

WAGCM7 - 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
WAGCM7	No requirement for IE	ESO/TO share models as required	Specification of RMS & EMT model (fully encrypted)	Adds a time duration & retrospective requirements	Submit material changes from submission made to achieve FON	Additional studies for complex connections agreed at start of process	All Users provide torsional data (retrospective)
	No change from Baseline						
	Original Proposal						
	Alternative Option						

Requirement for an Independent Engineer – Current Baseline

Sharing of SSTI / SSCI Models – Original Proposal

Specification for RMS & EMT Models – Original Proposal

Fault Ride Through Definition and Retrospective Requirements – Original Proposal

Compliance Repeat Plan – Alternative Option 5a (Only changes to original baseline data to be submitted in order to achieve compliance)

Enhanced Fault Ride Through Studies – Original Proposal

Provision of Torsional Data for Older Plant – Original Proposal

Proposer: Marko Grizelj – Siemens Energy Limited

Contents

[What is the proposed alternative solution?](#)

[What is the impact of this change?](#)

[When will the change take place?](#)

[Acronyms, key terms and reference material](#)

What is the proposed alternative solution?

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

WACGM7 primarily follows the Original Proposal except for 2 key areas:

- Independent Engineer
- Compliance Repeat Plan

For the independent engineer, WACGM7 proposes to utilise the existing baseline grid code. Due to the concerns regarding the scope, contractual responsibility, cost, project timelines and qualifications associated with an independent engineer, without a corresponding equivalent benefit to the current process, an independent engineer does not better facilitate the overall AGCOs better than the baseline.

For the compliance repeat plan, WACGM7 alternative places a slightly smaller administrative burden on the User but does not necessarily preclude the sending of all data if desired.

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	Positive WACGM7 would facilitate a more robust transfer of information between Users and Company and prevent additional inefficient burdens being placed on Users for the purposes of grid code compliance.
(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);	Neutral
(c) Subject to sub-paragraphs (i) and (ii), to promote the security and efficiency of the	Positive

electricity generation, transmission and distribution systems in the national electricity transmission system operator area taken as a whole;	The clarity on the exchange of important information on the Users Plant and Apparatus will promote a more secure and efficient operation of the electricity system.
(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	Neutral
(e) To promote efficiency in the implementation and administration of the Grid Code arrangements	Positive A more prescribed process for information and model exchange, coupled with a clearer model development and validation process will make implementing grid code arrangements more straightforward.

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.