

**Massachusetts Technical Standards Review Group (TSRG)**

**Meeting Minutes**

**Date: Nov. 8, 2019**

**Time: 9:00 AM**

**Location: National Grid – 939 Southbridge St. Worcester**

**Conf info – (877) 298-8255 ID 1737374**

**1) Introduction**

a. In room

- i. John Bonazoli - Unitil
- ii. Shay Banton – Borrego Solar
- iii. Mrinmayee Kale – Borrego Solar
- iv. Mike Brigandi – Borrego Solar
- v. Alvina Mehreen – National Grid
- vi. Will Kern - National Grid
- vii. Martin Bowen – Eversource
- viii. Devon MarcAurele Eversource
- ix. Mathew Kromer Fraunhofer
- x. Dave Forrest – ISO-NE
- xi. Tony Morreale – LIG consultants
- xii. John Ward - Solar Store of Greenfield
- xiii. Ali Elseddik – National Grid
- xiv. Mike Porcaro – National Grid
- xv. Samer Arafa – National Grid
- xvi. Jeremy Kites – Unitil
- xvii. Tara Reisner – National Grid
- xviii. Mike Coddington - NREL
- xix. Jeannie Amber – Eversource
- xx. Shakir Iqbal – Eversource
- xxi. Jay Fundling - Eversource
- xxii. Adam Houghton – Control Point
- xxiii. Gerry Bingham – MA DOER
- xxiv. Ghebre Danial – MA DOER
- xxv. Brian Ritzinger – DPU

b. On Phone

- i. Noah Gonzales – Nexamp
- ii. Brett Jacobson – Eversource
- iii. Janise Abuhene - Nexamp
- iv. Nancy Israel – National Grid
- v. Brian Lydic – IREC
- vi. Johnathan Salsman – Industria Engineering

**Review of 2019**

- Cost Estimates with greater granularity regarding Labor vs Material vs Overhead were presented by Eversource.
- Smart Metering methodologies were presented by utilities.

- Hosting Capacity mapping discussions
  - Advantages and disadvantages were discussed
  - All utilities are in the process of developing these
- Two subcommittees were created
  - IEEE1547 subcommittee was formed the final decisions were made on the following two sections of the new standard.
    - Enter service criteria
      - Point of applicability
    - Energy Storage Systems (ESS) subcommittee
      - A form was created, detailing information required in an application with energy storage
      - This subcommittee will continue, as needed, to discuss analysis and technical benefits and challenges of Energy Storage

**Potential Topics for 2020 that were identified by attendees of the meeting.**

- 19-55 is an open docket that will likely be handing some specific work to the TSRG which will likely need to be prioritized.
- Transient Over Voltage (TOV) concerns and development of analysis guidelines.
- Flicker and Power quality requirements
- Operational parameters of ESS

**Nominations for Chair and Vice Chair**

- Mike Brigandi was re-elected as vice chare and will continue as Solar rep for TSRG for 2020
- John Bonazoli was re-elected as chair and will continue as Unitil rep for TSRG for 2020

**DPU 19-55 update**

- Brian Ritzinger gave a brief update on the work that has been done by both the DPU as well as the industry stakeholders related to the open 19-55 docket.
- Feedback was given that the experience thus far by different stakeholders was highly collaborative and productive.
- TSRG may be prescribed some work from this docket

### **AC and DC Couple metering update**

- Vishall Ahirrao from National Grid reviewed their new standard for AC coupled storage which now includes the ability to install dedicated ESS and PV meters on National Grid sanctioned pad mounted switching modules behind the customer's line of demarcation.
  - There is no option to put all three in one switchgear
  - Eversource did not have metering representation, so will present their requirements at a future meeting.

### **Voltage Flicker analysis discussion**

- Shay Banton from Borrego gave a substantive presentation on the collaboration in NY between utilities and DG stakeholders to modernize the flicker and power quality screens and requirements in NY.
- GE flicker curve is now obsolete

### **Anti-Islanding Analysis**

- EPRI Utilities are working on a new SANDIA report that supports the use of Inverter Anti-islanding protections along with upstream voltage blocking
- Decisions are being made regarding whether new screens should be deterministic or probabilistic
- The report will indicate the effect smart inverter functionalities will have on anti-islanding functionality
- Discussion was had around the benefit of reclose blocking

### **IEEE 1547 subcommittee Update**

- The group accepted the defaults for enter service criteria
- Jeanie will be developing a document that summarizes work that has been done and agreements/decisions that have been made.

### **National Grid PV facilities Update**

- Samer Arafa presented on update on the National Grid PV facilities
- 2 papers published for this study

### **Next TSRG meeting:**

Feb. 11, 2020