AGENDA
Dispatcher Training Subcommittee
PJM CTC and WebEx (Password – dts0819pjm)
Tuesday August 19, 2014, 0900-1000

Reminder: Press *6 to mute/un-mute your phone during the Meeting

1. Administration (0900 - 0903)

Meeting minutes for the July 2014 DTS meeting were sent to all members. Corrections and additions to the written notes will be solicited.

WebEx recordings of the DTS meetings are available via a password-protected link from the DTS Webpage of www.pjm.com. If you need assistance in accessing these recordings, please let Mr. Fernsler know. We are using the DTS roster as our cross-check before granting access to the DTS recordings. If you are not on the roster, your request to have access to the recordings will not be approved.

2. SOS Report (0904-0905)

Mr. Lloyd will report on any items of interest from the System Operating Subcommittee Meetings.

3. Compliance Update (0906 - 0908)

Ms. Curley will provide an update on member compliance with PJM Training and Certification requirements, per Manual 40.

4. Review of Transmission and Generation Task List (0908 - 0915)

To address PJM’s SAT requirements, members are requested to review the current Transmission and Generation Task Lists via the PJM LMS, and submit their review results via the provided “Evaluation” (Reviewed with no comments, or reviewed with comments) Any comments or suggested changes will be brought up to the DTS for discussion.

A wording change has been proposed for some tasks on the Generation Operator task list. The reasoning behind the change is to make the wording more high-level, so that it can address actions taken both by operators at marketing entities and those at individual plant sites. Members will be polled to accept the proposed change. The proposed wording change is as follows;
Existing Task Statements:

9 Terminal Task  Given a restoration condition, start, operate & load a unit in accordance with the established restoration procedures

9.1 Enabling Objective  Evaluate equipment conditions after a disturbance to determine impact to reliability unit operations

9.2 Enabling Objective  Notify PJM (and other affected parties) of equipment status during the restoration process

9.3 Company Specific Task  Identify the requirements to bring a unit online/offline during a restoration

10 Terminal Task  Given a black start resource within PJM, support its operation, reporting and testing in accordance with the appropriate PJM Manuals

10.1 Enabling Objective  Identify the processes for offering and testing black start resources

10.2 Company Specific Task  Identify the requirements to bring a black start resource online/offline during a restoration

Proposed changes to the wording:

9 Terminal Task  Given a restoration condition, support the coordination of the start-up and operation of a unit in accordance with the established restoration procedures

9.1 Enabling Objective  Evaluate equipment conditions after a disturbance to determine impact to reliability unit operations

9.2 Enabling Objective  Notify PJM (and other affected parties) of equipment status during the restoration process

9.3 Company Specific Task  Identify the your company’s role in bringing a unit online/offline during a restoration

10 Terminal Task  Given a black start resource within PJM, support its operation, reporting and testing in accordance with the appropriate PJM Manuals

10.1 Enabling Objective  Identify the processes for offering and testing black start resources

10.2 Company Specific Task  Identify your company's role in bringing a black start resource online/offline during a restoration
5. **2014 PJM Drill dates (0916 – 0930)**

- **2014 Summer Emergency Procedures Drill** | Completed
- **2014 Winter Emergency Procedures Drill** | November 17, 2014
- **2014 Spring Restoration Drill** | Completed
- **2014 Fall Individual Company Restoration Drills – Dates are as follows;**

<table>
<thead>
<tr>
<th>Date</th>
<th>Organization(s)</th>
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<tbody>
<tr>
<td>October 1-2 Wed/Thur</td>
<td>AEP, DEOK, DAYTON</td>
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<tr>
<td>October 2    Thur.</td>
<td>Dominion, EKPC</td>
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<td>October 7-8 Tue</td>
<td>FE South, Duquesne</td>
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<tr>
<td>October 8    Wed.</td>
<td>DPL, AE</td>
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<td>October 9    Thur</td>
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<td>October 14 Tue</td>
<td>PEPCO-BGE</td>
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<tr>
<td>October 15 Wed</td>
<td>PECO, ComEd</td>
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<tr>
<td>October 21 Tue</td>
<td>FE-ME, PPL, UGI</td>
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<tr>
<td>October 22 Wed</td>
<td>FE-West, CPP</td>
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<tr>
<td>October 23 Thur</td>
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<td>October 28 Tue</td>
<td>FE-PN,</td>
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<tr>
<td>October 29 Wed</td>
<td>FE-JC</td>
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<tr>
<td>October 30 Thur</td>
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<tr>
<td>November 4 Tue</td>
<td>PS, Rockland</td>
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*Red = Drill at Members Location at Members Request*

Kevin Hatch will provide a summary of the drill content for the individual restoration drills and take comments and questions.
6. **2015 Seminar Dates & Locations (0931 - 0934)**

A few folks have asked about the 2015 Seminar Dates and Locations for planning purposes. They are as follows;

**CTC**
- March 10 – 13, 2015
- March 17 – 20, 2015
- March 23 – 26, 2015

Westin Cleveland Downtown  
- March 30 – May 2, 2015**
- April 7 – 10, 2015
- April 14 – 17, 2015

Westin Arlington Gateway  
- April 21 – 24, 2015
- April 28 – May 1, 2015
- May 5 – 8, 2015

** These weeks are Monday thru Thursday

7. **July 5th Minimum Generation Event (0935-0940)**

Over the midnight period between July 4th and 5th, PJM experienced a Minimum Generation Event. Several operational and reporting problems were experienced.

Of ~200 Generation owners, only 31 responded and completed the Minimum Generation Report. Of those 31, only 15 reported an Emergency Reducible value > 0 MW. Those generating companies reported (via eDART) that 944 MW were available upon declaration, yet when the event was declared, only 321 MW of reduction was seen. There were initially problems with SCED not being able to send a $0 or negative price signal which added to the difficulties. As the event progressed, PJM cancelled 2000 MW of spot in contracts, and then went to first 50%, then 100% of reducibles. Of the 1665 MW reported as available, only 1458 MW did actually reduce. The declining load forced PJM to manually order off all remaining wind as well as 3 additional generators.

PJM has created a “Minimum Generation Advisory” procedure to give advanced notice of a potential Min Gen event. Improvements to SCED are already underway to address those concerns. But given this poor performance, PJM is also considering the need to begin doing Min Gen report reviews and/or drills to ensure that the reporting is being done correctly.

In the short term, generation members are requested to have their operators review the Minimum Generation Event procedures, especially around computing reducibles and reporting those values via eDART. The online Operations 101 training module covers capacity shortage and excess procedures, and can be used as a reference for those operators needing a refresher.

Those generation owners looking for additional training materials should contact Mr. Fernsler or trainingsupport@pjm.com.
8. Attendance for those participating via phone only (0941 - 0942)

9. Your Items (0943-????)

10. Future DTS meeting dates

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>September 17, 2014</td>
<td>0900-1011</td>
<td>PJM CTC and WebEx</td>
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<tr>
<td>October 21, 2014</td>
<td>0900-1000</td>
<td>PJM CTC and WebEx</td>
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<tr>
<td>November 18, 2014</td>
<td>0900-1000</td>
<td>PJM CTC and WebEx</td>
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Anti-trust:
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. PJM Members are also not allowed to create audio, video or online recordings of PJM meetings.