

Demand Response Subcommittee  
PJM Conference and Training Center  
February 12, 2018  
9:30 a.m. – 12:15 p.m. EPT

## Administration

1. Welcome, Announcements and Anti-trust and Code of Conduct announcement
  - A. Roll was called – in-person only.
  - B. Prior minutes from the 1/12/2018 meeting were approved as final.
  - C. An additional agenda Item 7 was identified by the Training Department, and Item 8 by DR Ops.
  - D. Brief update/discussion of DR related activity in other stakeholder groups:
    - a. MIC –Market Seller Offer Cap Balancing Ratio issue - considering changes to the assumed number of Performance Assessment Hours (30) in the Non-Performance Charge Rate calculation
  - E. The next 2 DRS meeting will be shortened to half days – 9:30 to noon.

## DR CP and Base Non-Performance Assessments for the 2018/2019 Delivery Year

2. Mr. Pat Bruno, Capacity Market Operations, reviewed the plan to separate the CP and Base commitments into two separate RPM resources to align with product-specific registrations in DR Hub (this is consistent with process used in prior years). An example was presented of DR CP and Base Non-Performance Assessments for the upcoming 2018/2019 Delivery Year. The performance will go to the Capacity Performance registration first.

## DR CP Winter Peak Load Calculation

3. Mr. Jack O'Neill, PJM, presented examples using exclusion thresholds of 5% through 55% for end use sites of four different sizes ranging from very small to very large. Analysis used Kema data from 2009/2010 to examine different exclusion thresholds and size buckets and their impact on how many days would be excluded under the approach. Across all scenarios, 91% of the accounts would use all 5 days in the WPL calculation (i.e. would not exclude any days), and over 99% of accounts can be calculated if allowed two excludable days. The subcommittee will begin working through the solutions matrix at next meeting.

## Seasonal DR Aggregation Registration Rules

4. Ms. Andrea Yeaton, PJM, reviewed the timeline for this issue. The DRS expects to complete this issue by Nov 2018. Components discussed at last meeting were reviewed. Areas that would be impacted include the nominated capacity on the registration, aggregation rules, nominated capacity compliance and daily deficiency penalty and dispatch for load management events. Areas that would have no change include event compliance, testing, expected load reduction reporting, product substitution and maintenance outages. Next steps are to discuss packages.

## Load Management Report

- Mr. Jack O'Neill, PJM, reviewed the mid-year Load Management Report which included the Limited DR Product testing, as there have been no Load Management events. Overall Limited DR product test performance across all zones was 157% or 1,214 MW over-compliance. Individual test failures resulted in \$632K in penalties (0.12% of Load Management credits).

## Economic Market Activity in DR

- Ms. Masha Nyemko, PJM, followed up with question at prior DRS meeting regarding the sensitivity of Economic DR participation in the energy market based on energy prices. The charts presented do not show a clear relationship between amount of Economic DR in the energy market and energy prices.

## Mandatory Training for Load Management CSPs

- Mr. Mike Hoke, PJM, gave a follow up to the required training for CSP personnel that are involved in the administration of Load Management. The first step is for each CSP to identify their training liaison. PJM emailed all CSPs so they can respond to PJM with their training liaison. If any CSP did not receive it, please email [TrainingSupport@pjm.com](mailto:TrainingSupport@pjm.com). Until a new form is developed for training requests, check "Other" and put in a note that the request is for Load Management training.

## Residential DR Reminder

- Mr. James McAnany, PJM, reminded CSPs with Residential DR that the M&V Plan must be submitted before May 1<sup>st</sup> and must be approved by PJM before submitting the registration. There is also a Mandatory Annual Sample Recalibration that must be completed for those CSPs using sampling.

## Future Agenda Items

No future agenda items were identified.

## Future Meeting Dates

Tuesday	3/27/2018	9:30 am – 12:00 pm	PJM Conference & Training Center/ Webex
Wednesday	4/18/2018	9:30 am – 12:00 pm	PJM Conference & Training Center/ Webex
Monday	5/21/2018	9:30 am – 4:00 pm	PJM Conference & Training Center/ Webex
Friday	6/22/2018	9:30 am – 4:00 pm	PJM Conference & Training Center/ Webex
Monday	7/16/2018	9:30 am – 4:00 pm	PJM Conference & Training Center/ Webex
Thursday	8/30/2018	9:30 am – 4:00 pm	PJM Conference & Training Center/ Webex
Tuesday	9/25/2018	9:30 am – 4:00 pm	PJM Conference & Training Center/ Webex
Wednesday	10/24/2018	9:30 am – 4:00 pm	PJM Conference & Training Center/ Webex
Friday	11/16/2018	9:30 am – 4:00 pm	PJM Conference & Training Center/ Webex
Monday	12/10/2018	9:30 am – 4:00 pm	PJM Conference & Training Center/ Webex

## In Attendance

Langbein, Peter (Chair)	PJM Interconnection, LLC	Not Applicable
Yeaton, Andrea (Secretary)	PJM Interconnection, LLC	Not Applicable
Bruno, Patrick	PJM Interconnection, LLC	Not Applicable
Curley, Maureen	PJM Interconnection, LLC	Not Applicable
Foladare, Kenneth	Tangibl	Not Applicable
Fuess, Jay	Energy Consulting Services LLC	Other Supplier
Hendrzak, Chantal	PJM Interconnection, LLC	Not Applicable
Henry, Thomas	PJM Interconnection, LLC	Not Applicable
Hoke, Michael	PJM Interconnection, LLC	Not Applicable



# Draft Minutes

Long, Glenn  
 Marezewski, Skyler  
 O'Neill, O'Neill  
 McAnany, James  
 Scarpignato, David

PJM Interconnection, LLC  
 Monitoring Analytics, LLC  
 PJM Interconnection, LLC  
 PJM Interconnection, LLC  
 Calpine Energy Services, L.P.

Not Applicable  
 Not Applicable  
 Not Applicable  
 Not Applicable  
 Generation Owner

## In Attendance via WebEx / Teleconference

Ainspan, Malcolm  
 Alston, Rick  
 Anthony, Jason  
 Bhavaraju, Murty  
 Brown, David  
 Cornett, Stephanie  
 Cox, EdwardP  
 DeLosa, Joseph  
 Dolan, Ryan  
 Ehrichs, Lisa  
 Feldman, Brett  
 Feliks, Kent  
 Fiano, Anna  
 Filomena, Guy  
 Hoatson, Tom  
 Hyzinski, Tom  
 Jett, William  
 Johnson, Carl  
 Kimmel, David  
 Kinser, Cynthia  
 Kogut, George  
 Kolo, Elta  
 Mabry, David  
 Marton, David  
 Marzewski, Skyler  
 Matheson, Doug  
 McGuirk, Brian  
 Meridionale, Kevin  
 Midgley, Sharon  
 Miller, John  
 Norton, Chris  
 Ondayko, Brock  
 Peoples, John  
 Pisarcik, Dave  
 Polka, Joseph  
 Powers, Sean  
 Price, Dann  
 Ring, Eric  
 Rohrbach, John  
 Sasser, Jonathan  
 Schneider, Jonathan  
 Singer, Chad  
 Swalwell, Brad  
 Trevino, Rita  
 Wiegand-Jackson, Laurie  
 Wilmoth, Emily  
 Zephyr, Frantz

Energy Curtailment Specialists, Inc.  
 Old Dominion Electric Cooperative  
 KORenergy, Ltd.  
 PJM Interconnection, LLC  
 NJ Board of Public Utilities  
 East Kentucky Power Cooperative, Inc.  
 Appalachian Power Company  
 DE Public Service Commission  
 AEP Energy Partners, Inc.  
 Duke Energy Business Services LLC  
 Navigant Consulting, Inc.  
 Appalachian Power Company  
 KeyTex Energy, LLC  
 Customized Energy Solutions, Ltd.  
 Riverside Generating, LLC  
 GT Power Group  
 Duke Energy Business Services LLC  
 Customized Energy Solutions, Ltd.\*  
 PJM Interconnection, LLC  
 Tennessee Department of Agriculture  
 New York Power Authority  
 GTM  
 McNees Wallace & Nurick LLC  
 FirstEnergy Solutions Corp.  
 Monitoring Analytics, LLC  
 EnerNOC, Inc.  
 Direct Energy Business Marketing, LLC  
 Jersey Central Power & Light Company  
 Exelon Business Services Company, LLC  
 Commonwealth Edison Company  
 American Municipal Power, Inc.  
 Appalachain Power Company  
 Duquesne Light Company  
 Customized Energy Solutions, Ltd.\*  
 Duquesne Light Company  
 Linde Energy Services, Inc.  
 Constellation NewEnergy, Inc.  
 Enerwise Global Technologies, Inc.  
 Southern Maryland Electric Cooperative  
 Customized Energy Solutions, Ltd.\*  
 FirstEnergy Solutions Corp.  
 Fellon McCord  
 Tangent Energy Solutions, Inc.  
 Siemens Industry, Inc.  
 North America Power Partners LLC  
 Dominion Virginia Power  
 Public Service Electric & Gas Company

Other Supplier  
 Electric Distributor  
 Other Supplier  
 Not Applicable  
 Not Applicable  
 Transmission Owner  
 Transmission Owner  
 Not Applicable  
 Other Supplier  
 Generation Owner  
 Not Applicable  
 Not Applicable  
 Transmission Owner  
 Other Supplier  
 Not Applicable  
 Other Supplier  
 Not Applicable  
 Generation Owner  
 Not Applicable  
 Not Applicable  
 Not Applicable  
 Other Supplier  
 Not Applicable  
 Not Applicable  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Electric Distributor  
 Transmission Owner  
 Transmission Owner  
 Not Applicable  
 Transmission Owner  
 End User Customer  
 Other Supplier  
 Other Supplier  
 Electric Distributor  
 Not Applicable  
 Transmission Owner  
 Not Applicable  
 Other Supplier  
 Other Supplier  
 Other Supplier  
 Not Applicable  
 Transmission Owner

Author: Andrea Yeaton