

Planning Committee PJM Conference and Training Center, Audubon, PA February 11, 2016

Administration

- 1. Mr. Steve Herling 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.
- Mr. Herling asked Ms. Bridgid Cummings to review the meeting minutes of the January 7, 2016 Planning Committee meeting. Mr. Herling asked the Planning Committee to approve the minutes. Mr. John Kopinski made a motion to approve the minutes. Mr. David Pratzon seconded the motion. In a voice vote, the Planning Committee approved the January 7th Planning Committee Minutes.

Informational Updates

3. NERC/RRO Update

Mr. Bill Temple provided an update to the Planning Committee on recent NERC activities and PJM compliance activities. The Periodic Review Team voted to retire BAL-005-1 once BAL-006-2 becomes effective and to add sub-requirements to requirements of FAC-001-2. Comments and ballots for on-going standard reviews can be found under the January 7th Planning Committee Material. NERC Standards subject to future enforcement can be found under the January 7th Planning Committee Material at the <u>Planning Committee Website</u>.

4. RTEP Proposal Window Update

Mr. Michael Herman presented an update on the RTEP Proposal Window implementation and communication enhancements. Resources regarding contact information, 2016 RTEP Proposal registration, and Axway registration materials can be found under the January 7th Planning Committee Material at the <u>Planning Committee Website</u>. The files for the 2016 RTEP Proposal Window are preliminary at this time. The proposal windows 2 and 3 will be similar in scope and timeline as those for 2014 and 2015.

5. Order 1000 Lessons Learned

Mr. Frank Koza discussed plans for restarting the Special PC Session, Order 1000 Lessons Learned meetings. The first meeting will be held on February 23, 2016 from 1pm to 3pm at PJM. The initial focus will be to discuss adding transparency to the RTEP proposal process.

6. <u>Sunset Phase Angle Regulator TF and Long Term Firm Transmission Service TF</u>

Mr. Aaron Berner discussed the work of the Phase Angle Regulator Task Force and the Long Term Firm Transmission Service Task Force. Mr. Berner discussed that these groups had accomplished their goals. The two task forces were approved to be sunset. Updates to PJM Manual 14E,



identified as separate from the PARTF requirements, are still being conducted but will be brought to the Planning Committee within the next few meetings.

7. MOD 32 GEN Portal Review

Mr. Jonathan Thompson provided a review of MOD-032-1 and the MOD-032 Gen Portal developed to support compliance. The effective date of MOD-032-1 Requirement 2 is July 1, 2016. The pilot is currently available for use for generation owners looking to gain experience and provide feedback. Any Independent Power Providers are also encouraged to participate in the pilot. Please contact MOD-032@pjm.com with questions and feedback. The Gen Model will open for MOD-032 business for 2016 submissions on May 1, 2016 and will close on July 31, 2016. Sample screen shots of the Gen Portal can be found under the January 7th Planning Committee Material at the Planning Committee Website.

8. CIP 002 and CIP 014 Process

Mr. Tom Kay, Commonwealth Edison Company, facilitated a discussion of the PJM Assessment Process and Process Timeline related to CIP-002 and CIP-014. PJM staff will develop material to present at the next PC Meeting to continue the discussion.

9. RAAS Update

Mr. Tom Falin provided an update on RAAS Activities. The RAAS discussed the impact of modeling DR in RRS, the load model selection, and world modeling (Capacity Benefit of Ties). The next RAAS meeting will be held on February 23, 2016 to continue to discuss the study assumptions with the intent to bring a recommendation to the PC in April or May. <u>RAAS website</u>

10. Capacity Performance Update

Mr. Falin facilitated a discussion of CIR determinations and Capacity Factors of Intermittent Resources. The current rules for Capacity Injection Rights, Summer Capacity Verification Tests were discussed. Potential updates to the wind and solar class average reporting and calculation were discussed, items were presented to show differences in determining wind and solar capacity factors based on the median values as opposed to the average values. The handling of UCAP determinations for Run of River Hydro and Landfill Gas units under the Capacity Performance construct was also discussed. PJM staff will conduct further analysis to present at the next PC meeting to continue the discussion of UCAP and CIR Determinations of Intermittent Resources.

11. Local Planning Update

Mr. Paul McGlynn provided an update on Local Planning. An overview of prior discussions of Local Planning in relation to FERC Order 1000, FERC Docket ER15-1344, and Subregional RTEP Committee meetings was provided. Mr. McGlynn noted a draft problem statement was reviewed at the January 28, 2016 MRC Meeting regarding developing PJM Criteria/Guidelines for Assessing End of Life Transmission Facilities.



12. MISO Queue Reform

Mr. Berner presented an update on the MISO Queue Reform. As part of the reform, MISO is splitting their process into 3 phases, as opposed to 2 phases. The proposed queue reform does not align with PJM's calendar for studies and provisions in the process to delay final phase studies for certain conditions may cause schedule shifts. Members are encouraged to attend the MISO/PJM JCM stakeholder meeting on February 18, 2016.

Informational Section

Model On Demand Update

Review of Model on Demand data submittals by TOs is well under way. Upon completion of the data submittals, preliminary cases for the 2016 series of MMWG cases will be put together for base case years 1, 2, 5, and 10 and TOs will be asked to review these cases. The anticipated timeframe for the model builds is the second week in February. For questions or comments, please email MOD@PJM.com

Subcommittee/Task Force Updates

Earlier Queue Submittal Task Force (EQSTF)

At the 1/19 meeting of the EQSTF, PJM provided results from its recent poll which asked stakeholders to indicate their preference for various options for the established design components. The group then moved into package development. At the 2/26 meeting, PJM will present additional education on package implications and present draft Tariff language for discussion. EQSTF website. EQSTF website

Designated Entity Design Standards Task Force (DEDSTF)

At the 1/21/2016 meeting of the DEDSTF PJM led a discussion about the future organizational direction of the task force. PJM outlined options as had been previously discussed by the group, and worked with members to structure a poll seeking information regarding members thoughts on the organizational direction of the group. The poll opened on 1/25/2016 and will be open through 2/5/2016. The next meeting of the DEDSTF is 2/23/2016, at which PJM will share the results of the poll. DEDSTF website

Future Meeting Dates

March 10, 2016 April 7, 2016 May 12, 2016 June 9, 2016 July 14, 2016 August 11, 2016 September 15, 2016 October 6, 2016	9:30 a.m. 9:30 a.m. 9:30 a.m. 9:30 a.m. 9:30 a.m. 9:30 a.m. 9:30 a.m. 9:30 a.m.	PJM Conference and Training Center, Audubon, PA PJM Conference and Training Center, Audubon, PA
November 3, 2016	9:30 a.m.	PJM Conference and Training Center, Audubon, PA
December 15, 2016 Author: Bridgid Cummings	9:30 a.m.	PJM Conference and Training Center, Audubon, PA





(Secretary)

Steve Herling (Chair)

Bridgid Cummings

Thomas Rutigliano

Rebecca Schwarz

Kiran Thammineni

Lisa McAlister

Chris Norton

Edward Tatum

Dale Burmester

Chris Hagman

Gary Fuerst

Kevin Patten

David Bloom

Hugh Scott

Ron Pezon

Travis Bouslog

Tom Hoatson

Michael Natrin

Barry Trayers

Connie Davis

William Allen

Thomas Kay

Paul Mills

Thomas Leeming

Ronald Regner

Jason Barker

Dan Griffiths

David Scarpignato

Craig Lockwood

Takis Laios

Jim Zweig Brock Ondayko

Nicolas Koehler

Jerod Marker

Sean Black

Toby Hu

Company

PJM Interconnection, LLC PJM Interconnection, LLC

Achieving Equillibrium AEP Indiana-Michigan Transmission Company, Inc. AEP Indiana-Michigan Transmission Company, Inc. AEP Ohio Transmission Company, Inc. Ameren Corporation Ameren Corporation Ameren Corporation American Municipal Power, Inc. American Municipal Power, Inc. American Municipal Power, Inc. American Transmission Company, LLC American Transmission Company, LLC American Transmission Systems, Inc. American Transmission Systems, Inc. Appalachain Power Company Appalachain Power Company Appalachian Power Company Appalachian Power Company Baltimore Gas and Electric Company Baltimore Gas and Electric Company Borough of Chambersburg **Burns McDonnell** Calpine Energy Services, L.P. Carroll County Energy LLC Carroll County Energy LLC Citigroup Energy, Inc. City of Cleveland, DPU, Div of Cleveland Public Pwr Commonwealth Edison Company Constellation NewEnergy, Inc Consumer Advocates of PJM States

Sector

Not Applicable Not Applicable

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Jamie Leicar Guy Filomena Carl Johnson Jonathan Sasser John Horstmann Mike Hurd Joseph DeLosa John Farber Jaclyn Cantler **David Hastings** Janhavi Dharmadhikari **Ronnie Bailey** Craig Crider Kyle Hannah Linda Haskins Bao Pham Frank Zhang George Owens Greg Pakela Steve Steinkuhl Judy Stubbe Chad Hirsh Iker Chocarro Chris Adams **Darrin Adams** Nathan Bradley Chuck Dugan Wes Fluty Karen Onaran Justin Campbell Kevin Kilgallen **Bruce Campbell** Andrew Tan Jason Barker **Melanie Sanders** Sharon Midgley Shadrack Orero Roozbeh Shegarfi Nicole Buell Alina Halay

CPS Energy

Customized Energy Solutions, Ltd.* Customized Energy Solutions, Ltd.* Customized Energy Solutions, Ltd.* Dayton Power & Light Company (The) Dayton Power & Light Company (The) **DE Public Service Commission DE Public Service Commission** Delmarva Power & Light Company Dhast Co Dominion Energy Marketing, Inc. **Dominion Virginia Power Dominion Virginia Power** Downes Associates, Inc. DTE Energy Trading, Inc. **Duke Energy Business Services LLC** Duke Energy Ohio, Inc. **Duquesne Light Company** E.on Climate & Renewables North America, Inc East Kentucky Power Cooperative, Inc. Edison Electric Institute Edison Transmission, LLC Emerald Energy Consulting, LLC EnergyConnect, Inc. Eversource Exelon Business Services Company, LLC Exelon Business Services Company, LLC Exelon Generation Co., LLC Exelon Generation Co., LLC Exelon Generation Co., LLC Federal Energy Regulatory Commission (The) Federal Energy Regulatory Commission (The)

Electric Distributor Not Applicable Not Applicable Not Applicable Transmission Owner Transmission Owner Not Applicable Not Applicable **Electric Distributor** Not Applicable **Generation Owner** Transmission Owner Transmission Owner Transmission Owner Transmission Owner Transmission Owner Transmission Owner Other Supplier Other Supplier Transmission Owner Transmission Owner Transmission Owner **Generation Owner** Transmission Owner Transmission Owner Transmission Owner Transmission Owner Transmission Owner Not Applicable Other Supplier Not Applicable Other Supplier Not Applicable Transmission Owner Transmission Owner **Generation Owner Generation Owner** Generation Owner Not Applicable Not Applicable



Thomas Bainbridge Jim Benchek Martin Bolan Lou D'Alessandris David Marton Jon Schneider Jeff Stuchell John Syner **Trent Carlson** Jody Holland **Rachel Hulett** Norman Williams Derek Hagaman **David Pratzon** Tom Shields Kenneth Foladare Kaustubh Deshmukh John Kopinski Brenda Prokop Sandeep Baidwan Robert O'Connell Heather Thomson David Mabry Erik Hanser Adam Solomon Christin Domian Arah Nezam Sarmadi George Kogut David Davis Frederico Von Pinho James Manning Miles Taylor

FirstEnergy Solutions Corp. Gridliance, GP, LLC Gridliance, GP, LLC Gridliance, GP, LLC Gridliance, GP, LLC **GT** Power Group **GT** Power Group Iberdrola Renewables, LLC **IMG Midstream LLC ITC Holdings** ITC Mid-Atlantic Development LLC ITC Mid-Atlantic Development LLC LS Power Transmission, LLC Main Line Electricity Market Consultants Marec McNees Wallace & Nurick LLC Michigan Public Service Commission Midwest Independent Transmission System Operator, Inc Mitsubishi Electric Power Products Inc. New England Power Company New York Power Authority NextEra Energy Power Marketing, LLC NextEra Energy Transmission, LLC North Carolina Electric Membership Corporation Northern Indiana Public Service Company NRG Power Marketing LLC Office of the Peoples Counsel for the D.C. **Old Dominion Electric Cooperative Old Dominion Electric Cooperative Old Dominion Electric Cooperative** OPSI PECO Energy Company PEPCO Holdings, Inc.

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

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Neal Fitch

Yohannes Mariam

Steven Lieberman

Gregory Carmean

Mike Donnelly

Dhruv Acharya

John Donelson

John Gouda

Transmission Owner



Gloria Godson **Dave Anders** Jerry Bell Aaron Berner Janell Fabiano Tom Falin **Pauline Foley** Suzanne Glatz Andrew Gledhill Jim Glennon Michael Herman **Bradley Hofferkamp** Frank Koza Jr. Chuck Liebold Erich Mauroschadt Melissa Maxwell Susan McGill Paul McGlynn Raul Perez **Dave Pomian** Jason Quevada John Reynolds Patricio Rocha Garrido Ken Seiler Mark Sims William Temple Amber Thomas Mike Ward **Glenn Weiss** Scott Gass David Gladey Frank Richardson Gary Greiner Mohamed Zahidi Vilna Gastong James Caristia Kathleen Crowley Elizabeth Gostkowski **Daniel Hutt** Esam Khadr

PEPCO Holdings, Inc. PJM Interconnection, LLC PowerGEM PPL Electric Utilities Corp. dba PPL Utilities PPL Electric Utilities Corp. dba PPL Utilities PSEG Energy Resources and Trade LLC PSEG Energy Resources and Trade LLC Public Service Electric & Gas Public Service Electric & Gas Company Public Service Electric & Gas Company

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



Leonid Lyakhovich **Rich Marinelli** Jerry Martinez MD Sakib Massamba Samb Glenn Catenacci **Debbie Gebolys Roleto Mangonon** Suzanne Herel Andy Peebles Carla Engalla Todd Ryan Jack Halpern **Becky Davis** Michele Greening Barbara Scoglietti **Boone Staples** Pati Esposito-Hils Chandana Bommareddy Eric Sorber Pat Hayes Adam Weber David Essah Steve Chafin James Wilson Mike Jacobs

Public Service Electric & Gas Company Public Service Eletric and Gas Public Utilities Commission of Ohio (The) **Rockland Electric Company RTO** Insider Shell Energy North America (US), LP Smart Wires Smart Wires Stantec Talen Energy Marketing, LLC Talen Energy Marketing, LLC Tangent Energy Solutions, Inc. Tenaska Power Services Co TransCanada Power Marketing Ltd. **TRC Solutions** UGI Utilities, Inc. Union Electric Company d/b/a Ameren Missouri Union Electric Company d/b/a Ameren Missouri Virgina State Corporation Commission Virginia Electric & Power Company Wilson Energy Economics **Xtreme Power**

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