

Planning Committee
PJM Conference and Training Center, Audubon, PA
December 15, 2016

Administration

1. Mr. Paul McGlynn, 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.
2. Mr. McGlynn asked Ms. Bridgid Cummings to review the meeting minutes of the November 3, 2016 Planning Committee meeting. Mr. McGlynn asked the Planning Committee to approve the minutes. Mr. Dave Pratzon made a motion to approve the minutes. Mr. Carl Johnson seconded the motion. In a voice vote, the Planning Committee approved the November 3 Planning Committee Minutes.

Endorsements/Approvals

3. PJM Manual 14C Updates

Mr. Jason Shoemaker, PJM, presented changes to Section 6.1.6 of Manual 14C (Generation and Transmission Interconnection Facility Construction). Based on feedback concerning legal processes timing in M14C, this item will be taken back for internal discussion with PJM Legal regarding alternate location for documentation of legal agreement filing process.

First Readings

4. Transmission and Substation Subcommittee (TSS) Charter Revisions

Mr. Ray Rouault, TSS Chairman, presented modifications to the TSS Charter regarding EHV/Bulk Equipment Record and the bulk transformer failure tracking sheet. This will be brought to the next Planning Committee meeting for endorsement.

Informational Updates

5. NERC/RRO Update

Mr. Srinivas Kappagantula, PJM, provided an update on recent NERC activities and PJM compliance activities. NERC standards subject to future enforcement can be found under the December 15 Planning Committee Material at the [Planning Committee Website](#).

Mr. Srinivas Kappagantula also informed the Planning Committee that the TOA-AC approved the TO/TOP Matrix V10, effective January 1, 2017 and that it has been posted on the PJM website at the following link: <http://pjm.com/library/compliance.aspx>.

6. PJM Regional Transmission Expansion Plan (RTEP) Case Updates

Mr. Kyle Clifford, PJM, provided an update regarding RTEP Case Updates. RTEP cases have been distributed for final review, responses are requested by December 21. PJM is targeting the end of December to distribute a draft 2022 short circuit case.

7. Designated Entity Design Standards Task Force (DEDSTF) Update

Mr. Mike Herman, PJM, provided an update on the progress of the DEDSTF. The DEDSTF has been broken into subgroups to address the problem statement. The Protection and Control Subgroup is expected to deliver draft documentation Q1 2017. The Substation Subgroup is targeting Q1/Q2 2017 to deliver draft documentation. The Transmission Lines Subgroup continues progress via outreach to necessary parties.

8. JOA Deactivation Update

Mr. Aaron Berner, PJM, provided an update on modifications to the PJM/MISO Joint Operating Agreement to codify coordination of generation retirement studies. The RTOs presented language at the November 15 Joint and Common Market meeting. The proposed revisions were filed with the FERC December 15.

9. New Service Request Study Methods

Mr. Berner, PJM, provided an update on items under discussion at the Special PC Sessions for New Service Request Study Methods. The PC sub-group moved forward with adding a Feasibility Study to the Long Term Firm Transmission Service customers and the Upgrade customers study process. The PC sub-group reviewed redline language for both the PJM Tariff and PJM Manual 14A (Generation and Transmission Interconnection Process).

10. New Services Queue Application Process

Mr. Berner, PJM, presented material detailing the new Queue Point Application which will be utilized for entries into the queue application process. The initial implementation of the new application process will include items categorized in Attachment N of the PJM Tariff (new generation and updates to existing generation), Attachment S of the PJM Tariff (merchant transmission requests), and the Impact Study data form. More information is available under the December 15 Planning Committee Materials on the [Planning Committee Website](#).

11. Load Forecast Report

Mr. John Reynolds, PJM, presented the preliminary 2017 Load Forecast report. The 2017 Load Forecast is down 2.1% for the year 2020 when compared to the 2016 Load Forecast. Mr. Reynolds provided details for the reduction of the forecast. These are available under the December 15 Planning Committee Materials on the [Planning Committee Website](#).

12. Winter Season Resource Adequacy and Capacity Requirements

Mr. Tom Falin, PJM, provided a summary of the recently approved problem statement to address winter resource adequacy and capacity requirements. This work will be coordinated through the Planning Committee. Deliverables for this effort are expected to be completed by the end of Q3 2017.

13. PJM/NYISO Wheel Modeling

Mr. Sims, PJM, discussed updates to the operational and planning protocols related to the termination of the ConEd Wheel. The drafted revisions for the Joint Operating Agreement related to the termination of the wheel are scheduled to be filed with the FERC on January 31, 2017. Please email RTEP@pjm.com if you have additional questions or concerns.

14. FirstEnergy Local Planning Criteria Update

Mr. John Syner, FirstEnergy Solutions Corp., provided an update on FirstEnergy's local planning criteria pertaining to terminology related to the new TPL standard.

15. Review of Market Efficiency Project Selection Guidelines

Mr. Asanga Perera, PJM, provided an update on the guidelines for Market Efficiency Project Selection. These guidelines will be reflected in Manual 14F, which is currently under development.

Informational Section

Order 1000 Update

Special PC Sessions on Order 1000 was held on November 11. An additional session is scheduled for December, 2016 (9am – 12 Noon). At the most recent session, the following was discussed: (1) TEAC Redesign and (2) RTEP Schedule. The Market Efficiency Project Selection Guidelines were finalized and will be presented to the Planning Committee for endorsement.

TO Pro Forma Wires to Wires Interconnection Agreement

The Transmission Owners provided an update at the November TOAAC regarding the status of the pro forma wires to wires interconnection agreement that is under development. The draft agreement is largely complete with two remaining topics still being discussed and finalized.

Future Meeting Dates

January 12, 2017	9:30 a.m.	Planning Committee	PJM Conference and Training Center, Audubon, PA
January 13, 2017	9:00 a.m.	Special PC Session: TEAC Redesign and RTEP Cycle	PJM Conference and Training Center, Audubon, PA
February 9, 2017	9:30 a.m.	Planning Committee	PJM Conference and Training Center, Audubon, PA
February 10, 2017	9:00 a. m.	Special PC Session: TEAC Redesign and RTEP Cycle	PJM Conference and Training Center, Audubon, PA
March 9, 2017	9:30 a.m.	Planning Committee	PJM Conference and Training Center, Audubon, PA
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
Paul McGlynn	PJM Interconnection, LLC	Not Applicable
Bridgid Cummings (Secretary)	PJM Interconnection, LLC	Not Applicable
Nicolas Koehler	AEP Indiana-Michigan Transmission Company, Inc.	Transmission Owner
Jerod Marker	AEP Indiana-Michigan Transmission Company, Inc.	Transmission Owner
Edward Tatum	American Municipal Power, Inc.	Electric Distributor
Gary Fuerst	American Transmission Systems, Inc.	Transmission Owner
Jim Zweig	American Transmission Systems, Inc.	Transmission Owner
Brock Ondayko	Appalachian Power Company	Transmission Owner
Dana Horton	Appalachian Power Company	Transmission Owner
Takis Laios	Appalachian Power Company	Transmission Owner
Daniel Zambory	Appalachian Power Company	Transmission Owner
Will Burkett	Appalachian Power Company	Transmission Owner
Craig Lockwood	Appalachian Power Company	Transmission Owner
David Bloom	Baltimore Gas and Electric Company	Transmission Owner
Sanmi Kalesanwo	Baltimore Gas and Electric Company	Transmission Owner
Tae Lee	Baltimore Gas and Electric Company	Transmission Owner
John McDaniel	Baltimore Gas and Electric Company	Transmission Owner
Hugh Scott	Baltimore Gas and Electric Company	Transmission Owner
Chukwuemeka Igwilo	Baltimore Gas and Electric Company	Transmission Owner
Ron Pezon	Borough of Chambersburg	Electric Distributor
Diane Janicki	Boston Energy Trading and Marketing LLC	Generation Owner
Travis Bouslog	Burns & McDonnell Engineering Company Inc	Not Applicable
Tom Hoatson	Carroll County Energy LLC	Other Supplier
Michael Natrin	Carroll County Energy LLC	Other Supplier
Yan Du	Central Transmission, LLC	Transmission Owner
William Allen	Commonwealth Edison Company	Transmission Owner
Alan Engelmann	Commonwealth Edison Company	Transmission Owner
Paul Mills	Commonwealth Edison Company	Transmission Owner
Ronald Regner	Commonwealth Edison Company	Transmission Owner
Diana McNally-Barsotti	Consolidated Edison	Other Supplier
Dan Griffiths	Consumer Advocates of PJM States	Not Applicable
Bruce Campbell	Cpower	Other Supplier
Jamie Lejcar	CPS Energy	Electric Distributor
Carl Johnson	Customized Energy Solutions, Ltd.*	Not Applicable
Carlos Gutierrez	Davis Wright Tremaine LLP	Not Applicable
John Horstmann	Dayton Power & Light Company (The)	Transmission Owner
Hertzel Shamash	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
Michael Erbrick	DhastCo, LLC	Not Applicable
Ruth Ann Price	Division of the Public Advocate of the State of Delaware	Other Supplier
Craig Crider	Dominion Virginia Power	Transmission Owner

Randi Heise	Dominion Virginia Power	Transmission Owner
Frank Zhang	Dominion Virginia Power	Transmission Owner
George Owens	Downes Associates, Inc.	Other Supplier
Steve Steinkuhl	Duke Energy Business Services LLC	Transmission Owner
Julie Mason	Duke Energy Ohio, Inc.	Transmission Owner
Steve Abate	Duquesne Light Company	Transmission Owner
Patrick Grau	Dynegy Marketing and Trade, LLC	Generation Owner
Jason Cox	Dynegy Power Marketing, Inc.	Generation 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
Amanda Stacy	East Kentucky Power Cooperative, Inc.	Transmission Owner
Kevin Kilgallen	Emerald Energy Consulting, LLC	Not Applicable
Malcolm Ainspan	Energy Curtailment Specialists, Inc.	Not Applicable
Neil Burbure	Energy Initiatives Group	Not Applicable
Gang Shen	Energy Initiatives Group	Not Applicable
Nick Gangi	Eversource Energy	Not Applicable
Melanie Sanders	Exelon Business Services Company, LLC	Transmission Owner
Robert Taylor	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
Jim Benchek	FirstEnergy Solutions Corp.	Transmission Owner
Martin Bolan	FirstEnergy Solutions Corp.	Transmission Owner
Jeff Stuchell	FirstEnergy Solutions Corp.	Transmission Owner
John Syner	FirstEnergy Solutions Corp.	Transmission Owner
Michael Borgatti	Gabel and Associates	Not Applicable
Gabriella Hudis	Gabel and Associates	Not Applicable
Evan Racine-Johnson	Golden Spread Electric Cooperative	Not Applicable
Rachel Hulett	Gridliance, GP, LLC	Not Applicable
Derek Hagaman	GT Power Group	Not Applicable
David Pratzon	GT Power Group	Not Applicable
Kenneth Foladare	IMG Midstream LLC	Generation Owner
Joe Staszowski	ISO New England	Not Applicable
John Kopinski	ITC Mid-Atlantic Development LLC	Other Supplier
Brenda Prokop	ITC Mid-Atlantic Development LLC	Other Supplier
Alan Myers	ITC Transco	Not Applicable
Rehan Gilani	Leidos	Not Applicable
Sharon Segner	LS Power Transmission, LLC	Transmission Owner
Heather Thomson	Marec	Not Applicable
Morris Schreim	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
Adam Gerstnecker	Mitsubishi Electric Power Products Inc.	Not Applicable

Rajat Majumder	Mitsubishi Electric Power Products Inc.	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
Mason Emmett	NextEra Energy Power Marketing, LLC	Generation Owner
Frederico Von Pinho	NextEra Energy Transmission, LLC	Other Supplier
Gabriel Hollis	Nextera Energy, Inc	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
John Donelson	Old Dominion Electric Cooperative	Electric Distributor
James Wright	Old Dominion Electric Cooperative	Electric Distributor
Gregory Carmean	OPSI	Not Applicable
Tim Foxen	Osaka Gas USA	Not Applicable
Frank Brandolisio	PECO Energy Company	Transmission Owner
Mike Donnelly	PECO Energy Company	Transmission Owner
Pulin Shah	PECO Energy Company	Transmission Owner
Dhruv Acharya	PEPCO Holdings, Inc.	Transmission Owner
Gloria Godson	PEPCO Holdings, Inc.	Transmission Owner
Ray Rouault	PEPCO Holdings, Inc.	Transmission Owner
Amber Young	PEPCO Holdings, Inc.	Transmission Owner
Bruce Balmat	PJM Interconnection, LLC	Not Applicable
Fran Barrett	PJM Interconnection, LLC	Not Applicable
Aaron Berner	PJM Interconnection, LLC	Not Applicable
Tim Burdis	PJM Interconnection, LLC	Not Applicable
Christina Catalano	PJM Interconnection, LLC	Not Applicable
Byoungkon Choi	PJM Interconnection, LLC	Not Applicable
Kyle Clifford	PJM Interconnection, LLC	Not Applicable
Mary Ellen Driscoll	PJM Interconnection, LLC	Not Applicable
Tom Falin	PJM Interconnection, LLC	Not Applicable
Zhenyu Fan	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
Steve Herling (Chair)	PJM Interconnection, LLC	Not Applicable
Michael Herman	PJM Interconnection, LLC	Not Applicable
Srinivas Kappagantula	PJM Interconnection, LLC	Not Applicable
Frank Koza Jr.	PJM Interconnection, LLC	Not Applicable
Jin Lee	PJM Interconnection, LLC	Not Applicable
Chuck Liebold	PJM Interconnection, LLC	Not Applicable
Yiming Mao	PJM Interconnection, LLC	Not Applicable
Molly Mooney	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 Schuyler	PJM Interconnection, LLC	Not Applicable

Stan Sliwa	PJM Interconnection, LLC	Not Applicable
Mark Sims	PJM Interconnection, LLC	Not Applicable
Amber Thomas	PJM Interconnection, LLC	Not Applicable
Jonathan Thompson	PJM Interconnection, LLC	Not Applicable
Glenn Weiss	PJM Interconnection, LLC	Not Applicable
Mark Watson	Platts Energy Company	Not Applicable
Zelalem Tekle	PowerGEM	Not Applicable
Shadab Ali	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Steven Nadel	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Frank Richardson	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Kriti Dawadi	PSEG Energy Resources and Trade LLC	Transmission Owner
Sam Giordano	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
Alex Stern	PSEG Energy Resources and Trade LLC	Transmission Owner
Mike Wiwel	PSEG Energy Resources and Trade LLC	Transmission Owner
Mohamed Zahidi	PSEG Energy Resources and Trade LLC	Transmission Owner
James Calore	Public Service Electric & Gas Company	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
Greg Player	Public Service Electric & Gas Company	Transmission Owner
Alexander Stern	Public Service Electric & Gas Company	Transmission Owner
Ming Zhou	Public Service Electric & Gas Company	Transmission Owner
Chandana Bommareddy	Quanta Technology	Not Applicable
Roleto Mangonon	Rockland Electric Company	Transmission Owner
Rory Sweeney	RTO Insider	Not Applicable
Andy Peebles	Shell Energy North America (US), LP	Other Supplier
Jennifer Hohenshilt	Talen Energy Marketing, LLC	Generation Owner
Barbara Scoglietti	Tangent Energy Solutions, Inc.	Other Supplier
Brad Heisey	Tenaska Power Services Co	Generation Owner
Pati Esposito-Hils	TransCanada Power Marketing Ltd.	Other Supplier
Pat Hayes	Union Electric Company d/b/a Ameren Missouri	Other Supplier
Adam Weber	Union Electric Company d/b/a Ameren Missouri	Other Supplier
James Wilson	Wilson Energy Economics	Not Applicable