



Underperformance Risk Management Senior Task Force (URMSTF)
PJM Conference and Training Center
June 2, 2016
9:00 a.m. – 4:00 p.m. EPT

Administration

- Ms. Rebecca Carroll, PJM, and Ms. Susan Kenney, PJM, provided administrative updates, performed roll call, and reviewed the Antitrust, Code of Conduct, and Public Meetings/Media Participation Guidelines.
- 2. Minutes from the May 4, 2016 Underperformance Risk Management Senior Task Force meeting were approved with **0 objections and 0 abstentions**.
- 3. Ms. Rebecca Carroll, PJM, discussed the direction of the Task Force with the addition of the External Capacity Performance Enhancements problem statement. The June 16th meeting will be dedicated to the External Capacity Performance Enhancement problem statement; future meetings going forward will be split into morning and afternoon sessions dedicated to Underperformance Risk Management and External Capacity Performance Enhancements respectively.
- 4. Ms. Jen Tribulski, PJM, provided a summary of the FERC Order on Rehearing and Compliance related to the Capacity Performance filing, and reviewed portions relevant to the Underperformance Risk Management work activities.

Governing Documents for URMSTF

- 5. Ms. Carroll reviewed the proposed task force timeline and Work Plan. No additional comments were made by the group; the work plan will be considered final going forward.
- Ms. Carroll reviewed the draft URMSTF Charter. Several prior updates were approved and minor updates to the Underperformance Risk Management portion of the charter were agreed upon by the group.

URMSTF Education

- 7. PJM Staff provided updates to topics discussed at the May 4, 2016 URMSTF meeting regarding Performance Assessment Collateral requirements, overlapping historical Performance Assessment Hours and Shortage events, and requirements of FRR Physical Option in the event the assessment occurs after the subsequent delivery year has started.
- 8. PJM Staff reviewed an example of a Performance Assessment Hour for a Closed Loop Interface (CLI).
- 9. Mr. Michael Borgatti, Gabel Associates, provided education regarding ISO New England's Pay For Performance capacity market construct and its associated risk management opportunities.

URMSTF CBIR Process

10. The discussion to finalize stakeholder interests in the matrix was deferred until the June 28th meeting.

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11. The discussion to identify and document design components was deferred until the June 28th meeting. Pre-prepared design components can be provided in advance of the meeting (email to Susan.Kenney@pjm.com) or they can be provided during the meeting.

Governing Documents for External Capacity Performance Enhancements (ECPE)

- 12. Mr. Asanga Perera, PJM, reviewed the Problem Statement and Issue Charge approved at the Markets & Reliability Committee on May 26, 2016.
- 13. Ms. Rebecca Carroll, PJM, reviewed the proposed task force timeline and Work Plan.
- 14. Ms. Carroll led a discussion on the development of the URMSTF Charter specific to the External Capacity Performance Enhancement Problem Statement.

Education

15. PJM Staff provided stakeholders with education on PJM's Current External Capacity Performance (CP) requirements and challenges. Education will continue at the June 16th meeting.

Meeting Recap and Future Agenda Items

Future Meeting Dates

June 16, 2016 June 28, 2016 July 15, 2016 July 29, 2016 August 17, 2016 August 31, 2016 September 12, 2016 September 19, 2016 October 13, 2016 October 19, 2016 November 10, 2016 November 21, 2016 December 7, 2016	9:30 a.m 4:00 p.m. 9:00 a.m 12:00 p.m. 9:00 a.m 4:00 p.m. 9:00 a.m 12:00 p.m. 9:00 a.m 4:00 p.m. 9:00 a.m 4:00 p.m. 9:00 a.m 4:00 p.m.	PJM Conference & Training Center/ WebEx
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Members in Attendance

Carroll, Rebecca (Facilitator) Kenney, Susan (Secretary) Barker, Jason Brodbeck, John Esposito, Pati Fitch, Neal Greening, Michele Johnson, Carl Kogut, George Manning, James Scarpignato, David	PJM Interconnection, LLC PJM Interconnection, LLC Exelon Business Services Company, LLC EDP Renewables North America, LLC TransCanada Power Marketing Ltd. NRG Power Marketing LLC Talen Energy Marketing, LLC Customized Energy Solutions, Ltd.* New York Power Authority North Carolina Electric Membership Corporation Calpine Energy Services, L.P.
Manning, James	North Carolina Electric Membership Corporation

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

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Also in Attendance

Baranowski, John Bastian, Jeffrey Berner, Aaron Borgatti, Michael Bruce, Susan Bruno, Patrick Canchi, Devendra Coll Daniel Dadourian, John Del Viscio, Michael Esterly, Theresa Griffiths, Dan Horger, Tim Josyula, Siva Keech, Adam Kilgallen, Kevin O'Connell, Robert Perera, Asanga Pratzon, David Rich, Edward Scheidecker, Paul

Souder, David

Tribulski, Jennifer

PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC Gabel and Associates McNees Wallace & Nurick LLC PJM Interconnection, LLC Monitoring Analytics, LLC PJM Interconnection, LLC Monitoring Analytics, LLC PJM Interconnection, LLC PJM Interconnection, LLC Consumer Advocates of PJM States

PJM Interconnection, LLC Monitoring Analytics, LLC PJM Interconnection, LLC **Emerald Energy**

Main Line Electricity Market Consultants

PJM Interconnection, LLC

GT Power Group

PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable

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In Attendance via WebEx/Teleconference

Ainspan, Malcolm Austin, Larry Batta, Michael Benchek, Jim Bhavaraju, Murty Bloom, David Bolan, Martin Bonner, Charles Bouchez, Nicole Campbell, Bruce Carmean, Gregory Cicero, Nick

Collins, Leonard Coyle, Billy Davis, Connie DeLosa, Joseph Dickson, Douglas Domian, Christin Dorko, Keri Dugan, Chuck Farber, John Feierabend, Rick

Filomena, Guy Gilani, Rehan Guerry, Katie Hart, Joy Hayes, Patrick Helmick, Doug Hoatson, Tom Horstmann, John Horton, Dana Hsia, Eric

Hyatt, John Jardot, Gina Johnson, Nick

Hunt, Jim

Energy Curtailment Specialists, Inc. PJM Interconnection, LLC Virginia Electric & Power Company FirstEnergy Solutions Corp. PJM Interconnection, LLC

Baltimore Gas and Electric Company

FirstEnergy Solutions Corp.

Virginia Electric & Power Company

New York ISO EnergyConnect, Inc.

OPSĬ

FirstEnergy Solutions Corp. State of Delaware Dominion Virginia Power

City of Cleveland, DPU, Div of Cleveland Public Pwr

DE Public Service Commission New Jersey Board of Public Utilities Mitsubishi Electric Power Products Inc.

Monitoring Analytics, LLC

East Kentucky Power Cooperative, Inc. DE Public Service Commission Dominion Energy Marketing, Inc. Customized Energy Solutions, Ltd.*

Leidos EnerNOC, Inc.

North Carolina Electric Membership Corporation Union Electric Company d/b/a Ameren Missouri

Gen Ops, LLC

Riverside Generating, LLC

Dayton Power & Light Company (The) Appalachian Power Company PJM Interconnection, LLC Allegheny Electric Cooperative, Inc. Monitoring Analytics, LLC Essential Power Rock Springs, LLC

Tenaska Power Services Co.

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

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

Generation Owner

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Kelly, Stephen Keshavamurthy, Bhavana Kingston, Amber Kothakapu, Rakesh Lacy, Catharine Liang-Nicol, Cecilia Long, Scott Ma, Alex Manning, James Midgley, Sharon Mok, Alan Mota, Virginia Norton, Chris Ondayko, Brock Pakela, Greg Patel, Keyur Patten, Kevin Prokop, Brenda Rayhorn ES, Carolyn Sasser, Jonathan Schneider, Jon Shanker, Roy Singer, Chad Trayers, Barry Vargo, Daniel White, Doug WiegandJackson, Laurie Wilhite, Chad Wilmoth, Emily Wisersky, Megan Yu, Joel

Author: S. Kenney

Brookfield Energy Marketing LP PJM Interconnection, LLC North Carolina Electric Membership Corporation Illinois Municipal Electric Agency Dominion Virginia Power Monongahela Power Company d/b/a Allegheny Power Allegheny Electric Cooperative, Inc. Invenergy, LLC North Carolina Electric Membership Corporation Exelon Generation Co., LLC Duke Energy Kentucky, Inc. Swiss Re Global Markets American Municipal Power, Inc. Appalachian Power Company DTE Energy Trading, Inc. PJM Interconnection, LLC Appalachian Power Company ITC Mid-Atlantic Development LLC Dominion Virginia Power Customized Energy Solutions, Ltd.* FirstEnergy Solutions Corp. H.Q. Energy Services (U.S.), Inc. Fellon McCord Citigroup Energy, Inc. Allegheny Electric Cooperative, Inc. North Carolina Electric Membership Corporation North America Power Partners LLC FirstEnergy Solutions Corp. Dominion Virginia Power Madison Gas & Electric Co. Rockland Electric Company

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

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