

Planning Committee
PJM Conference and Training Center, Audubon, PA
July 14, 2016

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.
2. Mr. Herling asked Ms. Bridgid Cummings to review the meeting minutes of the June 9, 2016 Planning Committee meeting. Mr. Herling asked the Planning Committee to approve the minutes. Mr. Dave Pratzon made a motion to approve the minutes. Mr. Barry Trayers seconded the motion. In a voice vote, the Planning Committee approved the June 9th Planning Committee Minutes.

Endorsements/Approvals

3. **PJM Manual 20 Updates**

Mr. Tom Falin, PJM, presented updates to PJM Manual 20, which are a result of a periodic review of this manual. Revisions included updating out of date language to ensure the manual reflects current processes, as well as revisions needed to clarify the implementation of Capacity Performance. Mr. Dave Pratzon made a motion to endorse and Mr. Carl Johnson seconded the motion. **In a voice vote, the Planning Committee endorsed the changes regarding updates to Manual 20.**

4. **Load Model Selection**

Mr. Falin, PJM, presented the load model selection for the 2016 RRS (Reserve Requirement Study). The selected model is the 10 year (2003-2012, #51002) load model including a shift in World peak week for the 2016 RRS Base Case. Mr. Dave Pratzon made a motion to endorse and Mr. Carl Johnson seconded the motion. **In a voice vote, the Planning Committee endorsed the load model selection.**

Informational Updates

5. **Transmission Owner Upgrades**

Mr. Mark Sims, PJM, provided an update regarding the Operating Agreement section on Transmission Substation Equipment. This is being addressed in conjunction with the FERC Order 206 compliance filing (Docket ER-16376). The committee will be provided with updates as they come available.

6. **PJM/NYISO Wheel Modeling**

Mr. Sims, PJM, provided education about the ConEd Wheel as well as provided an update on the operation and planning protocols related to the cancellation of the ConEd Wheel. Mr. Sims also discussed the potential cost allocation impacts as well as the Transmission Planning assumptions related to the cancellation.

7. Network Upgrade Cost Allocation

Mr. Aaron Berner, PJM, presented a problem statement regarding New Service Request Cost Allocation. He discussed the key work activities to be addressed in Special Planning Committee sessions. The expected deliverables are Tariff and Manual language to define the new cost allocation requirements or a discussion to be presented to the Planning Committee for the reason why the current cost allocation rules should be maintained in their current form.

8. Queue Processing of Small Generation Resources/Upgrade Requests/Transmission Service Requests

Mr. Berner, PJM, presented a problem statement regarding New Service Request Study Methods. He discussed the key work activities to be addressed in Special Planning Committee sessions. The expected deliverables are Tariff and Manual language to define the new cost allocation requirements or a discussion to be presented to the Planning Committee for the reason why the current cost allocation rules should be maintained in their current form.

9. PJM Manual 7 Updates

Mr. Mark Kuras provided an update on the history of Appendix F, Triggered Fault Current Limiters, in PJM Manual 7 as well as a clarification that the Appendix is being moved from the Manual to the Protective Relaying Philosophy Document.

10. NERC/RRO Update

Mr. Kuras, PJM, provided an update on recent NERC activities and PJM compliance activities. NERC standards subject to future enforcement can be found under the July 14th Planning Committee Material at the [Planning Committee Website](#).

11. PPL New Line Designation

Mr. Shadab Ali, PPL, presented the new 500 kV line designation for the Susquehanna-Shickshinny-Lackawanna line. The diagram is available under the July 14th Planning Committee Material at the [Planning Committee Website](#).

12. PECO Transmission Planning Criteria

Mr. Mike Donnelly, PECO, presented revisions to the PECO transmission planning criteria.

Informational Section

PJM/MISO Queue Study Coordination & Retirement Studies

On June 20, 2016, in Docket No. EL13-88-000, PJM Interconnection, L.L.C. ("PJM") and Midcontinent Independent System Operator, Inc.; (1) jointly submitted their informational filing to provide a status report to the Commission in compliance with the April 21, 2016 Order on Complaint and Technical Conference regarding their progress on developing generator retirement study coordination processes, and (2) submitted proposed revisions to the Joint Operating Agreement entered into between PJM and

MISO, Article IX, sections 9.3 to include a single set of agreed-upon interconnection coordination procedures that are currently in the PJM and MISO business practice manuals.

Order 1000 Lessons Learned

On April 29, 2016, an Order 1000 Lessons Learned meeting was held. PJM presented a path forward which included 3 tracks: Reliability project process document, Energy Efficiency project process document, and TEAC Redesign. A fourth track was suggested at the meeting: Upgrade projects. PJM is working on drafts of the process documents and discussing ideas for TEAC Redesign internally. Additional meetings will be scheduled.

Subcommittee/Task Force Updates

DEDSTF

The DEDSTF last met on 6/15/2016. 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 next meeting of the DEDSTF is 7/19/2016.

[DEDSTF website](#)

Transmission Replacement Processes Senior Task Force (TRPSTF)

As of the most recent TRPSTF meeting on June 20th, all of the education sessions have been completed. At the meeting on June 3rd, several modules were covered, including duties, rights, and obligations of signatories to the CTOA along with a review of Order 888, Order 890, Order 1000, and the Atlantic City decision. Additional topics included FERC rules and orders surrounding planning process and transparency, and cost recovery and allocation. The fourth and final education session was held on June 20th. PSEG discussed the additional value and benefits brought to the overall system from the inclusion of supplemental upgrades. AEP presented on their Asset Health Center which focuses on condition, performance, and risk assessment drivers over a simple assessment of asset age. AEP also shared class/voltage asset ages. Additional Orders (679, 889, 2000, and 2003) were also reviewed the most recent education session. At the next meeting on July 18th, the group will proceed with formal interest identification and commencement of the CBIR process.

Please encourage any subject matter experts who may later participate in the TRPSTF to view the recorded training sessions, as it is important for participants to remain on the same page for continued progress of this senior task force. Please visit the TRPSTF site for further information, and direct any questions you may have to the TRPSTF secretaries ([Julia Spatafore](#) and [Jason Quevada](#)).

To receive email notifications, please subscribe to the Transmission Replacement Processes Senior Task Force list serve on the [My Email Lists](#) page on your My PJM account.

Future Meeting Dates

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
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
Dale Burmester	American Transmission Systems, Inc.	Transmission Owner
Gary Fuerst	American Transmission Systems, Inc.	Transmission Owner
Jim Zweig	American Transmission Systems, Inc.	Transmission Owner
Brock Ondayko	Appalachian Power Company	Transmission Owner
David Canter	Appalachian Power Company	Transmission Owner
Takis Laios	Appalachian Power Company	Transmission Owner
Deniz Ozkan	Atlantic Wind Connection	Not Applicable
Hugh Scott	Baltimore Gas and Electric Company	Transmission Owner
Marek Kaczanowski	Baltimore Gas and Electric Company	Transmission Owner
Eric Yeh	Baltimore Gas and Electric Company	Transmission Owner
James Jablonski	Borough of Butler, Butler Electric Division	Electric Distributor
Ron Pezon	Borough of Chambersburg	Electric Distributor
Diane Janicki	Boston Energy Trading and Marketing LLC	Generation Owner
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
Yan Du	Central Transmission, LLC	Transmission Owner
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
Paul Mills	Commonwealth Edison Company	Transmission Owner
Ronald Regner	Commonwealth Edison Company	Transmission Owner
Yonas Habtemichael	Constellation NewEnergy, Inc	Transmission Owner
Dan Griffiths	Consumer Advocates of PJM States	Not Applicable
Sandeep Baidwan	Continuum Associates, LLC	Not Applicable
Guy Filomena	Customized Energy Solutions, Ltd.*	Not Applicable

Carl Johnson	Customized Energy Solutions, Ltd.*	Not Applicable
Jonathan Sasser	Customized Energy Solutions, Ltd.*	Not Applicable
Mike Hurd	Dayton Power & Light Company (The)	Transmission Owner
Michael Russ	Dayton Power & Light Company (The)	Transmission Owner
John Farber	DE Public Service Commission	Not Applicable
Jaclyn Cantler	Delmarva Power & Light Company	Electric Distributor
Michael Erbrick	DhastCo,LLC	Not Applicable
Jeffrey Whitehead	Direct Energy Business Marketing, LLC	Other Supplier
Janhavi Dharmadhikari	Dominion Energy Marketing, Inc.	Generation Owner
Ronnie Bailey	Dominion Virginia Power	Transmission Owner
Craig Crider	Dominion Virginia Power	Transmission Owner
Jeff Currier	Dominion Virginia Power	Not Applicable
Kyle Hannah	Dominion Virginia Power	Transmission Owner
Cynthia Yeh	Dominion Virginia Power	Transmission Owner
Frank Zhang	Dominion Virginia Power	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
John Peoples	Duquesne Light Company	Transmission Owner
Patrick Grau	Dynegy Marketing and Trade, LLC	Generation Owner
Iker Chocarro	E.on Climate & Renewables North America, Inc	Generation Owner
Thomas Rutigliano	Earth Networks	Other Supplier
Darrin Adams	East Kentucky Power Cooperative, Inc.	Transmission Owner
Nathan Bradley	East Kentucky Power Cooperative, Inc.	Transmission Owner
Wes Fluty	East Kentucky Power Cooperative, Inc.	Transmission Owner
Kevin Kilgallen	Emerald Energy Consulting, LLC	Not Applicable
John Marczewski	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
Roozbeh Shegarfi	Exelon Generation Co., LLC	Generation Owner
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
Jeff Stuchell	FirstEnergy Solutions Corp.	Transmission Owner
John Syner	FirstEnergy Solutions Corp.	Transmission Owner
Michael Borgatti	Gabel and Associates	Not Applicable
Travis Stewart	Gabel and Associates	Not Applicable

Amy Fisher	GE Energy Financial Services	Not Applicable
Rachel Hulett	Gridliance, GP, LLC	Not Applicable
David Pratzon	GT Power Group	Not Applicable
Kenneth Foladare	IMG Midstream LLC	Generation Owner
John Kopinski	ITC Mid-Atlantic Development LLC	Other Supplier
Brenda Prokop	ITC Mid-Atlantic Development LLC	Other Supplier
Matt Keenan	J-Power USA	Not Applicable
John Seelke	LS Power Transmission, LLC	Transmission Owner
Robert O'Connell	Main Line Electricity Market Consultants	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
Christin Domian	Mitsubishi Electric Power Products Inc.	Not Applicable
Benjamin Fram	Monitoring Analytics	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
Gabriel Hollis	Nextera Energy, Inc	Other Supplier
Jung Suh	Noble Americas Energy Solutions LLC	Other Supplier
Neal Fitch	NRG Power Marketing LLC	Generation Owner
John Donelson	Old Dominion Electric Cooperative	Electric Distributor
Robert Duan	Ontario Power Generation Inc.	Other Supplier
Gregory Carmean	OPSI	Not Applicable
Iris Boci	PECO Energy Company	Transmission Owner
Mike Donnelly	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
Dave Anders	PJM Interconnection, LLC	Not Applicable
Aaron Berner	PJM Interconnection, LLC	Not Applicable
Christina Catalano	PJM Interconnection, LLC	Not Applicable
Mary Ellen Driscoll	PJM Interconnection, LLC	Not Applicable
Amanda Egan	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
Jim Glennon	PJM Interconnection, LLC	Not Applicable
Michael Herman	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
Jason Quevada	PJM Interconnection, LLC	Not Applicable
Patricio Rocha Garrido	PJM Interconnection, LLC	Not Applicable
Ken Schuyler	PJM Interconnection, LLC	Not Applicable
Jonathan Silva-Sanchez	PJM Interconnection, LLC	Not Applicable
Mark Sims	PJM Interconnection, LLC	Not Applicable
Amber Thomas	PJM Interconnection, LLC	Not Applicable
Mike Ward	PJM Interconnection, LLC	Not Applicable
Shadab Ali	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	Transmission Owner
Greg Player	PSEG Energy Resources and Trade LLC	Transmission Owner
Sujata Walsh	PSEG Energy Resources and Trade LLC	Transmission Owner
Viina Gaston	Public Service Electric & Gas	Transmission Owner
Qamar Arsalan	Public Service Electric & Gas Company	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
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
Ming Zhou	Public Service Electric & Gas Company	Transmission Owner
Debbie Gebolys	Public Utilities Commission of Ohio (The)	Not Applicable
Chandana Bommarreddy	Quanta Technology	Not Applicable
David Burnham	Rock Island Clean Line LLC	Not Applicable
Roleto Mangonon	Rockland Electric Company	Transmission Owner
Joel Yu	Rockland Electric Company	Transmission Owner
Suzanne Herel	RTO Insider	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
Syed Ahmad	The Federal Energy Regulatory Commission	Not Applicable
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