

May Planning Committee
Teleconference / WebEx
May 12, 2020
9:00 a.m. – 1:45 p.m. EPT

Administration (9:00-9:15)

1. Dave Souder, PJM, called the meeting to order and Molly Mooney, PJM, reviewed the Antitrust, Code of Conduct, media participation, and WebEx guidelines.
2. Molly Mooney reviewed the May 12, 2020 Planning Committee Agenda. No changes to the agenda were requested.
3. Ms. Molly Mooney reviewed the draft minutes posted for the April 14th, 2020 meeting and the Planning Committee approved the minutes.

Dave Souder, PJM, announced on May 22nd there will be a special MRC session in the afternoon to conduct education related to HVDC Converters

Dave Souder, PJM, discussed the May 1 Executive Order on Securing the United States Bulk-Power System and the subsequently DOE outline “Four Pillars” of Actions on the President’s Executive Order. PJM will provide future updates as part of a PC agenda item.

Endorsements (9:15-11:15)

4. Storage as Transmission Asset
Jeff Goldberg, PJM, presented a second read of a problem statement/issue charge regarding storage as a transmission asset. **The committee endorsed the Storage as Transmission Asset issue charge with an acclamation vote of 1 objection and 0 abstentions.**
5. Market Efficiency Process Enhancement Task Force Update
Jack Thomas, PJM, reviewed the work completed at the Market Efficiency Process Enhancement Task Force. The Committee voted on three packages in the category: Regional Targeted Market Efficiency Project process (category A), three packages in the category: Benefit Calculation (category B), and two packages in the category: Window for Capacity Drivers (category C).
The committee voted on all eight packages with the following results:
 - Category A1 (PJM): 55% Yes, 45% No, 0% Abstain [PASS]
 - Category A2 (IMM): 12% Yes, 88% No, 0% Abstain [FAIL]
 - Category A4 (AEP): 56% Yes, 44% No, 0% Abstain [PASS]**The committee voted if A4 was preferable to the status quo. This vote passed with 58% Yes and 42% No.**
 - Category B1 (PJM): 52% Yes, 48% No, 0% Abstain [PASS]
 - Category B2 (IMM): 16% Yes, 84% No, 0% Abstain [FAIL]
 - Category B4 (First Energy): 54% Yes, 46% No, 0% Abstain [PASS]**The committee voted if B4 was preferable to the status quo. This vote passed with 56% Yes and 44% No.**

- **Category C1 (PJM): 52% Yes, 48% No, 0% Abstain [PASS]**
- **Category C2 (IMM): 25% Yes, 75% No, 0% Abstain [FAIL]**

The committee voted if C1 was preferable to the status quo. This vote passed with 63% Yes and 37% No.

6. Critical Infrastructure Stakeholder Oversight

A. Robert Taylor, Exelon, presented a second read of a redline version of the Critical Infrastructure Stakeholder Oversight Issue Charge.

B. Erik Heinle, Office of the People's Council for the District of Colombia, presented an alternate to the redline version of the Critical Stakeholder Oversight Issue Charge.

The committee voted first on the Critical Infrastructure Stakeholder Oversight redlined issue charge from Exelon. The committee then voted on the alternate Critical Infrastructure Oversight redlined issue charge from the DC-OPC. The committee approved the redlined issue charge from Exelon with a vote of 61% Yes, 39% No, 0% Abstain. The committee did not approve the alternate redlined issue charge from DC-OPC with a vote of 39% Yes, 61% No, 0% Abstain.

First Reads (11:15- 12:15)

7. PMU Placement in RTEP Planning Process

Shaun Murphy, PJM, reviewed the Problem Statement, Issue Charge and proposed solution to address the need for PMU Placement in the RTEP planning process. PJM will schedule a PMU training session in advance of the June PC. The committee will be asked to approve the issue charge and endorse the proposed manual language as part of the Quick Fix process outlined in Section 8.6.1 of Manual 34 at the June PC meeting.

8. 2020 RRS Assumptions

Jason Quevada, PJM, presented the 2020 RRS assumptions as developed in the Resource Adequacy Analysis Subcommittee. The committee will be requested to endorse the study assumptions at the June PC meeting.

9. Manual 14A, E and G Changes

Ms. Onyinye Caven, PJM, will present changes to Manuals 14A, 14E and 14G identified as part of the periodic review. The committee will be requested to endorse the Manual changes at the June PC meeting.

Informational Updates (12:15 – 1:45)

10. Exelon Transmission Planning Criteria Update

Thomas Leeming, Exelon, provided an overview of the updated 715 criteria that applies to all the Exelon Operating Companies.

11. AMP Transmission Planning Criteria Update
Ryan Dolan, AMP, provided an overview of the updated 715 criteria.
12. Dominion Transmission Planning Criteria Update
Kyle Hannah, Dominion, provided an overview of the updated 715 criteria.
13. FERC Compliance Filing Update
Ray Fernandez, PJM, discussed cost allocation issues associated with multiple orders from FERC that require resettlement.
14. Transmission & Substation Subcommittee Update
Jay Liu, PJM, provided an update on the TSS work activities through 2019 and the first half of 2020 along with a work plan for the remainder of the year.
15. Reliability Compliance Update
Mark Kuras, PJM, provided an update on the activities, issues and items of interest at NERC, SERC, and RF.
16. Load Forecast Update
Andrew Gledhill, PJM, provided an update on estimated Covid-19 impacts on recent loads and discussed analysis shared with the Load Analysis Subcommittee.
17. Critical Infrastructure Stakeholder Update
Christina Stotesbury, PJM, discussed the work being done at the most recent Critical Infrastructure Stakeholder Oversight Special Planning Committee session.

Informational Posting

Model Build Activity Update

- The 2020 series RTEP Trial 3 powerflow cases and associated files are being reviewed by PJM staff and the Transmission Owners. The preliminary 5 year short circuit results have been provided to PJM's Transmission Planning Department; they will reach out to Transmission Owners with any questions. PJM's System Planning Modeling and Support Department will reach out about any potential baselines for the 2 year case.
- The 2019 series MMWG 2020 winter study case is being updated. There will be two Trials where Transmission Owners are able to provide updates. The final updates will be provided to PowerTech by PJM on May 22, 2020.
- For the 2020 series MMWG powerflow cases, Transmission Owners are able to submit updates to project files via Model on Demand, provide load and device profiles for all 12 cases and Tie Line updates to PJM by May 22, 2020.

MOD-032 Update

- Posted with materials for the May PC is a document describing 2020 MOD-032 updates. The Gen Model window will open May 1 and remain open through June 15. Generator Owners have the option of using data

submitted in previous years to prepopulate the 2020 forms. Gen Model link: <https://pjm.com/planning/services-requests/planning-modeling-submission-mod-032.aspx>; for any questions or comments email MOD-032@pjm.com

PJM Interconnection Queue Status Update

PJM has posted slides showing an update on the status of the PJM Interconnection Queues.

Capacity Capability Senior Task Force Update

The Capacity Capability Senior Task Force charter was approved at the March 26 MRC in order to consider provisions to implement Effective Load Carrying Capability to calculate the capacity market capability of all Intermittent Resources (such as wind and solar) and limited duration resources (such as Energy Storage Resources). The group aims to complete a proposal in August for filing with FERC before October 30, consistent with a deadline FERC set in [an April 10 order](#). PJM proposed design components at the second meeting on April 27, and the group will consider proposed solution options at the May 20 meeting.

Proposed Amendments to Attachment M-3 of the PJM Tariff

The Notice of Transmission Owners Consultation with the Members Committee Regarding Proposed Amendments to Attachment M-3 of the PJM Tariff is available on behalf of the PJM Transmission Owners has been posted with today's meeting materials. Note that written comments on the Attachment M-3 Amendments may be submitted for consideration by email to: Comments_for_Transmission_Owners@pjm.com on or before June 8, 2020.

Future Meeting Dates

Thursday, May 21, 2020	9:00 a.m. – 12:00 p.m.	Special PC: Critical Infrastructure	WebEx
Tuesday, June 02, 2020	9:00 a.m. – 12:00 p.m.	Planning Committee	PJM Conference & Training Center/ WebEx
Friday, June 19, 2020	1:00 p.m. – 4:00 p.m.	Special PC: Critical Infrastructure	PJM Conference & Training Center/ WebEx
Tuesday, July 07, 2020	9:00 a.m. – 12:00 p.m.	Planning Committee	PJM Conference & Training Center/ WebEx
Tuesday, August 04, 2020	9:00 a.m. – 12:00 p.m.	Planning Committee	PJM Conference & Training Center/ WebEx
Tuesday, September 01, 2020	9:00 a.m. – 12:00 p.m.	Planning Committee	PJM Conference & Training Center/ WebEx
Tuesday, October 06, 2020	9:00 a.m. – 12:00 p.m.	Planning Committee	PJM Conference & Training Center/ WebEx
Wednesday, November 04, 2020	9:00 a.m. – 12:00 p.m.	Planning Committee	PJM Conference & Training Center/ WebEx
Tuesday, December 01, 2020	9:00 a.m. – 12:00 p.m.	Planning Committee	PJM Conference & Training Center/ WebEx

Attendance List

David Souder (Chair)	PJM Interconnection, LLC	Not Applicable
Molly Mooney (Secretary)	PJM Interconnection, LLC	Not Applicable
Jeff Dennis	Advanced Energy Economy	Not Applicable
Ed Achaab	AEP Energy Partners, Inc.	Other Supplier
Kiran Thammineni	Ameren Corporation	Not Applicable
Tyler Berton	American Electric Power	Not Applicable
Ryan Dolan	American Municipal Power	Electric Distributor
Gerit Hull	American Municipal Power, Inc.	Electric Distributor
Art Iler	American Municipal Power, Inc.	Electric Distributor
Steven Lieberman	American Municipal Power, Inc.	Electric Distributor
Gary Fuerst	American Transmission Systems, Inc.	Transmission Owner
Brock Ondayko	Appalachian Power Company	Transmission Owner

David Canter
Takis Laios
Brinda Malladi
Kevin Kilgallen
Zelalem Tekle
Gary Guy
John McDaniel
Eric Yeh
Tom Jens
Ron Pezon
Brian Vayda
Diane Janicki
Stephen Kelly
Tony Lopez-Lopez
Greg Poulos
Bill Allen
Alan Engelmann
Paul Mills
Ron Regner
Rehan Gilani
Haibin Sun
Guy Filomena
Lynn Horning
Carl Johnson
Jonathan Sasser
Chris Jylka
John Horstmann
Joe DeLosa
David Hastings
Ruth Ann Price
David Witt
Mark Gill
Kyle Hannah
Tania Jones
Connie Lowe
Bao Pham
Yajun Zheng
Ryen Lawson
William Jett
Steve Steinkuhl
John Sturgeon
Julie Mason
Mandy Meadors
Steve Abate
Gian Alian
Joe Pilch
Patrick Grau
Iker Chocarro
Darrin Adams
Nathan Bradley
Chuck Dugan
John Brodbeck
Rob Stupar
Malcolm Ainspan
Bruce Campbell
Thomas Leeming
Harsha Jasti
Sharon Midgley
Pablo Ovando
Melanie Sanders
Robert Taylor
Kevin Thundiyil
Russel Schiefer
Roozbeh Shegari
Chad Singer

Appalachian Power Company
Appalachian Power Company
Arevon Energy Management
Avangrid Renewables LLC
Baltimore Gas and Electric
Baltimore Gas and Electric Company
Baltimore Gas and Electric Company
Baltimore Gas and Electric Company
Black Oak Energy, LLC
Borough of Chambersburg
Borough of Park Ridge
Boston Energy Trading and Marketing LLC
Brookfield Energy Marketing LP
Bryndan Associates, Inc.
CAPS
Commonwealth Edison Company
Commonwealth Edison Company
Commonwealth Edison Company
Commonwealth Edison Company
ConEdison Energy, Inc.
Constellation Energy Services, Inc.
Customized Energy Solutions, Ltd.
Customized Energy Solutions, Ltd.
Customized Energy Solutions, Ltd.
Customized Energy Solutions, Ltd.
Daymark Energy Advisors
Dayton Power & Light Company (The)
DE Public Service Commission
Dhast Co
Division of the Public Advocate of the State of Delaware
Dominion Energy
Dominion Energy Virginia
Dominion Virginia Power
Dominion Virginia Power
Dominion Virginia Power
Dominion Virginia Power
Dominion Virginia Power
Dominion Virginia Power
Duke Energy Business Services LLC
Duke Energy Business Services LLC
Duke Energy Carolinas, LLC
Duke Energy Ohio, Inc.
Duke Energy Ohio, Inc.
Duquesne Light Company
Duquesne Light Company
Duquesne Light Company
Dynergy Marketing and Trade, LLC
E.ON Climate & Renewables North America, Inc.
East Kentucky Power Cooperative, Inc.
East Kentucky Power Cooperative, Inc.
East Kentucky Power Cooperative, Inc.
EDP Renewables North America, LLC
Enel Green Power
Energy Curtailment Specialists, Inc.
EnergyConnect, Inc.
Exelon
Exelon Business Services Company, LLC
Exelon Business Services Company, LLC
Exelon Business Services Company, LLC
Exelon Business Services Company, LLC
Exelon Business Services Company, LLC
Exelon Business Services Company, LLC
Exelon Generation Co., LLC
Exelon Generation Co., LLC
Fellon McCord

Transmission Owner
Transmission Owner
Not Applicable
Generation Owner
Transmission Owner
Transmission Owner
Transmission Owner
Transmission Owner
Other Supplier
Electric Distributor
Electric Distributor
Generation Owner
Other Supplier
Not Applicable
Not Applicable
Transmission Owner
Transmission Owner
Transmission Owner
Transmission Owner
Other Supplier
Other Supplier
Not Applicable
Not Applicable
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Transmission Owner
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Not Applicable
End User Customer
Transmission Owner
Not Applicable
Transmission Owner
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Generation Owner
Transmission Owner
Other Supplier
Transmission Owner
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Transmission Owner
Generation Owner
Generation Owner
Not Applicable

[illegible]

Michele Greening	PJM Interconnection, LLC	Not Applicable
Joe Hay	PJM Interconnection, LLC	Not Applicable
Suzanne Herel	PJM Interconnection, LLC	Not Applicable
Michael Herman	PJM Interconnection, LLC	Not Applicable
Liem Hoang	PJM Interconnection, LLC	Not Applicable
Tim Horger	PJM Interconnection, LLC	Not Applicable
Richard Konowal	PJM Interconnection, LLC	Not Applicable
Mark Kuras	PJM Interconnection, LLC	Not Applicable
Matthew LaRocque	PJM Interconnection, LLC	Not Applicable
Jay Liu	PJM Interconnection, LLC	Not Applicable
Amanda Long	PJM Interconnection, LLC	Not Applicable
Yiming Mao	PJM Interconnection, LLC	Not Applicable
Paul McGlynn	PJM Interconnection, LLC	Not Applicable
Shaun Murphy	PJM Interconnection, LLC	Not Applicable
Darlene Phillips	PJM Interconnection, LLC	Not Applicable
Chris Pilon	PJM Interconnection, LLC	Not Applicable
Jason Quevada	PJM Interconnection, LLC	Not Applicable
John Reynolds	PJM Interconnection, LLC	Not Applicable
Paul Scheidecker	PJM Interconnection, LLC	Not Applicable
Ken Schuyler	PJM Interconnection, LLC	Not Applicable
David Schweizer	PJM Interconnection, LLC	Not Applicable
Ken Seiler	PJM Interconnection, LLC	Not Applicable
Jordan Shenk	PJM Interconnection, LLC	Not Applicable
Jeffrey Shields	PJM Interconnection, LLC	Not Applicable
Mark Sims	PJM Interconnection, LLC	Not Applicable
Stan Sliwa	PJM Interconnection, LLC	Not Applicable
Jeff Slusser	PJM Interconnection, LLC	Not Applicable
Jim Snow	PJM Interconnection, LLC	Not Applicable
Mark Stanisz	PJM Interconnection, LLC	Not Applicable
Christina Stotesbury	PJM Interconnection, LLC	Not Applicable
Jack Thomas	PJM Interconnection, LLC	Not Applicable
Jen Tribulski	PJM Interconnection, LLC	Not Applicable
Stuart Widom	PJM Interconnection, LLC	Not Applicable
Jere Williamson Downs	PJM Interconnection, LLC	Not Applicable
Art Wolfe	PJM Interconnection, LLC	Not Applicable
Scott Gass	PowerGEM	Not Applicable
Shadab Ali	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
John Feller	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Sameera Kancherla	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Meagan Kuchan	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Orlando Marrero-Torres	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Steven Nadel	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Christopher Szmodis	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Amber Thomas	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Gary Greiner	PSEG Energy Resources and Trade LLC	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
Alex Stern	Public Service Electric & Gas Company	Transmission Owner
Heather Svenson	Public Service Electric & Gas Company	Transmission Owner
Cari VanAmburg	Recurrent Energy LLC	Generation Owner
Ray Mason	ReliabilityFirst Corporation	Not Applicable
Tom Hoatson	Riverside Generating, LLC	Other Supplier
Lubaba Islam	Rockland Electric Company	Transmission Owner
Rollie Mangonon	Rockland Electric Company	Transmission Owner
Rich Heidorn	RTO Insider	Not Applicable
Michael Yoder	RTO Insider	Not Applicable
Bill Skumanich	RTR Energy Solutions LLC	Not Applicable
Sean Chang	Shell Energy North America (US), LP	Other Supplier
John Rohrbach	Southern Maryland Electric Cooperative	Electric Distributor
Jennifer Hohenshilt	Talen Energy Marketing, LLC	Generation Owner
Brad Swalwell	Tangent Energy Solutions, Inc.	Other Supplier
Kenneth Foladare	Tangibl	Not Applicable
Syed Ahmad	The Federal Energy Regulatory Commission	Not Applicable
John Sillin	The Federal Energy Regulatory Commission	Not Applicable



Draft Minutes

Ibrahima Kalle
Edrissa Cham
Vince DeGiusto
Mike Cizenski
David Essah
Neil Joshipura
Ronnie Bailey
Craig Crider
Chris Mertz
Peter Nedwick
James Wilson

Tibiri Energies
Tradewind Energy, Inc.
UGI Utilities, Inc.
Virginia State Corporation Commission
Virginia State Corporation Commission
Virginia State Corporation Commission
Virginia Electric & Power Company
Virginia Electric & Power Company
Virginia Electric & Power Company
Virginia Electric & Power Company
Wilson Energy Economics

Not Applicable
Not Applicable
Transmission Owner
Not Applicable
Not Applicable
Not Applicable
Transmission Owner
Transmission Owner
Transmission Owner
Transmission Owner
Not Applicable

Author: Molly Mooney