

Grid Code Review Panel Meeting

Minutes and Actions Arising from Meeting No. 27 Held on 17th May 2007 at National Grid House, Warwick

Present:

Duncan Burt	DB	Panel Chairman
Lilian Macleod	LM	Panel Secretary

National Grid

Mark Duffield	MD	Member
Andy Hiorns	AH	Member
Nasser Tleis	NT	Member
Brian Taylor	BT	Member

Generators with Large Power Stations with total Reg. Cap.> 3GW

John Morris	JM	Member
Claire Maxim	CM	Member
Campbell McDonald	CMcD	Member
John Norbury	JN	Alternate Member

Generators with Large Power Stations with total Reg. Cap.< 3GW

David Ward	DW	Member
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Generators with Small and Medium Power Stations Only

Malcolm Taylor	MT	Member
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Network Operators in England and Wales

Graeme Vincent	GV	Member
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Network Operators in Scotland

Dave Carson	DC	Member
Neil Sandison	NS	Alternate Member

Relevant Transmission Licensees

Alan Michie	AM	Member
Chandra Trikha	CT	Member

Generators with Novel Units

Guy Nicholson	GN	Member
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Ofgem Representative

Bridget Morgan	BM	Member
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BSC Panel Representative

Kathryn Coffin	KC	Member
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In Attendance

Andy Balkwill	AB	National Grid
Sigrid Bolik	SB	Econnect
Emma Carr	EC	National Grid
Jonny Hosford	JH	National Grid

1. Introductions/Apologies for Absence

709. Apologies for absence were received from Richard Cook (Gens >3GW), Mike Kay (Network Operators in England and Wales), Stuart Graudus (NEC) and Jean Pompee (EISO).

2. Minutes of Last Meeting

710. The draft minutes of the 26th Grid Code Review Panel (GCRP) meeting held on 15th February 2007 were APPROVED, subject to minor amendments and will be accessible from the Grid Code Website.

3. Review of Actions

711. All the outstanding actions from the previous meetings have been completed or were the subject of agenda items, except for:

▪ Minute 555 (Scottish Control Telephony Electrical Standard)

The Panel NOTED that the STC Committee formally replied to the GCRP regarding the establishment of a Control Telephony Electrical Standard for Scotland. In their reply the STC Committee indicated that the establishment of a Control Telephony would result in additional infrastructure expenditure not contained within the existing TO regulatory allowance.

The Panel NOTED that the STC is not a user facing document and as such the establishment of a Control Telephony Electrical Standard for Scotland is a Grid Code issue and therefore should be put forward for consideration and discussion by the GCRP.

The Panel AGREED that the establishment of a Control Telephony Electrical Standard applicable in Scotland would increase user transparency regarding this issue.

The Panel AGREED that the establishment of a Control Telephony Electrical Standard for Scotland will be included on the Grid Code outstanding issue list.

Action: Panel Secretary

▪ Minute 587 (Access Procedure for Power Station Staff into National Grid's Substations)

The Panel NOTED the circulation of an information pack relating to the relevant access procedures for power station staff entering National Grid substations. National Grid requested feedback from Panel Members as to the appropriateness/applicability of the information being made publicly available on the Grid Code website.

Action: Panel Members

JN indicated that there still remained uncertainty that National Grid's Senior Authorised Person (SAP) would be available when required to escort non National Grid personal whilst they are undertaking planned work on non-National Grid plant or apparatus within a National Grid substation.

National Grid agreed that the non attendance of the SAP was unacceptable and AB requested that any such event should be reported by the User to their National Grid's Customer Service representative.

Action: Panel Members

JN indicated that there remained outstanding issues regarding the relevant access procedure for power station staff into National Grid's substations, which he would send to National Grid for further discussion/debate.

Action: JN

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JN noted that National Grid had recently introduced the Basic Electrical Safety Awareness Certificate (BESAC) and queried the applicability of the certificate to external power station staff. National Grid to confirm and provide an update to September's GCRP.

Action: National Grid (LM)

- Minute 625 (Wind Farm Technology Patents)

The Panel NOTED that there was no further update regarding the issues of wind farm technology patents and the associated implications for other manufacturers from using technical solutions to ensure compliance with the Grid Code.

The Panel NOTED that legal proceedings were ongoing regarding this matter. The Panel will be kept informed of future developments.

Action: National Grid (NT)

- Minute 662 (Operational Metering and Data)

NS queried whether the DNO could obtain real time operational metering from a T-connected power station which in the opinion of the DNO has a material effect on their system.

The Panel NOTED that the exchange of real time equivalent models between the Transmission Owner and the DNO occurred in Scotland due to the significant effect the Transmission system has on the DNO network.

BT indicated that currently National Grid was under no obligation to provide the DNO with access to operational metering from a T-connected power station.

The Panel NOTED that there is nothing to prevent a DNO entering into a bilateral agreement to obtain the relevant information.

NS indicated that the lack of real time data in E&W would result in the DNO operating their system to reflect the worse case scenario, possibly resulting in unnecessary or unsafe actions from the DNO. For example restrictions on embedded generation to control fault levels or excessive parallel flows

BT indicated that the current arrangements for National Grid/DNO data exchange appear to be adequate. The Panel NOTED that this situation could change with the projected increase in Embedded Generation and the introduction of the Offshore Transmission.

The Panel AGREED that due to the possible implication on the DNO network, the issue should be raised at the forthcoming DCRP. BT will discuss the matter with MK and provide an update to September's GCRP.

Action: National Grid (BT)

- Minute 679 & 682 (Multi Unit BMUs)

The Panel NOTED that National Grid has received limited feedback from the industry to explain the limited use of the current process and what could be done to improve the current scheme. A reminder to provide feedback will be mentioned at the forthcoming Ops Forum (6th June) under Any Other Business.

Action: National Grid

The Panel AGREED that the process currently used by Generators to declare additional accessible capacity beyond that declared in the Balancing Mechanism was not limited to CCGTs. The Panel NOTED that the process could be utilised by other Multi Unit BMUs e.g. Casade Hydro and Power Park Modules.

4. Grid Code Development Issues

712. Grid Code Consultation Update

The Panel NOTED that the consultation period for A/07 (Management of No System Connection) closed on 29th March 2007; eight consultation responses had been received.

The Panel NOTED that the consultation period for B/07 (Improvement Planning Code Data Exchange) closed on 16th April 2007; ten consultation responses had been received.

The Panel NOTED that the responses to B/07 consultation replies were currently in the process of being drafted and would result in amendments to the proposed process. MD informed the group that the changes would not alter the scope and the intention of the original proposals and it was not envisaged that it would necessitate in a second consultation exercise although this was always an option open for consideration.

MD informed the Panel that an external meeting would be scheduled for early June to discuss the consultation responses and the associated changes. The Panel AGREED that it would be useful to have representation from the Scottish Transmission Owners at the meeting.

Action: National Grid (MD)

The Panel NOTED that the Grid Code Consultation Document C/07 (Timescales for Operational Metering) was circulated for industry comment on 16th May 2007 with a closing date of 18th June.

The Panel NOTED that it was anticipated that the Authority Report for G/06 (Power Park Modules and Synchronous Generating Units) would be submitted to Ofgem for determination by the end of June 2007.

The Panel NOTED that C/06 (Control Telephony Electrical Standard) and F/06 (Control and System Telephony) would be progressed when the Control Telephony Electrical Standard had been formally agreed by the GCRP.

713. Outstanding Issues List

The Panel NOTED that a new IT system was currently being developed for the Target Frequency system. National Grid to provide information on the proposed implementation date of the new system and any associated User changes to September's GCRP.

Action: National Grid (BT)

The Panel NOTED that the issue of Power Park Modules Extension would require further review as the issue had become more prevalent. BM provided an example of a recent case.

Action: National Grid (NT)

5. New Grid Code Proposals

▪ Frequency Response Time Delay

714. National Grid outlined proposed amendments to the Grid Code which, in the opinion of National Grid, would provide additional clarification of the Grid Code Frequency Response requirements.

715. NT informed the Panel during recent discussions with Generators on frequency response performance of wind farms, suggestions were made by Generators that the minimum frequency response performance requirement of a generating unit, in particular during the initial response period, should be clarified in the Grid Code.

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716. This issue was discussed at the Power Park Modules and Synchronous Generating Units Working Group (PMSGUWG) and a proposal was made in the Working Group Report and G/06 Consultation Document. The main part of the proposal was improve the clarity of requirements was to include some of the existing wordings in the Glossary and Definitions for Primary and High Frequency responses in CC.A.3.4 where the response profile is specified.
717. For the initial response following the start of the frequency change, an inherent delay with any type of generating plant has always been recognized but appropriate control measures help to minimize any avoidable delay. This has been successfully adopted by the industry in the past and National Grid believed that no further clarification of maximum allowable delay was considered to be necessary. However, a recent tripartite meeting between a developer, National Grid and OFGEM resulted in a review of this position.
718. NT outlined proposed amendments to the definitions of High Frequency Response and Primary Response and CC.A.3.4 obligations which were aimed at providing additional clarity to the existing Grid Code wording and that are proposed in Grid Code Consultation Document G/06 regarding the time delay for frequency response.
719. The proposed text would codify existing practice that ensures that plant control systems are designed to reduce any avoidable initial delay to a minimum as far as is reasonably practicable and in any event to less than two seconds. It would also recognise that there might be a longer unavoidable time delay.
720. The Panel discussed the need of the proposed amendments and queried whether the proposals where necessary. BM indicated that additional clarity was required to the existing provisions such that it more accurately reflects the intention of the obligations.
721. The Panel discussed whether the provision would be better serviced as a commercial service requirement and as such offer incentives to Users. The Panel AGREED that the issues should be added to the Balancing Service Standing Group (BSSG) outstanding list.

Action: National Grid (DB)

722. The Panel queried the use of the phrase 'at least linearly' in the proposed legal text and queried whether the use of the word 'monotonically' would better convey National Grid intentions regarding this provision.
723. The Panel expressed concerns with the proposal interaction with Grid Code Consultation Document G/06. National Grid informed the Panel that two sets of legal set would be provide in the consultation document, one of which would reflect the legal text interaction between the proposals and Grid Code Consultation Document G/06.
724. Panel Members will provide comments on the proposals and the associated legal text by 1st June 2007 which will be considered by National Grid prior to the proposed changes proceeding to industry consultation.

Action: Panel Members & National Grid (NT)

6. Working Group Reports

▪ Black Start Working Group

725. JH gave the Panel an update on the Black Start Working Group. The Panel NOTED that the Working Group was focusing on the three key stages of a Black Start event:
- i. Power Islands and LJRP

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- ii. Zonal Restoration
 - iii. Back to Normal
726. The Panel NOTED that a session focusing on the 'Back to Normal' phase was currently being arranged with Elexon. The session would discuss the interaction between the Grid Code and BSC obligations to ensure that the two processes dovetailed together.
727. The Panel were informed that a separate external sub-group had been set-up with a remit of establishing industry standards for Control Centres and substation auxiliaries. The Panel NOTED that it will be kept informed of other industry sub-group progress.
- **Low Voltage Demand Disconnection Working Group**
728. EC gave the Panel an update on the Low Voltage Demand Disconnection Working Group. The Panel NOTED that an initial study revealed a LVDD scheme in London could prevent a national incident and that a further detailed study of London would be required.
729. The Panel were informed that in certain other parts of the country the introduction of a LVDD scheme would not, by itself, prevent a collapse of the system. The Panel NOTED that the Working Group could investigate what schemes would be required in addition to a LVDD scheme to prevent a collapse of the system in other parts of the country. This could be added to the original terms of reference for the Working Group.
730. The Panel were INFORMED that a report outlined the consequences of a low voltage collapse in London, the national impact, the associated costs and benefits of such a scheme would be presented to the September's GCRP for approval.
Action: LVDD Working Group (EC)
731. The Panel NOTED that if approved the report would be issued to Ofgem to obtain a view regarding funding (if possible) prior to the undertaking of the detailed study for the London area.
732. The Panel NOTED that the complete report would be circulated to Panel Members for review/comment and AGREED due to the confidential nature of the document a summary of the report would be made available on the Grid Code website.
733. NS queried whether the Working Group had considered the difference in GSP size in Scotland compared to England and Wales.
Action: LVDD Working Group (EC)
- **Rated MW**
734. The Panel NOTED that nominations had been received for the Rated MW Working Group. The Panel were INFORMED that the first meeting of the Working Group will take place on 19th June 2007. National Grid to provide an update to September's GCRP.
Action: National Grid (LM)
- 7. Authority Decisions**
735. There were no recent Authority Decisions to discuss.
- 8. System to Generator Operational Intertipping Schemes**
736. The Panel discussed the proposed wording for the System to Generator Operational Intertip Scheme guidance note circulated by MT which provides a level of detail and clarity on intertrips which the Panel believe would be beneficial to the industry.
737. Panel Members AGREED to review the revised wording, providing comments to MT. The revised wording for the guidance statement and the associated proposed

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Grid Code changes will be discussed and submitted to September's GCRP.

Action: Panel Members, National Grid (BT) & MT

738. The Panel AGREED to consider the section on timings in CC.6.2.2.2.2 and the provision of specific up-to-date indicative timings and agree changes and additions as appropriate.

Action: Panel Members & National Grid

739. The Panel AGREED to consider the means by which direct inclusion of a fax template can be achieved.

Action: Panel Members & National Grid

740. The publication of the statement will be agreed once the wording of the guidance note has been finalised i.e. whether it is to be incorporated within the Grid Code or whether it is to be made accessible as a standalone document on National Grid's Industry Information website.

9. Reactive Capability Notification Process

741. National Grid provided additional clarification regarding the information submitted in the Performance Chart, BC2 Fax and Week 24 submission.

742. The Panel NOTED that under the Planning and Operating Codes, Generators are obliged to provide NGET with the Generator Performance Chart shown in OC2 Appendix 1 of the Grid Code. This requirement applies to existing and proposed generating units. The chart shows the reactive capability from 0 MW output up to Rated MW. Resubmission takes place annually as part of the Week 24 data.

743. BT stated that the current format the chart does not provide sufficient information to model the reactive capability of the generating unit for power system studies in operational timescales nor to determine the payments for delivering reactive power in accordance with the Mandatory Services Agreement. This requires the reactive output at the boundaries of the generating unit's operating envelope i.e. Full Output and Minimum Output as defined in BC2.A.3.1 of the Grid Code. The Generator provides the reactive output at Full Load and Minimum Load as numerical data during the process of drawing up the Mandatory Services Agreement.

744. There will be periods when temporary restriction on a generators reactive capability will prevent the delivery of the reactive output defined in the MSA. The Generator is obliged to inform NGET immediately of the temporary restriction by fax using the pro forma shown in BC2 Appendix 3.

745. The vast majority of facsimiles are sent directly by Power Stations to NGET. However because the data is not directly associated with the performance chart some Power Stations have experienced difficulty in determining the appropriate values of reactive output particularly when the reactive capability of a generating unit returns to normal following a temporary shortfall.

746. National Grid proposed to introduce an enhanced Performance Chart which would include the Full and Minimum Output of a Generating Unit. The reactive output at the three power levels would be shown explicitly on the chart. This would establish a link between the performance chart and the information provided on the proforma

747. Panel Members' reservations remain regarding the interaction between the Performance Chart and the BC2 Fax. Panel Members will provide comments on the process to National Grid; who will facilitate a meeting which will address the relevant issues and discuss/agree an enduring solution.

Action: Panel Members and National Grid (BT and DB)

10. Multi Unit BMUs

748. BT informed the Panel about the previous request to inform the GCRP of any updates/changes to the treatment of Multi Shaft CCGTs.
749. National Grid subsequently agreed to establish a process to enable Generators to inform National Grid of synchronised generating units which are capable of being desynchronised but are unable to do so using the dynamic parameters submitted for the BM unit.
750. The Panel NOTED that the process will involve a fax pro-forma being sent to National Grid indicating any MW reductions below SEL, which would not normally be accessible within BM timescales. Information provision for MW reduction below SEL will be published on the Internet via SONAR giving improved transparency of process.
751. The Panel NOTED that the implementation date for the new process, originally proposed as 21st May 2007, would be delayed due to technical software problems regarding SONAR.
752. The Panel AGREED that the new process will be formally introduced and implemented following the forthcoming Ops Forum (6th June 2007) and subject to the resolution of SONAR's technical problems.

Action: National Grid (BT)

Post Meeting Note

BT has been informed that SONAR's technical problems will not be resolved in time for June's Ops Forum and is awaiting confirmation regarding the exact date of SONAR's availability. BT and MT to discuss the implementation of the process, update to be provided to September's GCRP.

Action: National Grid (BT) & MT

11. Capacity Terms

753. MD presented a paper which examines each of the capacity terms in the Grid Code and to identify the scenarios in which they are utilised.
754. MD informed the Panel that the Grid Code utilises terms that are defined specifically for Grid Code purposes (and which are defined within it) but also contains certain capacity terms that are defined in codes other than the Grid Code e.g. CUSC and BSC.
755. The Panel NOTED that the Grid Code capacity terms can be broken down into one of two categories. There are those terms that represent an inherent physical capability of a Generating Unit (or Power Station), while there are others which represent the physical capability of the generating unit or power station at a particular time or under certain conditions.
756. MD informed the Panel that there was very limited interaction between the capacity terms as each one had been introduced to undertake a specific function.
757. Panel Members will provide comments on the paper to National Grid; suggesting if there were any additional capacity terms which should be included in the document and whether there was any benefit to rationalising any of the terms.

Action: Panel Members & National Grid (LM)

12. Control Telephony Electrical Standard

758. The Panel discussed the revised Control Telephony Electricity Standard and provided clarity on points raised by the Panel at May's GCRP.

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759. MD informed the Panel that the Electrical Standard now made reference to the Bilateral Agreement provisions and clarified each parties responsibilities regarding the installation of Control Telephony i.e. National Grid providing and installing the infrastructure external to the Control Point or Network Operator Control Centre together with the Green Phone, with the User providing and installing the internal infrastructure.
760. The Panel NOTED that the Control Telephony Electrical Standard would be implemented at a User site in line with existing hot site procedures. GN indicated that for clarificatory purposes it may be useful for the Electrical Standard to refer to the hot site provisions.
761. The Panel APPROVED the Control Telephony Electricity Standard subject to the inclusion of a reference to the relevant hot site procedures.
Action: National Grid (LM)
762. The Panel NOTED that the final version of the Control Telephony Electrical Standard would be circulated for formal approval.
Action: National Grid (LM)
763. The Panel NOTED that the Electricity Standard would be officially incorporated within the Grid Code when the consequential Grid Code changes, as outlined by Grid Code Consultation Document C/06, have been implemented (subject to Authority approval) into the Grid Code.
Action: National Grid (LM)
- 13. Dispatch of Reactive Power from Embedded Generation**
764. BT enquired as to whether there was sufficient clarity in the Grid Code regarding the dispatch of reactive power from Embedded Generation.
765. The Panel AGREED that additional clarification/discuss would be beneficial regarding the applicability of the issue i.e. how many sites does it affect and the relationship between the DNO and the GBSO regarding the dispatch of reactive power from Embedded Generation, which may necessitate Grid Code changes.
766. The Panel AGREED that a paper would be presented at September's GCRP, outlining the issues relating to the dispatch of reactive power from Embedded Generation.
Action: GN
767. The Panel NOTED that the capability of Embedded Generation to provide Reactive Power had been discussed at the Power Park Modules and Synchronous Generating Units Working Group and would not form part of the discussion paper.
- 14. Compliance Process**
768. National Grid presented information on the Lifetime Compliance Process. The presentation of which will be made available to the Panel.
Action: Panel Secretary
769. The Panel NOTED that the process was formalising the existing work procedures (including applicable timescales) in order to increase the visibility and understanding of the compliance process.
770. JN noted the interaction between the process and the existing provisions within Grid Code OC5 (Testing and Monitoring) and queried the necessity to have two separate processes.
771. The Panel queried the governance arrangements for the process and what elements if any could be codified in OC5 and/or CUSC. AB confirmed that currently

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there were no formal governance arrangements and as such the process would retain the flexibility to adapt the process to meet the needs of National Grid and Users.

772. AB indicated that National Grid would welcome views from the Panel regarding any codification of the process. The Panel AGREED that given the legal requirements of the process on the industry, it would be beneficial if elements of the process were codified. Panel Members to provide comments on the process and the associated governance arrangements (if applicable); National Grid will provide an update to September's GCRP.

Action: Panel Members and National Grid (AB)

773. The Panel NOTED that due to legal requirements the formal notification was sent from National Grid Company Secretary to the Company Secretary of the specified User. The Panel requested and National Grid AGREED that an electronic copy of the notification would also be sent to the relevant practitioner within the company such that the issue could be address in a timely manner.

Action: National Grid (AB)

15. Offshore Subgroups

774. The Panel NOTED that [Ofgem's Scoping document](#) outlining how Offshore Transmission System would be introduced had been published and was available from Ofgem's website. The various work streams were outlined in the scoping document:

- i. Legislation
- ii. Access & Charging
- iii. Technical Rules & SQSS
- iv. Tendering & Bidding Process
- v. Regulatory Regime & Licensing
- vi. Transitional Arrangements

775. The Panel NOTED that some of work streams were more established than others. BM informed the Panel that the next Ofgem's consultation regarding Offshore would be published in July 2007.

776. The Panel NOTED that the Offshore Grid Code subgroup was due to report back in May 2007. The Panel enquired whether the report would be publicly available on Ofgem's website. BM to enquire as the public availability of the document and requested that the Panel Members made a similar request to Offshore Grid Code Working Group Chairman.

Action: Panel Members and BM

777. The Panel NOTED that it would be kept informed of any future developments.

Action: BM

16. Impact of Other Code Modifications

778. The Panel NOTED that [CAP143 \(Interim TEC\)](#) would require a consequential amendment to the Grid Code. The consultation document was circulated to the industry comment on 4th May 2007 with a closing date of 8th June 2007 and was available on the CUSC web site.

779. The Panel NOTED that [CAP144 \(Emergency Instruction to Deenergise\)](#) had been circulated for industry consultation which would contain illustrative Grid Code legal text for reference purposes only. The formal Grid Code changes will progress in accordance with the Grid Code Amendment process.

780. CAP144 consultation document was available on the CUSC website and would be circulated to the Panel for reference purposes.

Action: Panel Secretary

17. Any Other Business

AOB01

781. DW informed the Panel that National Grid had issued a revised Directory of Emergency Aid which specified the contact details for key industry parties to be utilised in the case of emergency. The Panel NOTED that the information would not be publicly available but would be sent to the relevant people in relevant companies.

AOB02

782. DW noted the recent industry workshops arranged by the GB SQSS Working Group (Review of need for Intermittent Generation specific parameters in GB SQSS) and enquired as to what the next steps would be.

Post Meeting Note

Information will be made available on the [GB SQSS Website](#) regarding the GB SQSS Working Group next steps.

AOB03

783. The Panel agreed to the re-establishment of the 'Good Industry Practice for Safety Coordinator Training Working Group to discuss recent changes to Grid Code OC8. Interested parties are to contact Richard Scarth (Richard.Scarth@uk.ngrid.com).

Action: Panel Members

AOB04

784. National Grid has agreed to Panel Members suggestion that an acknowledgement is to be sent out to all consultation respondents confirming receipt of their response and that they will receive a formal reply in due course.

Action: National Grid (LM)

AOB05

785. National Grid will present a paper to September's GCRP on the implications and possible consequences for the GBSO of the Large Combustion Plant Directive on the GB Transmission System and market arrangements.

Action: National Grid (BT)

AOB06

786. GN informed the Panel that industry workshops had been scheduled for 29th and 31st May 2007 to discuss Grid Code obligations for wind farms. The industry workshops had been arranged by BWEA and Econnect

787. SB informed the Panel of a European Wind Conference which was looking to harmonise Grid Code obligations for wind turbines across Europe. The body was due to report back with draft proposals in September 2007. The Panel NOTED that they would be kept informed of any European initiatives.

Action: National Grid (NT) & GH

AOB07

788. JN noted the recent introduction of Gas Insulated Switchgear (GIS) by National Grid and highlighted the potential issues in terms of the tendering process for maintenance requirements e.g. limited user choice and ownership boundaries.

789. DC informed the Panel that Scotland had recently introduced GIS and various lessons had been learned.

790. Panel Members to send their concerns/issues/lessons learned to National Grid who will provide an update to September's GCRP.

Action: National Grid (BT) and Panel Members

18. UCTE Incident

791. National Grid presented information on the UCTE incident outlining the circumstances leading up to the event and the root causes of the occurrence. The presentation will be made available to the Panel.

Action: Panel Secretary

19. Date of Next Meeting

792. The next meeting will be held on Thursday, 20th September 2007 at National Grid House, Warwick. The meeting will commence at 10:00am.