

**Underperformance Risk Management Senior Task Force (URMSTF)
PJM Conference and Training Center
June 28, 2016
9:30 a.m. – 4:00 p.m. EPT**

Administration

1. Ms. Rebecca Carroll, PJM, and Ms. Susan Kenney, PJM, provided administrative updates, performed roll call, and reviewed the Anti-Trust, Code of Conduct, and Public Meetings/Media Participation Guidelines.
2. Minutes from the June 16, 2016 Underperformance Risk Management Senior Task Force meeting were approved with **0 objections and 0 abstentions**.

Underperformance Risk Management CBIR Process

3. Ms. Rebecca Carroll, PJM, led a discussion to review the stakeholder interests and the common themes identified for the Underperformance Risk Management topic.
4. Ms. Carroll led a discussion to review the design components developed and presented at the June 2, 2016 meeting. In order to improve clarity on certain design components and solution options, supporting details will be added to the Design Component Details and Option Details tabs of the matrix and will be posted prior to the next meeting.
5. Stakeholders discussed potential solutions options for design components. An updated version of the matrix was posted for stakeholder review following the conclusion of the meeting.

External Capacity Performance Enhancements Education

6. Mr. Asanga Perera, PJM, presented education regarding Firm Flow Entitlements (FFE) and Firm Flow Limits (FFLs).

ECPE CBIR Process

7. Ms. Rebecca Carroll, PJM, led a discussion to review the stakeholder interests and the common themes identified for the External Capacity Performance Enhancements topic.
8. Ms. Carroll led a discussion to review the design components developed and presented at the June 16, 2016 meeting.
9. Ms. Carroll led a discussion to review the solution options for the identified design components.

Meeting Recap and Future Agenda Items

Future Meeting Dates

July 15, 2016
July 29, 2016

9:30 a.m. – 4:00 p.m.
9:00 a.m. – 4:00 p.m.

PJM Conference & Training Center/ WebEx
PJM Conference & Training Center/ WebEx



Draft Minutes

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| August 17, 2016 | 9:00 a.m. – 4:00 p.m. | PJM Conference & Training Center/ WebEx |
| August 31, 2016 | 9:00 a.m. – 4:00 p.m. | PJM Conference & Training Center/ WebEx |
| September 12, 2016 | 9:00 a.m. – 4:00 p.m. | PJM Conference & Training Center/ WebEx |
| September 19, 2016 | 9:00 a.m. – 4:00 p.m. | PJM Conference & Training Center/ WebEx |
| October 13, 2016 | 9:00 a.m. – 12:00 p.m. | PJM Conference & Training Center/ WebEx |
| October 19, 2016 | 9:00 a.m. – 4:00 p.m. | PJM Conference & Training Center/ WebEx |
| November 10, 2016 | 9:00 a.m. – 12:00 p.m. | PJM Conference & Training Center/ WebEx |
| November 21, 2016 | 9:00 a.m. – 4:00 p.m. | PJM Conference & Training Center/ WebEx |
| December 7, 2016 | 9:00 a.m. – 4:00 p.m. | PJM Conference & Training Center/ WebEx |
| December 21, 2016 | 9:00 a.m. – 4:00 p.m. | PJM Conference & Training Center/ WebEx |

In Attendance

| | | |
|--------------------------------|--|--------------------|
| Carroll, Rebecca (Facilitator) | PJM Interconnection, LLC | Not Applicable |
| Kenney, Susan (Secretary) | PJM Interconnection, LLC | Not Applicable |
| Anders, David | PJM Interconnection, LLC | Not Applicable |
| Barker, Jason | Exelon Business Services Company, LLC | Transmission Owner |
| Berner, Aaron | PJM Interconnection, LLC | Not Applicable |
| Borgatti, Michael | Gabel and Associates | Not Applicable |
| Coll, Daniel | PJM Interconnection, LLC | Not Applicable |
| Del Viscio, Michael | PJM Interconnection, LLC | Not Applicable |
| Esterly, Terri | PJM Interconnection, LLC | Not Applicable |
| Esposito, Pati | TransCanada Power Marketing Ltd. | Other Supplier |
| Fabiano, Janell | PJM Interconnection, LLC | Not Applicable |
| Fitch, Neal | NRG Power Marketing LLC | Generation Owner |
| Hagaman, Derek | GT Power Group | Not Applicable |
| Johnson, Nick | Tenaska Power Services Co. | Generation Owner |
| Josyula, Siva | Monitoring Analytics, LLC | Not Applicable |
| Keech, Adam | PJM Interconnection, LLC | Not Applicable |
| Kilgallen, Kevin | Avangrid Renewables, LLC | Generation Owner |
| Millitello, Nicole | PJM Interconnection, LLC | Not Applicable |
| O'Connell, Robert | Main Line Electricity Market Consultants | Not Applicable |
| Perera, Asanga | PJM Interconnection, LLC | Not Applicable |
| Pratzon, David | GT Power Group | Not Applicable |
| Rich, Edward | PJM Interconnection, LLC | Not Applicable |
| Scheidecker, Paul | PJM Interconnection, LLC | Not Applicable |
| Souder, Rich | PJM Interconnection, LLC | Not Applicable |
| Stadelmeyer, Rebecca | PJM Interconnection, LLC | Not Applicable |
| Tribulski, Jennifer | PJM Interconnection, LLC | Not Applicable |
| Whitehead, Jeffrey | Direct Energy Business Marketing, LLC | Other Supplier |
| Williams, Stanley | PJM Interconnection, LLC | Not Applicable |
| Yannarell, Dave | Talen Energy Marketing, LLC | Generation Owner |

In Attendance via WebEx / Conference call

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| Ainspan, Malcolm | Energy Curtailment Specialists, Inc. | Other Supplier |
| Austin, Larry | PJM Interconnection, LLC | Not Applicable |
| Barnowski, John | PJM Interconnection, LLC | Not Applicable |
| Benchek, Jim | FirstEnergy Solutions Corp. | Transmission Owner |
| Bolan, Martin | FirstEnergy Solutions Corp. | Transmission Owner |
| Bonner, Charles | Dominion Virginia Power | Not Applicable |
| Brodbeck, John | EDP Renewables North America, LLC | Other Supplier |
| Brown, Rich | PJM Interconnection, LLC | Not Applicable |
| Bruce, Susan | McNees Wallace & Nurick LLC | Not Applicable |
| Campbell, Bruce | EnergyConnect, Inc. | Other Supplier |
| Canter, David | Appalachian Power Company | Transmission Owner |



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| Collins, Leonard | State of Delaware | Not Applicable |
| Coyle ES, Billy | Dominion Virginia Power | Not Applicable |
| Croop, Danielle | PJM Interconnection, LLC | Not Applicable |
| Currier, Jeff | Virginia Electric & Power Company | Transmission Owner |
| Dadourian, John | Monitoring Analytics, LLC | Not Applicable |
| Davis, Connie | City of Cleveland, DPU, Div of Cleveland Public Pwr | Electric Distributor |
| Demuynck, Rene | New Jersey Board of Public Utilities | Not Applicable |
| Dugan, Chuck | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Esposito-Hils, Pati | TransCanada Power Marketing Ltd. | Generation Owner |
| Farber, John | DE Public Service Commission | Not Applicable |
| Filomena, Guy | Customized Energy Solutions, Ltd.* | Not Applicable |
| Fitch, Neal | NRG Power Marketing, LLC | Generation Owner |
| Foladare, Kenneth | Tangibl, LLC | Generation Owner |
| Fondacci, Luis | North Carolina Electric Membership Corporation | Electric Distributor |
| Griener, Gary | PSEG Energy Resources and Trade, LLC | Other Supplier |
| Guerry, Katie | EnerNOC, Inc. | Other Supplier |
| Hagaman, Derek | GT Power Group | Not Applicable |
| Hart, Joy | North Carolina Electric Membership Corporation | Electric Distributor |
| Hastings, David | DhastCo | Not Applicable |
| Helmick, Douglas | Keystone Projects | Not Applicable |
| Helms, Joseph | Rainbow Energy Marketing Corporation | Other Supplier |
| Hoatson, Tom | Riverside Generating, LLC | Other Supplier |
| Horstmann, John | Dayton Power & Light Company (The) | Transmission Owner |
| Horton, Dana | Appalachian Power Company | Transmission Owner |
| Hsia, Eric | PJM Interconnection, LLC | Not Applicable |
| Hudis, Garbiella | Gabel & Associates | Not Applicable |
| Hugee, Jacqui | PJM Interconnection, LLC | Not Applicable |
| Hyzinski, Tom | Talen Energy Marketing, LLC | Generation Owner |
| Jardot, Gina | Essential Power Rock Springs, LLC | Transmission Owner |
| Kelly, Stephen | Brookfield Energy Marketing LP | Other Supplier |
| Kingston, Amber | North Carolina Electric Membership Corporation | Electric Distributor |
| Kothakapu, Rakesh | Illinois Municipal Electric Agency | Electric Distributor |
| Lacy, Catharine | Dominion Virginia Power | Not Applicable |
| Loudenburg, Zack | Pennsylvania Renewable Resources, Associates | Generation Owner |
| Mabry, Dave | McNees Wallace & Nurick LLC | Not Applicable |
| Manning, James | North Carolina Electric Membership Corporation | Electric Distributor |
| Marton, David | FirstEnergy Solutions Corp. | Transmission Owner |
| Matheson, Doug | EnerNOC, Inc. | Other Supplier |
| Midgley, Sharon | Exelon Business Services Company, LLC | Transmission Owner |
| Nichols, Lloyd | Rainbow Energy Marketing Corporation | Other Supplier |
| O'Connor, Siobhan | Energy Authority, Inc. (The) | Other Supplier |
| Ondayko, Brock | Appalachain Power Company | Transmission Owner |
| O'Neill, Jack | PJM Interconnection, LLC | Not Applicable |
| Pakela, Greg | DTE Energy Trading, Inc. | Other Supplier |
| Patten, Kevin | Appalachain Power Company | Transmission Owner |
| Rajan, Abhijit | Dominion Resources | Not Applicable |
| Rayhorn, Carolyn | Dominion Virginia Power | Not Applicable |
| Reid, Ryan | Buckeye Power, Inc. | Electric Distributor |
| Riding, MQ | Essential Power OPP, LLC | Transmission Owner |
| Rohrbach, John | Southern Maryland Electric Cooperative | Electric Distributor |
| Rugh, Chris | EverPower Commercial Services, LLC | Generation Owner |
| Salaneck, Alexandra | Monitoring Analytics, LLC | Not Applicable |
| Sasser, Jonathan | Customized Energy Solutions, Ltd.* | Not Applicable |
| Schneider, Jon | FirstEnergy Solutions Corp. | Transmission Owner |
| Shanker, Roy | H.Q. Energy Services (U.S.), Inc. | Other Supplier |
| Singer, Chad | Fellon McCord | Not Applicable |
| Thomson, Heather | Mid-Atlantic Renewable Energy | Not Applicable |
| Vargo, Dan | Allegheny Electric Cooperative, Inc. | Electric Distributor |
| Webster, John | Icetec.com, Inc. | Other Supplier |



Draft Minutes

Wehr, Christopher
Wilhite, Chad
Williams, Stan
Wilmoth, Emily
Yu, Joel

Metropolitan Edison Company
FirstEnergy Solutions Corp.
PJM Interconnection, LLC
Dominion Virginia Power
Rockland Electric Company

Transmission Owner
Transmission Owner
Not Applicable
Not Applicable
Transmission Owner

Author: S. Kenney
