Tech Change Forum  
PJM Conference and Training Center  
February 20, 2019  
1:00 – 3:00 p.m. EPT

Administration (1:00-1:03)

1. Jim Gluck, PJM, provided a brief overview of the Tech Change Forum as well as ground rules and the agenda. He stated that all updates to technical releases will be provided via the Technical Notifications subscription list. Mr. Gluck also reminded attendees of the Tech Change Community.

Past Meeting Issue Review (1:03-1:15)

2. Discuss follow-up items from last meeting.
   
   A. Jim Gluck, PJM, provided a formal post-implementation review of the MSRS SUMA Browserless updates. Attendees did not have follow up items to discuss.
   
   B. Todd Keech, PJM, reviewed the model build process and planned enhancements. He provided a background on the pnode ID values exceeding the field character requirements. Mr. Keech stated that PJM took steps to strengthen the communication during events like this. He also stated that PJM is implementing changes to the markets systems to slow the growth of pnode ID values prior to the March model. Mr. Keech advised the group that PJM will perform an internal proof-of-concept during the March 2019 model build to determine if pnode IDs can be released to participants before the production model build. He stated if the proof-of-concept is successful then updates discussed at the April Tech Change Forum will be available for release with the Q2 model build.

Initiative Roadmap Updates (1:15-1:15)

3. Roadmaps for PJM initiatives through 2019 will be presented

   Brian Chmielewski, PJM, provided updates to FTR Center indicating the Credit Calculator will be updated and included with the FTR Center application. He stated that the team is working to migrate the calculator from PJM.com to FTR Center to work with the updated terms by April 1. Mr. Chmielewski informed the group that based on feedback from members PJM will continue to post the Excel spreadsheet on PJM.com that will have adjusted and historical reference prices from last year. He stated that the mark to auction credit requirements will not be available until April 4, 2019. Mr. Chmielewski stated users may contact ftrgroup@pjm.com or techchangeforum@pjm.com with any additional questions.

Product Roadmap Updates (1:15-1:45)

4. Roadmaps for individual products will be presented

   A. Bhavana Gagrani, PJM, provided an update to the roadmaps for Member Voting, eDataFeed, Data Viewer and Account Manager. She advised the group there will be a release on February 28 for Account Manager and Voting. Ms. Gagrani stated there will be a 2 hour outage during the release with no action on part of end users.
   
   B. Gerry McNamee, PJM, reviewed the DR Hub and Power Meter roadmaps. He stated there is a DR Hub release for Train on February 28 and Production on March 14. Mr. McNamee stated the release will include Test/Retest Acknowledging Events as well as a new Terminated-Duplicate status. He stated there will be a 20 minute outage during the release.
C. Kim Warshel, PJM, provided an update to the Markets Gateway roadmap. She informed the group of the SpinMax validation enhancement on March 28. Ms. Warshel stated the Gas Contingency Automation enhancement has been completed in order for users to provide the Natural Gas Supply Information. She stated there is a pipeline switching section to identify which is your Pipeline A and in order to use this section users would have to have multiple pipelines otherwise if only one pipeline is available then this section would be grayed out.

Ms. Warshel reviewed the early release for SpinMax Validation and discussed the unexpected impacts to users. She informed the group that the release was backed out of Markets Gateway on February 5 with PJM looking to revise the solution and begin testing in Train for at least 10 days before moving up to Production. Ms. Warshel stated the team is looking to enhance processes to support participants and avoid future impacts.

D. Tawnya Luna, PJM, reviewed the PJM.com roadmap. She advised the group that the home page will launch by the end of the first quarter with a beta version available in the next few weeks. Ms. Luna stated a demo will be available at the March Tech Change Forum. She stated the CEII expiration is planned for end of the first quarter as well. Ms. Luna informed the group that the home page phase 2 efforts will go out by end of year. She stated the Project Construction status update will be released with a potential third quarter release.

Ms. Luna provided details on the CEII secure area expiration updates. She stated users will begin to receive expiration notices by the end of the first quarter where users with access will receive an email notifying them of the expiration date and how to request access again.

E. Beth Schweser, PJM, provided an update to the OASIS roadmap. She stated the OASIS train release will be in March, 2019. Ms. Schweser advised the group production will be available in June, 2019.

F. Swapna Kanury, PJM, reviewed the Data Miner 2 roadmap. She informed the group that Release 19.02 has been pushed back to March 13. Ms. Kanury stated the release will include API updates to restrict the date range for the historic data to have a rolling year duration instead of just same calendar year.

G. Vy Le, PJM, provided an update to the eDART roadmap. She advised the group that the refresh is ongoing with a tentative maintenance release on March 25. Ms. Le stated the March 25th release will be a small release to include some XML and web user interface clean up updates. She reviewed the RRC drill is now part of the Sunday Emergency Procedure drill schedule (once a month). Ms. Le advised the group that the dormant eDART accounts are still being reviewed, locked and further revoked based on the review timeline.

Ms. Le provided an update on the eDART refresh. She stated the group is meeting on March 4 to review updates of the refresh with a draft in the second quarter.

H. Nick Disciullo, PJM, reviewed the MSRS roadmap. He advised the group that emails were sent out on February 11 about the compatibility mode being disabled as well as an email to users with basic authentication. Mr. Disciullo stated after March 13 only the new authentication request will be accepted when connecting to MSRS. He provided additional information with links to documentation and a support email address for any questions or comments.

I. Chris Malinowski, PJM, provided an update to the Networks roadmap. He stated on February 21 there will be an internet firewall update impacting access to PJM tools.

J. Jim Gluck, PJM, reviewed the products with no planned updates for the current month.

**General Updates (1:45-2:00)**

5. Jim Gluck, PJM, provided general updates, discussed the latest production issues over the last month and provided solutions PJM is working on.

**Product Design Review & Feature Demonstrations (2:00-2:10)**

6. Jim Gluck, PJM, stated there are no reviews or demonstrations for this meeting.
Future Meeting Announcement (2:15-2:20)

7. Jim Gluck, PJM, highlighted important upcoming dates.
   - March 13 – MSRS Compatibility Mode ending – transition your systems
   - March 13 – Rescheduled Data Miner 2 Release 19.02
   - March 19 – Tech Change Forum (WebEx Only)
   - March 19 – Special Tech Change Forum for OASIS Training and Education
   - April 1 – FTR Credit Calculator on FTR Center

General Feedback and Future Forum Topics (2:20)

Future Meeting Dates

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<tr>
<th>Date</th>
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<tr>
<td>March 19, 2019</td>
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<td>March 19, 2019 – Special Session: OASIS Training and Education</td>
<td>1:00 p.m.</td>
<td>WebEx</td>
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<td>April 23, 2019</td>
<td>1:00 p.m.</td>
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<td>May 21, 2019</td>
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<td>June 18, 2019</td>
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<td>July 23, 2019</td>
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<td>August 20, 2019</td>
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<td>September 17, 2019</td>
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<td>October 21, 2019</td>
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<td>November 19, 2019</td>
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Author: Monica Burkett

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.
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<td>To link your teleconference connection (audio presence) to your WebEx presence, please dial *29 and enter your Personal Identification Number. Once you are logged in to the WebEx, this PIN can be found under the “Meeting Info” tab of your WebEx window.</td>
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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

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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.