



**DRAFT MINUTES**  
**PJM Interconnection**  
**Demand Response Subcommittee (DRS)**  
**March 20, 2014**

**9:30 am – 3:30pm (EPT) PJM, In-Person, Webex, conference call**

**Members in Attendance:**

Langbein, Peter (Chair)	PJM Interconnection, LLC	Not Applicable
Rutigliano, Tom	Achieving Equilibrium LLC	Other Supplier
Baran, Eric	Allegheny Electric Cooperative, Inc	Electric Distributor
Bloom, David	Baltimore Gas and Electric Company	Transmission Owner
Gilkey, Rick	Customized Energy Solutions, Ltd.*	Not Applicable
Johnson, Carl	Customized Energy Solutions, Ltd.*	Not Applicable
Pach, Darcy	Duke Energy Kentucky, Inc.	Transmission Owner
Kravets, Damian	Duquesne Light Company	Transmission Owner
Campbell, Bruce	EnergyConnect, Inc.	Other Supplier
Guerry, Katie	EnerNOC, Inc.	Other Supplier
Baxter, Ian	Enerwise Global Technologies, Inc.	Other Supplier
Lacey, Frank	Enerwise Global Technologies, Inc.	Other Supplier
Miyaji, Wendell	Enerwise Global Technologies, Inc.	Other Supplier
Fitch, Neal	GenOn Energy Management, LLC	Generation Owner
Fuess, James	PBF Power Marketing LLC	Generation Owner
Brodbeck, John	Potomac Electric Power Company	Electric Distributor
Yeaton, Andrea (Secretary)	PJM Interconnection, LLC	Not Applicable

**Also in Attendance:**

Pratzon, David	GT Power Group	Not Applicable
Marzewski, Skyler	Monitoring Analytics, LLC	Not Applicable
Anders, Dave	PJM Interconnection	Not Applicable
Esterly, Terri	PJM Interconnection	Not Applicable
McAnany, James	PJM Interconnection	Not Applicable
Shparber, Steven	PJM Interconnection	Not Applicable
Covino, Susan	PJM Interconnection, LLC	Not Applicable
Horowitz, Shira	PJM Interconnection, LLC	Not Applicable

**Via Web Ex / Teleconference:**

Teamann, Cindy	Allegheny Power	Transmission Owner
McAlister, Lisa	American Municipal Power, Inc.	Electric Distributor
Norton, Chris	American Municipal Power, Inc.	Electric Distributor
Cox, Edward P	Appalachian Power Company	Transmission Owner
Weinstein, Michael	Appalachian Power Company	Transmission Owner
McDaniel, John	Baltimore Gas and Electric Company	Transmission Owner



Urbin, Greg	Baltimore Gas and Electric Company	Transmission Owner
Kopon, Owen	Brickfield, Burchette, Ritts & Stone, P.C	Not Applicable
Xenopoulos, Damon	Brickfield, Burchette, Ritts & Stone, P.C.	Not Applicable
Miller, John	Commonwealth Edison Company	Transmission Owner
Bergeron, Peter	Constellation New Energy, Inc	
Caster, Andrew	Constellation NewEnergy, Inc.	Other Supplier
Filomena, Guy	Customized Energy Solutions, Ltd.*	Not Applicable
Trott, Jed	Customized Energy Solutions, Ltd.*	WINDOWS,Firefox
Hemmert, John	Dayton Power & Light Company (The)	Transmission Owner
Maucher, Andrea	Delaware (State of) Division of the Public Advocate	End User Customer
Farber, John	Delaware Public Service Commission	Not Applicable
Nowell, Cynthia	Delmarva Power & Light Company	Electric Distributor
White, Barbara	Demand Response Software	Not Applicable
Mariam, Yohannes	District of Columbia Office of the Peoples Counsel	End User Customer
Edwards, Todd	Dominion Virginia Power	Not Applicable
Lacy, Catharine	Dominion Virginia Power	Not Applicable
Wilmoth, Emily	Dominion Virginia Power	Not Applicable
Mok, Alan	Duke Energy Kentucky, Inc.	Transmission Owner
Peoples, John	Duquesne Light Company	Transmission Owner
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Witt, Sally	East Kentucky Power Cooperative, Inc.	Transmission Owner
Ainspan, Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Cummings, Bridgid	EnergyConnect, Inc.	Other Supplier
Gockley, Beatrice	EnergyConnect, Inc.	Other Supplier
Perez, Lisa	EnergyConnect, Inc.	Other Supplier
Desmarais, Michael	EnerNOC, Inc.	Other Supplier
Patel, Nupur	EnerNOC, Inc.	Other Supplier
Poulos, Greg	EnerNOC, Inc.	Other Supplier
Stadelmeyer, Rebecca	Exelon Business Services Company, LLC	Transmission Owner
Caruthers, Anna	FirstEnergy Corporation	Transmission Owner
Voytek, Margie	FirstEnergy Corporation	Transmission Owner
Bolan, Martin	FirstEnergy Solutions Corporation	Transmission Owner
Marton, David	FirstEnergy Solutions Corporation	Transmission Owner
Borgatti, Michael	Gable and Associates	Not Applicable
Polakowski, Ray	Hess Corporation	Other Supplier
Webster, John	Icetek.com, Inc.	Other Supplier
Bowser, Joseph	McNees Wallace & Nurick LLC	Not Applicable
Wehr, Christopher	Metropolitan Edison Company	Transmission Owner
Marzewski, Skyler	Monitoring Analytics LLC	Not Applicable
Chen, Xu	Monitoring Analytics, LLC	Not Applicable
Harvey, Colby	Negawatt Business Solutions, Inc.	Other Supplier
Bass, Sammuell	NetPeak Energy Group LLC	Other Supplier
Gantzer, Tom	NetPeak Energy Group LLC	Other Supplier
Thomas, Kyle	NetPeak Energy Group LLC	Other Supplier
Mahoney, Julieanne	New York State Electric & Gas Corporation	Other Supplier
Maye, Shelly-Ann	North America Power Partners, LLC	Other Supplier
Musilek, Jim	North Carolina Electric Membership Corporation	Electric Distributor
Holdbrook, Ruth	Northern Virginia Electric Cooperative	Electric Distributor
Nguyen, John	Northern Virginia Electric Cooperative	Electric Distributor



Korczykowski, Ryan	Nuenergen LLC	Other Supplier
Alston, Rick	Old Dominion Electric Cooperative	Electric Distributor
Carmean, Gregory	Organization of PJM States, Inc.	Not Applicable
Carangi, Mark	Other	Not Applicable
Manion, Evelyn	PJM Interconnection, LLC	Not Applicable
O'Neill, Jack	PJM Interconnection, LLC	Not Applicable
DeNavas, Joe	Potomac Electric Power Company	Electric Distributor
Greening, Michele	PPL EnergyPlus, L.L.C.	Transmission Owner
Carretta, Kenneth	PSEG Energy Resources and Trade LLC	Transmission Owner
Citrolo, John	PSEG Energy Resources and Trade LLC	Transmission Owner
Schmatz, Peter	PSEG Energy Resources and Trade LLC	Transmission Owner
Sock, Bryan	PSEG Energy Resources and Trade LLC	Transmission Owner
Prendergast, Michael	Public Service Electric & Gas Company	Transmission Owner
Heizer, Fred	Public Utilities Commission of Ohio	Not Applicable
Jostworth, Kimberly	RBC Energy Services LP	Other Supplier
Burnham, Steve	RBC Energy Services, L.P.	Other Supplier
Hoatson, Tom	Riverside Generating, LLC	Other Supplier
Sudhakara, Raghu	Rockland Electric Company	Transmission Owner
Trevino, Rita	Siemens Industry, Inc.	Other Supplier
Murphy, Kelly	Steffes Corporation	Not Applicable
Zeller, Austin	Steffes Corporation	Not Applicable
Scoglietti, Barbara	Tangent Energy Solutions, Inc	Other Supplier
Hendrix, Chris	Texas Retail Energy, LLC	Other Supplier
Hewett, Christopher	Virginia Electric & Power Company	Transmission Owner
Horstmann, Andrew	Wabash Valley Power Association, Inc.	Electric Distributor
Birnel, Bill	Westar Energy, Inc.	Other Supplier

**1. ADMINISTRATION**

1. There were no additions or corrections to the 2/21/14 minutes
2. There were no additional agenda items.
3. Brief update/discussion of DR related activity in other stakeholder groups
  - i. PJM provided a brief update on DR related items (items at MIC, MRC and OC).

**2. DR EXISTING MW PROPOSED CHANGE**

The DRS members were asked to endorse the proposed Manual changes that would allow a CSP to add additional MWs as "existing" through an exception process if the nominated amount on the registration is low because the PLC is low due to a load data anomaly. There was no opposition in the room and one opposed on the phone. This item will be presented at the April MIC for first read.

**3. ANNUAL DR MAINTENANCE OUTAGE REPORTING PROCESS**

Key issues were reviewed and discussed. A clarification was made that if a resource is already down, the CSP should report the expected reduction as zero in the CSP Expected Reduction spreadsheet (Shortage Pricing). The maintenance outage is used for a resource that can't reduce load if called upon. Various components were discussed



such as limiting the number of outages, how long outages could be (percentage availability or a number of days) and who at PJM would approve. Next step is to start putting solutions into matrix and then begin to assemble packages.

#### **4. RESIDENTIAL DEMAND RESPONSE PARTICIPATION IN THE PJM SYNCHRONIZED RESERVE MARKET**

The Issue Statement/Charge was briefly discussed. Comverge presented information on their pilot which took a sample of their customers and replaced their house meters with one-minute meters and then controlled the air conditioner with a signal to turn off the compressor. They were able to look at the 1 minute data for the sample to determine the impact and then extrapolate the impact to the population. Comverge indicated the sample represented close to 90/20 for the population. The stakeholders agreed that some form of dynamic sample should be explored as viable solution for the problem. The next steps are for Comverge to provide more data and a detailed presentation of their solution.

#### **5. PREVIEW DEMAND RESPONSE RESIDENTIAL CAPACITY AND ENERGY MEASUREMENT AND VERIFICATION ISSUE STATEMENT**

PJM presented an issue about the need to analyze the current way residential capacity and energy are measured. Technology has been evolving, energy usage has gone down for air conditioners and efficiency has gone up even as the residential participation in DR is growing. This issue will seek a solution that is not dependent on any particular technology and is more accurate and consistent. Some members indicated they were in favor of pursuing this issue. The issue statement will be presented at the April MIC for endorsement, to be followed in May with the issue charge endorsement. Education on this will be presented at the next DRS.

#### **6. EMERGENCY ENERGY SETTLEMENTS FOR NON-MANDATORY EVENTS**

1. Emergency Energy settlements deadlines were discussed. Also members had requested that PJM get the late January settlements processed in time for the March bill that is sent in April. PJM agreed to let the DRS know by March 28<sup>th</sup> if all January emergency events would be in the March bill.
2. Lessons learned were discussed for emergency events in January and the associated energy settlements. One key issue was the use of economic CBL registration process to use economic CBL instead of hour before CBL and how to support load reductions from a voluntary event. A problem statement will be created to review how to determine energy reduction during an emergency event.

#### **7. DR OPERATIONAL ENHANCEMENTS FILING AND ADMINISTRATIVE PROCESS UPDATE**

1. PJM provided an update on DR Operational enhancement filing at FERC and reviewed potential Load Management capacity compliance measurement and verification tariff changes that would be filed if PJM is ordered to adopt such changes by FERC. PJM reviewed key operational changes proposed to go into effect in 2014/2015 Delivery Year including: designating DR capacity resources and therefore events into two group (Pre-Emergency vs Emergency), implementing optional 30 minute lead time and modifying the price cap and making the price cap vary based on lead time (shorter the lead time the higher the price cap).
2. PJM reviewed implementation details regarding DR operational enhancements including expected eLRS changes. The sandbox implementation is targeted for April 22<sup>nd</sup> and production will be early May. CSPs will have enough time to make any changes to current registrations, and will not have to create any new registrations because of the enhancements.

#### **8. FUTURE AGENDA ITEMS**



A request was made to discuss implementing rule changes for RPM Replacement Capacity.

*NOTE: After the meeting, the CSTF Chairperson indicated this will be discussed at the CSTF at an April meeting.*

**9. FUTURE MEETING DATES**

Wednesday	5/16/2014	9:30 am – 4:00 pm	Valley Forge, PA, PJM CTC
Tuesday	6/24/2014	9:30 am – 4:00 pm	Valley Forge, PA, PJM CTC
Wednesday	7/30/2014	9:30 am – 4:00 pm	Valley Forge, PA, PJM CTC
Monday,	8/25/2014	9:30 am – 4:00 pm	Valley Forge, PA, PJM CTC
Thursday	9/25/2014	9:30 am – 4:00 pm	Valley Forge, PA, PJM CTC
Wednesday	10/22/2014	9:30 am – 4:00 pm	Valley Forge, PA, PJM CTC
Wednesday	11/19/2014	9:30 am – 4:00 pm	Valley Forge, PA, PJM CTC
Wednesday	12/10/2014	9:30 am – 4:00 pm	Valley Forge, PA, PJM CTC