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.

2. Discuss follow-up items from last meeting.
   A. Jim Gluck, PJM, stated there were no follow-up items from the last meeting.
   B. Todd Keech, PJM, discussed the model build process and planned enhancements. He provided a recap of the LMP model build process and advised attendees that PJM noticed between model builds that the pnode ID values increased. Mr. Keech informed the group that this issue impacted both PJM and participants. He stated that technical and process changes will be required to ensure no future issues arise. Mr. Keech advised the group that the ideal situation would be to retrieve the set of pnode IDs and provide to participants ahead of time.

3. Roadmaps for PJM initiatives through 2019 will be presented
   A. Jim Gluck, PJM, stated there were no PJM initiatives to be reviewed at this time.

4. Roadmaps for individual products will be presented
   A. Gerry McNamee, PJM, reviewed the roadmaps for Member Voting, eDataFeed, Data Viewer, Account Manager, DR Hub and Power Meter. He advised the group that initial efforts for 2019 were very light with a release for DR Hub. Mr. McNamee stated a DR Hub release is set for the Train environment at the end of February with a mid-March release for Production. He also informed the group that User Interface enhancements scheduled for Data Viewer were not completed at the end of 2018 and will be in the queue for 2019 efforts.
   B. Susan Kenney, PJM, provided an update to the Markets Gateway roadmap. She stated the team has two upcoming releases related to a bug with SpinMax validation for late March as well as new functionality for Gas Contingency in early February.

   Ms. Kenney informed the group that the SpinMax error relates to eco min/max and emergency min/max and the team is working with the vendor for updates. She advised impacted users to contact custsvc@pjm.com.

   C. Tawnya Luna, PJM, reviewed the PJM.com roadmap. She informed the group of the home page redesign efforts that plan to go live by the end of March as well as updates to the CEII Secure Area Expiration renewal process. Ms. Luna stated efforts for the Project Construction Status have moved out to end of year.

   She informed the group that the home page redesign will happen in two phases with an overall refresh based on user feedback for phase 1. Ms. Luna stated the CEII Secure Area Expiration efforts will be based upon expiring access to the area users must renew through a new form.

   She advised the group that the updates to the Project Construction Status and Cost Allocation page will be similar to
D. Beth Schweser, PJM, reviewed the OASIS roadmap. She requested that OASIS users should review the beta documentation and become familiar with the refresh in the Train environment. Ms. Schweser informed the group that official go live for Train will be in March with a Production roll out in June, 2019. She stated documentation links of the user interface and the command line interface are available on the OASIS web page of pjm.com.

E. Swapna Kanury, PJM, reviewed the Data Miner 2 roadmap. She advised the group that Release 19.01 will be done in Production on January 29 followed by monthly releases in February and March. Ms. Kanury provided release highlights that relate to the real-time marginal value feed and a new feed displaying real-time transmission constraints. She stated the data from the Operational Data page has been deferred to the 2nd quarter of 2019. Ms. Kanury also informed participants of the updates to the acceptable terms of use for Data Miner 2 among other tools where republishing of data will require a republishing agreement.

F. Vy Le, PJM, reviewed the eDART roadmap. She informed the group that although there are no upcoming releases until June, 2019, there is ongoing work for the eDART refresh as well as Company Distributed Workflow and the Voltage Limits Tool. Ms. Le stated the Company Distributed Workflow details will be presented at the February Tech Change Forum where Voltage Limits will be reviewed later in 2019. She advised the group that 2019 will only two releases for eDART in order to prepare for the refresh efforts.

G. Nick Disciullo, PJM, reviewed the MSRS roadmap. He stated this is the last Tech Change Forum before go live on January 24 of the SUMA and basic authentication updates. Mr. Disciullo informed the group that the release will go live at midnight on the 24th. He reviewed the changes to the MSRS report dictionary which are available on pjm.com as well as updates to the CSV and XML for Weekly and Monthly Invoices available in the Train environment.

H. Chris Malinowski, PJM, reviewed the Networks roadmap. He advised the group that internet facing hardware work is to be completed on January 17.

I. 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 reviewed a one shot view of all 2019 work across all the products.

6. William Walker, PJM, reviewed the Bright Ideas that were completed in 2018. He provided a background to the Bright Ideas concept and process. Mr. Walker reviewed the full list of bright ideas that were completed in 2018. He also reviewed the amount of ideas that came into PJM and their current status. Mr. Walker showcased a few examples of Bright Ideas that were completed in 2018.

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

7. Product Design Review & Feature Demonstrations

A. Risa Holland, PJM, shared some background to the reason behind the Upcoming Changes demonstration.

Tawnya Luna, PJM, provided a live demonstration of the Upcoming Changes web page on pjm.com. She advised participants that the page will replace the Tool Outage Information page currently under the Tech Change Forum committee web page. Ms. Luna reviewed the various details of the page including date/time of change, title of change, tools impacts, as well as duration of impact.

She highlighted the various search and filter criteria available for users such as Tool, Environment, Impacts and Date Range. Ms. Luna informed the group that this new page will go live towards the end of January. She also stated this was a result of a Bright Idea and appreciates the input to improve communications on technical updates. Ms. Luna advised the group that a phase two effort will include the ability to sign up for notifications.
Future Meeting Announcement (2:15-2:20)

8. Mr. Jim Gluck will highlight important upcoming dates.
   - January 24 – MSRS Browserless and SUMA updates
   - February 5 – Markets Gateway - Gas Contingency release
   - February 20 – next Tech Change Forum meeting

General Feedback and Future Forum Topics (2:20)

Future Meeting Dates

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<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
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<tr>
<td>February 20, 2019</td>
<td>1:00 p.m.</td>
<td>PJM Conference &amp; Training Center / WebEx</td>
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<tr>
<td>March 19, 2019</td>
<td>1:00 p.m.</td>
<td>WebEx</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 &quot;Meeting Info&quot; tab of your WebEx window.</td>
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