

GRID CODE REVIEW PANEL

GOVERNANCE OF ELECTRICAL STANDARDS

1 Introduction

- 1.1 At the Grid Code Review Panel on the 15th November we undertook to review and consider further the technical standards that currently formed part of the GES arrangements (in total 18 NGTS's and a number of other technical documents), and to bring forward a package of work in this area.
- 1.2 The ultimate aim of this review would be to ensure that standards forming part of the GES arrangements were those that were directly relevant to Users, and imposed direct obligations on them. Where current GES standards were of no relevance to users, the intention would be to remove them from the GES list. Conversely, where other technical standards that imposed direct obligations on Users were not subjected to GES Governance arrangements, the intention would be to bring them under the scope of GES.
- 1.3 The aim of this exercise is not to increase the burden on the connectee but to improve the clarity of information and relevance of the GES standards as defined in the Grid Code GES arrangements.
- 1.4 This proposal only covers the technical standards applicable as a direct result of connection, i.e. General Conditions Annex (a), and it does not cover those that are only applicable in Scotland i.e. General Conditions Annex (c) (d). Also it does not include the standards that relate to Balancing Mechanism activity, i.e. General Conditions Annex (b).

2 Proposal

- 2.1 National Grid proposes to replace the current 18 National Grid Technical Specifications (NGTSs) that fall under General Conditions Annex (a) with a stand-alone document hereafter referred to as the Relevant Electrical Standards (RES) (see Attachment 1).
- 2.2 The RES would include the majority of the technical content of the existing 18 NGTSs. At the same time NGC will take the opportunity to further review the applicability of the obligations that would have formally been contained in the NGTSs and consider whether they are still applicable for Users. Where this is not the case NGC will remove these requirements. In carrying out this review, NGC will be looking at all NGTSs and may discover requirements in other NGTSs or procedures, such as TP106 (that has been mentioned). NGC would seek to include these requirements in the RES. Obviously, the exact and final drafting of the RES will be subject to the normal governance arrangements for an Electrical Standard and the Panel would need to endorse that at the appropriate time.
- 2.3 National Grid also proposes to include in the RES those policies, specifications and procedures, which have been referenced in subsequent connection agreements (see Attachment 2) alongside the content of the existing 18 NGTSs. The intention therefore is that the RES will form a single self-contained document that will contain the majority of the technical requirements that NGC currently requires Users to meet. However, it is recognised that the requirements in such a document cannot be completely exhaustive and

in certain circumstances there may still be specific scheme related reasons that will result in NGC requesting a User to meet requirements that will not be described within the RES.

- 2.4 To maintain transparency we will provide a matrix that maps the requirements of the current 18 NGTSs to the relevant sections in the new RES. Where new documents / sections are introduced a narrative will be provided in support of their inclusion. This will be provided to allow the GCRP, and any affected parties should the proposal require consultation, to be able to see how the document was developed.

3 Timescales

- 3.1 Due to the significant workload that is anticipated through the amalgamation the existing 18 NGTSs together with the introduction of the additional content, National Grid does not expect to have a full draft document available for comment until the September 2005 Grid Code Review Panel meeting.

4 Recommendation

- 4.1 The Grid Code Review Panel is invited to:
- Consider the proposed structure, format and indicative content of the document
 - Agree that the proposed document is developed for submission to the September 2005 GCRP meeting.

National Grid

10 February 2005

ATTACHMENT 1 - DOCUMENT STRUCTURE

Relevant Technical Standards

- Title Page
- Contents List
- Introduction (Purpose & Scope)
- Administration to include the change process
- User Policy (UP)
- User Specification (US)
- User Procedure (UP)
- Appendix

ATTACHMENT 2 - INDICATIVE CONTENT OF RES

Title	Ref.
Protection Grading Policy	PS (T) 045
Type Registration	PS (T) 003
Ratings and General Requirements for Plant, Equipment, Apparatus and Services for the National Grid System and Connections Points to it.	NGTS 1
Substations	NGTS 2.1
Substation Interlocking Schemes	NGTS 3.1.1
Earthing Requirements	NGTS 3.1.2
Switchgear for the National Grid System	NGTS 2.2
Circuit-Breakers	NGTS 3.2.1
Disconnectors and Earthing Switches	NGTS 3.2.2
Metal-Oxide Surge Arresters for use on 132, 275 and 400 kV Systems	NGTS 3.2.3
Current Transformers for Protection and General Use on the 132 kV, 275 kV and 400 kV Systems	NGTS 3.2.4
Voltage Transformers for use on the 132 kV, 275 kV and 400 kV Systems	NGTS 3.2.5
Current and Voltage Measurement Transformers for Settlement Metering of the 33 kV, 66 kV, 132 kV, 275 kV and 400 kV Systems	NGTS 3.2.6
Bushings for the National Grid System	NGTS 3.2.7
Solid Core Post Insulators for Substations	NGTS 3.2.9
Gas Insulated Switchgear	TS 3.2.14
Transformers and Reactors	NGTS 2.3
Dry-Type Reactors	NGTS 3.3.2
Co-ordinating Gaps	NGTS 3.3.3
Protection	NGTS 2.6
Busbar Protection for 400 kV and 275 kV Double Busbar Switching Stations	NGTS 3.6.3
Circuit Breaker Fail Protection	NGTS 3.6.8
Interfacing to Synchronising Equipment	NGTS 3.7.6
?AEP suggested?	NGTS 3.9.11
Substation Auxiliary Supplies	NGTS 2.12
Ancillary Light Current Equipment	NGTS 2.19
Substation Information, Control, Protection and Metering	NGTS 2.24
Substation Information Control & Protection Local Area Network	NGTS 3.24.1
Busbar Protection	NGTS 3.24.34
Circuit Breaker Fail Protection	NGTS 3.24.39
Operational Tripping	NGTS 3.24.64
System Monitor - Common Requirements	NGTS 3.24.68
System Monitor - Quality of Supply (QoS)	NGTS 3.24.69
System Monitor - Dynamic System Monitoring (DSM)	NGTS 3.24.70
System Monitor - Fault Recording	NGTS 3.24.71
Operational Metering Summator	NGTS 3.24.72
Operational Liaison and Practice	TP 105
Equipment Commissioning & Decommissioning	TP 106
Protection and Control Relay Settings	TP 107
Numbering & Nomenclature of HV Apparatus	TP 109
Grid Code Change Process and Allocation of Responsibilities	TP 129
Pool Boundary Settlement Metering	TP 131