

Summary of Meeting and Actions

Meeting Name	Black Start Working Group
Meeting No.	2
Date of Meeting	Wednesday, 2 nd May 2007
Time	10:00am – 2:30pm
Venue	B2-1, National Grid House, Warwick

This note outlines the key action points from the second meeting of the Black Start Working Group.

1) Apologies for Absence

Apologies were received from Steve Cox (United Utilities), Garth Graham (SSE), John Morris (British Energy), Phil Nicholson (Central Network), Wayne Oxborough (Central Networks) and Malcolm Taylor (AEP).

2) Minutes of Last Meeting

The draft minutes of the first Grid Code Black Start Working Group meeting held on 4th April 2007 were APPROVED, subject to minor amendments and will be accessible from the Grid Code Website.

3) Review of Actions

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

Simulator Facility

The Working Group noted that National Grid's training simulator could be made available to facilitate joint LJRP exercises; however the availability would be limited given the usage of the facility by National Grid to train its Control Room engineers and National Grid would need to understand the amount of pre-work required before such exercises could be carried out.

4) Local Joint Restoration Plans (LJRP) Exercise Requirements

The Working Group noted and discussed SS's paper which outlined the objectives of the LJRP exercise and proposed wording for the associated code changes.

The Working Group agreed in principle that the Grid Code should be amended to include the specific deliverable of the LJRP exercises (item iii only in SS note). The exercise objectives (items i to iii inclusive) could be included in the LJRP documentation.

The Working Group discussed the frequency of the exercises and whether the obligation should state the minimum or maximum exercises required. The Working Group agreed to a proposal of each LJRP being tested not less than once every 8 years. This frequency should compliment the Black Start station tests & assurance visits already carried out.

The Working Group agreed that external observers could attend the LJRP exercise in order to increase industry participation and awareness.

The Working Group agreed that National Grid would coordinate a calendar which would assist in the scheduling of the training events. The preparation of the LJRP exercises would be the responsibility of all parties participating in the exercise.

National Grid will circulate the associated documentation used for the exercise at Kingsnorth, such that the Working Group could obtain an appreciation of the material required to facilitate the LJRP exercises.

Action: NG

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The Working Group agreed that Operation Code 9 (Contingency Planning) of the Grid Code would be the most suitable place for any LJRP exercise obligations and would have the additional benefit of being applicable to Scottish Transmission Owners via the SO-TO Code. The Working Group agreed to the following amendments to the proposed wording:

- Replace 'frequency' with 'timing'
- Replace 'interested parties' with 'LJRP parties'
- LJRP exercise objective (iii) would be included in the Grid Code text
- Specify the type of exercise i.e. desktop (unless otherwise agreed)

The paper will be amended to reflect Working Group comments, which will be circulated to members and discussed at the next Working Group meeting.

Action: SS

5) Zonal Restoration Plans

The Working Group agreed that the first phase (Power Islands) of any Black Start restoration was well documented via the LJRPs and there was a high level of understanding between National Grid, the DNO and the relevant Black Start Generator. It was accepted that there was lack of clarity regarding the second (Zonal Restoration Plans) and third stage (restoration of complete transmission system) of the Black Start restoration process.

The Working Group noted and discussed National Grid's paper which outlined the potential governance arrangements for the Zonal Restoration Phase.

The Working Group agreed that it would be beneficial to introduce additional provisions in the Grid Code to record more details of the generic roles and responsibilities of the relevant parties during this phase. The codified obligations would:

- Record the key objectives of the Zonal Restoration Phase
- Record the responsibilities on the parties
- Clarify guidance on the treatment of embedded generation and self despatch generation that may be located within the zones
- Clarify guidance on the re-synchronisation (or otherwise) of certain types of load with demanding electrical characteristics
- Clarify the guidance on the operational standards within which the parties will aim to operate during the zonal phase

The Working Group agreed that there would not be any material benefit in introducing a framework of Zonal Restoration Plans that would have to be formally agreed by multi-parties. The reasons for this included: (a) any zonal plan can only be a guide because it will probably have to be adapted or changed to suit the particular set of circumstances faced at the time; (b) National Grid already has internal zonal plans to assist it in discharging its responsibilities; (c) the logistical difficulties and resources to agree and update formal documents across industry participants would be significant.

The Working Group queried whether there was sufficient clarity in existing Grid Code provisions in particular OC9.4.7.6 and OC9.4.7.4 (a). The Working Group noted that there was inconsistency between the Grid Code provisions and what would happen in reality. The Working Group agreed that it would be useful to review the existing clauses to ensure that they were fit for purpose.

The paper will be amendment to reflect Working Group comments, which will be circulated to members along with proposed draft legal text and discussed at the next Working Group meeting.

Action: NG

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6) Back to Normal Principles

The Working Group noted and discussed CM's paper which outlined the principles and processes required to return the market to normal operational conditions after a Black Start event.

The Working Group noted that the electricity trading market would be suspended during a Black Start event as specified in Section G (Contingencies) of the BSC. It would be the responsibility of the BSC Panel to recommence the market after a Black Start event i.e. National Grid would provide relevant information and inform all relevant parties of a Black Start but would not be responsible for the suspension and/or recommencing of the electricity trading market.

The Working Group noted that the Phoenix project considered information on how the market would be affected during a Black Start incident, entitled 'Market Aspects'. The relevant information would be circulated to Working Group members for information purposes.

Action: SA

The Working Group agreed that it would be beneficial to understand the exact events of a Black Start incident on the electricity trading market and what obligations, process and/or procedures would be applicable under such circumstances. A session will be organised, with relevant parties including BSC experts, to discuss the effects of a Black Start incident on the electricity market and the dovetailing of BSC and Grid Code obligations.

Action: JH

Subject to the outcome of such session, the Working Group agreed that no formal Grid Code changes/obligation presently appear to be appropriate. There was agreement that there would be benefit in developing a guidance note which would outline how the market would operate in the event of a Black Start event.

7) Next Meeting

The meeting scheduled for 23rd May 2007 will be cancelled and the next meeting of the Working Group will take place on Wednesday, 27th June 2007 at National Grid House, Warwick commencing at 10am.

8) Next Steps

The following points will be discussed at the next Working Group meeting:

- Circulation of Kingsnorth's LJRP training documentation (NG)
- LJRP Exercise Requirements proposals to be amended to reflect Working Group members comments (SS)
- Zonal Restoration Plan proposals to be amended to reflect Working Group members comments, draft legal text to be proposed and circulated for comment (NG)
- Circulation of 'Market Aspects' section of the Phoenix Report (SA)
- BSC session to be arranged (JH)

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Appendix 1 – Working Group Attendance

Members Present:

Jonny Hosford	JH	Chairman
Lilian Macleod	LM	Secretary
Nilton Green	NG	National Grid
Steve Argent	SA	Ofgem
David Briggs	DB	Central Networks
Allan Macleod	AM	Scottish Power Transmission Ltd
Campbell McDonald	CMcD	SSE Generation
Claire Maxim	CM	E.ON UK
John Norbury	JH	RWE
David Osborne	DO	Scottish Hydro-Electric Transmission Ltd
Steve Saunders	SS	EDF Energy
Paul Ward	PW	United Utilities

Apologies:

Steve Cox	SC	United Utilities
Garth Graham	GG	SSE
John Morris	JM	British Energy
Phil Nicholson	PN	Central Networks
Wayne Oxborough	WO	Central Networks
Malcolm Taylor	MT	AEP