

**Operating Committee**  
**PJM Conference and Training Center**  
**July 7th, 2015**  
**9:00 a.m.**

## Administration

1. OC Agenda for this meeting was approved.
2. Draft Minutes of the June 9<sup>th</sup>, 2015 OC meeting were reviewed and approved.
3. OC Work Plan was reviewed.
4. OC Posting Report Card was reviewed.

## Review of Operations

5. Mr. Pilong reviewed PJM Operations since the last OC Meeting. A summary of May events was reviewed which included 54 PCLLRWs, and 17 high voltage events. The partial June summary included 33 PCLLRWs, 6 high voltage events, several hot weather alerts and a June 22<sup>nd</sup> GMD alert. The details of a major storm occurring June 23<sup>rd</sup> were also shared. The storm mainly impacted eastern PA and NJ, resulting in the tripping of numerous 69kV and 230kV lines causing significant loss of customer load.
6. Mr. Bryson reviewed the PJM Operating Metric Slides.
7. Mr. D'Antonio reviewed 4 recently posted NERC Lessons Learned.
8. There have been no new or updated Closed Loop Interfaces since the last OC.

## OC Subcommittee Updates

9. Mr. Pilong provided a summary of the SOS meeting.
10. Mr. Graff provided a summary of the SIS meeting.
11. The SRCS has not met since the last OC Meeting.

## Manual Endorsements

12. Mr. Nice reviewed changes to Manual 01: Control Center and Data Exchange Requirements. Updates included the removal of status data requirement for fixed-tap transformer (no load) (Section 3.6), addition of a LTC monitoring requirement (Section 3.6), and an additional entry to Appendix B for GMD data submittal. **\*\*The Operating Committee endorsed these changes with 0 objections and 0 abstentions.** Two important notes: 1) the Section 5 reorganization changes presented during the first read were not included in the final endorsed language; 2) a new phasor data storage requirement (Section 3.3.2) was endorsed with the caveat that the minimum storage be reduced from 14 days to 10 days. However, after the OC vote some additional considerations came up, and PJM ultimately decided to remove the new requirement all together (consistent with the previous version).

13. Mr. Pilog reviewed changes to Manual 13: Emergency Operations. The term “Mandatory” was removed from load management procedure names in Section 2.3.2 and 5.2 as these procedures are not mandatory in all situations. Section 5.4 was updated to reference the new PCLLRW eTool. Other changes included revisions to PJM phone number in Attachment D, updates to load shed tables in Attachments E and F based on updated load forecasts, as well as several other administrative changes. **\*\*The Operating Committee endorsed these changes with 0 objections and 0 abstentions.**

## Cold Weather Resource Improvement

14. Mr. Schweizer led a follow up discussion on potential changes to Manual 14D language regarding Cold Weather Resource Improvement process. Four manual language change options were presented for consideration. Rather than voting on options during the meeting, stakeholders decided the best approach would be an online survey to be held before the August OC meeting. Based on survey results, Manual 14D draft language will then be updated, and the draft will then be presented for first read at the August OC meeting.

## PJM Training and Certification Requirements Non-Compliance Problem Statement

15. Mr. Boyle presented a first read of the PJM Training and Certification Requirements Non-Compliance Problem Statement. The goal of the effort is to educate members on compliance requirements, develop options, reach consensus on how to increase compliance, and update Manual 40 with any associated process changes. The effort is expected to take approximately 3 months. **\*\*The Operating Committee will be asked to approve the Problem Statement/Issue Charge at its next meeting.**

## PJM Compliance Obligation and Market Timelines

16. Mr. Keech presented changes to the PJM Day-Ahead Market Timeline in support of new Gas-Electric coordination compliance obligations.

## Manual First Reads

17. Mr. D’Antonio reviewed changes to Manual 37: Reliability Coordination. The changes included several administrative updates. Sections 3.1 and 3.2 were also updated to clarify that IROLs are a subset of SOLs rather than a distinct set of limits, and that PJM controls to the most conservative (applicable) limit. **\*\*The Operating Committee will be asked to endorse these changes at the next Operating Committee meeting.**
18. Mr. Schweizer reviewed changes to Manual M10: Pre-Scheduling Operations. The changes are being proposed based on PJM’s Capacity Performance filing, with intent to provide clarification on generator Maintenance Outages rules. A note was added to Section 2.2.2 referencing that members shall provide PJM with an estimate of time needed to return a Generation Capacity Resource on a Planned Outage that is already underway. Additional notes were added to Section 2.3.2 referencing Maintenance Outage submittal deadlines, and PJM’s authority to rescind approval of Maintenance Outages to ensure adequate operating reserves. **\*\*The Operating Committee will be asked to endorse these changes at the next Operating Committee meeting.**

## Capacity Performance Examples

- Mr. Bryson and Mr. Keech reviewed several Capacity Performance operational scenarios, and associated CP Assessment impacts. A follow up CP training workshop was scheduled for Friday, July 17<sup>th</sup> to continue scenario discussions and to address stakeholder questions.

## Tool and Informational Updates

- Mr. Afelumo provided an update on the on-going security enhancements to PJM Tools.
- Mr. Kuras provided an update on NERC, SERC and RFC standards and other pertinent regulatory and compliance information, and solicited feedback from the members on N&RC efforts. Specifically, an update was provided on IRO-006-EAST-2, IRO-009-2, COM-001-2, and the NERC Glossary of Terms; all of which are currently under development. A list of standards subject to future development, and a timeline for those changes was also provided.
- The GridEx III security exercise topic was deferred until the August OC meeting.
- A number of stakeholder questions were raised after the presentation of the 2015 Winter Report at the June OC. As a result, PJM has posted a list of frequently asked questions, and responses to those questions. Please reference the following link for the [2015 Winter Report FAQs](#).
- Going forward, updates related to the 2013 Hot Weather and 2014 Cold Weather Recommendations will be provided as information-only. Please reference the posted materials for any recent updates on this effort.

## Regulation Performance Impacts Group

Due to time constraints, the Regulation Performance Impacts Group did not meet. The agenda items were deferred until the next scheduled meeting on July 16<sup>th</sup>.

## Future Meeting Dates

August 11, 2015	9:00 am	PJM Conference and Training Center
September 8, 2015	9:00 am	PJM Conference and Training Center
October 6, 2015	9:00 am	PJM Conference and Training Center
November 3, 2015	9:00 am	PJM Conference and Training Center
December 1, 2015	9:00 am	PJM Conference and Training Center

Author: Jeff McLaughlin

## In Attendance (In Person)

Last Name	First Name	Company	Sector
Bryson (Chair)	Mike	PJM Interconnection, LLC	Not Applicable
McLaughlin	Jeffrey	PJM Interconnection, LLC	Not Applicable

(Secretary)			
Benchek	Jim	FirstEnergy Solutions Corporation	Transmission Owner
Borgatti	Michael	Gable and Associates	Not Applicable
Brodbeck	John	Potomac Electric Power Company	Electric Distributor
DiNicola	Laura	FirstEnergy Corporation	Transmission Owner
Fitch	Neal	NRG Power Marketing LLC	Generation Owner
Foladare	Kenneth	IMG Midstream LLC	Generation Owner
Griffiths	Dan	Consumer Advocates of PJM States	Not Applicable
Haas	Howard	Monitoring Analytics, LLC	Not Applicable
Hagaman	Derek	GT Power Group	Transmission Owner
Horstmann	John	Dayton Power & Light Company	Transmission Owner
Johnson	Carl	Customized Energy Solutions, Ltd.*	Not Applicable
Kogut	George	New York Power Authority	Other Supplier
Lieberman	Steven	Old Dominion Electric Cooperative	Electric Distributor
O'Connell	Bob	Main Line Electricity Market Consultants	Not Applicable
Scarp	David	Calpine Energy Services LP	Generation Owner
Stadelmeyer	Rebecca	Exelon Business Services Company, LLC	Transmission Owner
Stewart	Travis	Gable and Associates	Not Applicable
Trayers	Barry	Citigroup Energy, Inc.	Other Supplier
Weaver	David	Exelon	Transmission Owner

### In Attendance (Via Conference Call)

Last Name	First Name	Company	Sector
Ainspan	Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier

Alfayyoumi	Mohammed	Dominion Virginia Power	Not Applicable
Berlinski	Mike	Customized Energy Solutions	Not Applicable
Barker	Jason	Exelon Business Services Company, LLC	
Blackshear	David	Constellation Energy Control and Dispatch, LLC	Other Supplier
Bonner	Charles	Dominion Virginia Power	
Bruce	Susan	McNees Wallace & Nurick LLC	Not Applicable
Campbell	Bruce	EnergyConnect, Inc.	Other Supplier
Carmean	Gregory	OPSI	Not Applicable
Carro	Dan	Dominion Virginia Power	
Citrolo	John	PSEG Energy Resources and Trade LLC	Transmission Owner
Copeland	Doug	EDF Renewable Energy	Other Supplier
Cox	Phil	Appalachian Power Company	Transmission Owner
Czigler	Frank	Public Service Electric & Gas	Transmission Owner
Davis	Beckey	PPL EnergyPlus, L.L.C.	Transmission Owner
Dean	Kevin	McNees Wallace & Nurick LLC	Not Applicable
De Geeter	Ralph	Maryland Public Service Commission	Not Applicable
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Erickson	Bruce	Alleghany Electric Cooperative, Inc.	Electric Distributor
Farber	John		
Filomena	Guy	Customized Energy Solutions, Ltd.*	Not Applicable
Garavaglia	John	Commonwealth Edison Company	Transmission Owner
Gebele	Don	Dayton Power & Light Company	Transmission Owner

Gebolys	Debbie	Other	Not Applicable
Gilani	Rehan	ConEdison Energy, Inc.	Other Supplier
Godson	Gloria	Pepco Holdings	
Gouda	John	Old Dominion Electric Cooperative	Electric Distributor
Greening	Michele	PPL EnergyPlus, L.L.C.	Transmission Owner
Guo	JJ	Appalachian Power Company	Transmission Owner
Gupta	Vinit	ITC Transmission	
Hanebuth	Michele	Rockland Electric Company	Transmission Owner
Hebert	Chris	Beacon Power, LLC	Other Supplier
Heidorn	Rich	RTO Insider	None
Henry	Michelle	First Energy Solutions Corporation	Transmission Owner
Hoatson	Tom	Riverside Generating, LLC	Other Supplier
Hunter	Andy	FirstEnergy Solutions Corporation	Transmission Owner
Jankowski	Chris	Talen Energy Marketing, LLC	Generation Owner
Jardot	Gina	Essential Power LLC	
Johnson	Carl	Customized Energy Solutions, Ltd.*	Not Applicable
Kelley	Steve	Brookfield Energy Marketing LP	Other Supplier
Kumaraswamy	Kiran	AES Energy Storage LLC	Generation Owner
Libbos	Robin	FirstEnergy Solutions Corporation	Transmission Owner
Lowe	Connie	Dominion Virginia Power	Not Applicable
Luna	Joel	Monitoring Analytics, LLC	Not Applicable
Ma	Alex	Invenergy	Generation Owner
Mahler	Dave	Duquesne Light Company	Transmission Owner

Mandell	Juliana		
Markiewicz	Cindy	Allegheny Power	Transmission Owner
Marton	David	FirstEnergy Solutions Corporation	Transmission Owner
Metzler	Jakob	Castleton Commodities Merchant Trading L.P.	Other Supplier
Moraski	John		
Norton	Chris	American Municipal Power, Inc.	Electric Distributor
O'Connor	Siobhan	Energy Authority, Inc.	Other Supplier
O'Leary	Christopher	PSEG Energy Resources and Trade LLC	Transmission Owner
Ondayko	Brock	Appalachain Power Company	Transmission Owner
Ozkan	Deniz	Atlantic Grid Operations A, LLC	Other Supplier
Pakela	Gregory	DTE Energy Supply, Inc.	Other Supplier
Philips	Marji	Direct Energy	Other Supplier
Price	Mark	DC Energy, LLC	Other Supplier
Price	Russell	UGI Utilities, Inc.	Transmission Owner
Riding	MQ	Essential Power, LLC	Transmission Owner
Rutigliano	Tom	Achieving Equilibrium LLC	Other Supplier
Samb	Massamba	Public Service Electric & Gas Company	Transmission Owner
Santarelli	Paul	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Scoglietti	Barbara	Tangent Energy Solutions, Inc.	Other Supplier
Sullivan	James	Neptune Regional Transmission Systems, LLC	Transmission Owner

Summers	Jim	Delmarva Power & Light Company	Electric Distributor
Tatum	Ed	Old Dominion Electric Cooperative	Not Applicable
Wharton	Ronald	Public Service Electric & Gas Company	Transmission Owner
White	Doug	North Carolina Electric Membership Corporation	Electric Distributor
Wilson	James	Wilson Energy Economics	Not Applicable
Wisersky	Megan	Madison Gas & Electric Company	Other Supplier
Yu	Joel	Rockland Electric Company	Transmission Owner

## PJM Attendees

Afelumo	Foluso	PJM Interconnection, LLC	Not Applicable
Anders	Dave	PJM Interconnection, LLC	Not Applicable
Appeah	Joseph	PJM Interconnection, LLC	Not Applicable
Bolan	Martin	PJM Interconnection, LLC	Not Applicable
Boyle	Glen	PJM Interconnection, LLC	Not Applicable
Bruno	Patrick	PJM Interconnection, LLC	Not Applicable
Burdis	Tim	PJM Interconnection, LLC	Not Applicable
Carroll	Rebecca	PJM Interconnection, LLC	Not Applicable
Ciabattoni	Joe	PJM Interconnection, LLC	Not Applicable
D'Antonio	Phil	PJM Interconnection, LLC	Not Applicable
Endress	Eric	PJM Interconnection, LLC	Not Applicable
Fabiano	Janell	PJM Interconnection, LLC	Not Applicable
Fereshetian	Damon	PJM Interconnection, LLC	Not Applicable
Ford	Adrien	PJM Interconnection, LLC	Not Applicable

Graff	Ron	PJM Interconnection, LLC	Not Applicable
Hauske	Tom	PJM Interconnection, LLC	Not Applicable
Heimbach	Mark	PJM Interconnection, LLC	Not Applicable
Hendrzak	Chantal	PJM Interconnection, LLC	Not Applicable
Holland	Risa	PJM Interconnection, LLC	Not Applicable
Hsia	Eric	PJM Interconnection, LLC	Not Applicable
Jani	Alpa	PJM Interconnection, LLC	Not Applicable
Keech	Adam	PJM Interconnection, LLC	Not Applicable
Kenney	Susan	PJM Interconnection, LLC	Not Applicable
Kormos	Mike	PJM Interconnection, LLC	Not Applicable
Kuras	Mark	PJM Interconnection, LLC	Not Applicable
Lee	Ray	PJM Interconnection, LLC	Not Applicable
Martini	Danielle	PJM Interconnection, LLC	Not Applicable
McElwee	Steven	PJM Interconnection, LLC	Not Applicable
Miehlke	Tracy	PJM Interconnection, LLC	Not Applicable
Nice	Ryan	PJM Interconnection, LLC	Not Applicable
Olaleye	Michael	PJM Interconnection, LLC	Not Applicable
Patel	Anita	PJM Interconnection, LLC	Not Applicable
Pilong	Christopher	PJM Interconnection, LLC	Not Applicable
Quintavalla	Ginger	PJM Interconnection, LLC	Not Applicable
Reiter	Heather	PJM Interconnection, LLC	Not Applicable
Schmitt	Jeff	PJM Interconnection, LLC	Not Applicable
Schweizer	David	PJM Interconnection, LLC	Not Applicable

Tam	Simon	PJM Interconnection, LLC	Not Applicable
Weiss	Glenn	PJM Interconnection, LLC	Not Applicable
Williams	Stan	PJM Interconnection, LLC	Not Applicable