

Planning Committee
PJM Conference and Training Center, Audubon, PA
February 11, 2016

Administration

1. Mr. Steve Herling called the meeting to order and asked if the Planning Committee had any additional items for the agenda. There were no suggestions for additional agenda items.
2. Mr. Herling asked Ms. Bridgid Cummings to review the meeting minutes of the January 7, 2016 Planning Committee meeting. Mr. Herling asked the Planning Committee to approve the minutes. Mr. John Kopinski made a motion to approve the minutes. Mr. David Pratzon seconded the motion. In a voice vote, the Planning Committee approved the January 7th Planning Committee Minutes.

Informational Updates

3. NERC/RRO Update

Mr. Bill Temple provided an update to the Planning Committee on recent NERC activities and PJM compliance activities. The Periodic Review Team voted to retire BAL-005-1 once BAL-006-2 becomes effective and to add sub-requirements to requirements of FAC-001-2. Comments and ballots for on-going standard reviews can be found under the January 7th Planning Committee Material. NERC Standards subject to future enforcement can be found under the January 7th Planning Committee Material at the [Planning Committee Website](#).

4. RTEP Proposal Window Update

Mr. Michael Herman presented an update on the RTEP Proposal Window implementation and communication enhancements. Resources regarding contact information, 2016 RTEP Proposal registration, and Axway registration materials can be found under the January 7th Planning Committee Material at the [Planning Committee Website](#). The files for the 2016 RTEP Proposal Window are preliminary at this time. The proposal windows 2 and 3 will be similar in scope and timeline as those for 2014 and 2015.

5. Order 1000 Lessons Learned

Mr. Frank Koza discussed plans for restarting the Special PC Session, Order 1000 Lessons Learned meetings. The first meeting will be held on February 23, 2016 from 1pm to 3pm at PJM. The initial focus will be to discuss adding transparency to the RTEP proposal process.

6. Sunset Phase Angle Regulator TF and Long Term Firm Transmission Service TF

Mr. Aaron Berner discussed the work of the Phase Angle Regulator Task Force and the Long Term Firm Transmission Service Task Force. Mr. Berner discussed that these groups had accomplished their goals. The two task forces were approved to be sunset. Updates to PJM Manual 14E,

identified as separate from the PARTF requirements, are still being conducted but will be brought to the Planning Committee within the next few meetings.

7. MOD 32 GEN Portal Review

Mr. Jonathan Thompson provided a review of MOD-032-1 and the MOD-032 Gen Portal developed to support compliance. The effective date of MOD-032-1 Requirement 2 is July 1, 2016. The pilot is currently available for use for generation owners looking to gain experience and provide feedback. Any Independent Power Providers are also encouraged to participate in the pilot. Please contact MOD-032@pjm.com with questions and feedback. The Gen Model will open for MOD-032 business for 2016 submissions on May 1, 2016 and will close on July 31, 2016. Sample screen shots of the Gen Portal can be found under the January 7th Planning Committee Material at the [Planning Committee Website](#).

8. CIP 002 and CIP 014 Process

Mr. Tom Kay, Comed, facilitated a discussion of the PJM Assessment Process and Process Timeline related to CIP-002 and CIP-014. PJM staff will develop material to present at the next PC Meeting to continue the discussion.

9. RAAS Update

Mr. Tom Falin provided an update on RAAS Activities. The RAAS discussed the impact of modeling DR in RRS, the load model selection, and world modeling (Capacity Benefit of Ties). The next RAAS meeting will be held on February 23, 2016 to continue to discuss the study assumptions with the intent to bring a recommendation to the PC in April or May. [RAAS website](#)

10. Capacity Performance Update

Mr. Falin facilitated a discussion of CIR determinations and Capacity Factors of Intermittent Resources. The current rules for Capacity Injection Rights, Summer Capacity Verification Tests were discussed. Potential updates to the wind and solar class average reporting and calculation were discussed, items were presented to show differences in determining wind and solar capacity factors based on the median values as opposed to the average values. The handling of UCAP determinations for Run of River Hydro and Landfill Gas units under the Capacity Performance construct was also discussed. PJM staff will conduct further analysis to present at the next PC meeting to continue the discussion of UCAP and CIR Determinations of Intermittent Resources.

11. Local Planning Update

Mr. Paul McGlynn provided an update on Local Planning. An overview of prior discussions of Local Planning in relation to FERC Order 1000, FERC Docket ER15-1344, and Subregional RTEP Committee meetings was provided. Mr. McGlynn noted a draft problem statement was reviewed at the January 28, 2016 MRC Meeting regarding developing PJM Criteria/Guidelines for Assessing End of Life Transmission Facilities.

12. MISO Queue Reform

Mr. Berner presented an update on the MISO Queue Reform. As part of the reform, MISO is splitting their process into 3 phases, as opposed to 2 phases. The proposed queue reform does not align with PJM's calendar for studies and provisions in the process to delay final phase studies for certain conditions may cause schedule shifts. Members are encouraged to attend the MISO/PJM JCM stakeholder meeting on February 18, 2016.

Informational Section

Model On Demand Update

Review of Model on Demand data submittals by TOs is well under way. Upon completion of the data submittals, preliminary cases for the 2016 series of MMWG cases will be put together for base case years 1, 2, 5, and 10 and TOs will be asked to review these cases. The anticipated timeframe for the model builds is the second week in February. For questions or comments, please email MOD@PJM.com

Subcommittee/Task Force Updates

Earlier Queue Submittal Task Force (EQSTF)

At the 1/19 meeting of the EQSTF, PJM provided results from its recent poll which asked stakeholders to indicate their preference for various options for the established design components. The group then moved into package development. At the 2/26 meeting, PJM will present additional education on package implications and present draft Tariff language for discussion. EQSTF website. [EQSTF website](#)

Designated Entity Design Standards Task Force (DEDSTF)

At the 1/21/2016 meeting of the DEDSTF PJM led a discussion about the future organizational direction of the task force. PJM outlined options as had been previously discussed by the group, and worked with members to structure a poll seeking information regarding members thoughts on the organizational direction of the group. The poll opened on 1/25/2016 and will be open through 2/5/2016. The next meeting of the DEDSTF is 2/23/2016, at which PJM will share the results of the poll.

[DEDSTF website](#)

Future Meeting Dates

March 10, 2016	9:30 a.m.	PJM Conference and Training Center, Audubon, PA
April 7, 2016	9:30 a.m.	PJM Conference and Training Center, Audubon, PA
May 12, 2016	9:30 a.m.	PJM Conference and Training Center, Audubon, PA
June 9, 2016	9:30 a.m.	PJM Conference and Training Center, Audubon, PA
July 14, 2016	9:30 a.m.	PJM Conference and Training Center, Audubon, PA
August 11, 2016	9:30 a.m.	PJM Conference and Training Center, Audubon, PA
September 15, 2016	9:30 a.m.	PJM Conference and Training Center, Audubon, PA
October 6, 2016	9:30 a.m.	PJM Conference and Training Center, Audubon, PA
November 3, 2016	9:30 a.m.	PJM Conference and Training Center, Audubon, PA
December 15, 2016	9:30 a.m.	PJM Conference and Training Center, Audubon, PA

Author: Bridgid Cummings

Attendees

Attendees	Company	Sector
Steve Herling (Chair)	PJM Interconnection, LLC	Not Applicable
Bridgid Cummings (Secretary)	PJM Interconnection, LLC	Not Applicable
Thomas Rutigliano	Achieving Equilibrium	Not Applicable
Nicolas Koehler	AEP Indiana-Michigan Transmission Company, Inc.	Transmission Owner
Jerod Marker	AEP Indiana-Michigan Transmission Company, Inc.	Transmission Owner
Rebecca Schwarz	AEP Ohio Transmission Company, Inc.	Transmission Owner
Sean Black	Ameren Corporation	Not Applicable
Toby Hu	Ameren Corporation	Not Applicable
Kiran Thammineni	Ameren Corporation	Not Applicable
Lisa McAlister	American Municipal Power, Inc.	Electric Distributor
Chris Norton	American Municipal Power, Inc.	Electric Distributor
Edward Tatum	American Municipal Power, Inc.	Electric Distributor
Dale Burmester	American Transmission Company, LLC	Not Applicable
Chris Hagman	American Transmission Company, LLC	Not Applicable
Gary Fuerst	American Transmission Systems, Inc.	Transmission Owner
Jim Zweig	American Transmission Systems, Inc.	Transmission Owner
Brock Ondayko	Appalachian Power Company	Transmission Owner
Kevin Patten	Appalachian Power Company	Transmission Owner
Takis Laios	Appalachian Power Company	Transmission Owner
Craig Lockwood	Appalachian Power Company	Transmission Owner
David Bloom	Baltimore Gas and Electric Company	Transmission Owner
Hugh Scott	Baltimore Gas and Electric Company	Transmission Owner
Ron Pezon	Borough of Chambersburg	Electric Distributor
Travis Bouslog	Burns McDonnell	Not Applicable
David Scarpignato	Calpine Energy Services, L.P.	Generation Owner
Tom Hoatson	Carroll County Energy LLC	Other Supplier
Michael Natrin	Carroll County Energy LLC	Other Supplier
Barry Trayers	Citigroup Energy, Inc.	Other Supplier
Connie Davis	City of Cleveland, DPU, Div of Cleveland Public Pwr	Electric Distributor
William Allen	Commonwealth Edison Company	Transmission Owner
Thomas Kay	Commonwealth Edison Company	Transmission Owner
Thomas Leeming	Commonwealth Edison Company	Transmission Owner
Paul Mills	Commonwealth Edison Company	Transmission Owner
Ronald Regner	Commonwealth Edison Company	Transmission Owner
Jason Barker	Constellation NewEnergy, Inc	Transmission Owner
Dan Griffiths	Consumer Advocates of PJM States	Not Applicable

Jamie Lejcar	CPS Energy	Electric Distributor
Guy Filomena	Customized Energy Solutions, Ltd.*	Not Applicable
Carl Johnson	Customized Energy Solutions, Ltd.*	Not Applicable
Jonathan Sasser	Customized Energy Solutions, Ltd.*	Not Applicable
John Horstmann	Dayton Power & Light Company (The)	Transmission Owner
Mike Hurd	Dayton Power & Light Company (The)	Transmission Owner
Joseph DeLosa	DE Public Service Commission	Not Applicable
John Farber	DE Public Service Commission	Not Applicable
Jaclyn Cantler	Delmarva Power & Light Company	Electric Distributor
David Hastings	Dhast Co	Not Applicable
Janhavi Dharmadhikari	Dominion Energy Marketing, Inc.	Generation Owner
Ronnie Bailey	Dominion Virginia Power	Transmission Owner
Craig Crider	Dominion Virginia Power	Transmission Owner
Kyle Hannah	Dominion Virginia Power	Transmission Owner
Linda Haskins	Dominion Virginia Power	Transmission Owner
Bao Pham	Dominion Virginia Power	Transmission Owner
Frank Zhang	Dominion Virginia Power	Transmission Owner
George Owens	Downes Associates, Inc.	Other Supplier
Greg Pakela	DTE Energy Trading, Inc.	Other Supplier
Steve Steinkuhl	Duke Energy Business Services LLC	Transmission Owner
Judy Stubbe	Duke Energy Ohio, Inc.	Transmission Owner
Chad Hirsh	Duquesne Light Company	Transmission Owner
Iker Chocarro	E.on Climate & Renewables North America, Inc	Generation Owner
Chris Adams	East Kentucky Power Cooperative, Inc.	Transmission Owner
Darrin Adams	East Kentucky Power Cooperative, Inc.	Transmission Owner
Nathan Bradley	East Kentucky Power Cooperative, Inc.	Transmission Owner
Chuck Dugan	East Kentucky Power Cooperative, Inc.	Transmission Owner
Wes Fluty	East Kentucky Power Cooperative, Inc.	Transmission Owner
Karen Onaran	Edison Electric Institute	Not Applicable
Justin Campbell	Edison Transmission, LLC	Other Supplier
Kevin Kilgallen	Emerald Energy Consulting, LLC	Not Applicable
Bruce Campbell	EnergyConnect, Inc.	Other Supplier
Andrew Tan	Eversource	Not Applicable
Jason Barker	Exelon Business Services Company, LLC	Transmission Owner
Melanie Sanders	Exelon Business Services Company, LLC	Transmission Owner
Sharon Midgley	Exelon Generation Co., LLC	Generation Owner
Shadrack Orero	Exelon Generation Co., LLC	Generation Owner
Roozbeh Shegarfi	Exelon Generation Co., LLC	Generation Owner
Nicole Buell	Federal Energy Regulatory Commission (The)	Not Applicable
Alina Halay	Federal Energy Regulatory Commission (The)	Not Applicable

Thomas Bainbridge	FirstEnergy Solutions Corp.	Transmission Owner
Jim Benchek	FirstEnergy Solutions Corp.	Transmission Owner
Martin Bolan	FirstEnergy Solutions Corp.	Transmission Owner
Lou D'Alessandris	FirstEnergy Solutions Corp.	Transmission Owner
David Marton	FirstEnergy Solutions Corp.	Transmission Owner
Jon Schneider	FirstEnergy Solutions Corp.	Transmission Owner
Jeff Stuchell	FirstEnergy Solutions Corp.	Transmission Owner
John Syner	FirstEnergy Solutions Corp.	Transmission Owner
Trent Carlson	Gridliance, GP, LLC	Not Applicable
Jody Holland	Gridliance, GP, LLC	Not Applicable
Rachel Hulett	Gridliance, GP, LLC	Not Applicable
Norman Williams	Gridliance, GP, LLC	Not Applicable
Derek Hagaman	GT Power Group	Not Applicable
David Pratzon	GT Power Group	Not Applicable
Tom Shields	Iberdrola Renewables, LLC	Generation Owner
Kenneth Foadare	IMG Midstream LLC	Generation Owner
Kaustubh Deshmukh	ITC Holdings	Not Applicable
John Kopinski	ITC Mid-Atlantic Development LLC	Other Supplier
Brenda Prokop	ITC Mid-Atlantic Development LLC	Other Supplier
Sandeep Baidwan	LS Power Transmission, LLC	Transmission Owner
Robert O'Connell	Main Line Electricity Market Consultants	Not Applicable
Heather Thomson	Marec	Not Applicable
David Mabry	McNees Wallace & Nurick LLC	Not Applicable
Erik Hanser	Michigan Public Service Commission	Not Applicable
Adam Solomon	Midwest Independent Transmission System Operator, Inc.	Not Applicable
Christin Domian	Mitsubishi Electric Power Products Inc.	Not Applicable
Arah Nezam Sarmadi	New England Power Company	Not Applicable
George Kogut	New York Power Authority	Other Supplier
David Davis	NextEra Energy Power Marketing, LLC	Generation Owner
Frederico Von Pinho	NextEra Energy Transmission, LLC	Other Supplier
James Manning	North Carolina Electric Membership Corporation	Electric Distributor
Miles Taylor	Northern Indiana Public Service Company	Other Supplier
Neal Fitch	NRG Power Marketing LLC	Generation Owner
Yohannes Mariam	Office of the Peoples Counsel for the D.C.	End User Customer
John Donelson	Old Dominion Electric Cooperative	Electric Distributor
John Gouda	Old Dominion Electric Cooperative	Electric Distributor
Steven Lieberman	Old Dominion Electric Cooperative	Electric Distributor
Gregory Carmean	OPSI	Not Applicable
Mike Donnelly	PECO Energy Company	Transmission Owner
Dhruv Acharya	PEPCO Holdings, Inc.	Transmission Owner



Draft Minutes

Gloria Godson	PEPCO Holdings, Inc.	Transmission Owner
Dave Anders	PJM Interconnection, LLC	Not Applicable
Jerry Bell	PJM Interconnection, LLC	Not Applicable
Aaron Berner	PJM Interconnection, LLC	Not Applicable
Janell Fabiano	PJM Interconnection, LLC	Not Applicable
Tom Falin	PJM Interconnection, LLC	Not Applicable
Pauline Foley	PJM Interconnection, LLC	Not Applicable
Suzanne Glatz	PJM Interconnection, LLC	Not Applicable
Andrew Gledhill	PJM Interconnection, LLC	Not Applicable
Jim Glennon	PJM Interconnection, LLC	Not Applicable
Michael Herman	PJM Interconnection, LLC	Not Applicable
Bradley Hofferkamp	PJM Interconnection, LLC	Not Applicable
Frank Koza Jr.	PJM Interconnection, LLC	Not Applicable
Chuck Liebold	PJM Interconnection, LLC	Not Applicable
Erich Mauroschadt	PJM Interconnection, LLC	Not Applicable
Melissa Maxwell	PJM Interconnection, LLC	Not Applicable
Susan McGill	PJM Interconnection, LLC	Not Applicable
Paul McGlynn	PJM Interconnection, LLC	Not Applicable
Raul Perez	PJM Interconnection, LLC	Not Applicable
Dave Pomian	PJM Interconnection, LLC	Not Applicable
Jason Quevada	PJM Interconnection, LLC	Not Applicable
John Reynolds	PJM Interconnection, LLC	Not Applicable
Patricio Rocha Garrido	PJM Interconnection, LLC	Not Applicable
Ken Seiler	PJM Interconnection, LLC	Not Applicable
Mark Sims	PJM Interconnection, LLC	Not Applicable
William Temple	PJM Interconnection, LLC	Not Applicable
Amber Thomas	PJM Interconnection, LLC	Not Applicable
Mike Ward	PJM Interconnection, LLC	Not Applicable
Glenn Weiss	PJM Interconnection, LLC	Not Applicable
Scott Gass	PowerGEM	Not Applicable
David Gladey	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Frank Richardson	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Gary Greiner	PSEG Energy Resources and Trade LLC	Other Supplier
Mohamed Zahidi	PSEG Energy Resources and Trade LLC	Transmission Owner
Vilna Gastong	Public Service Electric & Gas	Transmission Owner
James Caristia	Public Service Electric & Gas Company	Transmission Owner
Kathleen Crowley	Public Service Electric & Gas Company	Transmission Owner
Elizabeth Gostkowski	Public Service Electric & Gas Company	Transmission Owner
Daniel Hutt	Public Service Electric & Gas Company	Transmission Owner
Esam Khadr	Public Service Electric & Gas Company	Transmission Owner

Leonid Lyakhovich	Public Service Electric & Gas Company	Transmission Owner
Rich Marinelli	Public Service Electric & Gas Company	Transmission Owner
Jerry Martinez	Public Service Electric & Gas Company	Transmission Owner
MD Sakib	Public Service Electric & Gas Company	Transmission Owner
Massamba Samb	Public Service Electric & Gas Company	Transmission Owner
Glenn Catenacci	Public Service Electric and Gas	Transmission Owner
Debbie Gebolys	Public Utilities Commission of Ohio (The)	Not Applicable
Roleto Mangonon	Rockland Electric Company	Transmission Owner
Suzanne Herel	RTO Insider	Not Applicable
Andy Peebles	Shell Energy North America (US), LP	Other Supplier
Carla Engalla	Smart Wires	Not Applicable
Todd Ryan	Smart Wires	Not Applicable
Jack Halpern	Stantec	Not Applicable
Becky Davis	Talen Energy Marketing, LLC	Generation Owner
Michele Greening	Talen Energy Marketing, LLC	Generation Owner
Barbara Scoglietti	Tangent Energy Solutions, Inc.	Other Supplier
Boone Staples	Tenaska Power Services Co	Generation Owner
Pati Esposito-Hils	TransCanada Power Marketing Ltd.	Other Supplier
Chandana Bommareddy	TRC Solutions	Not Applicable
Eric Sorber	UGI Utilities, Inc.	Transmission Owner
Pat Hayes	Union Electric Company d/b/a Ameren Missouri	Other Supplier
Adam Weber	Union Electric Company d/b/a Ameren Missouri	Other Supplier
David Essah	Virginia State Corporation Commission	Not Applicable
Steve Chafin	Virginia Electric & Power Company	Transmission Owner
James Wilson	Wilson Energy Economics	Not Applicable
Mike Jacobs	Xtreme Power	Not Applicable