Administration (1:00-1:00)

1. Welcome & Ground Rules - 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.

Past Meeting Issue Review (1:00-1:05)

2. Discuss follow-up items from last meeting.

   A. Jim Gluck, PJM, reviewed the PJM tools releases over the last month. He provided an update on the eDART maintenance release.

Initiative Roadmap Updates (1:05-1:10)

3. Roadmaps for PJM initiatives through 2019 will be presented

   A. Monica Burkett, PJM, reviewed the roadmap and requested that stakeholders whitelist the PJM dedicated IP address @lists.pjm.com. She explained that it was used to send the PJM Stakeholder Satisfaction survey, its reminders and some test communications. In addition, Ms. Burkett explained that updates were made based on stakeholder feedback received as a result of emailed communications sent as part of a pilot project. She communicated that PJM will start utilizing the new communication tool in December and January and the tool will minimize phishing attempts, provide PJM message consistency with key info in subject and non-essential info will be removed. There will be additional opportunity using a thumbs up/thumbs down approach to capture stakeholder feedback and the main footer area will notify the subscriber who the communication was sent to. Ms. Burkett explained that users with access to PJM Tools will automatically be added to that tool’s specific distribution list and that others without access should subscribe to the TechNotify distribution list to stay abreast of PJM’s IT changes.

Product Roadmap Updates (1:10-1:50)

4. Roadmaps for individual products will be presented

   A. Gerry McNamee, PJM, reviewed the roadmap for DR Hub, Power Meter, InSchedule, Billing Line Item Transfer and eSuite Home Page. He explained a DR Hub production release would occur on October 31 and a train release would occur on October 24 relating to Price Responsive Demand (PRD) for the 2019/2020 delivery year and registration enhancements. Mr. McNamee requested all members to utilize train to test their information and that additional information would be available at the Demand Response Subcommittee. He explained that the November 19 Tech Change Forum would provide additional information on the FERC 841 changes needed for Power Meter and reminded stakeholders of the December 15 esuite.pjm.com retirement.

   B. Kim Warshel, PJM, provided an update on the Markets Gateway roadmap explaining that the FERC Order 841 enhancement for Electric Storage Participation and will be implemented in production on December 3 and in train on November 8, 2019. The new fields being added to Markets Gateway were explained and Ms. Warshel announced that PJM will hold an education from 1:00-3:00 p.m. on November 12, 2019 and asked that stakeholders participate.

   C. Bhavana Gagrani, PJM, provided an update to the roadmaps for Account Manager, Bulletin Board, eDataFeed, Data Viewer, Messages, Resource Tracker, Voting and explained that there were no tool updates planned with the...
exception of November and December Account Manager releases and that the exact dates would be communicated later. She explained that the Account Manager enhancement to no longer provide default tool access is deferred until November and that new users would need to request and have their CAM approve all access. This change is due to both member feedback and enhancements to tool security access.

D. Tawnya Luna, PJM, reviewed the PJM.com roadmap and communicated that the PJM.com phase two home page updates scheduled for Q4 will now take place in 2020 and that the Project State & Cost Allocation page will go live in early November, 2019. Ms. Luna explained that PJM will send a communication when this has taken place and that stakeholders will see five new sorting options. She also communicated that more details will be provided at the November 19, 2019 Tech Check Change Forum regarding the Operational Data page being removed and its current information will be available in Data Miner 2.

E. Swapna Kanury, PJM, provided an update to the Data Miner 2 roadmap and explained that beginning January 2020, stakeholders will need to be more familiar with Data Miner 2 archived data versus standard data retrieval - 1/2020 archived data vs standard data retrieval. PJM will provide a release on October 23 and more details will be available in the Tech Change Community.

F. Chidi Ofoegbu, PJM, provided an update to the eDART roadmap and explained that PJM is still seeking feedback on the eDART Web UI and Browserless Refresh and that dates are being confirmed and discussed at the eDART User group mtgs. She communicated that the eDART user group will be moved under the Tech Change Forum by the end of October to remain consistent with PJM’s user group requirements, the roster will be removed and the charter will be redone. Also, there is a Q1 2020 tentative train release with parallel production setup. This release will make new download and upload points available. Ms. Ofoegbu suggested that stakeholders start directly obtaining their information from eDART or to utilize the web User Interface (UI) and that PJM is seeking feedback for Q1 2020 new browserless functionality.

G. Bhavana Gagrani, PJM, provided an update to the Axway Upgrade roadmap stating that users will be required to now use a PJM Tools account to log in. The tool will be renamed Secure Share and the enhancements will improve the usability of the tool. External users can register for a PJM account, or sign in and request access on the Secure Share page prior to the October 29 implementation date.

H. Heather Bird, PJM, provided a Connect.pjm.com roadmap update explaining that a beta site will be available October 15 to November 26 to allow users to test the new site and to become familiar with it. Ms. Bird requested stakeholders contact Member Relations to request access for testing, to contact SharePointConnectAdmins@pjm.com to report issues or submit questions and that users should not add any new content between December 6 and December 8. Ms. Bird communicated that Connect.pjm.com will be integrated into PJM’s Single Sign-On (SSO) at a future date and that IE is the preferred browser for Connect.pjm.com.

I. Carl Smith, Monitoring Analytics, provided an update on Q4 Member Information Reporting Application (MIRA) changes and that Monitoring Analytics will participate in future Tech Change Forum meetings based on stakeholder feedback received. Mr. Smith communicated that MIRA will have an update to the RPM Request Module and the RPM/ACR Module. He explained that a new module, Opportunity Cost Calculator (OCC), is being created to allow stakeholders the ability to provide documentation regarding environmental requirements and anyone needing a new OCC adder should contact MA@monitoringanalytics.com. In addition to the OCC module, Mr. Smith communicated another new module, Secure Communications, was being developed to support feedback received that confidential information no longer be sent via email. He shared that once a stakeholder was online, they would be able to share confidential information, data, and comments using MIRA. Mr. Smith explained that all the MIRA changes are scheduled for a Q4 release with a November implementation date but that Monitoring Analytics may need to make additional MIRA changes earlier based on pending FERC decision on capacity markets.

J. Keith Rainer, PJM, provided an update to the Networks roadmap stating that there were three maintenances planned on October 22, November 5 and November 7 that may impact access to PJM Tools. Mr. Rainer explained more detailed impacts will be communicated via TechNotify.
K. Jim Gluck, PJM reviewed the Product Map – No Updates roadmap for the month.

**General Updates (1:50-2:00)**

5. General updates will be presented

   A. Jim Gluck, PJM, communicated two PJM production issues, the October 10 Queue Point and the October 2 slowness reported on pjm.com LMP and System maps and Proposed Renewable Projects due to heavier than normal load. He communicated that the Learning Management System (LMS) has updated their password complexity requirements to align with other PJM tools. Mr. Gluck reviewed the MSRS and eCredit tool refresh timeline and announced that Foluso Afelumo would be the new Tech Change Forum facilitator beginning in November.

   B. Tawnya Luna, PJM, reviewed the Browser Support updates communicating PJM’s recommendations for browser usage and current browser versions that are supported for refreshed tools and websites.

   C. Foluso Afelumo, PJM, reviewed the Tools Security roadmap explaining that PJM is planning two new initiatives in 2020. One initiative would involve ExSchedule and OASIS to conform to the FERC Notice of Proposed Rule Making (NOPR) for Public Key Infrastructure (PKI) usage and for Account Manager to associate valid PKI certificates with user accounts. He explained that PJM’s goal is to make PKI available for all PJM tools in the future.

**Product Design Review & Feature Demonstrations (2:00-2:30)**

6. Product Design Review & Feature Demonstrations

   A. Heather Bird, PJM, provided a demonstration of the upgraded Connect.pjm.com. The demonstration was recorded and is posted under Educational Recordings.

   B. Tawnya Luna, PJM, provided a demonstration of the enhanced Project Status & Cost Allocation Page that will become available on November 1. She explained that the page will have new filtering, searching and hovering capability. In addition, she communicated that state information would also be available.

**Future Meeting Announcement (2:30-2:35)**

7. Jim Gluck, PJM, highlighted important upcoming dates.
   - October 31 – Price Responsive Demand (PRD) available in DR Hub in production.
   - November 6 – esuite.pjm.com retirement
   - November 8 – Markets Gateway changes added to Train environment for Electric Storage Participation
   - November 12 – Education session for Electric Storage Participation
   - November 19 – Tech Change Forum
   - December 3 – Markets Gateway changes added to Production environment for Electric Storage Participation
   - December 6 – December 8 - Connect.pjm.com upgrade in Production environment. Stakeholders should not add any new content
General Feedback and Future Forum Topics (2:05)

Future Meeting Dates

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<tr>
<td>November 19, 2019</td>
<td>1:00 p.m.</td>
<td>PJM Conference &amp; Training Center / WebEx</td>
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<td>December 17, 2019</td>
<td>1:00 p.m.</td>
<td>PJM Conference &amp; Training Center / WebEx</td>
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Author: Risa Holland

**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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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.

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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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