

NOTES

ENA Electricity Networks and Futures Group DER TECHNICAL FORUM

26 FEBRUARY 2020, 1030 START

Attendees in Person:

Name	Initial	Company
Mark Dunk	MD	ENA
Andy Hood	AH	WPD
Hui Heng	HH	SSEN
Anuj Chhettri	AC	Northern Powergrid
Mike Kay	MK	ENA
Luis Mayor	LM	PSE2 Consulting
Sue Pilcher	SP	SPEN
Tim Moore	TMr	UKPN
Chris Marsland	CM	EuroSite Power
Alan Guiver	AG	Agren
Alistair Shearer	AS	BU UK
Sarah Carter	SC	Ricardo
Tony Mason	TMn	Siemens
Peter Rees	PR	Siemens
Richard Harrison	RH	Clarke Energy
Neil Rodgers	NR	Clarke Energy
Ian Wassman	IW	IPU
Peter Twomey	PT	ENW
Scott Briance	SB	Man Rollo

Attendees by teleconference:

Name	Initial	Company
Gillian Williamson	GW	ENW
Ian Nicoll (late morning)	IN	Qmulus Ltd

Apologies:

Name	Initial	Company
Tony Robinson	TR	TVR Instruments

ACTIONS LIST

No.	Detail	Leader	Date	Complete
1	Publish previous minutes etc	MD	06/03	
2.1 & 2.2	Issue 93 and 94. Text from Grid code to be picked up in next G99 mod. Confirm these are on the future mods list.	SC	26/02	✓
2.3	Type C & D reactive capability Grid Code reference to be reviewed – LM to contact MK/SC	LM MK/SC	06/03 21/04	
2.4a	Discuss with NG and draft and circulate a proposal for test requirements for power with falling frequency	MK	20/03	
2.4b	DNOs to capture their position in respect of operation without a complete FON	DNOs	21/04	
2.5	All to take up inconsistencies in G99 appliance or specific G100 issues with appropriate representatives of this forum as necessary	ALL	ongoing	
2.5	DNOs to document their requirements for ANM and constraint communication and control protocols.	DNOs	06/03	
2.5	AH to review the 5s requirements in G100 with a view to a more flexible interpretation	AH	06/03	
3.1	MK/Siemens to continue to work with NG to propose a modification to G99.	MK/ TMn/ PR	21/04	
Previous outstanding actions				
1	Engage with EN50549 part 10 drafting re testing of families	ENA	01/11	
2	Arrange for exemplar examples of completed forms following the database entry review	MD	April 20	
3	Review G99 compliance forms in light of experience later (H2) next year.	All	2020	
4	Investigate the industry appetite for Equipment Certification.	CM/AG	26/02/20	

NOTES

Item	Focus	Leader	Date
1.	Previous minutes and TOR	MD	06/03/20

	The previous minutes were approved. Approved minutes and slides for the meeting to be published on the ENA Website.		
2.	Review of recent Tech Forum Queries Reference should be made to the DER Technical Forum Record of Issues log and the slide pack used during the meeting – “200226 ENA DER Tech Forum 200225 1256.pptx”.		
2.1	New issue 1 (issue 93) Drafting omission in respect of falling frequency – Gas turbines – text from Grid code to be picked up. This is on the list of future mods for G99.		Next G99
2.2	New issue 2 (issue 94). Minimum generation – clarification on the list of future mods for G99		Next G99
2.3	New issue 3. (issue 95). LM to send Grid Code reference in respect to reactive capability at limits for Type C/D PGMs. MK/SC to review	LM MK/SC	06/03/20 21/04/20
2.4	New issue 4. a) Test requirements for output power with falling frequency – MK to discuss with NG and propose and circulate a practical solution (include consideration of frequency withstand applicability). Review what should be tested / how this can be tested / how compliance should be demonstrated / what should be in the PGDM. Meeting agreed that a Good practice guide / exemplar for PGMD completion would be helpful – this is also on the DNO EU Code SG agenda. (also see previous actions #5) b) Meeting noted that to have IONs at Type B and C level could impose unnecessary stage gates and may not always be desirable (position for stakeholders during drafting). DNOs to capture their position in respect of operation without a complete FON (note G99 6.2.4.4 and items 19 and 50 of this forum log)	MK DNOs	20/03/20 21/04/20
2.5	Clarke Energy Commissioning Issues Inconsistency in approach to G99 compliance by individual DNOs and within DNOs was discussed. It was agreed that the developer/ generator will approach the individual DNO representatives of this forum if they see future inconsistencies. Discussion on ANM protocol – DNOs have different approaches, but additional information could be provided – DNOs to document their requirements for ANM and constraint communication and control protocols. G100 – 5 second timing issue which is difficult for GTs and results in tripping. Meeting noted that there may be a better solution than G100 in some situations. AH to consider flexibility in respect of 5s delay. Developers to discuss specific issues with individual DNO representatives of this forum.	ALL DNOs AH	Ongoing 06/03/20 06/03/20
3	Review of previous Tech Forum Queries		
3.1	Annex C.6 Measurement of FRT and dynamic system recording - Siemens slides.		

	<p>Observed that changes to table C.6.1 need to align with NG (who are part of this discussion). It was noted that a separate column may be needed for accuracy of measurement range as well as the column for measurement range.</p> <p>Consideration should be given to where the devices are being connected and whether this should be defined in G99 (reactive power at connection point could be different to PGM terminals, G99 refers to PGF not PGM).</p> <p>It was noted that the aim is to have compliant products on the ENA type test database</p> <p>MK/Siemens to continue to work with NG to propose a modification to G99.</p>	MK/ TMn/ PR	21/04/20
4	<p>Gas Engine issues</p> <p>AG confirmed that the cost of site testing is currently seen as prohibitive.</p>		
5	<p>ENA Database / Compliance and Equipment Certificates</p> <p>MD gave a short résumé of progress and the work WSP are undertaking for the ENA.</p>		
6	<p>G99 updates</p> <p>G99 amendment 6 has been approved and will be effective from 09/03/20.</p>		
7	<p>Next meeting:</p> <p>Tuesday 21 April 2020</p> <p>4 More London Riverside, London, SE1 2AU</p> <p>Note 10 :00 start</p>		