

Planning Committee
PJM Conference and Training Center, Audubon, PA
March 9, 2017

Administration

1. Mr. Steve Herling, PJM, 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. Copies of the RTEP16 Report were available, it is also available online: <http://www.pjm.com/library/reports-notices/rtep-documents.aspx>
2. Mr. Herling asked Ms. Bridgid Cummings to review the meeting minutes of the February 9, 2017 Planning Committee meeting. Mr. Herling asked the Planning Committee to approve the minutes. Mr. Carl Johnson made a motion to approve the minutes. Mr. John Kopinski seconded the motion. In a voice vote, the Planning Committee approved the February 9, 2017 Planning Committee Minutes.

First Readings

3. **Manual 14B Update for Remedial Action Scheme**

Mr. Mike Herman, PJM, presented red-line changes to Manual 14B (PJM Region Transmission Planning Process) related to Baseline Thermal Analysis, PRC-023 requirements, and references to SPS (Special Protection System) changed to RAS (Remedial Action Scheme). Additional red-line changes will be posted regarding the handling of energy efficiency; this change is being made to reflect current practices given approval of the energy and saturation variables in the long term load forecast (11/2015). This will be brought to the next Planning Committee meeting for endorsement.

4. **PJM Manual 14F**

Mr. Herman, PJM, reviewed the proposed draft of Manual 14F (PJM Competitive Planning Process Manual). This manual will be brought to the next Planning Committee meeting as a first read, but members are strongly encouraged to provide feedback prior to the April meeting. Ms. Christina Catalano, PJM, reviewed the Decisional Process Map. Members are asked to please provide feedback and recommendations in regards to this as well.

Informational Updates

5. **TEAC Redesign Update**

Ms. Amanda Long, PJM, reviewed the TEAC Redesign efforts. The Tech Change Forum Community Tool, using the same technology as the Planning Community, will be rolled out at the Tech Change Forum on March 21st and 22nd. External users may begin to receive automated responses from the Planning Community Tool in response to submitted questions to RTEP@pjm.com and other planning email addresses.

6. DEDSTF Update

Mr. Herman, PJM, provided an update on the work being addressed by the DEDSTF (Designated Entity Design Standards Task Force). The standards, developed in sub-groups, are being combined into a single document which will be brought to the PC for a first read in April.

7. MOD-032 Documentation Review

Mr. Jonathan Thompson, PJM, provided an update on MOD-032, the schedule for Transmission Owners, and 2017 activity related to the Gen Model tool. Mr. Thompson also reviewed changes to the MOD-032 documentation. The document is available on the [PC Website](#) under the March 9th meeting materials.

8. Geomagnetic Disturbance Update

Mr. Stanley Sliwa, PJM, provided an update of the TPL-007-1 Standard related to Transmission System Planned Performance for Geomagnetic Disturbance Events. There was a review of the implementation schedule and the vulnerability assessment process. Mr. Sliwa also reviewed each of the requirements and expected deadlines for each.

9. Winter Season Resource Adequacy and Capacity Requirements

Mr. Tom Falin, PJM, provided an update on winter season resource adequacy analysis. He reviewed that there are three key work activities: winter peak load forecasting; winter season resource adequacy; and winter season reliability requirements. Analysis will be coordinated through the Planning Committee and the Resource Adequacy Analysis Subcommittee. The next RAAS meeting is March 31, 2017 from 2pm to 4pm.

10. Generator Interconnection NOPR Update

Mr. Dave Egan, PJM, provided an update regarding the Generator Interconnection Notice of Proposed Rulemaking. A one month extension was granted for responses to the NOPR and PJM will be providing a response by the April 13th deadline.

11. NERC/RRO Update

Mr. Preston Walker, PJM, provided an update on recent NERC activities and PJM compliance activities. NERC standards subject to future enforcement can be found under the March 9th Planning Committee Material at the [Planning Committee Website](#). You can also reach out to Preston at Preston.Walker@pjm.com if there are any further questions.

12. COMED Planning Criteria

Mr. John Garavaglia, COMED, provided a summary of the updates to the COMED Planning Criteria.

13. Upcoming Planning Committee Items

Mr. Mark Sims, PJM, discussed a few items which will be considered for discussion in upcoming Planning Committee meetings. Those include new CETLs for NY Imports and Light Load Reliability Analysis methodology updates, and efforts related to Resilience. PJM welcomes the recommendation of additional topics, please email RTEP@pjm.com with any additional suggestions.

Informational Section

Order 1000 Update

No Special PC Sessions on Order 1000 Lessons Learned are presently scheduled. Work continues on TEAC Redesign, RTEP schedule, and Manual 14F (Competitive Planning). Discussions will be held at the Planning Committee as necessary.

Future Meeting Dates

Date	Time	Topic	Location
March 30, 2017	9:30 a.m.	Special PC Session: New Service Request Study Methods	Webex
April 13, 2017	9:30 a.m.	Planning Committee	PJM Conference and Training Center, Audubon, PA
May 4, 2017	9:30 a.m.	Planning Committee	PJM Conference and Training Center, Audubon, PA
June 8, 2017	9:30 a.m.	Planning Committee	PJM Conference and Training Center, Audubon, PA
July 13, 2017	9:30 a.m.	Planning Committee	PJM Conference and Training Center, Audubon, PA
August 10, 2017	9:30 a.m.	Planning Committee	PJM Conference and Training Center, Audubon, PA
September 14, 2017	9:30 a.m.	Planning Committee	PJM Conference and Training Center, Audubon, PA
October 12, 2017	9:30 a.m.	Planning Committee	PJM Conference and Training Center, Audubon, PA
November 9, 2017	9:30 a.m.	Planning Committee	PJM Conference and Training Center, Audubon, PA
December 14, 2017	9:30 a.m.	Planning Committee	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
Rukiye Altun	ABB	Not Applicable
Lynn Sarvis	ABB	Not Applicable
Nicolas Koehler	AEP Indiana-Michigan Transmission Company, Inc.	Transmission Owner
Jerod Marker	AEP Indiana-Michigan Transmission Company, Inc.	Transmission Owner
Brian Swain	AEP Indiana-Michigan Transmission Company, Inc.	Transmission Owner
Steven Lieberman	American Municipal Power, Inc.	Electric Distributor
Gary Fuerst	American Transmission Systems, Inc.	Transmission Owner
Jim Zweig	American Transmission Systems, Inc.	Transmission Owner
Krista Keene	Amtrak	Not Applicable
RJ Cundiff	Appalachian Power Company	Transmission Owner
Brock Ondayko	Appalachian Power Company	Transmission Owner
Kevin Patten	Appalachian Power Company	Transmission Owner
Evan Wilcox	Appalachian Power Company	Transmission Owner
Kamran Ali	Appalachian Power Company	Transmission Owner
Jeff Barsch	Appalachian Power Company	Transmission Owner

Ryan Dolan	Appalachian Power Company	Transmission Owner
Takis Laios	Appalachian Power Company	Transmission Owner
Jasmine Moore	Appalachian Power Company	Transmission Owner
Dave Parrish	Appalachian Power Company	Transmission Owner
Sharlene Rivera-Gonzalez	Appalachian Power Company	Transmission Owner
Pete Selent	Appalachian Power Company	Transmission Owner
Zhenhua Wang	Appalachian Power Company	Transmission Owner
Craig Lockwood	Appalachian Power Company	Transmission Owner
Hugh Scott	Baltimore Gas and Electric Company	Transmission Owner
Eric Yeh	Baltimore Gas and Electric Company	Transmission Owner
Ron Pezon	Borough of Chambersburg	Electric Distributor
Tom Hoatson	Carroll County Energy LLC	Other Supplier
Michael Natrin	Carroll County Energy LLC	Other Supplier
Barry Trayers	Citigroup Energy, Inc.	Other Supplier
William Allen	Commonwealth Edison Company	Transmission Owner
Alan Engelmann	Commonwealth Edison Company	Transmission Owner
John Garavaglia	Commonwealth Edison Company	Transmission Owner
Paul Mills	Commonwealth Edison Company	Transmission Owner
Ronald Regner	Commonwealth Edison Company	Transmission Owner
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
Michael Russ	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
Craig Crider	Dominion Virginia Power	Transmission Owner
Jeff Currier	Dominion Virginia Power	Not Applicable
Kyle Hannah	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
Bob Burner	Duke Energy Business Services LLC	Transmission Owner
Steve Steinkuhl	Duke Energy Business Services LLC	Transmission Owner
Julie Mason	Duke Energy Ohio, Inc.	Transmission Owner
Judy Stubbe	Duke Energy Ohio, Inc.	Transmission Owner
Elizabeth Cook	Duquesne Light Company	Transmission Owner
Chad Hirsh	Duquesne Light Company	Transmission Owner
Chirag Mehta	Durable Power	Not Applicable
Thomas Rutigliano	Earth Networks	Other Supplier
Nathan Bradley	East Kentucky Power Cooperative, Inc.	Transmission Owner
Chuck Dugan	East Kentucky Power Cooperative, Inc.	Transmission Owner
Scott Sells	East Kentucky Power Cooperative, Inc.	Transmission Owner
Amanda Stacy	East Kentucky Power Cooperative, Inc.	Transmission Owner

Malcolm Ainspan	Energy Curtailment Specialists, Inc.	Not Applicable
Nick Gangi	Eversource Energy	Not Applicable
Kevin Thundiyil	Exelon Business Services Company, LLC	Transmission Owner
Becky Webb	Exelon Business Services Company, LLC	Transmission Owner
Jeffrey Yuknis	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
Dave Kozy	FirstEnergy Corporation	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
John Syner	FirstEnergy Solutions Corp.	Transmission Owner
Travis Stewart	Gabel and Associates	Not Applicable
Rachel Hulett	Gridliance, GP, LLC	Not Applicable
Derek Hagaman	GT Power Group	Not Applicable
Roy Shanker	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Jim Nash	Hudson Transmission Partners, LLC	Other Supplier
Kenneth Foladare	IMG Midstream LLC	Generation Owner
Joe Staszowski	ISO New England	Not Applicable
Brenda Prokop	ITC Interconnect	Transmission Owner
John Kopinski	ITC Mid-Atlantic Development LLC	Other Supplier
John Seelke	LS Power Transmission, LLC	Transmission Owner
Robert O'Connell	Main Line Electricity Market Consultants	Not Applicable
Heather Thomson	Marec	Not Applicable
Bill Fields	Maryland Public Service Commission	Not Applicable
David Mabry	McNees Wallace & Nurick LLC	Not Applicable
Erik Hanser	Michigan Public Service Commission	Not Applicable
Christin Domian	Mitsubishi Electric Power Products Inc.	Not Applicable
John Dadourian	Monitoring Analytics	Not Applicable
Zach Gill Sanford	Navigant	Not Applicable
Douglas Dickson	New Jersey Board of Public Utilities	Not Applicable
George Kogut	New York Power Authority	Other Supplier
David Davis	NextEra Energy Power Marketing, LLC	Generation Owner
Gabriel Hollis	Nextera Energy, Inc	Other Supplier
Pavan Sajja	NISource	Not Applicable
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
Gregory Carmean	OPSI	Not Applicable
Mike Donnelly	PECO Energy Company	Transmission Owner
Pulin Shah	PECO Energy Company	Transmission Owner
Dhruv Acharya	PEPCO Holdings, Inc.	Transmission Owner
Eric Borden	PEPCO Holdings, Inc.	Transmission Owner
Patricia Kurowski	PEPCO Holdings, Inc.	Transmission Owner

Amber Young	PEPCO Holdings, Inc.	Transmission Owner
Fran Barrett	PJM Interconnection, LLC	Not Applicable
Michael Black	PJM Interconnection, LLC	Not Applicable
Rebecca Carroll	PJM Interconnection, LLC	Not Applicable
Christina Catalano	PJM Interconnection, LLC	Not Applicable
Jason Connell	PJM Interconnection, LLC	Not Applicable
Mary Ellen Driscoll	PJM Interconnection, LLC	Not Applicable
Ilyana Dropkin	PJM Interconnection, LLC	Not Applicable
David Egan	PJM Interconnection, LLC	Not Applicable
Tom Falin	PJM Interconnection, LLC	Not Applicable
Zhenyu Fan	PJM Interconnection, LLC	Not Applicable
Lawrence Farmer	PJM Interconnection, LLC	Not Applicable
Anisha Fernandes	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
Chantal Hendrzak	PJM Interconnection, LLC	Not Applicable
Eric Hsia	PJM Interconnection, LLC	Not Applicable
Frank Koza Jr.	PJM Interconnection, LLC	Not Applicable
Matthew LaRocque	PJM Interconnection, LLC	Not Applicable
Chuck Liebold	PJM Interconnection, LLC	Not Applicable
Jeremy Lin	PJM Interconnection, LLC	Not Applicable
Amanda Long	PJM Interconnection, LLC	Not Applicable
Paul McGlynn	PJM Interconnection, LLC	Not Applicable
Molly Mooney	PJM Interconnection, LLC	Not Applicable
John Reynolds	PJM Interconnection, LLC	Not Applicable
Patricio Rocha Garrido	PJM Interconnection, LLC	Not Applicable
Jason Shoemaker	PJM Interconnection, LLC	Not Applicable
Stan Sliwa	PJM Interconnection, LLC	Not Applicable
Mark Sims	PJM Interconnection, LLC	Not Applicable
Mike Ward	PJM Interconnection, LLC	Not Applicable
Glenn Weiss	PJM Interconnection, LLC	Not Applicable
Tom Butz	Power System Engineering	Not Applicable
Scott Gass	PowerGEM	Not Applicable
Shadab Ali	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Michele Greening	PPL Electric Utilities Corp. dba PPL Utilities	Generation Owner
Steven Nadel	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Phil Penney	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Sam Giordano	PSEG Energy Resources and Trade LLC	Transmission Owner
Gary Greiner	PSEG Energy Resources and Trade LLC	Transmission Owner
William Lavista	PSEG Energy Resources and Trade LLC	Transmission Owner
Mark Marsan	PSEG Energy Resources and Trade LLC	Transmission Owner
Vilna Gaston	Public Service Electric & Gas	Transmission Owner
James Caristia	Public Service Electric & Gas Company	Transmission Owner
Esam Khadr	Public Service Electric & Gas Company	Transmission Owner

William Lamanna	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
John Nagurney	Public Service Electric & Gas Company	Transmission Owner
Greg Player	Public Service Electric & Gas Company	Transmission Owner
Alexander Stern	Public Service Electric & Gas Company	Transmission Owner
Debbie Gebolys	Public Utilities Commission of Ohio (The)	Not Applicable
Chandana Bommareddy	Quanta Technology	Not Applicable
Ray Mason	Reliability First	Not Applicable
Roleto Mangonon	Rockland Electric Company	Transmission Owner
Joel Yu	Rockland Electric Company	Transmission Owner
Felicia Thomas-Friel	RPA - New Jersey	Not Applicable
Andy Peebles	Shell Energy North America (US), LP	Other Supplier
Jennifer Hohenshilt	Talen Energy Marketing, LLC	Generation Owner
Syed Ahmad	The Federal Energy Regulatory Commission	Not Applicable
Vince DeGiusto	UGI Utilities, Inc.	Transmission Owner
Adam Weber	Union Electric Company d/b/a Ameren Missouri	Other Supplier
James Wilson	Wilson Energy Economics	Not Applicable