

**Operating Committee**  
**PJM Conference and Training Center**  
**May 5th, 2015**  
**9:00 a.m.**

## Administration

1. OC Agenda for this meeting was approved.
2. Draft Minutes of the April 7<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. D'Antonio reviewed PJM Operations since the last Operating Committee (OC) Meeting. The Chalk Point disturbance and Erie area events were reviewed. Demand Response was implemented for the entire PN zone on 4/21 and 4/22 due to the Erie event. Both events will have follow up and lessons learned information available at a later date.
6. Mr. Ciabattoni reviewed two new Closed Loop Interfaces. The ERIE-PN interface was a temporary interface implemented during outage conditions to set LMP for sub-zonal load management. The PENELEC transmission zone is a new interface with no termination date, implemented to set LMP for load management and generation resources.
7. Mr. Bryson will review the PJM Operating Metric Slides. The Operating Committee requested a definition of Tier 1 generation with respect to the Spin Response update.
8. Mr. D'Antonio reviewed the most recent NERC Lessons Learned postings from April 21, 2015.
9. Mr. Lawruk provided an update on the Summer 2015 OATF Study. There were no reliability concerns identified for the Summer 2015 operating period.

## OC Subcommittee Updates

10. Mr. D'Antonio provided a summary of the SOS meeting.
11. Mr. Graff provided a summary of the SIS meeting.
12. The SRCS meets on a bi-monthly basis. There was no SRCS meeting held last month.

## Manual Endorsements

13. Mr. Hatch reviewed changes to Manual 36: System Restoration. Changes to section 3.1.7 and 3.1.8 added detail to when PJM assumes control and when PJM returns to normal operations. Other changes included adding guidance on completion of the Interconnection Checklist and minor updates

to restoration forms. **\*\*The Operating Committee endorsed these changes with 0 objections and 0 abstentions.**

14. Ms. Huang reviewed changes to Manual 03: Transmission Operations. Changes included adding a requirement that load dump rating be at least 3% higher than Emergency rating, modified language for clarity on TO load dump directive response, changes to transfer interface definitions, and several updates to section 5. **\*\*The Operating Committee endorsed these changes with 0 objections and 0 abstentions.**
15. Ms. Huang reviewed changes to Manual 38: Operations Planning. Changes were made to Attachment A (OATF Scope) and Attachment B (Transmission Reliability Analysis Procedure). **\*\*The Operating Committee endorsed these changes with 0 objections and 0 abstentions.**
16. Mr. Bryson discussed recent changes to Manual 39: Nuclear Plant Interface Coordination. **\*\*This update was for informational purposes only.**

## Fast Response Regulation Problem Statement

17. Ms. Martini reviewed the Fast Response Regulation Resources Operational Impact Problem Statement. Mr. Haas of Monitoring Analytics then presented two additional concerns and suggested they be included as part of the Problem Statement. After further discussion, the Operating Committee decided to delay voting on this problem statement to allow time for further investigation and communication. **\*\*The Operating Committee will be asked to approve the Problem Statement/Issue Charge at its next meeting.**

## Black Start Procedures

18. Mr. Hauske provided an update on Black Start Procedures. In accordance with the PJM Tariff, each black start generator's annual revenue requirements are updated in May 2015. The new requirements go into effect on June 1<sup>st</sup>, 2015.

## BAL-003 Update

19. Mr. Hsia provided an update on BAL-003. PJM will continue to monitor and evaluate future NERC & FERC Regulatory Activity and also evaluate a potential PJM Frequency Response Product.

## PJM Compliance Obligation and Market Timelines

20. Mr. Keech reviewed changes to the Gas-Electric timeline. The Final Rule on RM14-2-000 changes the Timely Nomination deadline from 12:30 to 14:00 EPT. Currently PJM's Day Ahead Market results are published at 16:00 EPT and therefore would not provide sufficient notice prior to the deadline for the Timely Nomination Cycle. The Final Rule does not change the deadline for the Evening Nomination Cycle, currently 19:00 EPT. Currently PJM's Reliability Unit Commitment results are published between 18:30 and 20:00 EPT, which does not consistently allow for sufficient notice prior to the deadline for the Evening Nomination Cycle. PJM feels that Tariff and OA changes must be made to be compliant with the new timelines. PJM's compliance filing is due July 23, 2015 and will be discussed at the May MIC and MRC, June MIC and MRC and July MIC.

## CTS Effect on Operations

21. Mr. Bryson discussed CTS effects on Operations. CTS transactions have had no detrimental impacts to PJM Operations, or to non-CTS transactions.

## Preparation for Summer Demand Response

22. Mr. Bryson and Mr. O'Neill discussed Load Management Preparation for Summer 2015.

## Manual First Reads

23. Mr. Ford reviewed changes to Manual 03A: Energy Management System (EMS) Model Updates and Quality Assurance (QA). Changes included adding a new Sub-Transmission and Modeling section (Section 4.9), and combining several sub-sections under Section 5.2. Updates were also made to Appendix A, C and D. \*\*The Operating Committee will be asked to endorse these changes at its next meeting.
24. Mr. Nice reviewed changes to Manual 01: Control Center and Data Exchange Requirements. Changes included a reorganization of Section 5, defining two major data types – System Control and Monitoring (Instantaneous) and Billing (Accumulated). Section 3.3.2 was updated to reflect a new contact email address and data storage requirements for phasor measurement units. The table in Appendix B was also updated to include GeoMagnetic Disturbance (GMD) data submission. \*\*The Operating Committee will be asked to endorse these changes at the July Operating Committee meeting.

## Tool and Informational Updates

25. Mr. Bryson provided an update on the 2013 Hot Weather and 2014 Cold Weather Recommendations.
26. Mr. Kappagantula 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. There are currently several standards under development and several standards now subject to future enforcement.

## Cold Weather Resource Improvement

27. Ms. Reiter led discussions on possible changes to the Cold Weather Resource Improvement process. Possible areas of changes were discussed. Based on stakeholder concerns, a survey will be sent out to assess whether changes are needed or whether the same process should be followed for the 2015/16 Winter.

## Future Meeting Dates

June 9, 2015	9:00 am	PJM Conference and Training Center
July 7, 2015	9:00 am	PJM Conference and Training Center
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: Jeffrey McLaughlin

## In Attendance (In Person)

Last Name	First Name	Company	Sector
Bryson (Chair)	Mike	PJM Interconnection, LLC	Not Applicable
Reiter (Secretary)	Heather	PJM Interconnection, LLC	Not Applicable
Benchek	Jim	FirstEnergy Solutions Corporation	Transmission Owner
Blair	Tom	Monitoring Analytics, LLC	Not Applicable
Borgatti	Michael	Gable and Associates	Not Applicable
Brodbeck	John	Potomac Electric Power Company	Electric Distributor
Brownell	Stanley	Monitoring Analytics, LLC	Not Applicable
Cerchio	Jerry	Monitoring Analytics, LLC	Not Applicable
Fitch	Neal	NRG Power Marketing LLC	Generation Owner
Foladare	Kenneth	IMG Midstream LLC	Generation Owner
Haas	Howard	Monitoring Analytics, LLC	Not Applicable
Hagaman	Derek	GT Power Group	Transmission Owner
Herel	Suzanne	RTO Insider	None
Horstmann	John	Dayton Power & Light Company	Transmission Owner
Jardot	Gina	Essential Power Rock Springs, LLC	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
Pratzon	David	GT Power Group	Not Applicable
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Scarp	David	Calpine Energy Services LP	Generation Owner
Singh	Randhir	PSEG Fossil LLC	Generation Owner
Stadmeyer	Rebecca	Exelon Business Services Company, LLC	Transmission Owner
Stewart	Travis	Gable and Associates	None
Trayers	Barry	Citigroup Energy, Inc.	Other Supplier

## In Attendance (Via Conference Call)

Last Name	First Name	Company	Sector
Berlinski	Mike	Customized Energy Solutions, Inc.	None
Blackshear	David	Constellation Energy Control and Dispatch, LLC	Other Supplier
Bolan	Martin	FirstEnergy Solutions Corporation	Transmission Owner
Campbell	Bruce	EnergyConnect, Inc.	Other Supplier
Carmean	Gregory	OPSI	Not Applicable
Carro	Dan	Dominion Virginia Power	Not Applicable
Citrolo	John	PSEG Energy Resources and Trade LLC	Transmission Owner

Copeland	Doug	Other	None
Cox	Phil	Appalachain Power Company	Transmission Owner
Czigler	Frank	Public Service Electric & Gas	Transmission Owner
Davis	Connie	City of Cleveland, DPU	Electric Distributor
DeLosa	Joe	DE Public Service Commission	Not Applicable
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Erickson	Bruce	Alleghany Electric Cooperative, Inc.	Electric Distributor
Esposito	Pati	Atlantic Grid Operations A, LLC	Other Supplier
Farber	John	DE Public Service Commission	Not Applicable
Filomena	Guy	Customized Energy Solutions, Ltd.*	Not Applicable
Garavaglia	John	Commonwealth Edison Company	Transmission Owner
Gates	Jeff	Alevo Group	Not Applicable
Gebele	Don	Dayton Power & Light Company	Transmission Owner
Gebolys	Debbie	Other	Not Applicable
Gilani	Rehan	ConEdison Energy, Inc.	Other Supplier
Griffiths	Dan	Consumer Advocates of PJM States	Not Applicable
Hanebuth	Michele	Consolidated Edison Company of NY, Inc.	Transmission Owner
Hanes	Spencer	Duke Energy Corporation	Transmission Owner
Hoatson	Tom	Riverside Generating, LLC	Other Supplier
Hunter	Andy	FirstEnergy Solutions Corporation	Transmission Owner
Jones	Ryan	CCS Energy Services	Not Applicable
Kolkmann	Dillon	Federal Energy Regulatory Commission	Not Applicable
Libbos	Robin	FirstEnergy Solutions Corporation	Transmission Owner
Lowe	Connie	Dominion Virginia Power	Not Applicable
Mabry	David	McNees Wallace & Nurick LLC	Not Applicable
Markiewicz	Cindy	Allegheny Power	Transmission Owner
Martin	Valerie	Federal Energy Regulatory Commission	Not Applicable
Meekins	Alan	Virginia Electric & Power Company	Transmission Owner
Metzler	Jakob	Castleton Commodities Merchant Trading L.P.	Other Supplier
Morin	Graham	Johnson Controls, Inc.	Not Applicable
Murray	Charles	Invenergy	Generation Owner
Neubrandner	Kerry	DC Energy Mid-Atlantic, LLC	Other Supplier
O'Connell	Bob	JP Morgan Ventures Energy Corporation	Other Supplier
Ondayko	Brock	Appalachain Power Company	Transmission Owner
Pakela	Gregory	DTE Energy Supply, Inc.	Other Supplier
Pleiss	Robert	Constellation Energy Commodities Group, Inc.	Other Supplier
Price	Mark	DC Energy Mid-Atlantic, LLC	Other Supplier
Price	Russell	UGI Utilities, Inc.	Transmission Owner
Prokop	Brenda	ITC Mid-Atlantic Development LLC	Other Supplier

Rutigliano	Tom	Achieving Equilibrium LLC	Other Supplier
Scoglietti	Barbara	Tangent Energy Solutions, Inc.	Other Supplier
Sillin	John	Federal Energy Regulatory Commission	Not Applicable
Skumanich	Bill	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Summers	Jim	Delmarva Power & Light Company	Electric Distributor
Smyth	Dermot	ConEdison Energy, Inc.	Other Supplier
Weaver	David	PECO Energy Company	Transmission Owner
Webster	John	Icetec Energy Services, Inc.	Other Supplier
Weghorst	Bradley	PPL EnergyPlus, LLC	Transmission Owner
Wharton	Ronald	Public Service Electric & Gas Company	Transmission Owner
White	Doug	North Carolina Electric Membership Corporation	Electric Distributor
Wisersky	Megan	Madison Gas & Electric Company	Other Supplier

## PJM Attendees

Carroll	Rebecca	PJM Interconnection, LLC	Not Applicable
Caven	Augustine	PJM Interconnection, LLC	Not Applicable
Ciabattoni	Joe	PJM Interconnection, LLC	Not Applicable
D'Antonio	Phil	PJM Interconnection, LLC	Not Applicable
Fabiano	Janell	PJM Interconnection, LLC	Not Applicable
Ford	Adrien	PJM Interconnection, LLC	Not Applicable
Ford	Andy	PJM Interconnection, LLC	Not Applicable
Franks	Christine	PJM Interconnection, LLC	Not Applicable
Graff	Ron	PJM Interconnection, LLC	Not Applicable
Hatch	Kevin	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
Hoang	Liem	PJM Interconnection, LLC	Not Applicable
Holland	Risa	PJM Interconnection, LLC	Not Applicable
Hsia	Eric	PJM Interconnection, LLC	Not Applicable
Huang	Nancy	PJM Interconnection, LLC	Not Applicable
Hugee	Jacquelynn	PJM Interconnection, LLC	Not Applicable
Jani	Alpa	PJM Interconnection, LLC	Not Applicable
Keech	Adam	PJM Interconnection, LLC	Not Applicable
Kimmel	David	PJM Interconnection, LLC	Not Applicable
Lawruk	Michael	PJM Interconnection, LLC	Not Applicable
Lee	Ray	PJM Interconnection, LLC	Not Applicable
Martini	Danielle	PJM Interconnection, LLC	Not Applicable
McLaughlin	Jeffrey	PJM Interconnection, LLC	Not Applicable

Morelli	Lisa	PJM Interconnection, LLC	Not Applicable
Schuyler	Ken	PJM Interconnection, LLC	Not Applicable
Schweizer	David	PJM Interconnection, LLC	Not Applicable
Scott	Nicole	PJM Interconnection, LLC	Not Applicable
Smith	Melissa	PJM Interconnection, LLC	Not Applicable
Souder	Dave	PJM Interconnection, LLC	Not Applicable
Tam	Simon	PJM Interconnection, LLC	Not Applicable
Weiss	Glenn	PJM Interconnection, LLC	Not Applicable
Yeager	Leslie	PJM Interconnection, LLC	Not Applicable