



July Planning Committee Teleconference / WebEx July 7, 2020 9:00 a.m. – 12:30 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 July 7, 2020 Planning Committee Agenda. An announcement was made regarding two upcoming training sessions for Pre Queue and Post ISA education sessions. No changes to the agenda were requested.
- 3. Molly Mooney reviewed the draft minutes posted for the June 2nd, 2020 meeting and the Planning Committee approved the minutes.
- 4. Molly Mooney reviewed the Planning Committee Work Plan through the first two quarters of 2020. A request was made to provide more granularity on the task ending dates.

Endorsements (9:15 – 10:15)

5. PMU Placement in RTEP Planning Process

Shaun Murphy, PJM, reviewed the problem statement, issue charge and proposed solution to address PMU requirements in the RTEP planning process. After stakeholder discussion, the committee voted on the issue charge and proposed solution. The committee approved the PMU Placement in RTEP Planning Process Issue Charge and the proposed solution to address this issue as part of the Quick Fix process outlined in Section 8.6.1 of Manual 34 with a vote of 136 Yes (89%), 16 No (11%), 17 Abstain.

First Reads (10:15 - 11:00)

6. Load Model Selection

Patricio Rocha-Garrido, PJM, presented the results of the Load Model selection process for the 2020 Reserve Requirement Study. The committee will be requested to endorse this Load Model selection at the August PC meeting.

7. Manual 14A, B and G Changes

Onyinye Caven, PJM, presented changes to Manuals 14A, 14B and 14G in relation to the FERC's Order on PJM's Order 845 Second Compliance Filing. The committee will be requested to endorse the Manual changes at the August PC meeting.

Informational Updates (11:00 – 12:30)

8. Attachment M-3 Update

Aaron Berner, PJM, provided an Attachment M-3 update including a summary of improvements since October 2019, current efforts underway, and reviewed an action item list. Dave Souder communicated





that moving forward the Attachment M-3 process will be integrated into the standing committee agendas, specifically, the Action Item list will be part of the TEAC and Attachment M-3 updates will be part of the PC. Stakeholders had no additional questions or comments.

9. Recent Load Impacts

Andrew Gledhill, PJM, presented the estimated Covid-19 impacts on recent loads.

10. Manual 14C Update

Mark Sims, PJM, provided an informational update for anticipated changes to Manual 14C: Generation and Transmission Interconnection Facility Construction, to enhance the cost and status tracking language for baseline and supplemental projects.

11. State Agreement Approach

Mark Sims, PJM, provided an informational discussion on the PJM State Agreement Approach. Mark Sims will continue to provide additional details surrounding the PJM State Agreement Approach at upcoming Planning Committee meetings.

12. MEPETF Phase 3 – Package C1(Capacity Window)

Nick Dumitriu, PJM, presented proposed language updates for OATT Attachment DD, Section 15 to incorporate removal of obsolete language in package C1 revisions.

13. FERC Update

Pauline Foley, PJM, provided an update on the recent FERC order on its section 206 investigation and compliance directive regarding PJM's immediate-need reliability exemption.

14. Reliability Compliance Update

Mark Kuras, PJM, provided an update on the activities, issues and items of interest at NERC, SERC, and RF.

15. Critical Infrastructure Stakeholder Update

Christina Stotesbury, PJM, discussed the work being done at the most recent Critical Infrastructure Stakeholder Oversight Special Planning Committee sessions.

Issue Tracking: Critical Infrastructure Stakeholder Oversight

16. Storage As Transmission Asset Update

Michele Greening, PJM discussed work being done at the most recent Storage As Transmission Asset Special Planning Committee sessions.

Issue Tracking: Storage As a Transmission Asset

17. Capacity Capability Senior Task Force Update

Andrew Levitt, PJM, discussed work being done at the Capacity Capability Senior Task Force under the Market and Reliability Committee regarding Effective Load Carrying Capability (ELCC).





Informational Posting

Model Build Activity Update

2020 Series MMWG

- Powerflow The 2020 series MMWG Trial 1 cases were submitted to Powertech on Friday June 26, 2020;
 Powertech will provide Trial 1 cases by Friday July 17, 2020; the TOs will submit updates for the Trial 1 cases by Friday July 24, 2020;
 PJM will submit Trial 1 updates to Powertech by Friday July 31, 2020.
- Dynamics PJM will request dynamic load models and dynamic device models from the TOs for SVCs, STATCOMs, synchronous condensers and FACTs devices on Monday July 13, 2020; to meet their MOD-032 obligation, the TOs will provide requested models by Friday September 25, 2020. PJM will submit dynamics data to Powertech by Friday September 4, 2020.

Future Meeting Dates

Friday, July 17, 2020 Tuesday, August 04, 2020 Friday, August 14, 2020 Monday, August 17, 2020 Monday, August 17, 2020 Monday, September 01, 2020 Tuesday, September 22, 2020 Tuesday, September 22, 2020 Tuesday, September 22, 2020 Truesday, October 22, 2020 Tuesday, October 22, 2020 Tuesday, October 22, 2020 Tuesday, December 01, 2020	Special PC: Storage As a Transmission Asset Special PC: Critical Infrastructure Special PC: Pre Queue Education Session Special PC: Storage As a Transmission Asset Planning Committee Special PC: Critical Infrastructure Special PC: Post ISA Education Session Special PC: Storage As a Transmission Asset Planning Committee Special PC: Storage As a Transmission Asset Planning Committee Special PC: Storage As a Transmission Asset Planning Committee	WebEx PJM Conference & Training Center/ WebEx
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Author: Molly Mooney

Attendance List

David Souder (Chair)	PJM Interconnection, LLC	Not Applicable
Molly Mooney (Secretary)	PJM Interconnection, LLC	Not Applicable
Muhsin Abdur-Rahman	ABB	Not Applicable
Ed Achaab	AEP Energy Partners, Inc.	Other Supplier
Tyler Berton	American Electric Power	Not Applicable
Art Iler	American Municipal Power, Inc.	Electric Distributor
Steven Lieberman	American Municipal Power, Inc.	Electric Distributor
Gary Fuerst	American Transmission Systems, Inc.	Transmission Owner
David Canter	Appalachian Power Company	Transmission Owner
Takis Laios	Appalachian Power Company	Transmission Owner
Eric Yeh	Baltimore Gas and Electric Company	Transmission Owner
Tom Jens	Black Oak Energy, LLC	Other Supplier
Diane Janicki	Boston Energy Trading and Marketing LLC	Generation Owner
Stephen Kelly	Brookfield Energy Marketing LP	Other Supplier
Khan Adnan	Burns McDonnell	Not Applicable
Bill Allen	Commonwealth Edison Company	Transmission Owner
Alan Engelmann	Commonwealth Edison Company	Transmission Owner
Paul Mills	Commonwealth Edison Company	Transmission Owner
Rehan Gilani	ConEdison Energy, Inc.	Other Supplier
Haibin Sun	Constellation Energy Services, Inc	Other Supplier
Guy Filomena	Customized Energy Solutions, Ltd.	Not Applicable
Lynn Horning	Customized Energy Solutions, Ltd.	Not Applicable





Carl Johnson Jonathan Sasser Tim Bockhorn Raj Roychowdhury Michael Russ Dimitar Kozhuharov David Hastings

Ruth Ann Price Mark Gill

Michael Brennan Junbiao Han Kyle Hannah Tania Jones Bao Pham Yajun Zheng Ryen Lawson William Jett

Steve Steinkuhl Bryan Garnett Julie Mason Gian Alian

Joe Pilch Tonja Wicks Patrick Grau Iker Chocarro

Darrin Adams Nathan Bradley Chuck Dugan Michael Norman John Brodbeck

Gauray Mehta Malcolm Ainspan Thomas Leeming

Harsha Jasti Sharon Midgley Robert Taylor Amber Thomas Kevin Thundivil Roozbeh Shegarfi

Chad Singer Tom Bainbridge Lou D'Alessandris Laura DiNicola Larre Hozempa Jay Salem Jeff Stuchell Fmma Nix Travis Stewart

Tom Hyzinski Rory Sweeney Jeff Whitehead Christine Ericson Ethan Kimbrel

Mike Gahimer Brandon Bowen Dave Johnston Ryan Sims Megan Wisersky

Kathleen Wehnes David Mabry Christin Domian John Dadourian Cynthia Holland

Morris Schreim

George Kogut

Customized Energy Solutions, Ltd. Customized Energy Solutions, Ltd. Dayton Power & Light Company (The) Dayton Power & Light Company (The) Dayton Power & Light Company (The) Delaware Public Service Comission

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Division of the Public Advocate of the State of Delaware

Dominion Energy Virginia Dominion Virginia Power Dominion Virginia Power

Duke Energy Business Services LLC Duke Energy Business Services LLC

Duke Energy Ohio, Inc. Duke Energy Ohio, Inc. Duquesne Light Company **Duquesne Light Company Duquesne Light Company**

Dynegy 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. East Kentucky Power Cooperative, Inc. EDP Renewables North America, LLC Enel Trading North America, LLC Energy Curtailment Specialists, Inc.

Exelon

Exelon Business Services Company, LLC Exelon Business Services Company, LLC

Exelon Generation Co., LLC

Fellon McCord FirstEnergy Solutions Corp. Gabel and Associates Gabel and Associates GT Power Group **GT Power Group** GT Power Group

Illinois Commerce Commission Illinois Commerce Commission IN Office of Utility Consumer Counselor Indiana Utility Regulatory Commission Indiana Utility Regulatory Commission

Interstate Gas Supply, Inc. Madison Gas and Electric

Maryland Public Service Commission Maryland Public Service Commission McNees Wallace & Nurick LLC Mitsubishi Electric Power Products Inc.

Monitoring Analytics, LLC

New Jersey Board of Public Utilities New York Power Authority

Not Applicable Not Applicable

Transmission Owner Transmission Owner Transmission Owner Not Applicable

Not Applicable **End User Customer** Not Applicable

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Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable

End User Customer Other Supplier Other Supplier Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Other Supplier



Gabriel Hollis

Draft Minutes

NextEra Energy Transmission, LLC



Frederico Von Pinho NextEra Energy Transmission, LLC Yang Wang NiSource Inc Jung Suh Noble Americas Energy Solutions LLC Erik Heinle Office of the Peoples Counsel for the District of Columbia Yohannes Mariam Office of the Peoples Counsel for the District of Columbia Bill Squibb Ohio Valley Electric Old Dominion Electric Cooperative Adrien Ford Bill Pezalla Old Dominion Electric Cooperative **Gregory Carmean OPSI** Tomas Rodriguez OPSI Pulin Shah PECO Energy Company **David Anders** PJM Interconnection, LLC PJM Interconnection. LLC Scott Baker Aaron Berner PJM Interconnection, LLC Matthew Bernstein PJM Interconnection, LLC Tim Burdis PJM Interconnection, LLC PJM Interconnection, LLC Onyinye Caven Yang Chen PJM Interconnection, LLC Jason Connell PJM Interconnection, LLC **Becky Davis** PJM Interconnection, LLC Ilyana Dropkin PJM Interconnection. LLC Nicolae Dumitriu PJM Interconnection, LLC PJM Interconnection, LLC Subbarao Eedupuganti Janell Fabiano PJM Interconnection, LLC Thomas Falin PJM Interconnection. LLC Zhenyu Fan PJM Interconnection, LLC Larry Farmer PJM Interconnection, LLC Pauline Foley PJM Interconnection, LLC Sheila Foley PJM Interconnection. LLC Suzanne Glatz PJM Interconnection, LLC Craig Glazer PJM Interconnection, LLC Andrew Gledhill PJM Interconnection, LLC Jim Glennon PJM Interconnection. LLC Michele Greening PJM Interconnection, LLC Suzanne Herel PJM Interconnection, LLC Michael Herman PJM Interconnection, LLC PJM Interconnection. LLC Jack Keegan Richard Konowal PJM Interconnection, LLC PJM Interconnection, LLC Mark Kuras Andrew Levitt PJM Interconnection, LLC Susan McGill PJM Interconnection, LLC Paul McGlynn PJM Interconnection. LLC Shaun Murphy PJM Interconnection, LLC PJM Interconnection, LLC Christopher Payne Darlene Phillips PJM Interconnection, LLC Chris Pilona PJM Interconnection. LLC Jason Quevada PJM Interconnection, LLC PJM Interconnection, LLC John Reynolds Patricio Rocha-Garrido PJM Interconnection, LLC Ken Schuyler PJM Interconnection. LLC Mark Sims PJM Interconnection, LLC Harliv Singh PJM Interconnection, LLC Michael Sitarchyk PJM Interconnection, LLC Mark Stanisz PJM Interconnection. LLC Christina Stotesbury PJM Interconnection, LLC Jack Thomas PJM Interconnection, LLC Jen Tribulski PJM Interconnection, LLC Preston Walker PJM Interconnection. LLC Stuart Widom PJM Interconnection, LLC PPL Electric Utilities Corp. dba PPL Utilities Shadab Ali John Feller PPL Electric Utilities Corp. dba PPL Utilities

Meagan Kuchan

Horst Lehmann

Christopher Szmodis

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

Transmission Owner

PPL Electric Utilities Corp. dba PPL Utilities

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Gary Greiner Cameron DeAngelis Luis Garcia Esam Khadr Leonid Lyakhovich Rich Marinelli Adrian Newall Alex Stern Heather Svenson Caroline Tkachuk Ray Mason Tom Hoatson Lubaba Islam Rich Heidorn Michael Yoder Bill Skumanich Anthony Doering Sean Chang Jennifer Hohenshilt Hamid Kazerooni Kenneth Foladare John Sillin Edrissa Cham Vince DeGiusto

Adam Weber

Ronnie Bailey

James Wilson

Mike Jacobs

Chris Mertz

PSEG Energy Resources and Trade LLC Public Service Electric & Gas Company ReliabilityFirst Corporation Riverside Generating, LLC Rockland Electric Company RTO Insider RTO Insider RTR Energy Solutions LLC Savion Energy Shell Energy North America (US), LP Talen Energy Marketing, LLC Talen Energy Marketing, LLC The Federal Energy Regulatory Commission Tradewind Energy, Inc. UGI Utilities, Inc.

Union Electric Company d/b/a Ameren Missouri

Virginia Electric & Power Company

Virginia Electric & Power Company

Wilson Energy Economics

Xtreme Power

Transmission Owner Not Applicable Other Supplier Transmission Owner Not Applicable Not Applicable Not Applicable Not Applicable Other Supplier Generation Owner Generation Owner Not Applicable Not Applicable Not Applicable Transmission Owner Other Supplier Transmission Owner Transmission Owner Not Applicable Not Applicable