

Planning Committee  
PJM Conference and Training Center, Audubon, PA  
June 8, 2017

## Administration

1. Mr. Paul McGlynn, PJM, called the meeting to order and reviewed the Code of Conduct and Anti-Trust. Mr. Mark Sims reviewed the upcoming Siemens trainings being offered at PJM's Campus, details are available via this link: <http://www.pjm.com/~media/committees-groups/committees/pc/20170608/20170608-informational-pjm-siemens-training.ashx>.
2. Mr. McGlynn asked Ms. Bridgid Cummings to review the meeting minutes of the May 4, 2017 Planning Committee meeting. Mr. McGlynn 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 May 4, 2017 Planning Committee Minutes.

## Endorsements

### 3. PJM Manual 14F

Mr. Michael Herman, PJM, reviewed the proposed draft of Manual 14F: PJM Competitive Planning Process Manual. He noted that the consideration of cost cap/containment provisions for competitive proposals will continue to be discussed at Special PC Sessions, the next being held on July 18, 2017. Mr. John Kopinski made a motion to endorse and Mr. David Scarpignato seconded the motion. There were no objections and two abstentions. **In a voice vote, the Planning Committee endorsed the new Manual 14F.**

### 4. Designated Entity Design Standards Task Force

Mr. Herman, PJM, presented a summary of the compilation of the documents written as part of the efforts of the Designated Entity Design Standards Task Force. These requirements developed by the DEDSTF will be applicable to all proposals that require the signing of a Designated Entity Agreement (DEA). Mr. Barry Trayers made a motion to endorse and Mr. Dave Pratzon seconded the motion. There was one objection and one abstention. **In a voice vote, the Planning Committee endorsed the Designated Entity Design Standards.**

### 5. PJM Manual 14C

Ms. Suzanne Glatz, PJM, presented updates to Manual 14C: Generation and Transmission Interconnection Facility Construction. The updates are to align the manual language with the work being completed through the Designated Entity Design Standards Task Force. Mr. Dave Pratzon made a motion to endorse and Mr. Alex Stern seconded the motion, there were no objections and one abstention. **In a voice vote, the Planning Committee endorsed the updates to Manual 14C.**

## 6. IRM Study Assumptions Letter

Mr. Jason Quevada, PJM, presented the assumptions for the 2017 Reserve Requirement Study (RRS) to establish the initial Installed Reserve Margin and Forecast Pool Requirement for the 2012/2022 Delivery Year. Mr. Carl Johnson 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 the IRM Study Assumptions Letter.**

## 7. PJM Manual 20

Mr. Patricio Rocha-Garrido, PJM, presented redline changes to Manual 20: PJM Resource Adequacy Analysis. The redline changes are specific to language describing Zonal and Global Locational Deliverability Areas for CETO calculations. Mr. Ronnie Bailey made a motion to endorse and Mr. Carl Johnson seconded the motion, there were no objections and no abstentions. **In a voice vote, the Planning Committee endorsed the updates to Manual 20.**

### First Readings

## 8. Load Model Selection

Mr. Rocha-Garrido, PJM, presented the results of the Load Model selection process for the 2017 Reserve Requirement Study. The committee will be asked to endorse the Load Model selection at its next meeting.

## 9. PJM M14B and PJM Operating Agreement Updates – TEAC Redesign

Ms. Amanda Long, PJM, presented updates to PJM Manual 14B (PJM Regional Transmission Process) and the PJM Operating Agreement in regards to the RTEP cycle timeline and the proposal window duration. The updates relate to updating the proposal window from 30 days to 60 days. The committee will be asked to endorse these updates at its next meeting.

### Informational Updates

## 10. PJM Manual 14A

Mr. Joe Hay, PJM, presented an overview of the upcoming redline changes to Manual 14A (Generation and Transmission Interconnection Process). These updates were identified as part of the biennial review of the manual. Redline changes will be brought for review at the July Planning Committee meeting.

## 11. Light Load Analysis Methodology

Mr. Mark Sims, PJM, provided an overview of the Light Load Analysis methodology and discussed the potential of modifying the test assumptions and parameters to reflect current operations and recent historical data. This will be brought back to the Planning Committee for further discussion.

## 12. Grid Resilience in System Planning

Mr. Sims, PJM, provided an introduction to grid resilience in Transmission Planning. There was a discussion pertaining to Grid Resilience in Transmission Planning and this will continue to be brought back to the Planning Committee for further discussion.

## 13. CETL Calculation Discussion

Mr. Sims, PJM, lead a discussion pertaining to the CETL Calculation Methodology. The discussion included a detailed description of how firm and non-firm transfers are modeled currently and in the future. Members are encouraged to contact PJM with any further questions that remain via [RTEP@pjm.com](mailto:RTEP@pjm.com).

## 14. Queue Point Update

Mr. Aaron Berner, PJM, provided an update regarding Queue Point. Additional application request types, including Merchant transmission and Upgrade requests, will now also be moving to this new tool beginning June 13, 2017.

## 15. NERC and Regional Coordination 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 May 4<sup>th</sup> Planning Committee Material at the [PC Website](#). You can also reach out to Preston at [Preston.Walker@pjm.com](mailto:Preston.Walker@pjm.com) if there are any further questions.

## 16. AEP Planning Criteria

Mr. Nick Koehler, PJM, provided an update regarding the AEP Planning Criteria.

## 17. PSEG FERC Form 715

Mr. Glenn Catenacci, PSEG, provided an update regarding PSEG FERC Form 715.

## Informational Section

### PJM is Hosting Two Siemens Courses

This fall, PJM is hosting two courses offered by Siemens, please see posted materials for details: <http://www.pjm.com/~media/committees-groups/committees/pc/20170608/20170608-informational-pjm-siemens-training.ashx> **Advance registration thru Siemens is required.**

### Winter Season Resource Adequacy and Capacity Requirements

The Resource Adequacy Analysis Subcommittee reviewed further analysis results related to the Winter Season Resource Adequacy and Capacity Requirements Problem Statement. The analysis examined the following items for the RTO and for selected LDAs: winter forced outage distributions, actual winter

planned outages vs. PRISM winter planned outages and winter generator maintenance. This discussion will continue at the July 6th RAAS meeting.

## Order 1000 Projects and Cost Capping/Cost Commitment Special PC Meeting

On May 24, PJM conducted a Special PC meeting to begin discussion of the Cost Capping/Cost Commitment. The topic of the first meeting was focused on fundamental concepts of cost capping forms that have been observed by PJM and within the industry. The materials included a general overview of rate based revenue recovery fundamentals and Net Present Value calculations of hypothetical projects for different forms of cost capping. The next meetings are scheduled for July 18 and August 21. Additional meetings will be scheduled as necessary.

## MOD-032 Update

Per MOD-032-1 Requirement 2, PJM is requesting that Generator Owners please submit existing generation data into GenModel on the Planning Center website by June 15th. Generators at unit level that are at least 20 MW or have CIRs or generation facilities that have at least 75 MVA at the plant level should submit data. <http://planningcenter.pjm.com/genmodel>

## Future Meeting Dates

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 (Chair)	PJM Interconnection, LLC	Not Applicable
Bridgid Cummings (Secretary)	PJM Interconnection, LLC	Not Applicable
Nick Koehler	AEP Indiana-Michigan Transmission Company, Inc.	Transmission Owner
Sean Black	Ameren Corporation	Not Applicable
Steven Lieberman	American Municipal Power, Inc.	Electric Distributor
Kristin Rothey	American Municipal Power, Inc.	Electric Distributor
Edward Tatum	American Municipal Power, Inc.	Electric Distributor
Gary Fuerst	American Transmission Systems, Inc.	Transmission Owner
Jim Zweig	American Transmission Systems, Inc.	Transmission Owner
Adam Hickman	Appalachian Power Company	Transmission Owner
Brock Ondayko	Appalachian Power Company	Transmission Owner
Kevin Patten	Appalachian Power Company	Transmission Owner
Eric Swanger	Appalachian Power Company	Transmission Owner
Takis Laios	Appalachian Power Company	Transmission Owner
Dave Parrish	Appalachian Power Company	Transmission Owner

Rajul Mahmud	Baltimore Gas and Electric Company	Transmission Owner
Hugh Scott	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
Travis Bouslog	Burns & McDonnell Engineering Company Inc	Not Applicable
David Scarpignato	Calpine Energy Services, L.P.	Generation Owner
Tom Hoatson	Carroll County Energy LLC	Other Supplier
Yan Du	Central Transmission, LLC	Transmission Owner
Barry Trayers	Citigroup Energy, Inc.	Other Supplier
Deral Danis	Clean Line Energy Partners LLC	Not Applicable
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
Diana McNally-Barsotti	Consolidated Edison	Other Supplier
Yonas Habtemichael	Constellation NewEnergy, Inc	Transmission Owner
Sandeep Baidwan	Continuum Associates, LLC	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
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
Ronnie Bailey	Dominion Virginia Power	Transmission Owner
Craig Crider	Dominion Virginia Power	Transmission Owner
Kyle Hannah	Dominion Virginia Power	Transmission Owner
Frank Zhang	Dominion Virginia Power	Transmission Owner
George Owens	Downes Associates, Inc.	Other Supplier
Gregory Pakela	DTE Energy Trading, Inc.	Other Supplier
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
Tonja Wicks	Duquesne Light Company	Transmission Owner
Iker Chocarro	E.on Climate & Renewables North America, Inc	Generation Owner
Darrin Adams	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
John Brodbeck	EDP Renewables North America, LLC	Other Supplier
Kevin Kilgallen	Emerald Energy Consulting, LLC	Not Applicable
Malcolm Ainspan	Energy Curtailment Specialists, Inc.	Not Applicable
Gina Jardot	Essential Power, LLC	Generation Owner
Nick Gangi	Eversource Energy	Not Applicable

Pablo Ovando	Exelon Business Services Company, LLC	Transmission Owner
Melanie Sanders	Exelon Business Services Company, LLC	Transmission Owner
Robert Taylor	Exelon Business Services Company, LLC	Transmission Owner
Tony Tong	Exelon Business Services Company, LLC	Transmission Owner
Christopher Nekolny	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
Andrew Horne	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
Derek Hagaman	GT Power Group	Not Applicable
David Pratzon	GT Power Group	Not Applicable
Roy Shanker	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Randy Rismiller	Illinois Commerce Commission	Not Applicable
William VanderLaan	Illinois Commerce Commission	Not Applicable
Joe Staszowski	ISO New England	Not Applicable
Ernest Owens	ITC Mid-Atlantic Development LLC	Other Supplier
Rehan Gilani	Leidos	Not Applicable
John Seelke	LS Power Transmission, LLC	Transmission Owner
Fred Kelley	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
Joseph Bowring	Monitoring Analytics	Not Applicable
Douglas Dickson	New Jersey Board of Public Utilities	Not Applicable
George Kogut	New York Power Authority	Other Supplier
Dean Busch	NextEra Energy Resources, LLC	Other Supplier
Frederico Von Pinho	NextEra Energy Transmission, LLC	Other Supplier
Gabriel Hollis	Nextera Energy, Inc	Other Supplier
Laxman Subedi	NiSource	Not Applicable
James Manning	North Carolina Electric Membership Corporation	Electric Distributor
Jeff McKinney	North Line Utilities LLC	Not Applicable
Miles Taylor	Northern Indiana Public Service Company	Other Supplier
Neal Fitch	NRG Power Marketing LLC	Generation Owner
William Pezalla	Old Dominion Electric Cooperative	Electric Distributor
Mark Ringhausen	Old Dominion Electric Cooperative	Electric Distributor
Robert Duan	Ontario Power Generation Inc.	Other Supplier
Gregory Carmean	OPSI	Not Applicable
Douglas Dale	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

Dave Anders	PJM Interconnection, LLC	Not Applicable
Aaron Berner	PJM Interconnection, LLC	Not Applicable
Nicole Bugay	PJM Interconnection, LLC	Not Applicable
Jason Connell	PJM Interconnection, LLC	Not Applicable
RJ Cundiff	PJM Interconnection, LLC	Transmission Owner
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
Joe Hay	PJM Interconnection, LLC	Not Applicable
Steve Herling	PJM Interconnection, LLC	Not Applicable
Frank Koza Jr.	PJM Interconnection, LLC	Not Applicable
Chuck Liebold	PJM Interconnection, LLC	Not Applicable
Amanda Long	PJM Interconnection, LLC	Not Applicable
Erich Mauroschadt	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
Jason Shoemaker	PJM Interconnection, LLC	Not Applicable
Stan Sliwa	PJM Interconnection, LLC	Not Applicable
Mark Sims	PJM Interconnection, LLC	Not Applicable
Lauren Strella	PJM Interconnection, LLC	Not Applicable
Preston Walker	PJM Interconnection, LLC	Not Applicable
Mike Ward	PJM Interconnection, LLC	Not Applicable
Stanley Williams	PJM Interconnection, LLC	Not Applicable
Tao Yang	PJM Interconnection, LLC	Not Applicable
Brian Willis	Potomac Electric Power Company	Electric Distributor
Shadab Ali	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Lisa Krizenoskas	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Steven Nadel	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Kriti Dawadi	PSEG Energy Resources and Trade LLC	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
Bryan Mills	PSEG Energy Resources and Trade LLC	Transmission Owner
Mohamed Zahidi	PSEG Energy Resources and Trade LLC	Transmission Owner
Vilna Gaston	Public Service Electric & Gas	Transmission Owner
Qamar Arsalan	Public Service Electric & Gas Company	Transmission Owner

James Caristia	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
John Nagurney	Public Service Electric & Gas Company	Transmission Owner
Alexander Stern	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
Chandana Bommareddy	Quanta Technology	Not Applicable
Ray Mason	Reliability First	Not Applicable
Roletto Mangonon	Rockland Electric Company	Transmission Owner
Rory Sweeny	RTO Insider	Not Applicable
Stephanie Tsao	S&P Global Market Intelligence	Not Applicable
Gerry Binder	SESCO Enterprises LLC	Other Supplier
Andy Peebles	Shell Energy North America (US), LP	Other Supplier
Neil Joshapura	State Corporate Commission Virginia	Not Applicable
Tom Hyzinski	Talen Energy Marketing, LLC	Generation Owner
John Sillin	The Federal Energy Regulatory Commission	Not Applicable
Adam Weber	Union Electric Company d/b/a Ameren Missouri	Other Supplier
James Wilson	Wilson Energy Economics	Not Applicable