Tech Change Forum
Conference Call
April 23, 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 post-implementation review of two 2 major releases, Gen Model and PJM.com homepage, and asked for feedback. No feedback at this time.
      Jim Gluck, PJM, provided an update on the PJM eDataFeed/Data Viewer stale data issue which prevented LMP postings and explained once services were restarted, the issue was corrected.

Initiative Roadmap Updates (1:15-1:15)
3. Roadmaps for PJM initiatives through 2019 will be presented

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, Account Manager, and Resource Tracker. She explained the April 29 system upgrade planned for Data Viewer and Resource Tracker. She communicated that users would be unable to use these tools for about 2 hours during the maintenance window which would make updates to enhance infrastructure. She provided background details to Resource Tracker.
   B. Gerry McNamee, PJM, reviewed the DR Hub, Power Meter, InSchedule, Billing Line Item Transfer, and eSuite Home Page roadmaps. He stated that there is May 21 release for changes to the registration process changes for generators and batteries with Interconnection rights. He explained that not everyone received the new XSD for new battery fields so PJM decided to extend the release date to take account of this data. If anyone is adding battery or generator attributes, users will have to add those details with the new XSD. Gerry communicated that these details will be covered at the Demand Response Subcommittee meeting.
      Gerry McNamee, PJM, explained that PJM is planning to retire the esuite.pjm.com home page by the end of the year, with initial changes occurring in June 2019 for limited access to tools.
   C. Kim Warshel, PJM provided an update to the roadmap for Markets Gateway. She explained the two initiatives for SpinMax validation would be completed in the production environment on April 24 and that Resource Limitation Reporting and Tracking were scheduled for completion for Q3. SpinMax Validation correction will be resolved in Production on April 24. The Resource Limitation Reporting and Tracking updates in Markets Gateway would ensure a more dynamic notice to dispatch if a unit is running close to its limitations, and will include a calculation of estimated hours remaining using member-entered hours. She communicated the changes users would see could be viewed on slide 7 and this feature will replace the supplementary status report that was currently being used.
   D. Tawnya Luna, PJM, discussed the March 28 roadmap for the release to PJM.com homepage redesign that was based
on member feedback. She explained that although the right content was there, stakeholders requested additional information as well as usability enhancements. PJM utilized the feedback from members regarding the beta version and relocated current conditions above the news and improved contrast and readability of load forecast graph. She stated that additional feedback should be submitted by contacting the Member Relations hotline.

She communicated that phase two efforts to the homepage will be scheduled for a release by the end of Q2.

She reviewed the CEII efforts and stated that a demo would be presented later in the agenda.

She communicated that the beta page for project construction status and cost allocation page would go live later in 2019 and that additional details would be reviewed at the Tech Change Forum throughout the year.

E. Chris Pacella, PJM communicated reviewed the OASIS roadmap stating that there were currently no updates planned to the legacy OASIS system and that PJM is working on the OASIS refresh project that will go live in June. The exact date has not been identified but would be communicated within the next few weeks. He explained that the OASIS project team is currently working with beta users and working on various situations to improve the refreshed tool.

He communicated that the new CLI documentation was available and that users can provide feedback or send questions to oasisadmin@pjm.com.

F. Swapna Kanury, PJM, reviewed the Data Miner 2 roadmap and explained that PJM had more than one release in April due to platform enhancements. She explained that the monthly release went live on April 17 and that the platform maintenance will occur on April 25 and once the updated Data Miner 2 is available all new data postings will be republished. She also reviewed the highlights from previous releases and discussed updates planned for Q2 with for the operational data page.

G. Madeline Beach, PJM discussed the eDART roadmap. She communicated that PJM would provide the Company Distributed Workflow plan in June and that the Q3 tentative release in Train would include new browserless functionality.

H. Tim Marcus, PJM, reviewed the Networks updates and stated that there were two efforts in May, the new core switches and the new fiber systems for internet routers. They are currently planned for May 4 and May 16 respectively and will intermittently cause up to a 30 second interruption to access tools.

I. Monica Burkett, PJM, reviewed the roadmaps for the Communities and explained that the single sign-on update would occur on April 24 beginning at 4 p.m.

J. Jim Gluck, PJM, reviewed the applications for which there were no planned updates for May.

**General Updates (1:45-1:55)**

5. General updates will be presented

   A. Jim Gluck, PJM, discussed the recent production issue regarding the April 9 FTR auctions and April 1 Day-ahead results posting delay.

   B. Tawnya Luna, PJM, reviewed the browser standard updates that were made due to PJM security requirements. These security requirements require all PJM tools to only be accessed with IE9 or later and that Microsoft discontinued support for versions of IE before v11. She stated that non-upgraded tools will still support IE11 until they are upgraded.

**Product Design Review & Feature Demonstrations (1:55-2:10)**

6. Product Design Review & Feature Demonstrations

   A. Tawnya Luna, PJM discussed the secure area expiration for pjm.com and guided participants through a live demonstration of the new expiration features for secure areas. Participants were stepped through the process for
requesting or renewing access for non-CEII secure areas as well as CEII secure areas.

Future Meeting Announcement (2:10-2:15)
7. Mr. Jim Gluck highlighted important upcoming dates.
   April 24 – Markets Gateway SpinMax
   April 24 – Community update
   April 25 – DRS
   May 21 – DR Hub updates and May Tech Change Forum

General Feedback and Future Forum Topics (2:15)
A question was asked whether individuals can only have one SUMA per user account. Jim Gluck, PJM, took an action item to provide an answer.

Future Meeting Dates

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<tr>
<th>Date</th>
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<tr>
<td>May 21, 2019</td>
<td>1:00 p.m.</td>
<td>PJM Conference &amp; Training Center / WebEx</td>
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<td>June 18, 2019</td>
<td>1:00 p.m.</td>
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<td>July 23, 2019</td>
<td>1:00 p.m.</td>
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<td>August 20, 2019</td>
<td>1:00 p.m.</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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<td>December 17, 2019</td>
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Author: Monica Burkett

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<td>*6 Mute / Unmute</td>
<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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