EREC P28 DNO Workgroup

MINUTES

Meeting – Monday 27th February 2023, 10:00 – 12:00

MS Teams Meeting

ATTENDEES	INITIAL	COMPANY
Chris McCann	CMc	ENA
Peter Twomey	PT	ENWL
Simon Scarbro	SS	NGED
Forooz Ghassemi	FG	NGET
Joseph Weston	JW	NPg
Milana Plecas	MP	SPEN
Rula Sha	RS	SSE
Zivanayi Musanhi	ZM	UKPN
Saad Khan	SK	GTC

APOLOGIES

Mark Friese	MF	SPEN

MEETING NOTES AND ACTIONS		LEAD
Agenda item 1.	**Welcome and acceptance of agenda**	**CMc**
Members were welcomed to the meeting, previous minutes were reviewed and agreed alongside the meeting agenda.		
Actions	None	
Agenda item 2.	**Nominations for chair**	**CMc**
The workgroup discussed the role of chair, it was proposed to invite Gary Eastwood (GE) to join the group and act as WG chair during the development of any proposed changes. CMc will invite GE to join any future meetings going forward.		
Action 2.1	Invite GE to join future meetings **03/03/23**	CMc
Agenda item 3.	**P28 Scope Discussions**	**All**

The workgroup discussed a number of areas covered in EREC P28 and discussed the scope of works set out in the terms of reference document. It was agreed that an engineering report to provide guidance in the application of P28 would be beneficial to the user, as well as the possibility of minor consequential changes to EREC P28 as required. Threepwood will be approached to draft this document.

The report should include clarity on the 3% step voltage figure and its relation to under/overvoltage settings in EREC G99 and clarify the 10% figure in the DCode.

Flicker

SS led the group through slides covering graphs which set put the power levels observed during the operation of BESS equipment connected to an 11kV system. FG questioned if flicker had been observed in any connected lamps, which SS confirmed. ZM then confirmed this had also been confirmed as part of a separate UKPN study. It was proposed that these visual effected be recorded.

When connecting BESS to the networks the DNOs do not do the Flicker assessments, leaving this to Customers to complete and submit.

Rapid voltage change (RVC)

The group discussed RVC in EREC P28 and considered a change to table 4 in the document labelling G99 transformer re-energisation as a category 3 (Very infrequent). This is due to settings in EREC G99 relating to undervoltage, meaning tripping is likely to occur far less often. This has been recorded and will be considered as part of any consequential changes to EREC P28.

Additional legal will be considered to set out the 10% figure stated in the Distribution Code (4.3.2.2) relates to RVC and not allowable step voltage change.

The group considered that a current proposal to extend maximum undervoltage from the current -6% to a revised -10% may result in an increase in tripping.

Role of P28 in network planning

The group discussed the role of P28 in network planning, it was appreciated that P28 provided guidance o the effects observed on the network from the Point of Common Coupling (PCC), and not network design, however how the networks are designed has effects on the PCC. Transformer step change and frequency fluctuations was discussed briefly, steps on grid transformers can take place over minutes and the group agreed data from NGESO on this subject would benefit any future discussions, SS will contact NGESO for data on frequency recordings. <u>Dynamic Response</u> The group talked through the implications of developers that may want to provide both arbitrage and dynamic response services. Members proposed that it might be beneficial to invite NGESO to join any future discussions, CMc to follow up.		
Action 2.2	Engage with NGESO for data on system frequency data **10/03/23**	SS
Action 2.3	Invite a NGESO rep to join the workgroup **10/03/23**	CMc
Agenda item 4.	**Amendments to ToR**	**CMc**
Comments received since the previous meeting were incorporated into a revised copy. The WG reviewed the scope items and agreed the following points, Removal of reference to EN 50610 as this is sets out the characteristics on the network and not a direct relation to EREC P28. CMc to issue a revised version of the ToR.		
Actions	None	
Agenda item 5.	**Next Steps/Timeline**	**CMc**
The next step will be to invite GE to join the meetings, approach GE to become WG chair. Continue to compile comments and text for consideration.		
Actions	None	
Agenda item 6.	**AOB**	**CMc**
None raised.		
Actions	None	
Agenda item 7.	**Next meeting**	**CMc**
Members agreed to hold a follow up meeting 23rd March 2023. Invites to be circulated after the meeting.		
Actions	None	

ACTIONS LIST

1.1	Propose nominations for workgroup chair **24/02/23**	ALL
1.4	Provide feedback on scope of EREC P28 **22/02/23 –** ✓	ALL
2.1	Invite GE to join future meetings **03/03/23 –** ✓	CMc
2.2	Engage with NGESO for data on system frequency data **10/03/23 –** ✓	SS
2.3	Invite a NGESO rep to join the workgroup **10/03/23**	CMc