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STC Alternative and Workgroup Vote

CM097: Electromagnetic Transient (EMT) and Root Mean Square (RMS) Model Submission for Transmission Owners (TOs)

Please note: To participate in any votes, Workgroup members need to have attended at least 50% of meetings.

Stage 1 – Alternative Vote

If Workgroup Alternative Requests have been made, vote on whether they should become Alternative STC Modifications.

Stage 2 – Workgroup Vote

2a) Assess the Original solution and Alternative STC Modifications (if there are any) against the STC objectives compared to the baseline (the current STC).

2b) If Alternative STC Modifications exist, vote on whether each Alternative STC Modification better facilitates the Applicable STC Objectives better than the Original Modification Proposal.

2c) Vote on which of the options is best.

Terms used in this document

Term	Meaning
Baseline	The current STC (if voting for the Baseline, you believe no modification should be made)
Original	The solution which was firstly proposed by the Proposer of the modification

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Alternative STC Modification	An Alternative Solution which has been developed by the Workgroup
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For reference the Applicable STC Objectives are:

- a) *efficient discharge of the obligations imposed upon Transmission Licensees by Transmission Licences and the Electricity Act 1989;*
- b) *efficient discharge of the obligations imposed upon the licensee by the Electricity System Operator licence, the Energy Act 2023 and Electricity Act 1989;*
- c) *development, maintenance, and operation of an efficient, economical, and coordinated system of electricity transmission;*
- d) *facilitating effective competition in the generation and supply of electricity, and (so far as consistent therewith) facilitating such competition in the distribution of electricity;*
- e) *protection of the security and quality of supply and safe operation of the National Electricity Transmission System insofar as it relates to interactions between Transmission Licensees and the licensee*;*
- f) *promotion of good industry practice and efficiency in the implementation and administration of the arrangements described in the STC;*
- g) *facilitation of access to the National Electricity Transmission System for generation not yet connected to the National Electricity Transmission System or Distribution System; and*
- h) *compliance with the Electricity Regulation and any Relevant Legally Binding Decisions of the European Commission and/or the Agency.*

* See Electricity System Operator Licence

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Workgroup Vote

Stage 1 – Alternative Vote

Vote on Workgroup Alternative Requests to become Alternative STC Modifications.

The Alternative vote is carried out to identify the level of Workgroup support there is for any potential alternative options that have been brought forward by either any member of the Workgroup OR an Industry Participant as part of the Workgroup Consultation.

Should the majority of the Workgroup OR the Chair believe that the potential alternative solution would better facilitate the STC objectives (against Baseline or the Proposer's modification) then the potential alternative will be fully developed by the Workgroup with legal text to form Alternative STC Modifications and submitted to the Panel and Authority alongside the Proposer's Modification for the Panel Recommendation vote and the Authority decision.

"Y" = Yes

"N" = No

"-" = Neutral (Stage 2 only)

"Abstain"

No Alternative Requests were submitted to the Workgroup for their vote.

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Stage 2a – Assessment against objectives

To assess the Original and Alternative STC Modifications against the STC objectives compared to the baseline (the current STC).

You will also be asked to provide a statement to be added to the Workgroup Report alongside your vote to assist the reader in understanding the rationale for your vote.

ASO = Applicable STC Objective

Workgroup Member	Better facilitates ASO (a)	Better facilitates ASO (b)	Better facilitates ASO (c)	Better facilitates ASO (d)	Better facilitates ASO (e)	Better facilitates ASO (f)	Better facilitates ASO (g)	Better facilitates ASO (h)	Overall (Y/N)
Frank Kasibante – NESO									
Original	-	Y	Y	-	Y	-	Y	-	Y
Voting Statement: EMT and RMS models for Transmission Owner assets with Power Electronic Devices, will facilitate system analysis and enable NESO to securely operate the evolving and future system with anticipated high penetration of IBR resources. This will enable NESO to a) analyse the interactions between different Plant, b) analyse the impact of potential new connections to the system. This will identify any modifications and / or control measures required to operate the system and c) enable achievement of an efficient, economical and coordinated National Electricity Transmission system.									

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Workgroup Member	Better facilitates ASO (a)	Better facilitates ASO (b)	Better facilitates ASO (c)	Better facilitates ASO (d)	Better facilitates ASO (e)	Better facilitates ASO (f)	Better facilitates ASO (g)	Better facilitates ASO (h)	Overall (Y/N)
Graeme Vincent – SP Energy Networks									
Original	-	Y	-	-	Y	-	-	-	Y
<p>Voting Statement:</p> <p>By ensuring that both NESO and the TOs have access to the appropriate RMT and EMS models will ensure that the transmission system continues to be developed and operated in a secure, efficient, economical and coordinated manner.</p>									

Workgroup Member	Better facilitates ASO (a)	Better facilitates ASO (b)	Better facilitates ASO (c)	Better facilitates ASO (d)	Better facilitates ASO (e)	Better facilitates ASO (f)	Better facilitates ASO (g)	Better facilitates ASO (h)	Overall (Y/N)
Joel Matthews – Diamond Transmission UK									
Original	Y	-	Y	-	Y	Y	-	-	Y
<p>Voting Statement:</p> <p>Whilst concerns around cost recovery remains, the Original will provide more certainty in the study outcomes which will benefit NESO in meeting its legal obligations and improving system security.</p>									

Workgroup Member	Better facilitates ASO (a)	Better facilitates ASO (b)	Better facilitates ASO (c)	Better facilitates ASO (d)	Better facilitates ASO (e)	Better facilitates ASO (f)	Better facilitates ASO (g)	Better facilitates ASO (h)	Overall (Y/N)
Roger Carter – Transmission Investment									
Original	Y	Y	Y	-	Y	-	-	-	Y
<p>Voting Statement:</p>									

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Supportive of the overall objective of the modification as it will enhance the ability to model the system effectively and support greater low carbon technologies onto the system. An alternative proposal was raised and was able to be withdrawn through refinement of the original proposal and proposed additional STCP. However, the outstanding point regarding cost recovery for meeting the new modelling obligations remains to be addressed, noting that the Income Adjusting Event mechanism in the OFTO licence is not an appropriate way of recovering multiple, significant cumulative cost events.

Workgroup Member	Better facilitates ASO (a)	Better facilitates ASO (b)	Better facilitates ASO (c)	Better facilitates ASO (d)	Better facilitates ASO (e)	Better facilitates ASO (f)	Better facilitates ASO (g)	Better facilitates ASO (h)	Overall (Y/N)
Srinivas Edla – SSEN									
Original	Y	Y	Y	-	Y	Y	-	-	Y

Voting Statement:

We support CM097 on the basis that mandating the submission of EMT and RMS models by the TO will improve the consistency and completeness of system modelling. The introduction of clear EMT and RMS model requirements, including for retrospective submissions, will improve model quality and confidence in their use. Making these models available within the wider GB system will enhance system analysis, investigation, and future planning, thereby supporting the safe, secure, and reliable operation of the transmission system.

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Of the 5 votes, 5 said the Original was better than the Baseline.

Option	Number of voters that voted this option as better than the Baseline
Original	5

Stage 2b – Alternative STC Modification Vote (if required)

N/A – no Alternative Request Workgroup Vote was carried out.

Stage 2c – Workgroup Vote

Which option is the best? (Baseline, Original Proposal)

Workgroup Member	Company	Industry Sector	BEST Option?	Which objective(s) does the change better facilitate? (if baseline not applicable)
Frank Kasibante	NESO	System Operator	Original	b, c, e, g
Graeme Vincent	SP Energy Networks	Network Operator and Offshore Transmission	Original	b, e
Joel Matthews	Diamond Transmission UK	Offshore Transmission Licensee	Original	a, c, e, f

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Roger Carter	Transmission Investment	Offshore Transmission Licensee	Original	a, b, c, e
Srinivas Edla	SSEN	Onshore Transmission Licensee	Original	a, b, c, e, f