Massachusetts Technical Standards Review Group (TSRG) Regular Meeting Dec. 8, 2020 Meeting Minutes

1) Attendance: The meeting was an on-line conference. The following is a list of identified attendees. Additional attendees were present via telephone, but not identified

Adam Houghton	Andrew Schwartz	Andy Houghton	B Jacob
Brian Ritzinger - DPU	Courtney Feeley Karp	Dan Passarello	David Laplante
Doug Denny-Brown	Doup Pope	Fritz Octave	Gerry Bingham
Ghebre Daniel - DPU	Greg Hunt	Jay Fundling – Eversource Rep.	Jeannie Amber
Jenna Warmuth	Jinjin Huang	John Bonazoli – Chair/ Unitil Rep.	M French
M W Bowen	Matt Holstein	Michael Wall	Mike Brigandi - Vice Chair / Solar Rep.
Mike Coddington – Gov. Rep.	Mike Porcaro – National Grid Rep.	Mrinmayee Kale	Mrunmayee Gujar
Nancy Israel	Paul Krell	Rahul Pantagada	Samer Arafa
Sanae Matsuki	Sara Parkison	Scott Secrest	Sean Diamond
Shakir Iqbal – Eversource Rep.	Steven Rymsha	Tony Morreale – CHP Rep.	T Willet
Will Lauwers	William LeBlanc		

2) Nominations of Officers:

- All EDC representatives will remain as present
- Tony Morreale will remain representative for CHP
- Mike Coddington will remain as Government/Customer agency representative
- Mrinmayee Kale (MK) was nominated and accepted the nomination as the solar representative and Vice Chair
- John Bonazoli was nominated and accepted nomination as Chair

3) University of Delaware EV project

- Matthew Holstein of University of Delaware presented on interconnection of Electric Vehicles (EV's). Specifically AC/AC interconnection where the inverter resides in the EV.
- EV's for use in demand response programs.
- Bidirectional charging is critical for this dynamic to work
- Integration of AC/DC inverters to be included in the actual car for less expensive charging capabilities

- SAE J3072 will be the relevant listing checks the boxes of UL1741 but is based on more of a self-certification
- Charging stations could prevent backfeeding
- A comms handshake could be used between the station and the car to ensure the vehicle has the correct SAE certification
- No reference to the IEEE 1547.1
- ISO 17025 standards for OEM applicable? It is the standard that ensures test procedures followed by NRTLs.

4) National Grid PV facilities Update

Can Distribution inverters provide Voltage support to transmission?

- 1) The Ferranti effect Transmission lines underloaded, voltage rise observed, distribution companies will need to
- 2) Separation between distribution and transmission system blurring with higher DER penetration.
- 3) VAR support has been monetized in Ireland and UK
- 4) The paper from EPRI and National Grid is free for everybody

5) IEEE 1547 subcommittee update

- 1) New Lead for 2021: Samer Arafa
- 2) Communications discussions kicked off in November
- 3) Voltage regulation was also addressed
- 4) Phase 1 items Bulk system support to be completed in Q1
 - a) Frequency droop in final draft stages
 - b) Voltage/Frequency trip settings
 - c) Category selection

6) Analysis Screen discussion

- EDCs presented Simplified process technical screens in the past and would like to meet with the small PV system developers and get feedback.
 - Tesla would like to weigh in on the technical screens for expedited projects.
 Concerned about establishing a size threshold instead of being evaluated on the technical merits.
- Mike Coddington: Is it possible to add a screen to incorporate the feeder hosting capacity.
- All EDCs now have hosting capacity maps
- Is there some merit at this point to putting an upper limit for inverter based projects qualifying as expedited projects Where applications larger than the limit would automatically go through Standard process?
- A proposal will be presented by the EDCs on the expedited technical screening process.

7) Potential Future Topics

Presentations from modeling software owners - Synergi, CYME and PSCAD

- Standards for dynamic models?
- Real experiences with dynamic issues on distribution grid
- 8) Next Meeting: Thursday Feb 18th 2021