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Code Administrator Meeting Summary

Meeting name: **GC0168 Submission of Electro Magnetic Transient (EMT) Models (Workgroup 2)**

Date: : 28/10/2024

Contact Details

Chair: Sarah Williams (ESO) sarah.williams@uk.nationalenergyso.com

Proposer: Frank Kasibante (ESO) frank.kasibante1@uk.nationalenergyso.com

Key areas of discussion

Action Review

The Chair shared details of outstanding actions with Workgroup members and along with the Proposer identified what could be closed as completed. All actions from 1-8 were completed.

Legal Text Review

The Proposer shared a table showing all sections of legal text to be discussed and any updates that were made since Workgroup 1. These were discussed as follows:

PC.A.9.2.2

Workgroup members discussed the use of the wording “true and accurate” with many members questioning this term's relevance. NESO are to take this away and consider the wording. **Action 9**

The Workgroup discussed the use of guidance notes and whether they were useful or an added complication. Members noted that adding that detail into the Grid Code would be more beneficial than having a guidance note. The Proposer advised that it would be beneficial to follow Grid Code practice to codify high level requirements as much as possible instead of making the text too prescriptive.

A Workgroup member suggested capturing the guidance note as a separate appendix to the Grid Code which was received favourably by the Workgroup. The Proposer advised they would take this point away and see if they could find a compromise. **Action 10**

A member questioned why “control system” was specifically called out as their understanding was that it is already covered by modification, another member advised they had the same thoughts. A third member questioned the wording “transient studies,” and what kind of transient studies were being referred to, and whether these needed. A NESO representative noted that where necessary, such details would be provided for in the guidance document to be defined.

During discussion on the table presented, a member asked where OFTO’s system were covered, the Proposer responded advising this would be covered by the STC modification. A NESO representative later suggested that something should be added to the table for offshore Transmission System Development User Works (OTSDUW) and this could be looked at internally after the meeting. **Action 11**

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A member questioned that in the table a generalisation was made by adding STATCOMs and whether this was adding confusion. A NESO representative responded advising it would be difficult to add all examples in the table but would consider amending the text to avoid creating confusion.

A member noted that the term LEEMPs” was not bound by the Grid Code and it might be an idea to add in brackets “data to be provided by the Network.” The Proposer agreed. **Action 12**

PC.A.9.2.2.1

During the previous Workgroup and further engagement with a generator, it was agreed that for GC Code Users, the timeline for the provision of electromagnetic transient models (EMT) would be within 9 months. This was confirmed during the session. It was also agreed that the phrase “unless otherwise agreed” would be added to the wording so both sections PC.A.9.2.2.1(1 & 2) were aligned.

PC.A.9.2.2

The Proposer asked members if they had any thoughts on the cost recovery arrangements, as Grid Code Panel had suggested GC0168 Workgroup have a discussion on the best way forward for the CUSC to consider. A member questioned if during discussions anything had been put in place, the Proposer advised this would be considered under the CUSC modification.

The following sections were updated after the last Workgroup, the Proposer shared the details with members, no further changes were required:

PC.A.5.3.2 C & D
 PC.A.5.4.2 B & G
 PC.A.5.4.3.2 A & B
 PC.A.6.1.3
 PC.A.6.1.4
 PC.A.6.7.1
 PC.A.9.7.7

PC.A.9.7.3

It was noted by a member that the paragraph had duplications within the text, this was to be taken away and reworded by the Proposer. **Action 13**

PC.A.9.7.4

A member asked for timescales to be shown within the paragraph for clarity. Another member noted maybe something could be added here or in the compliance guidance to avoid confusion.

Action 14

Workgroup Consultation Discussion

It was agreed by the Workgroup that as there were a number of actions still to be addressed, discussions on the Workgroup Report would be postponed until the next Workgroup on 11 November 2024.

Timeline

The Chair shared the timeline and members were asked if they thought the solution and legal text would be ready for Workgroup Consultation on 15 November 2024. This would be after the next Workgroup on 11 November 2024 where all action would be completed. Members agreed they were happy with the suggested dates.

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Next Steps

Proposer to share updated legal text with Workgroup members.

Actions

For the full action log, click [here](#).

ID	Description	Owner	Due	Status	Date
1	Section PCA922 rewording needed on legal text SB to share thoughts on what the rewording could look like	FK and SB	28/10/2024	Complete	28/10/2024
2	PCA922 – where model data is not available. Assumptions being made. The proposer agreed to take this point away and discuss internally.	Proposer	28/10/2024	Complete	28/10/2024
3	PCA542 section G and PCA532 section C to be amended if September deadline is no longer relevant. Proposer to consider	Proposer	28/10/2024	Complete	28/10/2024
4	Offline discussion between TJ and IG in relation to section PCA922 offline assets.	Proposer	28/10/2024	Complete	28/10/2024
5	Internal discussion to be had around the 3-month timeline (PCA973) and if it is applicable or not.	Proposer	28/10/2024	Complete	28/10/2024
6	Proposer to share full list of technology types that will be required to provide EMR models (previous list was incomplete).	Proposer	28/10/2024	Complete	28/10/2024
7	Additional ToR to be added and presented at October Grid Code Panel for approval	Chair	28/10/2024	Complete	28/10/2024
8	Contact Equipment Manufacturers to join as Workgroup members	Chair	28/10/2024	Complete	28/10/2024
9	PC.A.9.2.2. Questions raised by WG members regarding the wording “true and accurate”, NESO are to take this away and consider revising the words.	Proposer	11/11/2024	Open	28/10/2024
10	Proposer to discuss internally whether adding further guidance notes as an annex will be a consideration.	Proposer	11/11/2024	Open	28/10/2024
11	Consider adding OTSDUW to the table to be considered internally by NESO.	Proposer	11/11/2024	Open	28/10/2024
12	Add “data to be provided by the Network” in Baskets for LEEMPS.	Proposer	11/11/2024	Open	28/10/2024

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13	PC.A.9.7.3 To be reworded for clarity	Proposer	11/11/2024	Open	28/10/2024
14	PC.A.9.7.4 timeline to be added	Proposer	11/11/2024	Open	28/10/2024

Attendees

Name	Initial	Company	Role
Sarah Williams	SW	NESO Code Governance	Chair
Deborah Spencer	DS	NESO Code Governance	Technical Secretary
Frank Kasibante	FK	NESO	Proposer
Dr Isaac Gutierrez	IG	Scottish Power Renewables	Workgroup Member
Srinivas Edla	AE	SSEN Transmission	Workgroup Member
Ross Strachan	RS	EDF Renewables	Workgroup Member
Graeme Vincent	GV	SP Energy Networks	Workgroup Member
Akshay Prajapati	AP	Orsted Power UK	Workgroup Member
Ranjan Sharma	RS	Siemens Gamesa Renewables	Workgroup Member
Ben Marshall	BM	SSE	Observer
Antony Johnson	AJ	NESO	Observer
Shangen Tian	ST	SSE	Observer
Mike Kay	MK	P2 Analysis	Observer
Maryam Begum	MB	Cummins Inc	Observer
Arsalan Zaidi	AZ	Ofgem	Authority Representative