



**MINUTES**  
**PJM Interconnection**  
**Demand Response Subcommittee (DRS)**  
**July 12, 2013**  
**9:30pm – 4:00pm (EPT) Webex, conference call**

**Members Present:**

Langbein, Peter (Chair)	PJM Interconnection, LLC	Not Applicable
Bloom, David	Baltimore Gas and Electric Company	Transmission Owner
Mancuso, Maria	Baltimore Gas and Electric Company	Transmission Owner
Hagaman, Derek	Calpine Bethlehem, LLC	Transmission Owner
Kerecman, Joseph	Calpine Energy Services, L.P.	Not Applicable
Gilkey, Rick	Customized Energy Solutions	Other Supplier
Flaherty, Dale	Duquesne Light Company	Transmission Owner
Campbell, Bruce	EnergyConnect, Inc.	Other Supplier
Guerry, Katie	EnerNOC, Inc.	Other Supplier
Griffiths, Daniel	Enerwise Global Technologies, Inc.	Other Supplier
Stadmeyer, Rebecca	Exelon Business Services Company, LLC	Transmission Owner
Suh, Jung	Noble Americas Energy Solutions LLC	Other Supplier
Scoglietti, Barbara	Tangent Energy Solutions, Inc.	Other Supplier
Yeaton, Andrea (Secretary)	PJM Interconnection	Not Applicable

**Also in Attendance:**

Mabry, David	McNees Wallace & Nurick LLC	Not Applicable
Garris, Kathryn	Not Disclosed	Not Applicable
Horowitz, Shira	PJM Interconnection	Not Applicable

**Attendees via Teleconference / WebEx:**

Feliks, Kent	American Electric Power	Transmission Owner
McAlister, Lisa	American Municipal Power, Inc.	Electric Distributor
Norton, Chris	American Municipal Power, Inc.	Electric Distributor
Ondayko, Brock	Appalachain Power Company (AEP)	Transmission Owner
McDaniel, John	Baltimore Gas and Electric Company	Transmission Owner
Bassett, Jeffrey	BP Energy Company	Other Supplier
Kopon, Owen	Brickfield, Burchett, Ritts, and Stone, PC	Not Applicable
Xenopoulos, Damon	Brickfield, Burchett, Ritts, and Stone, PC	Not Applicable
Burns, Wil	Burns Law Firm	Not Applicable
Miller, John	Commonwealth Edison Company	Transmission Owner
Gilani, Rehan	Consolidated Edison Energy, Inc.	Other Supplier
Price, Dann	Constellation NewEnergy, Inc.	Other Supplier
Filomena, Guy	Customized Energy Solutions, Ltd.*	Not Applicable
McDonald, Steve	Customized Energy Solutions, Ltd.*	Not Applicable
Schofield, William	Customized Energy Solutions, Ltd.*	Not Applicable
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
Hemmert, John	Dayton Power & Light Company (The) (EDC)	Transmission Owner
Farber, John	Delaware Public Service Commission	Not Applicable
Maucher, Andrea	Delaware Public Service Commission	Not Applicable
Nowell, Cynthia	Delmarva Power & Light Company (DE SOS Trans.)	Electric Distributor
Price, Ruth	Division of the Public Advocate - State of Delaware	End Use Customer

Wilmoth, Emily	Dominion Virginia Power	Not Applicable
White, Barbara	DR2 LLC	Not Applicable
Jennings, Ken	Duke Energy Business Services LLC	Transmission Owner
Sailers, Bruce	Duke Energy Carolinas, LLC	Other Supplier
Pach, Darcy	Duke Energy Kentucky, Inc.	Electric Distributor
Beasley, Ryan	EDP Renewables North America, LLC	Generation Owner
Ainspan, Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Basquez, Nicol	EnerNOC, Inc.	Other Supplier
Desmarais, Michael	EnerNOC, Inc.	Other Supplier
Endicott, Brendan	EnerNOC, Inc.	Other Supplier
Meier, Mariko	EnerNOC, Inc.	Other Supplier
Nie, David	EnerNOC, Inc.	Other Supplier
Poulos, Greg	EnerNOC, Inc.	Other Supplier
Bash, David	Enerwise Global Technologies, Inc.	Other Supplier
Warner, Robert	Enerwise Global Technologies, Inc.	Other Supplier
Barker, Jason	Exelon Business Services Company, LLC	Transmission Owner
Borgatti, Michael	Gable and Associates	Not Applicable
Moss, Skip	GDS Associates	Not Applicable
Richardson, Kelsey	Hess Corporation	Other Supplier
Hanson, Mark	Illinois Commerce Commission	Not Applicable
Frellich, Jessica	Integrays Energy Services, Inc. (BGS)	Other Supplier
Powers, Sean	Linde Energy Services, Inc.	End Use Customer
Wisersky, Megan	Madison Gas & Electric Co.	Other Supplier
Paslick, Marissa	Maryland Public Service Commission	Not Applicable
Freeman, Al	Michigan Public Service Commission	Not Applicable
Moss, James	Monitoring Analytics, LLC	Not Applicable
Dugan, Bill	Monitoring Analytics, LLC	Not Applicable
Gowrishankar, Vignesh	Natural Resources Defense Council	Not Applicable
Harvey, Colby	Negawatt Business Solutions, Inc.	Other Supplier
Ris, Monica	Negawatt Business Solutions, Inc.	Other Supplier
Ornelas, Jonathan	Noble Americas Energy Solutions, LLC	Other Supplier
Maye, Shelly-Ann	North America Power Partners, LLC	Other Supplier
Musilek, James	North Carolina Electric Membership Corporation	Electric Distributor
Nguyen, John	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Korczykowski, Ryan	NuEnergy, LLC	Other Supplier
Mariam, Yohannes	Office of the Peoples Counsel - District of Columbia	Not Applicable
Alston, Rick	Old Dominion Electric Cooperative	Electric Distributor
Stein, Edward	Pennsylvania Electric Company	Transmission Owner
Manion, Evelyn	PJM Interconnection	Not Applicable
O'Neill, Jack	PJM Interconnection	Not Applicable
Walter, Laura	PJM Interconnection	Not Applicable
DeNavas, Joe	Potomac Electric Power Company	Electric Distributor
Greening, Michele	PPL Energy Plus, LLC	Transmission Owner
Carretta, Kenneth	PSEG Energy Resources and Trade	Transmission Owner
Citrolo, John	PSEG Energy Resources and Trade	Transmission Owner
Schmatz, Peter	PSEG Energy Resources and Trade, LLC	Transmission Owner
Prendergast, Michael	Public Service Electric & Gas Company	Transmission Owner
Hoatson, Tom	Riverside Generating, LLC	Other Supplier
Sudhakara, Raghu	Rockland Electric Company (CIEP Load)	Transmission Owner
Trevino, Rita	Siemens Industry, Inc.	Other Supplier
Hewett, Christopher	Virginia Electric and Power Company	Transmission Owner
Wolfe, Samuel	Viridity Energy, Inc.	Other Supplier
Horstman, Andrew	Wabash Valley Power Association, Inc.	Other Supplier

## 1. ADMINISTRATION (15 MIN)

- a. There were no comments on the minutes for the 6/4/13 meeting or 6/17/13 webex meeting.
- b. The following future DRS meeting was established:
  - i. Tuesday, 10/22/2013 in person, PJM, Valley Forge PA (9:30 am – 4:00 pm)
- c. Brief update/discussion of DR related activity in other stakeholder groups:
  - i. CSTF – DR vs. Generation is being prioritized. An MRC issue charge is assigned to the CSTF to make DR more operational.
  - ii. MIC – A special meeting will be held on 7/23/13 on replacement capacity specific to DR.
  - iii. OC – Discussing Synchronized Reserve in general.

## 2. ECONOMIC DR NORMAL OPERATIONS ISSUE STATEMENT

PJM presented the first read of the Problem Statement/Charge to add clarifications and details of FERC Order 745 to the Manual. This Charge was based on stakeholder feedback. The work will go beyond onsite generation and will include examples and/or criteria. A vote on the issue statement will be conducted at the next meeting and the education phase will begin.

## 3. EFFICIENCY OF DR REGISTRATION PROCESS

PJM presented 3 solutions for Economic Registrations based on feedback from prior meeting. They were discussed in detail and an additon was made to 2B line 6 to add wording that the CSP must re-select an LSE if the LSE is incorrect within a specified time. One member suggested an additional exclusion for 2B and 2C which would exempt residential Direct Load Control registrations from specifying the LSE. The addition was not clarified so it was not included in the proposed solutions. A straw poll was taken to determine which of the 3 proposals would move forward to the MIC. Enough interest was shown for each Economic Registration solution that all 3 solutions will presented at the next MIC. The MIC will determine which solution will move up. The Emergency Registration proposal (consensus gained in prior meeting) will also be presented to the MIC.

#### 4. MEASUREMENT AND VERIFICATION FOR VARIABLE DR ECONOMIC RESOURCES

PJM presented the final analysis for the Same Day (3+2) CBL with an update that that no events would be allowed during HE1, 2, 3, 23, 24 to ensure hours are available to calculate the CBL. A second CBL was presented - Match Day (3 day average) - that uses 3 non-event days from the last 45 days of data that have the most similar usage to non-event hours on event day. Analysis showed that a significant number of registrations in the test set would have an acceptable RRMSE if one of these 2 CBLs were used. There were no objections with moving the 2 CBLs to the MIC for endorsement.

#### LUNCH BREAK

#### 5. REVIEW DR PRODUCT SUBSTITUTION PROCESS

PJM reviewed the DR resource substitution process which takes effect in 14/15 DY with implementation of new DR product (Limited DR, Extended Summer DR, Annual DR). The CSP will have until midnight of the event day to submit a substitute registration to PJM. The substitute's strike price will be used and its reduction values will not be floored at zero as are normal emergency registrations. Based on stakeholder feedback, an issue statement will be created.

#### 6. DR AS A FLEXIBLE TIER2 SR RESOURCE

PJM reviewed Flexible Tier2 SR definition and process of gaining registration approval for Flexible Tier 2. The resource's daily designation as Inflexible is done through eMKT and the award notification will be through DNP or its successor. The CSP will be notified of the award at the effective time and the termination of the award is when the signal ends. If the CSP does not currently have Director, they must wait for its successor targeted for Nov. 2013. There is no difference between Flexible and Inflexible with respect to the All Call which remains the primary contact for SR events.

#### 7. PEAK LOAD CONTRIBUTION REVIEW (ASSIGNED BY CSTF)

PJM recapped the 6/17/13 DRS meeting where the key issue was Non-Retail Behind the Meter generation and the use of FSL vs. GLD. As a follow up, PJM clarified there are 3 rules for Non-Retail Behind the Meter generation – either the rules for Non-Retail Behind the Meter are followed, the resource is DR or the it's in front of the meter. The Interconnection process applies to the latter and PJM presented education on the Interconnection Queue timeline which focused on smaller generators under 20 MW. Deposits for each of the steps (Feasibility Study, Impact Study and Facilities Study) were reviewed.

Interest Identification for all 3 issues were presented based on prior meetings. Additional interests were proposed that will be incorporated.

Next steps include creating the solutions matrix and polling.

#### 8. ELRS UPDATES

PJM reviewed the statistics from this year's emergency registration window duplicates. The process went smoothly and resulted in 80% less time to resolve duplicates. The major enhancements in the next eLRS functional release were reviewed and CSPs were reminded that the release is in the Sandbox where they can test Electronic



Notification for emergency events. The target date for the production deployment is August 13. A tentative list of enhancements was reviewed for the 2<sup>nd</sup> Functional Release targeted for Nov/Dec.

#### 9. CSP UPDATE OF DR LOCATION DATA IN ELRS

PJM reminded CSPs that they may begin updating location data (Business Segments, Load Reductions and Generator Attributes) in eLRS as soon as the enhancements are in production, currently scheduled for Aug. 13. Any of these fields designated as "Other" will no longer be permitted. The updates should be completed by mid-September and are limited to those locations that are currently effective (i.e. attached to an effective registration). The enhancements are currently in the Sandbox for CSPs that wish to test their Web Services with respect to adding/modifying/consuming location data.

#### 10. MONTHLY DEMAND RESPONSE ACTIVITY REPORT REVIEW

PJM noted on slides 2 and 3 that the label 'Sites' will be replaced with 'Locations' to improve clarity going forward. Also, the "Unique" columns on these 2 slides denote the MW without double-counting locations that are associated with both an emergency and economic registration.

#### 11. FUTURE AGENDA ITEMS

None were put forward.

#### 12. FUTURE MEETING DATES

8/14/13	9:30 am – 3:30 pm	Valley Forge, PA, PJM CTC
9/16/13	9:30 am – 4:00 pm	Valley Forge, PA, PJM CTC
10/22/13	9:30 am – 4:00 pm	Valley Forge, PA, PJM CTC