

# GC0155 Clarification of Fault Ride Through Technical Requirements

**12 September 2023**

**Online Meeting via Teams**

# WELCOME





## Expectations of a Workgroup Member

Contribute to the discussion

Be respectful of each other's opinions

Language and Conduct to be consistent with the values of equality and diversity

Do not share commercially sensitive information

Be prepared - Review Papers and Reports ahead of meetings

Complete actions in a timely manner

Keep to agreed scope

## Your Roles

Help refine/develop the solution(s)

Bring forward alternatives as early as possible

Vote on whether or not to proceed with requests for Alternatives

Vote on whether the solution(s) better facilitate the Code Objectives

## Members / Alternates & Observers

Role	Name	Representing
Chair	Milly Lewis	Code Administrator (ESO)
Technical Secretary	Teri Puddefoot	Code Administrator (ESO)
Proposer	Terry Baldwin	NGESO
Workgroup Member	Alan Mason	Oceanwinds
Workgroup Member	Alan Creighton	Northern Powergrid
Workgroup Member	Alastair Frew	Drax Power Station
Workgroup Member	Andrew Vaudin	EDF
Workgroup Member	Bieshoj Awad	NGESO
Observer	David Griffiths	RWE Generation UK, RWE Renewables
Observer	Fiona Williams	NGESO
Workgroup Member	Forooz Ghassemi	NGET
Workgroup Member	Frank Martin	Siemens
Workgroup Member	Fraser Norris	SSE
Workgroup Member	Garth Graham	SSE Generation
Workgroup Member	Isaac Gutierrez	Scottish Power
Workgroup Member	John Fradley	ESO
Observer	Mike Kay	Independent
Workgroup Member	Nicola Barberis Negra	Orsted
Observer	Owen Curran	Siemens
Workgroup Member	Priyanka Mohapatra	Scottish Power
Workgroup Member	Ryan Tumilty	SSE
Workgroup Member	Sean Gauton	Uniper Energy
Workgroup Member	Tim Ellingham	RWE Generation UK, RWE Renewables
Workgroup Member (Alternate)	Julie Richmond	Scottish Power
Workgroup Member (Alternate)	Martin Aten	Uniper
Workgroup Member (Alternate)	Sridhar Sahukari	Orsted
Workgroup Member (Alternate)	Tobias Siepker	Siemens
Authority Representative	Shilen Shah	Ofgem



# **Actions Log and Timeline**

**Milly Lewis –ESO Code Administrator**

# Actions

Action number	Workgroup Raised	Owner	Action	Due by	Status
29	WG7	BA	To have a conversation offline on understand GEP parameters.	WG8	Open – Workgroup to consider the following actions <ul style="list-style-type: none"> <li>the requirements will be defined at the HV side of the transformer. The User will probably need to take into consideration the transformer parameters as if it would be owned by them when working out what the impact is on individual turbines. The same would apply for radial 33kV circuits if these are owned by the TO. Draft text probably covers this point now.</li> <li>add TOV curves for voltage levels below 132kV</li> </ul>
39	WG8	BA	Discuss CC.6.1.11 with TOs and manufactures and feedback to WG with strawman	WG9	Open
44	WG10	TB	Query with ESO if this is STC or GC issue	WG11	Propose to close - <a href="#">2.2.6.1 of section D of the STC</a> that obligates the TOs to comply with the Grid Code section 6.1.
45	WG10	Ofgem	Check with Legal if CRM should be put in place if applying retrospectively	WG11	Open - linked to the outcome of action 47
46	WG11	BA	BA to share most up to date legal text	WG12	Propose to close – legal text included in Meeting Papers
47	WG11	Ofgem	Come back with feedback on action 43 (re: view on overvoltage)	Early August 2023	Open – conversations are on going at Ofgem, anticipating that there will be a request for further information from the Proposer's

# Objectives Timeline

Milestone	Date	Milestone	Date
Proposal Presented to Panel	16 December 2021	Workgroup Consultation (15 Working Days)	25 October 2023 – 15 November 2023
Workgroup 1 – Understand / discuss proposal and solution, note the scope and identify any possible alternative solutions, agree timeline and review terms of reference, agree next steps.	10 February 2022	Workgroup 14 – Post Workgroup Consultation) – Review / assess Workgroup consultation responses and Workgroup Report	13 December 2023
Workgroup 2 – Refresher: review and agree timeline and Terms of Reference, Review/Develop solution(s) and legal text, identify/assess possible alternatives.	07 June 2022	Workgroup 15 - Review Workgroup Report and legal text	12 January 2024
Workgroup 3 – Develop Solution(s), review of legal text and alternatives	05 July 2022	Workgroup 16 - Finalise solution(s) and legal text, agree that Terms of Reference have been met, Review Workgroup Report and hold Workgroup Vote	31 January 2024
Workgroup 4 – ESO to present plan and next steps re Definition of Overvoltage Requirements following a Fault, agree on the proposed plan	25 July 2022	Workgroup Report issued to Panel	14 February 2024
Workgroup 5 – Review / assess on-going work on Overvoltage requirements	23 August 2022	Panel sign off that Workgroup Report has met its Terms of Reference	22 February 2024
Workgroup 6 – Review / assess ongoing work on Overvoltage requirements; consider HVRT findings	07 September 2022	Code Administrator Consultation	27 February 2024 – 27 March 2024
Workgroup 7 – Review of ESO findings, look through of draft legal text, consideration of alternatives	19 January 2023	Draft Final Modification Report (DFMR) issued to Panel	17 April 2024
Workgroup 8 - Review draft legal text and any ESO updates,	5 April 2023	Panel undertake DFMR recommendation vote	25 April 2024
Workgroup 9 – Complete review of draft legal text and any ESO updates, consideration of alternatives	4 May 2023	Final Modification Report issued to Panel to check votes recorded correctly (5 working days)	29 April 2024 – 06 May 2024
Workgroup 10 – Finalise draft legal text for WAGCM1, draft consultation overview	8 June 2023	Final Modification Report issued to Ofgem	07 May 2024
Workgroup 11 – Review actions and complete alternate vote	25 July 2023	Ofgem decision	TBC
Workgroup 12 – Review Draft legal text for all solutions	19 September 2023	Implementation Date	10 working days after Ofgem decision
Workgroup 13 - Full review of draft Workgroup Consultation	18 October 2023		



# **Legal Text Review**

## **Milly Lewis**





## **Any Other Business**

**Milly Lewis –ESO Code Administrator**



## Next Steps

Milly Lewis –ESO Code Administrator