

**Operating Committee
PJM Conference and Training Center
March 10th, 2015
9:00 a.m.**

Administration

1. Agenda for this meeting was approved.
2. Draft Minutes of the February 10th, 2015 OC meeting were reviewed and approved.

Review of Operations

3. Mr. Piling reviewed PJM Operations since the last Operating Committee (OC) Meeting. On February 20th, 2015 PJM set a new all-time Winter Peak. No emergency procedures were required other than a Cold Weather Alert.
4. Mr. Piling reviewed the recent NERC Lessons Learned Postings. These postings were from events which occurred outside of PJM but which may have important information for PJM and members.
5. Mr. Bryson reviewed the MC Operations Metrics. Stakeholders requested additional information, which PJM had indicated will be included in the Winter Report and reviewed at the April OC Meeting.

OC Subcommittee Updates

6. Mr. Piling provided a summary of the SOS meeting.
7. Mr. Graff provided a summary of the SIS meeting.

Cold Weather Generation Resource Preparation

8. Mr. Schweizer provided an update of the 2014/2015 Winter Preparation Exercise. Proposed enhancements to the process were reviewed.
9. Ms. Reiter provided an update on next steps on the Cold Weather Generation Resource Preparation. The Operating Committee will hold special OC sessions after the OC meetings to discuss enhancements and additional follow up action items.

Manual Endorsements

10. Ms. Martini reviewed changes to Manual 12 – Balancing Operations. ****The Operating Committee endorsed these changes with 0 objections and 0 abstentions.**

FERC Frequency Response NOPR

11. Mr. Gordon reviewed the FERC Frequency Response NOPR. On February 19, 2015, FERC issued a Notice of Proposed Rulemakings to allow Third Party Provision on Primary Frequency Response Service. PJM is currently evaluating its need to provide comments to this NOPR and is also evaluating the need to develop a Frequency Response product.

NERC ALERT: Governor Response/System Frequency

12. Mr. Gordon reviewed the NERC issued advisory regarding governor response and system frequency. The standard BAL-003-1 (Frequency response and Frequency Bias Setting) has two requirements. Requirement 2 regarding Frequency Bias for BA's is affecting 4/1/15. Requirement 1 states that each BA shall achieve an annual Frequency Response Measure (FRM) that is equal to or more negative than it's Frequency Response Obligation (FRO). This requirement will be effective 4/1/16.

Mr. Schweizer reviewed proposed language for Manual 14-D regarding this topic. There will be changes made to section 7.1.1 – Generator Real Power Control. There will also be a PJM Governor survey taken requesting all governor deadband settings, droop settings, and modes of operation. The surveys will be sent out 4/1/15 with a response required by 5/1/15. They will be sent via eDART.

Tool and Informational Updates

13. Mr. Hislop provided an update on Synchrophasors and their use by PJM in 2015. EIDSN Implementation is expected to be in Q3, 2015. Oscillation Detection algorithms should be implemented by Q2, 2015. For Oscillation Mitigation, procedures and training are being developed and should be in effect by Q4, 2015. Based on the NERC BES Cyber System Categorization, phasors are not expected to be CIP categorized by the end of 2015.
14. Mr. Hislop provided an update on the Emergency Procedures Tool. The current go-live date is 3/30/15 when the current tool will be shut down. In June 2015, phase 2 enhancements are scheduled to be released. Emergency Procedures will still show up on the eDATA page and OASIS; however there will no longer be a link from the eDART SSR page.
15. Ms. Hendrzak provided an update on the 2013 Hot Weather and 2014 Cold Weather Recommendations.
16. Ms. Wesley provided an update on NERC, SERC and RFC standards and other pertinent regulatory and compliance information and solicit feedback from the members on N&RC efforts.

Sub-Transmission Modeling White Paper

17. Mr. Ford presented information on the sub-transmission modeling white paper and related M-3A changes. There will be a manual 3A update targeted for May 2015.

Gas Unit Commitment Coordination

18. Ms. Jani reviewed the 2/23 Intraday Cost Schedule Update Production Implementation. Members have the ability to change the availability of their submitted cost schedules intraday to more accurately reflect the true cost of generation.
19. Ms. Hendrzak reviewed upcoming requirements for the 4/1 Production Changes. Energy Fuel Type/Subtype and Startup Fuel/Subtype fields are required for eMKT UI and XML by April 1, 2015.
20. Ms. Hendrzak provided a status update on Parameter Limited Schedule exception request gas document list and response email verbiage.

21. Ms. Hendrzak reviewed Maximum Notification and Startup Times Issue – Review Problem Statement and History. It was proposed by PJM and the MMU, and agreed to by the stakeholders, that the outstanding scope for the 2012 Startup & Notification Time Issue would be deferred until the FERC rules on Capacity Performance, expected in the April 2015 timeframe. At that time, the original problem statement will be reviewed in light of the FERC ruling and the Operating Committee will determine how best move forward with the outstanding 2012 issue. It is expected this issue will be worked through the OC and the MIC will be kept informed.

Future Meeting Dates

April 7, 2015	9:00 am	PJM Conference and Training Center
May 5, 2015	9:00 am	PJM Conference and Training Center
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

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
Brodbeck	John	Potomac Electric Power Company	Electric Distributor
Fitch	Neal	NRG Power Marketing LLC	Generation Owner
Foladare	Kenneth	IMG Midstream LLC	Generation Owner
Hagaman	Derek	GT Power Group	Transmission Owner
Herel	Suzanne	RTO Insider	None
Johnson	Carl	Customized Energy Solutions, Ltd.*	Not Applicable
Kogut	George	New York Power Authority	Other Supplier
Lieberman	Steven	Old Dominion Electric Cooperative	Electric Distributor
Luna	Joel	Monitoring Analytics, LLC	Not Applicable
Meier	Mariko	EnerNOC, Inc.	Other Supplier
Pratzon	David	GT Power Group	Not Applicable
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Singh	Randhir	PSEG Fossil LLC	Generation Owner
Stadelmeyer	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
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Ainspan	Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Blackshear	David	Constellation Energy Control and Dispatch, LLC	Other Supplier
Bolan	Martin	FirstEnergy Solutions Corporation	Transmission Owner
Bonner	Charles	Dominion Virginia Power	Not Applicable
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
Cox	Edward	Appalachian Power Company	Transmission Owner
Diamant	Martin	PSEG Energy Resources and Trade LLC	Transmission Owner
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Filomena	Guy	Customized Energy Solutions, Ltd.*	Not Applicable
Frelich	Jessica	Integrays Energy Services, Inc.	Other Supplier
Garavaglia	John	Commonwealth Edison Company	Transmission Owner
Gates	Terry	Appalachian Power Company	Transmission Owner
Gebele	Don	Dayton Power & Light Company (The)	Transmission Owner
Gebolys	Debbie	Other	Not Applicable
Gilani	Rehan	ConEdison Energy, Inc.	Other Supplier
Greening	Michele	PPL EnergyPlus, L.L.C.	Transmission Owner
Griffiths	Dan	Consumer Advocates of PJM States	Not Applicable
Hanebuth	Michele	Consolidated Edison Company of NY, Inc. (CE to PS Wheel)	Transmission Owner
Hoatson	Tom	Riverside Generating, LLC	Other Supplier
Horstmann	John	Dayton Power & Light Company (The)	Transmission Owner
Hunter	Andrew	Metropolitan Edison Company	Transmission Owner
Hyzinski	Tom	PPL EnergyPlus, LLC	Transmission Owner
Jardot	Gina	Essential Power Rock Springs, LLC	Transmission Owner
Josyula	Siva	Monitoring Analytics, LLC	Not Applicable
Leonard	Ryan	Iberdrola Renewables, LLC	Generation Owner
Lowe	Connie	Dominion Virginia Power	Not Applicable
Mabry	David	McNees Wallace & Nurick LLC	Not Applicable
Markiewicz	Cindy	Allegheny Power	Transmission Owner
McAlister	Lisa	American Municipal Power, Inc.	Electric Distributor
Mendelsohn	Mark	Noble Americas Gas & Power Corp.	Other Supplier
Metzler	Jakob	Castleton Commodities Merchant Trading L.P.	Other Supplier
Moraski	John	Baltimore Gas and Electric Company (TO)	None
Norton	Chris	American Municipal Power, Inc.	Electric Distributor
Ondayko	Brock	Appalachain Power Company	Transmission Owner
Patten	Kevin	Appalachain Power Company	Transmission Owner

Pleiss	Robert	Constellation Energy Commodities Group, Inc.	Other Supplier
Price	Russell	UGI Utilities, Inc.	Transmission Owner
Rohrbach	John	Southern Maryland Electric Cooperative	Electric Distributor
Santarelli	Paul	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Scarpignato	David	Direct Energy Business, LLC	Other Supplier
Schloendorn	Ron	PECO Energy Company	Transmission Owner
Sillin	John	The Federal Energy Regulatory Commission	Not Applicable
Smith	Jacque	ReliabilityFirst Corporation	Not Applicable
Smyth	Dermot	ConEdison Energy, 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

PJM Attendees

Anders	David	PJM Interconnection, LLC	Not Applicable
Boyle	Glen	PJM Interconnection, LLC	Not Applicable
Ciabattoni	Joe	PJM Interconnection, LLC	Not Applicable
Ford	Andrew	PJM Interconnection, LLC	Not Applicable
Gordon	Brad	PJM Interconnection, LLC	Not Applicable
Graff	Ron	PJM Interconnection, LLC	Not Applicable
Hendrzak	Chantal	PJM Interconnection, LLC	Not Applicable
Hislop	David	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
Martini	Danielle	PJM Interconnection, LLC	Not Applicable
Miehlke	Tracy	PJM Interconnection, LLC	Not Applicable
Olaleye	Michael	PJM Interconnection, LLC	Not Applicable
Pilong	Chris	PJM Interconnection, LLC	Not Applicable
Schweizer	David	PJM Interconnection, LLC	Not Applicable
Stotesbury	Christina	PJM Interconnection, LLC	Not Applicable
Wesley	Cathy	PJM Interconnection, LLC	Not Applicable
Williams	Stanley	PJM Interconnection, LLC	Not Applicable

Author: Heather Reiter