Load Analysis Subcommittee
Teleconference / Web conference
Wednesday, March 14, 2018
1:00 p.m. – 4:00 p.m. EPT

Administration

1. Mr. John Reynolds opened the meeting and reviewed the agenda. Ms. Molly Mooney announced that attendance would be captured from the WebEx sign-in and noted the PJM rules for proper identification using full first and last name within WebEx.

2. The Load Analysis Subcommittee reviewed and approved the draft minutes from the November 15 2017 meeting. No changes were requested. Minutes will be posted as final. Ms. Mooney reviewed two items from the 2017 load forecast report that have been updated. The statistical appendix now reflects the correct five year average for residential, commercial and industrial weightings. The summer 2017 RTO peak in table F-1 is missing load from EKPC. Neither of these items impacted the model or model results.

Load Forecast Model Development

3. Distributed Solar Generation Backcast

Dr. Dan Kirk-Davidoff from AWS-Truepower presented the methodology and results of an effort to estimate the historical output of behind-the-meter solar generation in PJM zones. These estimates of historical output of behind-the-meter solar generation capacity will be added back to the unrestricted loads used in the long term load forecast model. Ms. Mooney laid out PJM’s plan to analyze and use the new data in the load forecast model.

4. Potential Load Forecast Enhancements

Mr. Andrew Gledhill continued the discussion on potential changes to the forecast model structure that was introduced in November 2017. Mr. Gledhill described some of the specifics on how this new model structure would be laid out with a baseload component and weather sensitive load component. The assumptions and methods used to produce baseload history/forecast were presented at this meeting.

5. Load Forecast Model Estimation Period

Mr. Gledhill discussed the disconnect between the weather normal value and the first year of the forecast. PJM believes some of the problem is due to the weather normalized value being low and the other part is due to error in the forecast model that showed a slight increase this past summer. Mr. Gledhill showed what the RTO summer forecast would look like if the historical loads used in the estimation of the model were shortened from 19 years to 15 years and 10 years. PJM does not believe this alone will solve the disconnect from WN to first year of the forecast and that shortening of history limits the model’s ability to accurately estimate parameters across business and weather cycles.
6. **ComEd Voltage Optimization Program**

Mr. Reynolds discussed PJM’s effort to recognize the impact of ComEd’s upcoming Voltage Optimization program and its impact on the load forecast model. He asked that if other zones are implementing similar programs to let PJM know.

**Informational Update**

7. **Review of Winter 2017/18 Load**

Mr. Reynolds reviewed peak loads and weather from winter 2017/18. The load data through January shows the five peak days in early January. The weather on the peak day was more extreme in PJM’s eastern zones and less extreme in the western zones. Final winter peaks will be available once loads are complete through February.

**In Attendance**

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
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<tbody>
<tr>
<td>Ryan Dolan</td>
<td>AEP Energy Partners, Inc.</td>
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<tr>
<td>Chad Burnett</td>
<td>American Electric Power</td>
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<td>Scott Fisher</td>
<td>American Electric Power</td>
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<tr>
<td>Jerod Marker</td>
<td>American Electric Power</td>
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<tr>
<td>Brock Ondayko</td>
<td>Appalachain Power Company</td>
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<tr>
<td>Daniel Kirk-Davidoff</td>
<td>AWS Truepower</td>
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<td>Joe Lefevre</td>
<td>AWS Truepower</td>
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<tr>
<td>Grace Coyle</td>
<td>Baltimore Gas and Electric Company</td>
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<td>John McDaniel</td>
<td>Baltimore Gas and Electric Company</td>
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<td>David Apostol</td>
<td>Commonwealth Edison Company</td>
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<td>Dennis Kelter</td>
<td>Commonwealth Edison Company</td>
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<td>Robert Zacher</td>
<td>Commonwealth Edison Company</td>
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<tr>
<td>Rehan Gilani</td>
<td>ConEdison Energy, Inc.</td>
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<tr>
<td>Guy Filomena</td>
<td>Customized Energy Solutions, Ltd</td>
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<td>Carl Johnson</td>
<td>Customized Energy Solutions, Ltd</td>
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<td>Jonathan Sasser</td>
<td>Customized Energy Solutions, Ltd</td>
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<td>Joseph DeLosa</td>
<td>DE Public Service Commission</td>
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<td>David Hastings</td>
<td>DhapstCo, LLC</td>
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<td>William Coyle</td>
<td>Dominion Virginia Power</td>
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<td>Jeff Matzen</td>
<td>Dominion Virginia Power</td>
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<td>Abhijit Rajan</td>
<td>Dominion Virginia Power</td>
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<td>Karim Siamer</td>
<td>Dominion Virginia Power</td>
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<td>Chuck Dugan</td>
<td>East Kentucky Power Cooperative, Inc.</td>
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<td>Sally Witt</td>
<td>East Kentucky Power Cooperative, Inc.</td>
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<td>Malcolm Ainspan</td>
<td>Energy Curtailment Specialists, Inc.</td>
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<tr>
<td>Sharon Midgley</td>
<td>Exelon Generation Co., LLC</td>
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<tr>
<td>Jim Benchek</td>
<td>FirstEnergy Corporation</td>
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Meeting Minutes - Draft

Martin Bolan
Debbie Kanner
David Marton
Bill Moll
Tom Hyzinski
David Pratzon
Tom Hoatson
Megan Wisersky
Dave Mabry
Zack Heideman
George Kogut
Adrien Ford
Gregory Carmean
Ron Slagel
Leonid Lyakhovich
Stephen Wreschnig
James Wilson

FirstEnergy Corporation
FirstEnergy Corporation
FirstEnergy Corporation
FirstEnergy Corporation
GT Power Group
GT Power Group
LS Power
Madison Gas & Electric Company
Michigan Wallace & Nurick LLC
New York Power Authority
Old Dominion Electric Cooperative
OPSI
Other
Public Service Electric & Gas Company
Public Service Electric & Gas Company
Wilson Energy Economics

PJM Staff
John Reynolds, Chairman
David Anders
Tom Falin
Andrew Gledhill
Bill Khashfe
Amanda Long
Jason Quevada
Patricio Rocha-Garrido
Ken Schuyler
Molly Mooney, Secretary

PJM Interconnection, L.L.C.
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Author: Molly Mooney
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