

Planning Committee
PJM Conference and Training Center, Audubon, PA
November 3, 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 Mr. Mike Herman to review the meeting minutes of the October 6, 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. Dan Griffiths seconded the motion. In a voice vote, the Planning Committee approved the October 6 Planning Committee Minutes.

Endorsements/Approvals

3. **PJM Manual 14B Updates**

Mr. Mike Herman, PJM, presented modifications to PJM Manual 14B (PJM Region Transmission Planning Process) regarding the CIL procedure. The procedure resides in Attachment G.11 of M14B. Mr. Herman will work with stakeholders to clarify red line language in advance of the November Markets and Reliability Committee. Mr. Dave Pratzon made a motion to endorse and Mr. Barry Trayers seconded the motion, there were no objections and no abstentions. **In a voice vote, the Planning Committee endorsed these updates for Manual 14B.**

4. **Manual 21 Updates**

Mr. Jerry Bell, PJM, reviewed proposed draft changes for Manual 21 (Rules and Procedures for Determination of Generating Capability) related to generator testing requirements. Mr. Dave Pratzon made a motion to endorse and Mr. Dave Scarpignato seconded the motion, there were no objections and no abstentions. **In a voice vote, the Planning Committee endorsed these updates for Manual 21.**

5. **Updates to Manual 14A**

Mr. Ed Franks, PJM, presented updates to Part VI – 217.3a of the Tariff and Manual 14A (Generation and Transmission Interconnection Process) that are a result of discussions at the Special PC sessions regarding New Service Request Cost Allocation & Study Methods. Mr. Dave Pratzon made a motion to endorse and Mr. Carl Johnson seconded the motion, there were no objections and one abstention. **In a voice vote, the Planning Committee endorsed these updates for Manual 14A and the Tariff.**

6. TO/TOP Matrix Changes

Mr. Sri Kappagantula reviewed the proposed updates to the TO/TOP matrix. Mr. Pulin Shah made a motion to endorse and Mr. Dave Pratzon seconded the motion, there were no objects and no abstentions. **In a voice vote, the Planning Committee provided a recommendation for approval.**

7. Winter Weekly Reserve Target

Mr. Patricio Rocha Garrido, PJM, presented the winter weekly reserve target results. Mr. Dave Pratzon made a motion to endorse and Mr. Barry Trayers seconded the motion, there were no objects and five abstentions. **In a voice vote, the Planning Committee endorsed the winter weekly reserve target results.**

First Readings

8. Manual 14C Updates

Ms. Sue Glatz, PJM, presented a first read for changes to Section 6.1.6 of Manual 14C (Generation and Transmission Interconnection Facility Construction). The revised tie line changes are included in the revised timeline diagram. This will be brought to the next Planning Committee meeting for endorsement.

Informational Updates

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

Ms. Amber Thomas, PJM, provided an update regarding RTEP Case Updates. RTEP trial 2 cases were sent on November 2nd, TO updates are requested by November 18th. Short Circuit case distributions will occur early November and TOs will be asked to review and confirm breaker replacements in late November.

10. JOA Deactivation Update

Mr. Alex Worcester, PJM, provided an update on modifications to the PJM/MISO Joint Operating Agreement to codify coordination of generation retirement studies. Draft JOA language was presented for stakeholder review at the October 28 PJM/MISO IPSAC meeting; comments are due November 11. The RTOs expect to present final language at the November 15 Joint and Common Market meeting. The proposed revisions are on target to be filed with the FERC on or before December 15.

11. New Service Request Study Methods

Mr. Ed Franks, PJM, provided an update on items under discussion at the Special PC Sessions for New Service Request Study Methods. The PC sub-group has agreed to move forward with adding a Feasibility Study to the Long Term Firm Transmission Service customers and the Upgrade customers study process. The PC sub-group has agreed to continue discussions that would include

removal of the Alternate Queue Process as well as change the less than \$5M cost allocation rule back to a first to cause methodology.

12. Initial Review of Market Efficiency Project Selection Guidelines

Mr. Asanga Perera, PJM, reviewed the draft guidelines for Market Efficiency Project Selection. He also provided examples and decision tree diagrams to further demonstrate the draft guidelines.

13. 2016 Operations and Planning Audit Results

Mr. Kappagantula, PJM, provided an update on the results of the 2016 Operations and Planning Audit Results. PJM had a successful Audit with no violations. Further information regarding the audit results can be found under the November 3rd Planning Committee Material at the [Planning Committee Website](#).

14. NERC/RRO Update

Mr. Kappagantula, PJM, will provided an update on recent NERC activities and PJM compliance activities. NERC standards subject to future enforcement can be found under the November 3rd Planning Committee Material at the [Planning Committee Website](#).

15. PJM/NYISO Wheel Modeling

Mr. Sims, PJM, provided an update regarding updates to the operational and planning protocols related to the termination of the ConEd Wheel. There was discussion regarding operational base flow treatment in planning and near term use in operations. Members are encouraged to participate in these joint meetings regarding the termination of the ConEd wheel. Please email RTEP@pjm.com if you have additional questions or concerns.

Informational Section

DEDSTF Update

The Designated Entity Design Standards Task Force (DEDSTF) last met on 10/25/2016. At that meeting the three sub groups (Substations, lines and protection) continued discussions on the organization/development of the Design Standards as well as the process of reviewing the existing materials. The Substation sub group will be holding a webex on 11/1 and the Lines sub group will be holding a webex on 11/8. The next meeting of the DEDSTF is 11/15/2016. All registrations are available on the DEDSTF website. [DEDSTF website](#)

Order 1000 Update

Special PC Sessions on Order 1000 were held on September 16, 2016, October 3, and October 21. Additional sessions are scheduled for November 11, 2016; December 8, 2016; January 13, 2017; and February 10, 2017 (all 9am – 12 Noon). At the most recent session, we introduced future discussion topics: (1) TEAC Redesign and (2) RTEP Schedule, as well as review of the draft Market Efficiency Project Selection Guidelines.

Future Meeting Dates

November 11, 2016	9:00 a.m.	Special PC Session: Order 1000	PJM Conference and Training Center, Audubon, PA
November 11, 2016	1:00 p.m.	Special PC Session: New Service Request Study Methods	Teleconference
December 8, 2016	9:00 a.m.	Special PC Session: TEAC Redesign and RTEP Cycle	PJM Conference and Training Center, Audubon, PA
December 15, 2016	9:30 a.m.	Planning Committee	PJM Conference and Training Center, Audubon, PA
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
Sean Black	Ameren Corporation	Not Applicable
Toby Hu	Ameren Corporation	Not Applicable
Kiran Thammineni	Ameren Corporation	Not Applicable
Chris Norton	American Municipal Power, Inc.	Electric Distributor
Edward Tatum	American Municipal Power, Inc.	Electric Distributor
Gary Fuerst	American Transmission Systems, Inc.	Transmission Owner
David Tate	American Transmission Systems, Inc.	Transmission Owner
Jim Zweig	American Transmission Systems, Inc.	Transmission Owner
Brock Ondayko	Appalachian Power Company	Transmission Owner
Eric Swanger	Appalachian Power Company	Transmission Owner
David Canter	Appalachian Power Company	Transmission Owner
Takis Laios	Appalachian Power Company	Transmission Owner
Craig Lockwood	Appalachian Power Company	Transmission Owner
Markian Melnyk	Atlantic Grid Operations A, LLC	Other Supplier
Hugh Scott	Baltimore Gas and Electric Company	Transmission Owner
James Jablonski	Borough of Butler, Butler Electric Division	Electric Distributor
Diane Janicki	Boston Energy Trading and Marketing LLC	Generation Owner
Travis Bouslog	Burns McDonnell	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
Barry Trayers	Citigroup Energy, Inc.	Other Supplier
William Allen	Commonwealth Edison Company	Transmission Owner
John Garavaglia	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
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
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
Michael Russ	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
Rebekah Kelman	DNVGL	Not Applicable
Ronnie Bailey	Dominion Virginia Power	Transmission Owner
Craig Crider	Dominion Virginia Power	Transmission Owner
Kyle Hannah	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
Greg Pakela	DTE Energy Trading, Inc.	Other Supplier
Steve Steinkuhl	Duke Energy Business Services LLC	Transmission Owner
Julie Mason	Duke Energy Ohio, Inc.	Transmission Owner
Chad Hirsh	Duquesne Light Company	Transmission Owner
Tonja Wicks	Duquesne Light Company	Transmission Owner
Jason Cox	Dynegy Power Marketing, Inc.	Generation 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
Chuck Dugan	East Kentucky Power Cooperative, Inc.	Transmission Owner
Wes Fluty	East Kentucky Power Cooperative, Inc.	Transmission Owner
John Brodbeck	EDP Renewables North America, LLC	Other Supplier
Gina Jardot	Essential Power, LLC	Generation Owner
Nick Gangi	Eversource Energy	Not Applicable
Melanie Sanders	Exelon Business Services Company, LLC	Transmission Owner
Robert Taylor	Exelon Business Services Company, LLC	Transmission Owner
Kevin Thundiyil	Exelon Business Services Company, LLC	Transmission Owner
Sharon Midgley	Exelon Generation Co., LLC	Generation Owner
Roozbeh Shegarfi	Exelon Generation Co., LLC	Generation Owner
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
Jonathan Loesch	FirstEnergy Solutions Corp.	Transmission Owner

David Marton	FirstEnergy Solutions Corp.	Transmission Owner
Jeff Stuchell	FirstEnergy Solutions Corp.	Transmission Owner
John Syner	FirstEnergy Solutions Corp.	Transmission Owner
Gabriella Hudis	Gabel and Associates	Not Applicable
Travis Stewart	Gabel and Associates	Not Applicable
Rachel Hulett	Gridliance, GP, LLC	Not Applicable
Derek Hagaman	GT Power Group	Not Applicable
David Pratzon	GT Power Group	Not Applicable
Jim Nash	Hudson Transmission Partners, LLC	Other Supplier
Joe Staszowski	ISO New England	Not Applicable
Kaustubh Deshmukh	ITC Holdings	Not Applicable
John Kopinski	ITC Mid-Atlantic Development LLC	Other Supplier
Brenda Prokop	ITC Mid-Atlantic Development LLC	Other Supplier
Sean Powers	Linde Energy Services, Inc	End User Customer
Robert Colozza	LS Power Transmission, LLC	Transmission Owner
Joshua York	LS Power Transmission, LLC	Transmission Owner
Robert O'Connell	Main Line Electricity Market Consultants	Not Applicable
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
Adam Solomon	Midwest Independent Transmission System Operator, Inc.	Not Applicable
Radha Soorya	Navigant	Not Applicable
Matt Stajcar	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
Stephen Gibelli	NextEra Energy Power Marketing, LLC	Generation Owner
Frederico Von Pinho	NextEra Energy Transmission, LLC	Other Supplier
Gabriel Hollis	Nextera Energy, Inc	Other Supplier
John Lemire	North Carolina Electric Membership Corporation	Electric Distributor
James Manning	North Carolina Electric Membership Corporation	Electric Distributor
Miles Taylor	Northern Indiana Public Service Company	Other Supplier
Brian Kauffman	NRG Curtailment Solutions	Other Supplier
Neal Fitch	NRG Power Marketing LLC	Generation Owner
John Donelson	Old Dominion Electric Cooperative	Electric Distributor
Mark Ringhausen	Old Dominion Electric Cooperative	Electric Distributor
James Wright	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
Gloria Godson	PEPCO Holdings, Inc.	Transmission Owner
Patricia Kurowski	PEPCO Holdings, Inc.	Transmission Owner
Scott Razze	PEPCO Holdings, Inc.	Transmission Owner
Dave Anders	PJM Interconnection, LLC	Not Applicable

Jerry Bell	PJM Interconnection, LLC	Not Applicable
Tim Burdis	PJM Interconnection, LLC	Not Applicable
Augustine Caven	PJM Interconnection, LLC	Not Applicable
Kyle Clifford	PJM Interconnection, LLC	Not Applicable
Phil D'Antonio	PJM Interconnection, LLC	Not Applicable
Mary Ellen Driscoll	PJM Interconnection, LLC	Not Applicable
Suzie Fahr	PJM Interconnection, LLC	Not Applicable
Zhenyu Fan	PJM Interconnection, LLC	Not Applicable
Ed Franks	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
Frank Koza Jr.	PJM Interconnection, LLC	Not Applicable
Paul McGlynn	PJM Interconnection, LLC	Not Applicable
Molly Mooney	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
Jason Shoemaker	PJM Interconnection, LLC	Not Applicable
Mark Sims	PJM Interconnection, LLC	Not Applicable
Amber Thomas	PJM Interconnection, LLC	Not Applicable
Jeanine Watson	PJM Interconnection, LLC	Not Applicable
Glenn Weiss	PJM Interconnection, LLC	Not Applicable
Alex Worcester	PJM Interconnection, LLC	Not Applicable
Scott Gass	PowerGEM	Not Applicable
Zelalem Tekle	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
Laura Lehmann	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Phil Penney	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Frank Richardson	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Ray DePillo	PSEG Energy Resources and Trade LLC	Transmission Owner
Sam Giordano	PSEG Energy Resources and Trade LLC	Transmission Owner
Gary Greiner	PSEG Energy Resources and Trade LLC	Transmission Owner
Cara Lewis	PSEG Energy Resources and Trade LLC	Transmission Owner
Qamar Arsalan	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
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



Draft Minutes

Ming Zhou	Public Service Electric & Gas Company	Transmission Owner
Chandana Bommareddy	Quanta Technology	Not Applicable
Ray Mason	Reliability First	Not Applicable
Rory Sweeney	RTO Insider	Not Applicable
Gerry Binder	SESCO Enterprises LLC	Other Supplier
Andy Peebles	Shell Energy North America (US), LP	Other Supplier
Jack Halpern	Stantec	Not Applicable
Leonard Collins	State of Delaware	Not Applicable
Pati Esposito-Hils	TransCanada Power Marketing Ltd.	Other Supplier
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
Adam Camp		