

## WAGCM4 - Grid Code Alternative Form

# GC0141:

## Preferred permutation across all GC0141 “Sub-Modification” workstreams

### Overview:

The Alternative has been raised to cover the proposers chosen permutation in relation to the elements that comprise the modification.

Details of the chosen permutation as attached and summarised below:

| Solution | Independent Engineer    | Sharing for SSTI / SSCI                             | RMS & EMT Models                                   | Fault Ride Through Definition & Retrospective Requirements | Compliance Repeat Plan  | Enhanced FRT Studies   | Torsional Data   |
|----------|-------------------------|---|--|--|---|--|--|
| WAGCM4   | No requirement for IE   | ESO or TO Employ a Consultant who sees network data | Specification of RMS & EMT model (fully encrypted) | Adds a time duration & retrospective requirements          | Every 5 years Users submit compliance statement and DRC Schedules | No requirement to agree additional studies for complex connections at start of process | User provides data when asked prior to a completion date of 1st April 2015 |
|          | No change from Baseline |   |  |  |   |  |  |
|          | Original Proposal       |   |  |  |   |  |  |
|          | Alternative Option      |   |  |  |   |  |  |

### Requirement for an Independent Engineer – Current Baseline

**Sharing of SSTI / SSCI Models – Alternative Option 2a** (NGESO or TO should employ a consultant to carry out studies on behalf of a User (without User getting the model data) to allow User to fulfil obligations to demonstrate compliance with (EEC.6.3.17). Terms of arrangements agreed in Bilateral Connection Agreement)

### Specification for RMS & EMT Models – Original Proposal

### Fault Ride Through Definition and Retrospective Requirements – Original Proposal

### Compliance Repeat Plan – Original Proposal

### Enhanced Fault Ride Through Studies – Current Baseline

**Provision of Torsional Data for Older Plant – Alternative Option 7a** (requirement for User to only provide Torsional Data for Generating Units with a completion date before 01 April 2015 on request)

**Proposer:** Christopher Smith, National Grid Ventures/National Grid Interconnector Holdings Ltd

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## What is the proposed alternative solution?

The alternative covers the proposers chosen elements of the modification, with some elements differing from the Original Proposal.

## What is the difference between this and the Original Proposal?

See “Overview” section.

## What is the impact of this change?

| Proposer's Assessment against Grid Code Objectives   |   |
|--|---|
| Relevant Objective   | Identified impact   |
| (a) To permit the development, maintenance and operation of an efficient, coordinated and economical system for the transmission of electricity  | <b>Positive</b><br>Costs are kept to a minimum with this proposal             |
| (b) Facilitating effective competition in the generation and supply of electricity (and without limiting the foregoing, to facilitate the national electricity transmission system being made available to persons authorised to supply or generate electricity on terms which neither prevent nor restrict competition in the supply or generation of electricity); | <b>Positive</b><br>Keeps access open to smaller suppliers                     |
| (c) Subject to sub-paragraphs (i) and (ii), to promote the security and efficiency of the electricity generation, transmission and distribution systems in the national electricity transmission system operator area taken as a whole;  | <b>Positive</b><br>Ensures technical risk is managed by the appropriate party |
| (d) To efficiently discharge the obligations imposed upon the licensee by this license and to comply with the Electricity Regulation and any relevant legally binding decisions of the European Commission and/or the Agency; and  | <b>Positive</b><br>Decreases the risk of significant system events            |
| (e) To promote efficiency in the implementation and administration of the Grid Code arrangements   | <b>Neutral</b>  |

**When will this change take place?****Implementation date:**

In line with GC0141

**Implementation approach:****Acronyms, key terms and reference material**

| Acronym / key term | Meaning   |
|--------------------|---|
| BCA                | Bilateral Connection Agreement - between a User and ESO |
| ECC                | European Connection Conditions – part of Grid Code      |
| PC                 | Planning Code – part of Grid Code                       |
| TO                 | Transmission Owner                                      |
| NG ESO             | National Grid Electricity System Operator               |

**Reference material:**

None.