

Demand Response Subcommittee  
PJM Conference and Training Center  
January 12, 2018  
9:30 a.m. – 12:00 p.m. EPT

## Administration

1. Welcome, Announcements and Anti-trust and Code of Conduct announcement
  - A. Roll was called in the room. Participants on the Webex were reminded that per Manual 34, they are to use their first and last names and company email address when signing in. Participants not following these guidelines will be removed from the Webex, but may log in again using the correct credentials.
  - B. Minutes from the 12/8/2017 meeting were approved without any changes.
  - C. Item 6 was added to the agenda.
  - D. Brief update/discussion of DR related activity in other stakeholder groups
    - a. MIC – Energy Efficiency was approved and will go to MRC for first read.
    - b. DER Subcommittee – ongoing and involves Demand Response that uses behind the meter generators or storage.
  - E. There will be Load Management registration training in-person and Webex today at 1:30 pm and also after the next DRS on 2/12/2018 at 1:30 pm.

## RPM Demand Resource modeling for CP and Base Capacity in the 2018/19 DY

2. Mr. Pat Bruno, Capacity Market Operations, led a discussion of the RPM Demand Resource modeling for the 18/19 Delivery Year. Although CP and Base Capacity commitments cleared together, they will be split into separate eRPM CP and Base DR Resources after the 3<sup>rd</sup> IA. This was done to be consistent with the current Delivery Year and in line with business rule that that each registration must be product specific (either Base or CP). **CSPs should not link their Base or CP registrations to RPM DR Resources until after the 3<sup>rd</sup> IA.** In addition, it was noted that load reductions from Base registrations dispatched outside the required availability period are aggregated with load reduction from dispatched CP registration to meet the resources CP commitment. PJM will review DR performance process for 18/19 DY at the next DRS meeting.

## DR CP Winter Peak Load Calculation

3. Mr. Jack O'Neill, PJM, presented examples to address the maintenance outage problem statement. Both an administrative and quantitative approach were reviewed. Each approach was based on excluding a limited amount of atypically low usage days from the WPL calculation for outages and, for the administrative option, the need to develop an added back process for event days. The administrative approach for outage exclusions would require an approval/denial process/system for CSPs to request exclusion of outage time periods from the WPL calculation. The administrative approach for event add backs would use the existing WPL calculation and apply add backs to scale the

load data when there is an event. This would require an add back process and a way for CSP with prospective customers to be able to determine addbacks (so they can calculate WPL which is key item that determines the customer's capacity nomination on a registration). The quantitative approach relies solely on meter data and excludes atypical low usage time periods, such as maintenance outages and load management events. These are determined by a usage threshold (similar to logic used in the economic CBL) under which if load is below, the day would be excluded. CSPs would be able to calculate WPLs without the need to contact PJM regarding outages or the need to obtain event add back data. Many stakeholders supported the quantitative approach but would need to figure out the appropriate usage threshold amount (existing economic CBL usage threshold is 25% but it was mentioned this is based on economic energy events which is significantly different that capacity nomination and therefore may need a higher threshold). DRS members asked PJM for additional information on the quantitative approach to help determine if an approach threshold can be determined. The IMM did express some concerns regarding the quantitative approach. PJM will bring additional analysis for stakeholders to consider at the next DRS.

## Seasonal DR Aggregation Registration Rules – Problem Statement and Issue Charge

- Ms. Katie Guerry, EnerNOC, reviewed the documentation presented at the MIC for this issue. The example showed a CSP's winter and summer nominated ICAP for a number of registrations under the current rules, and how winter capability is not recognized by PJM under the existing aggregation rules. The example showed that winter and summer capability aggregated at the resource level instead of the registration level may be a more effective way to account for the CP capability which is based on the minimum of summer and winter capability (less administration for everyone, more transparency, more flexible dispatch for PJM, recognition of all CSP winter capability). Interests were also collected from members.

## Monthly DR Activity Report

- Mr. James McAnany, PJM, highlighted that the report contains 12 months of data, but the Economic activity is not complete as CSPs have 60 days from the event date to upload meter data. Also, the Revenue data for Capacity in Figure 14 is for the 2017 Calendar Year and as such, combines revenue data from six months of the prior and six months of the current Delivery Years. It was also noted that MWs cleared by Demand Response registrations in the Synchronized Reserve market as a percent of the overall Synch Reserve Requirement reached a max over 20% in December 2017, a level not realized since late 2013.

The Cold Day Activity report was also reviewed which covers estimated economic activity in the energy market for the recent cold snap: 12/27/17 and 1/5/2018. Estimated load reductions were less than 60 MWs during this period although wholesale prices were fairly high.

## 2<sup>nd</sup> Read Manual 40: Training and Certification Requirements Updates

- Mr. Michael Hoke, PJM, reviewed the Manual 40 training requirements for CSPs with Load Management registrations for the second time. This new training, covering emergency procedures and load management processes, is required for agents of any CSP with Load Management (Emergency and Pre-Emergency) resources. Training must be completed within 3 months of the 6/1/2018 effective date. As a first step in assigning this training to the applicable individuals, all entities subject to this

new requirement will need to designate a PJM Training Liaison. The Training Liaison serves an administrative role in keeping PJM informed of personnel changes. PJM will work with the Training Liaisons to establish LMS accounts for identified personnel. Once those accounts are established, the training can be assigned to those that will be required to complete it.

## Future Agenda Items

No future agenda items were identified.

## Future Meeting Dates

Monday	2/12/2018	9:30 am – 12:00 pm	PJM Conference & Training Center/ Webex
Tuesday	3/27/2018	9:30 am – 4:00 pm	PJM Conference & Training Center/ Webex
Wednesday	4/18/2018	9:30 am – 4:00 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
Guerry, Katie	EnerNOC, Inc.	Other Supplier
Hendrzak, Chantal	PJM Interconnection, LLC	Not Applicable
Hoke, Michael	PJM Interconnection, LLC	Not Applicable
Jack, O'Neill	PJM Interconnection, LLC	Not Applicable
James, McAnany	PJM Interconnection, LLC	Not Applicable
Johnson, Carl	Customized Energy Solutions, Ltd.*	Not Applicable
Kauffman, Brian	NRG Curtailment Solutions	Other Supplier
Kogut, George	New York Power Authority	Other Supplier
Long, Glenn	PJM Interconnection, LLC	Not Applicable
Maureen, Curley	PJM Interconnection, LLC	Not Applicable
Scarpignato, David	Calpine Energy Services, L.P.	Generation Owner
Thomas, Henry	PJM Interconnection, LLC	Not Applicable
Watts, Shane	PJM Interconnection, LLC	Not Applicable
Whitehead, Jeffrey	GT Power Group	Not Applicable

## In Attendance via WebEx / Teleconference

Anders, David	PJM Interconnection, LLC	Not Applicable
Anthony, Jason	KOREnergy, Ltd.	Other Supplier
Brown, David R.	NextEra Energy Power Marketing, LLC	Generation Owner
Campbell, Bruce	EnergyConnect, Inc.	Other Supplier
Carmean, Gregory	OPSI	Not Applicable
Cornett, Stephanie	East Kentucky Power Cooperative, Inc.	Transmission Owner
Covino, Susan	PJM Interconnection, LLC	Not Applicable
Cox, EdwardP	Appalachian Power Company	Transmission Owner
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Ehrichs, Lisa	Duke Energy Business Services LLC	Generation Owner
Feldman, Brett	Navigant Consulting, Inc.	Not Applicable
Feliks, Kent	Appalachian Power Company	Transmission Owner
Fiano, Anna	KeyTex Energy, LLC	Other Supplier



# Draft Minutes

Filomena, Guy  
Ford, Adrien  
Fox, Angela  
Freeh, Larissa  
Gebolys, Debbie  
Hastings, David  
Hoatson, Tom  
Holland, Risa  
Horstmann, John  
Jett, William  
Lokhandwalla, Faizminr  
Long, Glenn  
Mabry, David  
Marton, David  
Marzewski, Skyler  
Matheson, Doug  
McDaniel, John  
Midgley, Sharon  
Miller, John  
Nyemko, Masha  
Ondayko, Brock  
Peoples, John  
Pisarcik, Dave  
Polka, Joseph  
Poulos, Greg  
Powers, Sean  
Rohrbach, John  
Rutigliano, Tom  
Sasser, Jonathan  
Swalwell, Brad  
Trevino, Rita  
Webster, John  
Wilmoth, Emily

Customized Energy Solutions, Ltd.  
Old Dominion Electric Cooperative  
Wylan Energy, L.L.C.  
Appalachian Power Company  
Public Utilities Commission of Ohio (The)  
Market Interconnection LLC  
Riverside Generating, LLC  
PJM Interconnection, LLC  
Dayton Power & Light Company (The)  
Duke Energy Business Services LLC  
Dynergy  
PJM Interconnection, LLC  
McNees Wallace & Nurick LLC  
FirstEnergy Solutions Corp.  
Monitoring Analytics, LLC  
EnerNOC, Inc.  
Baltimore Gas and Electric Company  
Exelon Business Services Company, LLC  
Commonwealth Edison Company  
PJM Interconnection, LLC  
Appalachain Power Company  
Duquesne Light Company  
Customized Energy Solutions, Ltd.\*  
Duquesne Light Company  
CAPS  
Linde Energy Services, Inc.  
Southern Maryland Electric Cooperative  
Achieving Equilibrium LLC  
Customized Energy Solutions, Ltd.\*  
Tangent Energy Solutions, Inc.  
Siemens Industry, Inc.  
Dyon LLC  
Dominion Virginia Power

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

Author: Andrea Yeaton