

Demand Response Subcommittee
PJM Conference and Training Center
July 16, 2018
9:30 a.m. – 12:00 p.m. EPT

Administration (9:30-9:40)

1. Welcome, Announcements and Anti-trust and Code of Conduct announcement

A. Roll call: in-person only

B. Reviewed/approved the minutes for the 6/22/2018 meeting.

C. No additional agenda items were requested

D. Pete updated the group on DR related items happening in the SODRSTF and DERS.

SODRSTF has updated its timeline to help tie in with the PRD vote. There is also a poll open to determine the amount of support for the four proposed solution packages.

The DERS is taking two tracks (wholesale and non-wholesale BtMG). A poll centered on the non-wholesale piece is expected to open at the end of July.

E. Web services certificates will be changing this Thursday, 7/19, between 2:00 pm and 4:00 pm in Train (Sandbox). Production is scheduled to change in August.

Retiring Files on PJM.com (9:40-9:50)

2. Ms. Swapna Kanury from PJM provided information on files that will be retiring on PJM.com on August 15, 2018.

PA Act 129 actions are based on 09:45 am DA forecast and this is moving to Data Miner 2.

- Two PA Act 129 events occurred in July and everything went well.

PA utilities have already switched and are currently using Data Miner 2. They are grabbing whatever data is available at 10:10 am.

18/19 Load Management daily deficiency penalties (9:50 – 10:00)

3. Mr. Jack O'Neill from PJM provided a follow up to a DRS member request from last meeting to provide the 18/19 DY daily deficiency charge values. These are charges that a CSP receives if they don't register sufficient quantity of MWs to cover their capacity commitment. Total charges were \$252.76.

There were no questions/comments.

Follow up on duplicate resolution process (10:00 – 10:30)

4. Ms. Andrea Yeaton from PJM provided a follow up on duplicate resolution questions. PJM discussed system/process changes to help make the process more effective or if stakeholders would like to submit an issue statement to change existing manual language.

Andrea provided potential solutions to two main issues.

Issue #1 in the presentation would not require going through the stakeholder process, because there would be no changes to PJM manual 11. There were questions and concerns on PJM viewing contracts due to confidentiality. Pete highlighted PJM does not want to contact end-use customers, but PJM is willing to contact them to help solve the issue. There seemed to be a general consensus for PJM to facilitate discussions between CSPs to solve the issue. It was also noted that terminating a registration does not unwind the transaction in eRPM. This is a manual process. There were also discussions around creating a “Terminated Duplicate” status that would not go through the normal termination process, until CSPs have been contacted.

Issue #2 would require a member bringing forward a Problem Statement and going through the stakeholder process. There was a consensus to use a revised Issue #1 proposal for the short-term. If this approach seems ineffective or over burdensome, the stakeholder process route would be revisited at a future meeting.

Andrea will present a revised short-term proposal at the August meeting.

EDC cost recovery for CSP DR tasks (10:30 – 11:00)

5. Mr. Phil Cox from AEP will discuss potential issue statement regarding EDC administrative costs to review and approve DR activity for the wholesale market.

Phil stated the registration review and approval process is 100% dependent on EDCs. He stated AEP has added personnel and control platforms to help with the process. Phil was looking for feedback from the group on ways for EDCs to recoup some of these costs.

It was brought up that this may be a state jurisdictional issue, so Phil should reach out to OPSI. Some stakeholders mentioned they thought costs for these services were included in settlements.

Phil said the process has gotten systematically easier, but there are a lot more registrations now.

Pete asked the group to think about ways PJM make be able to make the process easier.

Pete will investigate the jurisdictional issue and provide an update at a future DRS meeting.

PJM will reach out to EDCs to see how they review and validate registrations. This information will be presented at a future DRS meeting.

Phil mentioned AEP may start working on a potential Problem Statement.

DR Hub DER information requirements (11:00 – 11:20)

6. Ms. Masha Nyemko will discuss proposed changes to DER information managed in DR Hub. PJM is considering expanding information captured to provide additional visibility.

DRHub will be updated in mid-October to allow entry for multiple generators at one site and to enter battery details. These updates will allow for transparency for DER participating in DR and increase data accuracy. This information will increase resource visibility to PJM personnel.

Dave Pratzon mentioned the battery use list is not all-inclusive. He recommended adding an “Other” to the list.

Bruce Campbell mentioned fuel cells are becoming more prevalent and asked how they would be handled at PJM. Pete responded that PJM will try to use the existing framework. If that does not work, PJM will seek alternative methods.

PJM will follow up with its Interconnection group to determine how the example on slide 5 would be handled. This question was resolved and the example is confirmed to be a valid situation. Mentioned in a question scenario was a unique situation that is not captured in this example.

Future Agenda Items

Participants will have the opportunity to request the addition of any new item(s) to the agenda of a future meeting.

Future Meeting Dates

| | | | |
|-----------|------------|--------------------|---|
| Thursday | 8/30/2018 | 9:30 am – 12:00 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 (Chair) | Peter | PJM Interconnection, LLC | Not Applicable |
| Thomas (Secretary) | Jack | PJM Interconnection, LLC | Not Applicable |
| Campbell | Bruce | EnergyConnect, Inc. | Other Supplier |
| Foldare | Kenneth | Tangibl | Not Applicable |
| Guerry | Katie | EnerNOC, Inc. | Other Supplier |
| Hilderbrand | Rebecca | PJM Interconnection, LLC | Not Applicable |
| Kanury | Swapna | PJM Interconnection, LLC | Not Applicable |
| Kogut | George | New York Power Authority | Other Supplier |
| Long | Glenn | PJM Interconnection, LLC | Not Applicable |
| McAnany | James | PJM Interconnection, LLC | Not Applicable |
| Nyemko | Masha | PJM Interconnection, LLC | Not Applicable |
| O'Neill | Jack | PJM Interconnection, LLC | Not Applicable |

| | | | |
|-----------|---------|--------------------------|----------------|
| Pratzon | David | GT Power Group | Not Applicable |
| Skoglund | Eric | PJM Interconnection, LLC | Not Applicable |
| Walker | Bill | PJM Interconnection, LLC | Not Applicable |
| Whitehead | Jeffrey | GT Power Group | Not Applicable |
| Yeaton | Andrea | PJM Interconnection, LLC | Not Applicable |

In Attendance via WebEx / Teleconference

| | | | |
|----------|-----------|---------------------------------------|----------------------|
| Ainspan | Malcolm | Energy Curtailment Specialists, Inc. | Other Supplier |
| Alston | Rick | Old Dominion Electric Cooperative | Electric Distributor |
| Anthony | Jason | KORenergy, Ltd. | Other Supplier |
| Benchek | Jim | American Transmission Systems, Inc. | Transmission Owner |
| Bolan | Martin | FirstEnergy Solutions Corp. | Transmission Owner |
| Brown | David | NJ Board of Public Utilities | Not Applicable |
| Bryant | Eric | FirstEnergy Solutions Corp. | Transmission Owner |
| Campbell | Bruce | EnergyConnect, Inc. | Other Supplier |
| Cornett | Stephanie | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Cox | Phil | Appalachian Power Company | Transmission Owner |
| Davis | Jim | Dominion Energy Marketing, Inc. | Generation Owner |
| DeLosa | Joseph | DE Public Service Commission | Not Applicable |
| Drom | Richard | Eckert Seamans | Not Applicable |
| 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 |
| Fiano | Anna | KeyTex Energy, LLC | Other Supplier |
| Filomena | Guy | Customized Energy Solutions, Ltd. | Not Applicable |
| Fitch | Neal | NRG Power Marketing LLC | Generation Owner |
| Freeh | Larissa | Appalachian Power Company | Transmission Owner |
| Hastings | David | Market Interconnection LLC | Not Applicable |
| Hudis | Gabriella | Jersey Green Energy LLC | Other Supplier |

| | | | |
|-------------|-------------|--|--------------------|
| Johnson | Carl | Customized Energy Solutions, Ltd.* | Not Applicable |
| Kaczanowski | Marek | Baltimore Gas and Electric Company | Transmission Owner |
| Klink | Troy | FirstEnergy Solutions Corp. | Transmission Owner |
| Lu | Chenchao | PJM Interconnection, LLC | Not Applicable |
| Mariam | Yohannes | Office of the Peoples Counsel for the District of Columbia | End User Customer |
| Marzewski | Skyler | Monitoring Analytics, LLC | Not Applicable |
| McDaniel | John | Baltimore Gas and Electric Company | Transmission Owner |
| Miller | John | Commonwealth Edison Company | Transmission Owner |
| Modlin | Jayne | PSEG Energy Resources and Trade LLC | Transmission Owner |
| Ondayko | Brock | Appalachian Power Company | Transmission Owner |
| Pisarcik | Dave | Customized Energy Solutions, Ltd.* | Not Applicable |
| Polka | Joseph | Duquesne Light Company | Transmission Owner |
| Rutigliano | Tom | Achieving Equilibrium LLC | Other Supplier |
| Sasser | Jonathan | Customized Energy Solutions, Ltd.* | Not Applicable |
| Sturgeon | John | Duke Energy Carolinas, LLC | Other Supplier |
| Wehr | Christopher | Ohio Edison Company | Transmission Owner |
| Williams | Nora | AEP Energy, Inc. | Other Supplier |
| Wilmoth | Emily | Dominion Virginia Power | Not Applicable |
| Wolfe | Sam | Viridity Energy, Inc. | Other Supplier |
| York | Amy | McNees Wallace & Nurick | Not Applicable |

Author: Jack Thomas

Antitrust:

You may not discuss any topics that violate, or that might appear to violate, the antitrust laws including but not limited to agreements between or among competitors regarding prices, bid and offer practices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that might unreasonably restrain competition. If any of these items are discussed the chair will re-direct the conversation. If the conversation still persists, parties will be asked to leave the meeting or the meeting will be adjourned.

Code of Conduct:

As a mandatory condition of attendance at today's meeting, attendees agree to adhere to the PJM Code of Conduct as detailed in PJM Manual M-34 section 4.5, including, but not limited to, participants' responsibilities and rules regarding the dissemination of meeting discussion and materials.

Public Meetings/Media Participation:

Unless otherwise noted, PJM stakeholder meetings are open to the public and to members of the media. Members of the media are asked to announce their attendance at all PJM stakeholder meetings at the beginning of the meeting or at the point they join a meeting already in progress. Members of the Media are

reminded that speakers at PJM meetings cannot be quoted without explicit permission from the speaker. PJM Members are reminded that "detailed transcriptional meeting notes" and white board notes from "brainstorming sessions" shall not be disseminated. Stakeholders are also not allowed to create audio, video or online recordings of PJM meetings.

Participant Identification in WebEx:

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