

Customer Islanding Workgroup

MINUTES

Meeting – Monday 11 December 2023

MS Teams Meeting

ATTENDEES

Name	Initials	Company
Andy Hood	AH	NGED
Mike Kay	MK	ENA
Peter Twomey	PT	Electricity North West
Alan Creighton	AMC	Northern Powergrid
Jason Kirrage	JK	Solaredge
Martin Cotterall	MC	Tesla
David Hill	DH	NIE
Chris Marsland	CM	Bingham Hart

APOLOGIES

Name	Initials	Company
Steve Mockford	SJM	GTC
Alastair Oldfield	AO	SPEN

MEETING NOTES AND ACTIONS

LEAD

Agenda item		Welcome and acceptance of agenda	MK
Members were welcomed to the meeting, and the agenda was agreed.			
Actions	None		
Agenda item		Review of previous actions	MK
Minutes approved and all previous actions complete or on the agenda.			
Actions	None		
Agenda item		Section 8 (Earthing) Diagrams	MK
<p>Figures 8.7 to 8.14 were reviewed in detail. It was agreed that:</p> <ul style="list-style-type: none"> The four operating modes would be given a number and that the mode number would be referred to in all diagrams to make it clearer which diagram referred to which mode. All three phase diagrams would be drawn to show all phases. The notes would all be made to have consistent wording (and to reflect the mode.) The style for customer's load etc would be standardized on that of 8.13. The titles of the figures would be shown above the diagrams, or at least, above the notes. Neutral/neutral and Neutral earth contactors would be labelled. Add a diagram for long term paralleling at LV without islanding. Fig 8.8 – all to comment on whether to retain delta generator, or change to unearthed star. Figs 8.12 and 8.13 should be clearly labelled as being for domestic installations. Note (2) in Fig 8.9 could be removed as this was covered by the new Fig 8.11. Fig 8.10 – consider rotating the three “winding” symbol 90° to the left. Also all to consider if the neutral/neutral contactor is required. Fig 8.11 – draw the inverter as a square as per 8.12. Fig 8.12 – remove the meter within the Customer's Islanding Controller (new name for Backup Interface). Fig 8.13 – amend as 8.12. Fig 8.14 – replace changeover switch with a CB with a timer. 			
Actions	<p>Consider if neutral/neutral contractor in 8.10 is required, and if delta should be changed to star in 8.8.</p> <p>22/12/2024</p> <p>MK to update diagrams and recirculate.</p> <p>12/01/2024</p> <p>All to review/check etc by next meeting.</p> <p>22/01/2024</p>		<p>ALL</p> <p>MK</p> <p>All</p>

Agenda item	Synchronizing	MK
<p>The meeting discussed the inclusion of details for synchronizing, noting that these were intended to be helpful to the process of type testing power generating units for islanding capability. However it was noted that there was nothing special about synchronizing after island operation compared to synchronizing on generation start up. The proposed requirements might be a new, and possibly, onerous requirement for manufacturers and developers, and WG members requested adequate time to raise the implications with their own stakeholders.</p> <p>In discussion it was thought that the proposed synchronizing criteria were probably not onerous, but this was to be reviewed by WG members and revisited following stakeholder feedback. WG members to consider if the suggested criteria are appropriate; separately and subsequently the 12/02/24 meeting would need to determine if it was appropriate to include these criteria in G99.</p>		
<p>Actions</p>	<p>Consider the proposed criteria for successful synchronization. 22/01/2024</p> <p>Consult with stakeholders and feedback. 12/02/2024</p>	<p>ALL</p> <p>CM/ALL</p>
Agenda item	Fault Ride Through	MK
<p>This issue had been raised by a DNO in terms of the effect on the system of customers choosing to disconnect from the network during a disturbance and supply themselves from their own generation/storage. This could be undesirable, by adding further disturbance to the system with the sudden cessation of their active power exchange.</p> <p>It was noted that the RfG requires generation to ride through voltage disturbances. A possible G99 drafting was considered. MK explained that the RfG applied to the PGM and did not actually make provisions for the behaviour of the power generating facility. G99 was not drafted to specifically recognized this difference. The accommodation of customers wishing to disconnect from the grid to protect their processes was considered in the draft 9.6.2.9. WG members agreed that it was necessary to consult their stakeholders on the underlying needs, and compliance aspects.</p>		
<p>Actions</p>	<p>WG members to consult with their stakeholders. 12/02/2024</p>	<p>ALL</p>

Agenda item		Drafting points	MK
		<p>AH raised an issue in 7.5.3 in relation to phase balance. AH noted that the existing 16A limit was probably far too restrictive for practical requirements, and it should be revised. As this is not strictly a point related to customer islanding, MK would feed this into the ENA process for G99 updates – although he expected it could be addressed in the same timescale.</p> <p>AMC had provided a number of minor and editorial points which MK will pick up in the next iteration.</p> <p>MK to check that <16A generating units appropriately covered in G99 (as they will not be in scope of G98)</p>	
Actions		<p>Raise AH point on 7.5.3 with ENA & DNOs.</p> <p>04/01/2024</p>	MK
		<p>Confirm <16A treatment within G99.</p> <p>12/01/2024</p>	MK
		<p>Produce revised draft text.</p> <p>12/01/2023</p>	MK
Agenda item		AOB	MK
		None	
Actions		None	
Agenda item		Next Meeting	MK
		<p>It was agreed that the next meeting for reviewing the figures and the text in general would be reviewed at a 22/01/24 meeting, and that the two issues requiring more stakeholder consultation (synchronizing and fault ride through) would be discussed at a meeting on 12/02/2024.</p>	
Actions		<p>Send invitations.</p> <p>11/12/23</p>	MK