



**PJM Interconnection
Load Analysis Subcommittee
Minutes of the 303rd Meeting
October 16, 2014**

Participants:

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|----------------------|---------------------------------------|
| Chad Burnett | American Electric Power |
| Randy Holliday | American Electric Power |
| John McDaniel | Baltimore Gas and Electric Company |
| Rehan Gilani | ConEdison Energy, Inc. |
| Dennis Kelter | Commonwealth Edison Company |
| Chelsea Yeager | Commonwealth Edison Company |
| Guy Filomena | Customized Energy Solutions, Ltd |
| David Hastings | DhastCo, LLC |
| Mike Hurd | Dayton Power and Light Company |
| Jonathan Arnold | Deutsche Bank |
| Abhijit Rajan | Dominion Resources |
| Karim Siamer | Dominion Resources |
| Leon Brunson | Duke Energy Ohio, Inc. |
| Oscar Cedeno Mendoza | Duke Energy Ohio, Inc. |
| James Habberfield | Duquesne Light Company |
| Bruce Campbell | Energy Connect, Inc. |
| Rebecca Stadelmeyer | Exelon |
| Robert Snow | FERC |
| Bill Moll | FirstEnergy Solutions Corp. |
| Derek Hagaman | GT Power Group |
| David Mabry | McNees Wallace & Nurick LLC |
| Sunil Maheshwari | NRG Energy |
| Allison Clements | NRDC |
| Rick Alston | Old Dominion Electric Cooperative |
| David Hamilton | Old Dominion Electric Cooperative |
| Kenneth Reif | PPL Electric Utilities Corp. |
| Stephen Wreschnig | Public Service Electric & Gas Company |
| James Wilson | Wilson Energy Economics |



PJM Staff:

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|-------------------------|-----------------------------|
| John Reynolds, Chairman | PJM Interconnection, L.L.C. |
| Bridgid Cummings | PJM Interconnection, L.L.C. |
| Tom Falin | PJM Interconnection, L.L.C. |
| Andrew Gledhill | PJM Interconnection, L.L.C. |
| Jason Quevada | PJM Interconnection, L.L.C. |
| Patricio Rocha-Garrido | PJM Interconnection, L.L.C. |
| Jennifer Warner-Freeman | PJM Interconnection, L.L.C. |
| Molly Mooney, Secretary | PJM Interconnection, L.L.C. |

1. ADMINISTRATIVE

- A. PJM took attendance and asked for any additional agenda items.
- B. The December 5, 2013 meeting minutes were reviewed, marked as final, and will be posted.
- C. Mr. Reynolds reviewed Manual 19 updates clarifying the process of load adjustments in the load forecast.

2. PREPARATION FOR 2015 LOAD FORECAST

Mr. Gledhill reviewed updates to Tables B7 and B11 in the load forecast report. The B7 table will now show DR product types as Limited, Extended Summer, and Annual. The B11 table will show load management detail and Net Internal Demand totals required for NERC reporting. A request was made to clarify the notes on the load management table to state it includes resources cleared in RPM auctions including incremental auctions.

The load forecast adjustments PJM has received to date were reviewed. These adjustments are large load shifts or significant loss of load. The Dominion load adjustment for datacenter growth analysis was updated and will be incorporated in the 2015 Load Forecast. The Dayton request for an adjustment to reflect model over-forecasting will not be incorporated as it does not meet Manual M19 guidelines. PJM is still waiting on a possible load adjustment from BGE.

Mr. Gledhill reviewed the forecast parameters for the 2015 Load Forecast and any changes to data that may be included. A preliminary RTO 2015 forecast was compared to the 2014 forecast with both the impact of a new economic forecast and an additional year of estimation accounting for half of the change.

PJM will continue to monitor any data changes, economic forecast changes, and load adjustment changes and update the model as necessary.



3. SUMMER 2014 PEAK LOADS

Mr. Reynolds reviewed summer 2014 peak loads which showed that none of the peaks met the 10th percentile on the forecast distribution. The heat index on the 2014 peak day was about a 1 in 10 years event on the mild side.

4. PJM LOAD FORECAST MODEL DEVELOPMENT

Mr. Gledhill discussed an ongoing effort to incorporate electric usage trends into the PJM load forecast model. In the 2014 Load Report a new energy forecast based on load factor trends was included. PJM has been working to explicitly incorporate usage trends in the energy models to capture energy efficiency and energy usage behavior. PJM is using data compiled by Itron from Energy Information Administration data. Appliance efficiency and saturation are used to show electric usage trends. This work has resulted in a lower starting point for the energy forecast yet with a slightly higher growth rate.

PJM plans to use this new usage trend model as an alternative energy forecast which would replace the load factor trend method from the 2014 load forecast report. PJM plans to investigate incorporating these usage trend variables in the peak model next year. The preliminary 2015 load forecast will be reviewed at the next LAS meeting.

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