DER Ride Through Task Force
PJM Conference and Training Center
January 15, 2019
9:00 a.m. – 3:00 p.m. EPT

Administration (9:00-9:15)

1. Ms. Susan McGill opened the meeting and welcomed those attending in person and on the phone.

   Mr. Jonathan Thompson reviewed the Anti-Trust Policy, Code of Conduct, and Media Participation Policy. No media identified themselves as present.

Education (9:15-12:00)

2. Problem Statement and Charge Document Review
   Mr. Emanuel Bernabeu, PJM, reviewed the Problem Statement and Issue Charge for the DER Ride Through Task Force.

3. PJM Concern/Transmission Education/Workshop Summary
   Mr. Andrew Levitt presented background on DER Ride Through, the concerns of DER Ride Through from a transmission operator perspective, and give a summary of previous DER workshops. Background on IEEE-1547-2018 was also given

4. PJM 2031 DER Trip and Ride Through Impact Study
   Ms. Christina Catalano presented PJM plans for a dynamic power flow simulation to study the impact of widespread fault-triggered DER tripping on PJM. The study will be performed with input from relevant utilities.

5. Dominion Arc Flash Study
   Mr. Jonathan Deverick, Dominion, will present about Dominion’s Arc Flash Study. Background was given on safety concerns of hot line work and DER’s effects on distribution safety.

6. Distribution Side Perspective on DER Ride Through
   Mr. Mamadou Diong, Dominion, will give perspective from the distribution side on DER Ride Through.

CBIR Process (1:00-2:30)

7. CBIR Process Overview
   Ms. Janell Fabiano, PJM, presented an overview of the CBIR Process.

8. Matrix Review
   Ms. Susan McGill reviewed the initial matrix. PJM had initial interests identified and asked for more interests from stakeholders.

9. Workplan Review
   Ms. Susan McGill reviewed the workplan.
Meeting Minutes

Future Agenda Items (2:30-3:00)

Participants had the opportunity to request the addition of any new items to the agenda of a future meeting. Additional education was requested for background on the operation and protection of the distribution system and its interactions with the transmission system.

Future Meeting Dates

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 12, 2019</td>
<td>9:00 a.m.</td>
<td>PJM Conference &amp; Training Center/ WebEx</td>
</tr>
<tr>
<td>March 13, 2019</td>
<td>9:00 a.m.</td>
<td>PJM Conference &amp; Training Center/ WebEx</td>
</tr>
<tr>
<td>April 02, 2019</td>
<td>9:00 a.m.</td>
<td>PJM Conference &amp; Training Center/ WebEx</td>
</tr>
<tr>
<td>April 23, 2019</td>
<td>9:00 a.m.</td>
<td>PJM Conference &amp; Training Center/ WebEx</td>
</tr>
</tbody>
</table>

In Person Attendance

- Beban, Madalyn, PJM Interconnection, LLC, Not Applicable
- Catalano, Christina, PJM Interconnection, LLC, Not Applicable
- Chen, Yang, PJM Interconnection, LLC, Not Applicable
- Choi, Byoungkon, PJM Interconnection, LLC, Not Applicable
- Ciabattoni, Joseph, PJM Interconnection, LLC, Not Applicable
- Fabiano, Janell, PJM Interconnection, LLC, Not Applicable
- Fix, Terry, Dominion Energy, Generation Owner
- Kauffman, Brian, EnerNOC, Inc., Other Supplier
- Kogut, George, New York Power Authority, Other Supplier
- Levitt, Andrew, PJM Interconnection, LLC, Not Applicable
- Malladi, Brindavani, PJM Interconnection, LLC, Not Applicable
- Matheson, Eric, Pennsylvania Public Utility Commission, Not Applicable
- McGill, Susan, PJM Interconnection, LLC, Not Applicable
- Mishra, Chetan, Dominion Virginia Power, Not Applicable
- Sweeney, Rory, GT Power Group, Not Applicable
- Hoang, Liem, PJM Interconnection, LLC, Not Applicable
- Slwa, Stan, PJM Interconnection, LLC, Not Applicable
- Deverick, Jonathan, Dominion Energy, Not Applicable
- Diong, Mamadou, Dominion Energy, Not Applicable
- Mousa, Ahmed, PSEG, Not Applicable

Teleconference Attendance

- Fernandes, Anisha, PJM Interconnection, LLC, Not Applicable
- Sherman, Bob, Public Service Electric & Gas Company, Not Applicable
- Malladi, Brindavani, PJM Interconnection, LLC, Not Applicable
- Campbell, Bruce, EnergyConnect, Inc., Not Applicable
- Trayers, Barry, Citigroup Energy, Inc., Other Supplier
- Colbert, Cathleen, NRG Power Marketing LLC, Other Supplier
- Mertz, Christopher, Virginia Electric & Power Company, Generation Owner
- Domian, Christin, Duquesne Light Company, Transmission Owner
- Ericson, Christine, Illinois Commerce Commission, Not Applicable
- Dugan, Chuck, East Kentucky Power Cooperative, Inc., Transmission Owner
- LOWE, CONNIE, Dominion Virginia Power, Not Applicable
- Anders, David, PJM Interconnection, LLC, Not Applicable
- Canter, David, Appalachian Power Company, Transmission Owner
- Mabry, David, McNees Wallace & Nurick LLC, Not Applicable
Meeting Minutes

Kou, Derek
Dominion
Not Applicable

Kozuharov, Dimitar
Delaware Municipal Electric Corporation, Inc.
Electric Distributor

Velez, Garan
Dominion
Not Applicable

Gunn, Garan
Public Service Electric & Gas Company
Transmission Owner

Carmean, Greg
Organization of PJM States, Inc
Not Applicable

Whitehead, Jeffrey
GT Power Group
Not Applicable

Hohenshilt, Jennifer
Talen Energy Marketing, LLC
Generation Owner

Zhao, Jeff
Dominion
Not Applicable

Benchek, Jim
American Transmission Systems, Inc.
Transmission Owner

Horstmann, John
Dayton Power & Light Company (The)
Transmission Owner

Sasser, Jonathan
PJM Interconnection, LLC
Not Applicable

Thompson, Jonathan
PJM Interconnection, LLC
Not Applicable

Scheyler, Ken
PJM Interconnection, LLC
Not Applicable

Patel, Keyur
PJM Interconnection, LLC
Not Applicable

Hoang, Liem
FirstEnergy Solutions Corp.
Transmission Owner

D'Alessandris, Lou
Duquesne Light Company
Transmission Owner

Collette, Lucas
LMH Energy
Not Applicable

Horning, Lynn Marie
Energy Curtailment Specialists, Inc.
Other Supplier

Ainspan, Malcolm
Potomac Electric Power Company
Electric Distributor

Garbini, Marjorie
American Electric Power
Not Applicable

Smith, Mark
Duke Energy Ohio, Inc.
Transmission Owner

Connelly, Nancy
ConEdison Energy, Inc.
Other Supplier

Gilani, Rehan
Pennsylvania Public Utility Commission
Not Applicable

Gebhardt, Scott
PJM Interconnection, LLC
Not Applicable

McGill, Susan
PJM Interconnection, LLC
Not Applicable

Ahmad, Syed
The Federal Energy Regulatory Commission
Not Applicable

Hoatson, Tom
Riverside Generating, LLC
Other Supplier

Hyzinski, Tom
GT Power Group
Not Applicable

Weaver, Tom
American Electric Power
Not Applicable

Mariam, Yohannes
Office of the Peoples Counsel for the District of Columbia
End User Customer

fan, Zhenyu
PJM Interconnection, LLC
Not Applicable

Author: Jonathan Thompson

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. PJM may create audio, video or online recordings of stakeholder meetings for internal and training purposes, and your participation at such meetings indicates your consent to the same.

### Participant Identification in WebEx:

When logging into the WebEx desktop client, please enter your real first and last name as well as a valid email address. Be sure to select the “call me” option. PJM support staff continuously monitors WebEx connections during stakeholder meetings. Anonymous users or those using false usernames or emails will be dropped from the teleconference.

### On the Phone Dial

<table>
<thead>
<tr>
<th>Mute / Unmute</th>
</tr>
</thead>
<tbody>
<tr>
<td>*6</td>
</tr>
</tbody>
</table>

### Join a Meeting

1. Join meeting in the WebEx desktop client
2. Enter name (*First and Last*) and corporate email
3. Under “Select Audio Option” select “Call Me” option from the dropdown menu

*Note: Anonymous users or those using false usernames or emails will be dropped from the teleconference.*

---

Provide feedback on the progress of this group: [Facilitator Feedback Form](#)

Visit [learn.pjm.com](#), an easy-to-understand resource about the power industry and PJM’s role.