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Code Administrator Meeting

Summary

Workgroup Meeting 25

GC0155 'Clarification of Fault Ride Through Technical Requirements'

Date: 18 November 2025

Contact Details

Chair: Ren Walker, lurrentia.walker@neso.energy

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

Key areas of discussion

The aim of Workgroup 25 was to review the action log, Workgroup consultation and Legal text.

Review of Action Log

The Chair led the Workgroup through a review of the action log, resulting in the closure of several actions and the agreement to keep others open for further review.

The Workgroup agreed to close actions 61, 72, 74, 75, 76 and 81 after confirming that their requirements had been met or documented in the Workgroup Consultation document.

The Workgroup agreed to keep actions 64, 66, 73, 79 and 80 open, as they require further review of the Legal text, additional updates to documents, or further input from Workgroup members. The Workgroup also agreed to keep action 78 open as the updated Proposal Form had not been circulated for review by Workgroup members. The Proposer clarified that the Proposal form had been updated to clarify requirements for generating maximum reactive current during faults, removed references to overvoltage events (now covered under GC178), and added clarifications on fault ride-through simulations. Sections unrelated to the current scope, such as voltage protection settings, had been deleted.

The Workgroup agreed to open new actions 82, 83, 84, 85 and 86.

Review Draft Workgroup Consultation

The Proposer led a review of the Workgroup Consultation document.

The Proposer detailed two key elements that had been added to the Workgroup Consultation document to capture recent Workgroup discussions and concerns. A discussion of risks associated with the restoration of active power following fault clearance, and requirements for supporting voltage following fault clearance if voltage exceeds specified limits. The Workgroup

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raised questions about whether new requirements were being introduced and emphasised the need to capture all Workgroup views in the Workgroup Consultation document. The Workgroup agreed to review the updated documents individually and provide comments or proposed text changes before the next meeting.

Review of Draft Legal Text

The Proposer led the Workgroup through a section-by-section review of the draft Legal text, with Workgroup members providing technical feedback, raising questions, and suggesting clarifications or further actions.

- **Clarification of Fault Ride-Through Requirements:** The Workgroup discussed the revised requirements for active power recovery after faults, focusing on the dual threshold (90% of pre-fault output or pre-fault output minus 5% of registered capacity). The Proposer clarified the rationale for these thresholds. The Workgroup highlighted the need for clearer cross-referencing and simpler language to aid compliance for users. **(Action 85)**
- **Scope and Applicability of New Clauses:** The Workgroup debated whether certain clauses represented new requirements or clarifications, and whether they should be addressed under GC155 or GC178. The Workgroup agreed to include consultation questions to gather industry feedback and revisit the scope based on responses.
- **Exclusions and Redundancies in Legal Text:** The Workgroup identified potential redundancies in exclusion clauses related to unhealthy circuits and islanded operation. The Workgroup discussed whether to retain, remove, or consolidate these clauses. **(Action 83)**
- **Technical Definitions and Compliance Assessment:** The Workgroup raised the need to define 'retained voltage' in the context of unbalanced faults and clarify whether positive sequence voltage or phase voltage should be used. The Proposer agreed to consult with compliance officers and report back with a recommendation. **(Action 84)**

Timeline Update

The Chair confirmed that the Grid Code Review Panel had approved a two-month extension, with the next Workgroup meeting scheduled for 8 December and the aim to publish the consultation document by 15 December.

Next Steps

Workgroup members were asked to review the Workgroup Consultation document and Legal text, consider consultation questions, and confirm their availability for the next meeting.

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Actions

Action Number	Workgroup Raised	Owner	Action	Due by	Status
61	WG15	All	Workgroup members to provide feedback on why BCA doesn't work and how they feel they can better comply	WG24	Closed
66	WG16	All	Provide feedback on the Issues with the current requirements and validate that these points are correct.	WG24	Open Propose to close at WG26
72	WG23	RW/AH	Latest Workgroup Consultation document to be shared on the collaboration space and shared with members who don't have access.	WG24	Closed
73	WG23	ALL	Review Workgroup Consultation document. Build in comments and amendments not limited to neso implementation costs, fault injection requirement in CC and fault current injection under unbalanced faults.	WG24	Open Propose to close at WG26
74	WG23	BA	Provide the PDF document related to unrealistic modelling scenarios to the workgroup and include it as an annex in the Workgroup Consultation document.	WG24	Closed
75	WG23	SM	Legal text needs to be updated to the newest baselines of the Grid Code sections. (any current comments to be transposed to the new baselines)	WG24	Closed
76	WG23	RW/AH	Updated Legal Text to be shared on the collaboration space and	WG24	Closed

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			shared with members who don't have access.		
77	WG23	ALL	Review updated Legal Text.	WG24	Open
78	WG24	BA	Update the GC0155 Proposal Form to clearly reflect the current scope, removing any references to GC178, and circulate the revised document to the Workgroup for review.	WG25	Open
79	WG24	BA/RW	Add an additional section to the Workgroup Consultation document to accurately document the differing viewpoints and discussions from Workgroup 24 and then circulate to the Workgroup for input and review.	WG25	Open Propose to close at WG26
80	WG24	BA/RW	Incorporate updates to the Workgroup Consultation document, including the revised Proposal Form, Legal text, and a paragraph clarifying the handling of the Terms of Reference item regarding overvoltage's and then circulate the updated draft for review at the next meeting.	WG25	Open Propose to close at WG26
81	WG24	RW	Submit a timeline extension request to the Grid Code Review Panel for a two-month extension to the GC0155 timeline, reflecting the need for two additional Workgroup meetings before reaching Workgroup Consultation.	WG25	Closed
82	WG25	BA	Revise the legal text to address missing or unclear wording, particularly regarding the retained voltage and exclusions.	WG26	New

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83	WG25	BA	Exclusion Clause Redundancy: Review and determine whether to keep, update, or remove the redundant exclusion clauses in the Legal text, ensuring only necessary text remains.	WG26	New
84	WG25	BA	Unbalanced Faults Definition: Clarify in the compliance process documentation whether retained voltage for unbalanced faults refers to positive sequence voltage or the voltage of the faulted phase.	WG26	New
85	WG25	BA	Threshold for Fault Ride Through Exclusion: Investigate the rationale behind the 5% threshold for fault ride through exclusion and consider if an alternative exclusion based on MW level would be more appropriate.	WG26	New
86	WG25	RW	Add a reference in the Workgroup Consultation document explaining how very low output is defined and how exclusions are applied, as discussed in the meeting.	WG26	New

Attendees

Name	Initial	Company	Role
Ren Walker	RW	Code Administrator, NESO	Chair
Andrew Hemus	AH	Code Administrator, NESO	Tec Sec
Bieshoy Awad	BA	NESO	Proposer
Afshin Pashaei	AP	National Grid	Workgroup Member
Andrew Larkins	AL	Sygensys	Observer

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Fiona Williams	FW	NESO	SME
Fraser Norris	FN	SSE	Workgroup Member
Graham Lear	GL	NESO	NESO Representative
Martin Aten	MA	Uniper	Workgroup Member Alternate
Michail Theodoridis	MT	Vestas	Observer
Nicola Barberis Negra	NN	Orsted	Workgroup Member
Paul Youngman	PY	Drax	Workgroup Member
Tim Ellingham	TE	RWE Generation UK, RWE Renewables	Workgroup Member