

Minutes

Essential Reliability Services Working Group

November 8, 2016 | 12:00 p.m. – 5:00 p.m. Eastern Time

November 9, 2016 | 8:00 a.m. – 12:00 p.m. Eastern Time

Meeting Location:

SCE&G Sand Dunes Club

[1735 Atlantic Ave](#)

[Sullivan's Island, SC 29482](#)

Remote Participation:

Web: <https://www.readytalk.com/?ac=5494366> | Access: 5494366 | Security: 161108

Phone: 1-866-740-1260 | Access: 5494366 | Security: 161108

SCEG On-site Contact: Troy Blalock, 803-206-8984

NERC On-site Contact: Pooja Shah, 404-710-0502

NERC Antitrust Compliance Guidelines and Public Announcement

Agenda Items

November 8, 2016

- 1. Lunch – Provided**
- 2. Co-chairs' remarks** – Todd Lucas, Brian Evans-Mongeon – Brian provided update to the group on activities since last meeting in September. The group has received comments from OC and PC. Additionally, at the November NERC MRC meeting they conducted a panel on DERs. The group included Mark Ahlstrom, Brian Evans-Mongeon, Todd Lucas, Lorenzo Kristov, and Rich Hydzik. The feedback from the MRC included further steps on DERs, and jurisdictional discussion on DERs related to functionality of a DP/DSO.
- 3. DERTF Report Development Update** – Mark Ahlstrom and Dave Canter + All
 - a. Address the comments from ERS, DER, PC and OC Groups – The group reviewed all aggregated comments and provided input on addressing them.

November 9, 2016 (Continental Breakfast)

- 1. ERSWG Report Development Update** – Mark Ahlstrom and Dave Canter + All
 - a. Address the comments from ERS, DER, PC and OC Groups – The group reviewed all aggregated comments and provided input on addressing them.
- 2. CAISO – Solar Plant testing of Essential Services** – Clyde Loutan – Clyde presented on CAISO's test of 300 MW solar plant and their capability in providing essential reliability services. The testing proved the plant's capability of providing these services similar to conventional plants with

impressive accuracy, speed, and range of response from the plant, and to even provide reactive support at night if the inverters remain energized from line power. Question was asked of the cost of the additional capability, and it's about 1% of development cost.

- 3. GE Presentation – Nick Miller** – Nick presented on diversification of fast frequency response as studied by GE, ERCOT, and NERC. They conducted a simulation for WECC system three parts: Inertia, primary frequency response, and fast frequency response. The focus of fast frequency response is to improve and delay the frequency nadir, and Nick showed how the value of fast frequency response depends on its timing and could potentially be tuned to the particular system.
- 4. Hydro Quebec Smart Load Presentation – Francis Monette** – Francis provided an update on HQ's pilot on smart loads, mainly home water heaters. HQ has installed thyristors to allow modulation of load when needed. These resources are called upon to provide primary response. More of these resources will be deployed in future. Currently they are connected via Wi-Fi, eventually a more secure connection will be used for them.
- 5. Next Meeting**
 - a. December 14-15, 2016 – Ritz-Carlton Buckhead, Atlanta – Meeting planned for both days as scheduled.
- 6. Close Meeting**

Attendees: In Person – Pooja Shah, Paul Turner, Sasoon Assaturian, Clyde Loutan, Rich Hydzik, Hassan Hamdar, Nick Miller, Jason MacDowell, Rodney O'Bryant, Troy Blalock, Todd Lucas, Brian Evans-Mongeon, Dave Canter, Mark Ahlstrom, Sylvester Toe, Tom Siegrist, Tony Jankowski, James Fletcher, Barry Mather, Jagan Mandavilli, John Simonelli, Andrew Clarke, Thomas Coleman, Bob Cummings, Layne Brown, Julia Matevosyan

Phone: Jack Cashin, Lee Pedowicz, John Hughes, Joe Mulhern, Elliott Nethercutt, Corinne Kehayef, Jens Boemer, Lorenzo Kristov, Gary Keenan, Maya Prica