

Public

Code Administrator Meeting

Summary

Workgroup Meeting 2: GC0178 Temporary Overvoltage – Specification of Limits and Clarification of Obligations

Date: 10 September 2025

Contact Details

Chair: Catia Gomes, catia.gomes@neso.energy

Proposer: Bieshoy Awad, bieshoy.awad@neso.energy

Key areas of discussion

The Chair confirmed that the objective of the Workgroup meeting, with GC0155 Workgroup members in attendance, was to clarify the scopes of GC0155 and GC0178, address any perceived overlaps, and agree on the necessity to distinctly separate the requirements for overvoltage and temporary overvoltage between the two modifications.

Scope of GC0155 and GC0178

The Proposer explained that GC0155 focuses on clarifying requirements related to fault ride through, particularly for low voltage events and post-fault recovery, while GC0178 is intended to address requirements for temporary overvoltage at the grid entry point, including the maximum limits and response expectations for transmission-connected sites.

Perceived Overlap and Disagreement

2 Workgroup members highlighted that what was presented as a clarification in GC0155 is, in their view, a new requirement, especially regarding post-fault reactive current absorption, which is not currently specified in the grid code. This led to a disagreement on whether GC0155 is a clarification or a correction, and whether new requirements should be included.

Resolution

The Chair summarised that to avoid overlap, all requirements related to temporary overvoltage should be moved to GC0178, and GC0155 should focus on other aspects. The Workgroup agreed to review and potentially amend the proposal forms and terms of reference for both modifications to ensure clear demarcation, with actions for each Workgroup to review their documents and propose changes if necessary.

Terminology and Definitions

Multiple Workgroup members emphasised the importance of clearly defining 'overvoltage' and 'temporary overvoltage' in the proposal forms and the Grid Code glossary, as inconsistent terminology could lead to confusion about the scope and requirements of each modification.

Workgroup Process

The Proposer plans to engage an external consultant to review terminology, assess the current system status, analyse causes and impacts of temporary overvoltage, and provide recommendations for requirements and compliance processes. The consultant's findings will inform the Workgroup's decisions and be shared as much as possible, subject to confidentiality.

The Workgroup agreed to postpone the October meeting and reconvene in November to allow time for the consultant's appointment and initial analysis. This will ensure future meetings are productive and focused on substantive content. Workgroup members requested that all non-confidential data and reports from the consultant be shared, including real cases from the UK and worldwide, to support transparent and informed decision-making. The Proposer confirmed the intention to share as much as possible and involve Original Equipment Manufacturers (OEM)'s, developers, and Transmission Owners in the process. The Workgroup agreed to track action items with due dates, store key documents in the collaboration space, and review terms of reference and proposal forms at the next meeting to ensure alignment with the agreed scope.

Technical and Compliance Considerations

The Workgroup discussed the need to establish consistent voltage versus time curves for overvoltage, based on technical analysis and international standards, to be specified in the grid code. New plants must comply with these new limits from their connection date, while existing plants need to comply with the overvoltage levels, they are likely to experience, with mechanisms for prioritisation, derogation, and potential cost recovery for required upgrades. The significant cost implications of these changes necessitate a thorough cost-benefit analysis and impact assessment, particularly for existing generators. Clear, technically robust definitions of overvoltage and temporary overvoltage are essential for setting requirements, ensuring compliance, and avoiding ambiguity in the Grid Code and related documents.

Next Steps

The Chair advised that at the next Workgroup meeting, there should be an update on the progress of arranging a consultant, and that any actions not completed on time, Workgroup members will be provided an explanation.

Actions

For the full action log, click [here](#).

Action Number	Workgroup Raised	Owner	Action	Due by	Status
1	WG1	BA	The Proposer to ascertain whether the analysis that took place to develop the TGN 288 limits took the impact on G59 and G99 protection and advise Workgroup members on the outcome.	WG3	Open
2	WG1	CB/CG	Share the revised 132 kV limit values currently used by SP Energy	WG3	Open

			Networks with the Workgroup and upload to the collaboration space.		
4	WG2	All	Review the Terms of Reference and Proposal form.	WG3	Open
5	WG2	BA	Engage an external consultant to perform the required analysis	WG3	Open

Attendees

Name	Initial	Company	Role
Catia Gomes	CG	NESO	Chair
Sarah Williams	SW	NESO	Tech Sec
Bieshoy Awad	BA	NESO	Proposer
Afshin Pashaei	AP	National Grid	Workgroup Member
Andrew Larkins	AL	Sygensys	Workgroup Observer
Cornel Brozio	CB	SP Energy Networks	Workgroup Member
Graham Lear	GL	NESO	NESO Representative
Graham Vincent	GV	SP Energy Networks	Workgroup Alternate
John Reilly	JR	EDF (Existing Nuclear)	Workgroup Member

John Hylands	JH	SSE Renewables	Workgroup Alternate
Jose Ribecca	JRi	Orsted	Workgroup Member
Martin Aten	MA	Uniper	Workgroup Member
Mzamoyabo Sibanda	MS	SSE Renewables	Workgroup Member
Murali Venkata	MV	Siemens Energy	Workgroup Observer
Nicola Barberis Negra	NBN	Orsted	Workgroup Alternate
Paul Youngman	PY	Drax	Workgroup Member
Shafiu Ahmed	SA	Siemens Energy	Workgroup Observer
Tobias Siepker	TS	Siemens Gamesa Renewable Energy	Workgroup Observer
Wenyuan Wang	WW	RWE Renewables	Workgroup Observer