefit of using Power Available was to provide more accurate settlement. SL explained that Power Available also provides a better indication of Frequency Response and other Ancillary Service capability.

2611. The workgroup will be looking at technical and cost requirements, including the cost of implementation compared to the cost of non-implementation. Settlement will be looked at in a BSC forum as a further piece of work, once the technical requirements are apparent.

2612. In relation to the proposal on high wind speed shut down, CMD noted concerns about discrimination against wind, questioning how often a wind farm is likely to shut down and whether there are similar risks with gas plant with a single point of failure. GS explained that there have been recent incidents of whole farms shutting down and the issue needs addressing because it is a phenomenon not truly understood. LW noted that this may be seen widely as anti-wind if they are having special considerations, pushing cost up and National Grid should not focus unduly on one area.

2613. AF suggested that C/11 (BM Unit Data from Intermittent Generation) provided an interim solution that wind farms do not need to follow PN. TD explained varied responses were received to C/11 and the revised solution is significantly different so will be going out for consultation in the next couple of weeks.

2614. GN suggested that C/11 also join these workgroups as they had concerns that there would be three workgroup with overlapping workstreams. LW also asked why the workgroups were not combined. GS expressed concern that different experts are needed for the different groups and so the groups could not be combined. SL added that the workgroups should remain separate due each group focusing on a different defect or issue. However, where possible, the workgroups would be held consecutively on the same day to minimise travelling time and resource impacts, therefore they may appear to be combined but retain their separate Terms of Reference. GS added that it may be the case that the same industry members will attend both of the workgroups. SL

stated that the proposed chair for the workgroups would arrange for an update to be provided at the relevant industry Panel meetings to ensure that stakeholders were kept informed. The Panel suggested an initial discussion with all workgroups to talk through potential overlaps would be valuable.

2615. The Panel approved the recommendations in the terms of reference.

2616. **Action: SL** Add cost to consumers into the Power Available Terms of Reference.

2617. **Action: RJ** Circulate slides.

2618. **Action: SL** Investigate kick off meeting with all the workgroups.

b) Grid Code Modification Process

2619. RJ gave a presentation on the Grid Code Modification Process, highlighting the high level process and indicating where the formal process is held on the website. Panel members were also given a hard copy of the process.

2620. JL noted that the process does not account for issues rejected by GCRP. JL also suggested adding an end point for interpretation, where a clarity issue is brought to GCRP, although GP noted that, whilst recognising this was within the scope of the GCRP, if a clarification is needed this suggests that the Code itself may need to be improved.

2621. LW noted that it was difficult to find the process on the National Grid website and suggested it is moved to a more visible location.

2622. **Action: RJ** Move document to a better place on the website.

2623. **Action: RJ** Update Grid Code Modification Process and circulate to Panel Members.

2624. LW noted that there are no timescales within the Grid code, as there are for other codes, and asked Ofgem to look into this. SB explained that Ofgem are aware of the variance, BT suggested this may be covered in Code Governance Review Phase 2. LW also asked what is the timing of phase 2, SB agreed to look into this and report back at the next meeting.

2625. **Action: SB** Update Panel on Code Governance Review Phase 2.

c) Code Standing Groups

2626. BVi presented on the standing groups and information forums under the governance of the CUSC and other codes. She explained that the CUSC modification Panel have ability to set up standing groups.

2627. GN noted that the names of the groups can cause confusion as they do not clearly explain what they do, and they are inconsistent, some say forum, some say group. The Panel suggested we look at the names and clarify for consistency.

2628. SA noted that the EBSG is a formal workgroup under Grid code, not an information forum as presented.

5 Existing Grid Code Development Issues

a) Issues Summary

2629. RJ informed the Panel that the issues for discussion at this meeting have been listed on the agenda.

2630. GS explained that the timescales for progressing the Short Circuit Ratio Review would be more clear in September 2012 and agreed to provide an update at the September 2012 GCRP.

2631. **Action: RJ** Update issues list to reflect new timescale.

b) Protection Fault Clearance Times and Back-up Protection

2632. RJ presented the paper pp12/36 to the Panel.

2633. AF noted that the draft legal text is not clear because of the range of words used to describe the fault clearance times. For example paragraph CC6.2.2.2.2 (a) uses less

than, minimum, quicker, faster and slower. AC added that the paper did not address all the issues identified in a November 2008 DNO paper and he agreed to send the paper to RJ so that these could be addressed in the next draft. GP asked whether the conclusions of the working group had been documented and circulated to the Panel and whether the working group's input was reflected in the proposal.

2634. SBO requested that mS (milli Siemens) in CC6.2.2.2.2 be corrected to ms (milliseconds) as mS is the incorrect unit.

2635. SBO requested clarification of any interaction with Fault Ride Through.

2636. RJ agreed to update the paper including legal text and circulate to the Panel for approval. Once approved the paper, the Panel approved the issue can go to Industry Consultation.

2637. **ACTION: RJ circulate updated paper for approval.**

c) Demand Control

2638. RJ presented to the Panel the outcome of the Demand Control Workshop held on 23rd May.

2639. AC noted that of the potential next steps, the quickest and easiest is to separate Demand Disconnection and Voltage Control in the Grid Code, allowing the System Operator to choose which service they want, depending on the level of response required. Other solutions may require changes to control systems which will have a high cost to consumers and take a long time to implement.

2640. GN asked whether there was any interaction with the European Demand Connection Code (DCC) and if so, should we wait for this.

2641. **ACTION: AR** Clarify whether there is any interaction with the DCC.

2642. The Panel noted concerns on whether the DNO's were non-compliant with the current Grid Code obligations and questioned whether derogations or code changes were required. AC and RJ confirmed that the DNO's were compliant as disconnecting demand would provide the required results but voltage control would be a preferable solution and it is this that needs to be reviewed.

2643. GS suggested that National Grid do some work to substantiate some of the options discussed and the workshop and bring proposed solutions to the next Panel meeting along with Terms of Reference for a Workgroup.

2644. **ACTION: AR** Bring proposals and Terms of Reference to next Panel meeting.

6 Workgroups in Progress

a) Grid Code Connection Conditions for Small Embedded Power Stations

2645. Discussion on this workgroup was covered in the actions under minute 2582.

2646. This workgroup will be moved to the issues list until more is known about RfG.

b) Frequency Resilience of the Total System

2647. GS noted that MK has agreed to chair the workgroup and National Grid are currently trying to find a suitable date.

2648. **ACTION: RJ** Arrange workgroup.

c) Frequency Response

2649. TD informed the Panel that the last meeting was held in May 2012.

2650. The workgroup report will be presented to the Panel at the November GCRP.

2651. **ACTION: TD** Report back to the November 2012 GCRP.

d) Harmonics (G5/4)

2652. GS informed the Panel that a meeting was held on 24th May 2012. The workgroup are awaiting the output of some consultancy work, this is due in August.

2653. In September the workgroup will report back to the Panel, who will need to decide how to deal with some of the issues highlighted, particularly those around rules and responsibilities.

2654. GS also noted that the work is being merged with ETR122

2655. **ACTION: GS** Report back to September GCRP.

e) BMU Configuration of Power Park Modules

2656. GS informed the Panel that the workgroup are going to hold another teleconference and report back to the September GCRP.

2657. **ACTION: GS** Report back to the September GCRP.

f) Electricity Balancing System Group

2658. An EBSG update is covered under agenda item 7c).

g) Information on Small Embedded

2659. GS noted that National Grid is trying to find a suitable date for the workgroup and invites will be circulated shortly.

2660. **ACTION: RJ** Arrange workgroup meeting.

7 Workgroup Report

a) BM Unit Data from Intermittent Generation

2661. TD informed the legal drafting is being finalised before being published for industry consultation.

b) Revision of CC.7.7 (Maintenance Standards)

2662. BT requested approval from the Panel to send the report to consultation. The Panel approved the report.

2663. **ACTION: RJ** Publish CC.7.7 Industry Consultation.

c) Formalising Two Shifting Limit and other parameters

2664. NS presented a paper detailing the recommendations in the EBSG Workgroup Report and outlining the next steps.

2665. NS explained that the final recommendation is that the Two Shifting Limit (TSL) should not be taken forward; the TSL issue is limited to a few parties and it may be better to have dialogue with the individual parties to resolve it. To do this, a meeting has been arranged with Eggborough on the 26th July to clarify the issues, understand their concerns and look for a solution. The recommendations to formalise the other parameters are contained in the workgroup report.

2666. The Panel approved publishing the consultation based on the recommendations. Panel members also requested sight of the consultation and legal text before it is published. LW requested the consultation is published by the end of August, and that the paper should be circulated to panel members giving 5 days for comment.

2667. **ACTION: NS** Circulate the draft consultation to GCRP and publish the consultation by the end of August.

2668. LW asked what the timing for formalising the parameters (synchronising/de-synchronising intervals and last time to cancel sync) is. NS explained that this may be achievable before go live of the Electricity Balancing System. CMD suggested that these are new parameters and should be implemented as part of the EBS system when it becomes available. SA explained that the new system is due to go live in the middle of next year. JL asked whether the initial release would include any new functionality. SA explained that the initial release would have similar functionality to the existing system (and same interfaces as is the case now), and after go live, the developers will start work on new functionality. LW noted concerns over not implementing new features until 2014 and asked whether the developers can start working on this now, rather than once the system is in and working. SA stated that the developers' main focus at this stage is to deliver the 'as is' system requirements.

2669. **ACTION: SA** Talk to EBS project team about timing of implementation of parameters (synchronising/de-synchronising intervals and last time to cancel sync)
2670. LW noted concerns that if the parameters are not embedded in the IS systems until 2014, then the industry would need to look at work arounds involving faxes which could lead to generators breaching the Code. LW asked whether the codes can be changed to say that generators do not have to provide the above parameters until EBS is ready to receive the data. LW suggested consulting on this specifically. IP noted that the consultation should set out the end solution and process to achieve it.
2671. **ACTION: NS** Consult on workaround solution, should IS or Code be changed first.
2672. LW was uncomfortable with National Grid's approach to Eggborough's issues and that the action from the last panel was ignored.
2673. IP noted that after the last GCRP there were 4 different interpretations of the action internally and the pragmatic solution appeared to be to address Eggborough's concerns directly. IP noted LW concern's over the process and agreed that in future if there was confusion over Panel actions, National Grid would write to Panel Members for clarification.

8 Industry Consultations

a) A/12: Information Required To Evaluate Sub-Synchronous Resonance

2674. GS gave a presentation to the Panel. The presentation explained that there was general support for the change. There were some comments on the target implementation date of 1st April 2013. Some responses included technical questions with one response suggesting looking at requirements for cases where generators may need to install protection on their own plant.
2675. Generally there was desire for further discussion and information including clarity on commercial issues, specifically who is paying for what.
2676. GS proposed to proceed with proposal as it stands subject to a change to the trigger date.
2677. To establish further dialogue and clarify things for users GS agreed to arrange for briefing sessions at customer seminars and the operational forum in the Autumn, as well as a stakeholder workshop with the relevant parties.
2678. **ACTION: GS** hold briefings and stakeholder workshop with relevant parties.
2679. The next step for the modification is a Proposal to The Authority.
2680. CMD asked if there are any consequential changes to the CUSC and, is there any cost to the existing users? It was noted that this will be investigated as part of the discussions.

B) C/12: Safety Management of Three Position GIS Earth Switches

2681. TD informed the Panel that the consultation closed on the 14th July 2012 with 3 supportive responses. Following consultation responses it is the intention to replicate the changes proposed to OC8A in OC8B to maintain consistency and facilitate the use of three position GIS in Scottish Transmission areas.
2682. **ACTION: TD** Update modification to include changes in OC8B.

9 Pending Authority Decisions

a) A/10: Generator Compliance

2683. SB noted that Ofgem are minded to approve, and a decision is due at the end of the month.

b) B/10: RISSP

2684. TD noted that National Grid have been in contact with OFTO's via the STC committee. The views of the OFTOs will be incorporated into report before being sent to the Authority for a decision.

10 Standing Items

a) European Network Codes

2685. IP noted that these updates are provided to all code Panels. From next month the responsibility will be split between Ofgem and National Grid. IP proposed to provide them via email, with the papers.
2686. IP noted that RfG will proceed to commitology in September/October. The JESG are holding a workshop in August.
2687. There is a DCC workshop on 9th August in Brussels.
2688. On the 17th July a further draft CACM was issued, reflecting comments from the consultation. National Grid is going to provide change marked copy and there will be a JESG workshop in October.
2689. CM requested an update on operational planning and security code. IP noted that there is a workshop on 25th July, to discuss the draft network code.
2690. AF asked if there are any plans for discussion on implementation at this meeting. IP confirmed this is something that we are thinking of and suggested picking it up as a discussion piece at the next GCRP.
2691. **ACTION: RJ** Add agenda item on Implementation of ENC's to September GCRP.

b) Joint European Standing Group

2692. IP noted that the headline report was circulated.

c) Space Weather

2693. TD informed that an update on the progress of assessing the impact of a potential space weather event on the National Electricity Transmission System and Generators had been received from the E3C.
2694. The Panel requested sight of the E3C update.
2695. **ACTION: TD** Circulate update to the Panel.
2696. JM expressed concern that no contact has been made with those generators highlighted in the E3C report as owning high risk plant. Several Panel members noted they would like to review the data in the report and requested a copy so they can determine whether they are comfortable. TD agreed to confirm with the E3C chair and clarify whether the report can be shared.
2697. **ACTION: TD** Contact the National Grid representative on the E3C to clarify the situation.
2698. LW questioned whether all system warnings, including Geomagnetic Storms warnings, could be placed on the BMRS. At the May 2012 GCRP it was noted that BMRS was not capable of issuing the geomagnetic storm warnings and fax would be used instead. Panel members thought that it would be possible to do this and TD agreed to re-examine.
2699. **ACTION: TD/AR** Determine whether all System Warnings can be placed on the BMRS, specifically System Warnings for Geomagnetic Storms.
2700. TD asked the Panel if they would like a presentation on space weather and the preparation. Panel members indicated this would be valuable and TD agreed to arrange this for the September 2012 Operational Forum.
2701. **ACTION: TD/AR** Develop presentation on space weather for the Operational Forum.

11 Impact of Other Code Modification or Developments

2702. A codes summary pp12/38 was circulated to the Panel. Going forward these items will be discussed by exception.

12 Any Other Business

2703. BT noted that due to the volume of Workgroups taking place across the codes and within the European arena, National Grid are struggling to find unique dates to hold meetings.
2704. GN requested an update on the new National Grid structure. IP noted that once further information is available it would be shared with the Panel.
2705. **ACTION: IP** Update September 2012 GCRP on new National Grid structure with any further information available.
2706. GN also asked for an update on the Ofgem structure. SB explained that further information on the structure should be published shortly and that any additional information would be provided at the September 2012 GCRP if available.
2707. GN commented on Harmonic Assessments for Offshore Assets. RenewableUK raised the issue that it is not clear who does these assessments. For generator build the generator needs information from the SO for this, but this information is subject to confidentiality issues. There is a meeting on Friday 27th with David Grey at Ofgem and Renewable UK plus a few select members too look at the issue.
2708. CMD requested that the Special Actions process is put on website.
2709. **ACTION: RJ/TD** Publish Special Actions Process on website.
2710. CMD asked whether Interconnectors have an operational impact on the GB system, and whether they are complaint. GS and RLa confirmed they are captured by obligations which are consistent with other Transmission System Users' obligations. Also Interconnectors with a signed connection agreement are listed on the TEC Register.
2711. CMD asked whether National Grid would be producing any Grid Code Review Panel KPI's. TD agreed to look into this.
2712. **ACTION: TD** Look into producing Grid Code Review Panel KPI's.

13 Next Meeting

2713. The next meeting is planned for 19 September 2012 at National Grid House, Warwick.