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Code Administrator Meeting

Summary

Workgroup Meeting 23

GC0155 Clarification of Fault Ride Through Technical Requirements

Date: 24 June 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 23 was to review Terms of Reference, discuss and agree the withdrawal of WAGCM's and start to review the Workgroup Consultation.

Action Log Review: The Chair led a review of the action log with actions 56, 64, 70 and 71.

Timeline Update: The Chair explained that the GC0155 timeline will be moved back by a couple of months due to proposer availability. The new timeline will be presented to the Grid Code Review Panel in July for approval.

Withdrawal of WAGCMs: The workgroup agreed to withdraw the two WAGCMs for GC0155, as they are no longer in scope due to GC0178 being raised.

Terms of Reference Review: The Chair led the workgroup through a review of the Terms of Reference, discussing the need to address various points such as NESO implementation costs, legal text, crosscode impacts and fault ride through requirements. The Workgroup agreed to develop narrative around these points for inclusion in the Workgroup Consultation document.

NESO implementation costs: the Proposer noted that there should be no costs or changes in processes, except for potential changes to some contracts.

Crosscode impacts: the workgroup discussed the implications of the proposal on other industry codes, especially the distribution code, the Workgroup also noted that the impact on G99 should be considered once the legal text is reviewed.

Fault Ride Through Requirements: The workgroup discussed the fault ride through requirements, including the implications of relaxing requirements for low output generation. The Workgroup agreed to include consultation questions on this topic and document the discussion in the Workgroup Consultation document.

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Low Output Generation: The Proposer discussed the implications of relaxing fault ride through requirements for low output generation and noted that wind farms and other non-synchronous generation operating below 5% of capacity are excluded from these requirements.

Hydro Units: The workgroup raised a question about hydro units operating at low output. The Proposer checked examples and found that hydro units tend to have a minimum stable generation around 30-40%, which is significantly higher than 0.

Unbalanced Fault Current Injection: The Workgroup discussed the issue of unbalanced fault current injection and the need to prevent transient overvoltages on healthy phases. They agreed to add a discussion item in the consultation document to capture this topic. The Grid Code requires that the methodology to prevent these overvoltages be agreed upon with NESO.

Workgroup Consultation Review: The Chair led a review Workgroup Consultation document. The Workgroup agreed the need for further review and comments from Workgroup members. It was noted that not all members had seen the updated Workgroup Consultation document, so it will be shared for further review and comments. The Chair suggested that the Workgroup should review and refine the proposed Workgroup Consultation questions to ensure they are relevant and not excessive and avoid overwhelming respondents with too many questions. It was suggested that similar questions could be grouped together to reduce the total number of questions and make the consultation more manageable for respondents.

Next Steps

New timeline to be presented at July Grid Code Review Panel.

Updated Workgroup Consultation document and Legal text to be shared for Workgroup review ahead of the next Workgroup meeting.

Actions

Action Number Raised	Workgroup	Owner	Action	Due by	Status
56	WG14	BA	Proposer to trace discussions on issues with fault ride through requirements from GC0111 and GC0137		Closed

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61	WG15	All	Workgroup members to provide feedback on why BCA doesn't work and how they feel they can better comply	WG24	Open
64	WG16	BA	Review text for ECC.6.3.15.8 and consider non-compliance issues		Closed
66	WG16	All	Provide feedback on the Issues with the current requirements and validate that these points are correct.	WG24	Open
70	WG22	RW	Chair to clarify reasoning for changes made to Terms of Reference a) and e) with GCRP		Closed
71	WG22	RW	Chair and Workgroup members to discuss withdrawing WACGMs due to modification split		Closed
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	Open
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
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	Open
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	Open

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76	WG23	RW/AH	Updated Legal Text to be shared on the collaboration space and shared with members who don't have access.	WG24	Open
77	WG23	ALL	Review updated Legal Text.	WG24	Open

Attendees

Name	Initial	Company	Role
Ren Walker	RW	NESO (Code Administrator)	Chair
Andrew Hemus	AH	NESO (Code Administrator)	Tec Sec
Bieshoy Awad	BA	NESO	Proposer
Afshin Pashaei	AP	National Grid	Workgroup member
Gary Camplejohn	GC	Harmony Energy	Workgroup member alternate
Harry Burns	HB	EDF Renewables	Observer
John Fradley	JF	NESO	Observer
Julie Richmond	JR	Scottish Power	Workgroup member alternate
Martin Aten	MA	Uniper Energy	Workgroup member alternate
Mike Kay	MK	P2 Analysis	Observer
Nicola B Negra	NBN	Orsted	Workgroup member
Owen Curran	OC	Siemens	Workgroup member
Paul Youngman	PY	Drax	Workgroup member
Sigrd Bolik	SB	Siemens	Observer
Stuart McLarnon	SM	NESO	Workgroup member alternate
Tim Ellingham	TE	RWE	Workgroup member