



Planning Committee PJM Interconnection August 13, 2015

Administration

1. Administrative Items

- A. Mr. 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.
- B. Mr. Herling asked Ms. Thomas to review the meeting minutes of the July 9, 2015 Planning Committee meeting. Mr. Pratzon then made a motion to approve the minutes. Mr. Lieberman seconded the motion. In a voice vote, the Planning Committee approved the July 9, 2015 Planning Committee minutes.
- C. Mr. Herman provided an update on the on-going 2015 RTEP Proposal Windows. PJM closed the 2015 RTEP Proposal Window 1 on August 4th and is in the process of evaluating the submittals. The 2015 RTEP Proposal Window 2 opened on August 5th and included Transmission Owner Criteria Violations. In September, PJM will present preliminary recommendations for the Window 1 violation and will provide details on the proposals submitted in the Window 2.
- D. Mr. Berner provided an update regarding the PARTF which is reviewing the applicability of transmission withdrawal or injection rights for PARs. The task force is in process of doing scenario analysis and will be discussing their finding at the next meeting on August 18th. This upcoming meeting will focus on the package to be recommended to PC for implementation.
- E. Mr. Gledhill discussed the upcoming facilitation of the Earlier Queue Project Submittal Task Force. Mr. Gledhill will be the facilitator. Susan McGill will be the secretary and Dave Egan will be the subject matter expert. Meetings for this task force will be established soon and communicated to the Planning Committee.
- F. Mr. Herman discussed the new task force for Designated Entity Design Standards. Mr. Herman will be the facilitator, Anisha Fernandes will be secretary, and Sue Glatz will be one of the subject matter experts. Notifications will be sent to PC and TEAC for upcoming meetings. Mr. Herman requested that stakeholders review the issue charge and problem statement to get appropriate members to participle in on these discussions.
- G. Mr. McGlynn provided an update on potential changes to the Light Load Criteria that had been reviewed at previous Planning Committee meetings. PJM has received comments from different entities regarding the potential changes to the Light Load Criteria. PJM will provide an update on those efforts at the September meeting and provide clarification on the timeline for implementing the changes in both baseline RTEP studies and interconnection gueue studies.

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Endorsements/Approvals

2. Order 1000 Lesson Learned

Mr. Herman provided a final review of various templates to incorporate into the Proposal Window process, specifically the Proposal Redaction Guidelines, Greenfield RTEP Template Proposal, and RTEP Upgrade Proposal Template.

First Readings

3. Order 1000 Lesson Learned – Voltage Threshold and Administrative Items

Ms. Glatz reviewed draft Operating Agreement language regarding voltage. Ms. Glatz reviewed the prior and new data on historical greenfield projects per voltage level in the Transmission Planning databases, noting that less than 1% was allocated to multiple zones. Ms. Glatz presented the Proposed Guide for Voltage Floor which describes the scenarios in which violations would be included in the RTEP Proposal Windows. Members expressed concerns with voltage threshold and with the proposed language. Some concerns were voiced with having any threshold and others were concerned that the language would still include cases where a simple fix could resolve the issue without being included in the window. Similar members mentioned violations on a line that has several radial points of load along it, which could be a simple fix. Members asked for clarification on whether or not a violation that is below 200kV but the contingency is greater than 200kV would be included in the window. Members were requested to provide feedback on the table of scenarios for when PJM would post a violation in a window. The administrative changes in the Operating Agreement remained the same as presented at the July Planning Committee meeting and were not discussed. Ms. Glatz will be seeking endorsement at the September meeting

4. Winter Study Criteria

Mr. McGlynn reviewed Manual 14B additions regarding Winter Study Criteria. Mr. McGlynn reviewed the winter case topology and dispatch guidelines. Mr. McGlynn briefly discussed the planning studies that would be conducted, specifically the Winter Generator Deliverability, Common Mode Outage, Winter Load Deliverability, N-1, and N-1-1 for both thermal and voltage. Members inquired as to whether or not this new criterion will be applied to the queue. PJM will provide clarity at the September meeting where endorsement will also be sought.

5. PJM Manuals Update for Multi-Driver Approach

Mr. Herman provided a first read of PJM Manual14 series updates regarding Multi-Driver Approach. Manual language changes in both clean and redline versions were posted for both Manuals 14A and 14B. Mr. Herman reviewed the Proportional and Incremental Multi-Driver Methods which will be added to the Manual 14A and 14B updates. Mr. Herman will present the changes at the August 27th MRC and will come back to both PC and MRC in September for endorsements.

6. Long Term Firm Charter





Mr. Berner provided a first read of the charter for Coordination of Long Term Firm Transmission Service Study. The charter details the group's work activities and intended deliverables. The problem statement for this task force was previously presents and endorsed at prior Planning Committee meetings. Mr. Berner will be back in September to seek endorsement for the charter.

Education

7. NERC/RRO Update

Mr. Kuras provided the Planning Committee with an update on recent NERC activities and PJM compliance activities. Comments for on-going standard reviews can be found under the August 13th Planning Committee Material. NERC Standards subject to future enforcement can be found under the August 13th Planning Committee Material.

8. Weather History used in the Load Forecast Model

Mr. Gledhill discussed PJM's investigation of the weather history used in the Load Forecast Model. Members are requesting additional LAS meetings to further discuss the new weather period and other load forecast changes.

9. Energy Market Uplift

Mr. McGlynn provided a first read of Manual 14 language changes to incorporate energy market uplift in the planning process. The draft language requires PJM to review historical uplift payments, system conditions and drivers for the uplift payments related to reactive services.

10. NERC TPL Standards Update

Mr. Herman provided an update on the NERC TPL 001 - 004 Standards effective January 1, 2016. These standards were originally approved October 2013. Requirements R1 and R7 were effective January 1, 2015 and Requirements R2 through R6 and R8 are effective January 1, 2016. The redline and clean Manual 14B changes related to the TPL requirements update have been posted in the Planning Committee material. Mr. Herman reviewed new requirements that weren't previously required such as Short Circuit Analysis, Dynamic Load Modeling, Non-Consequential 75 MW Load Loss, and 6 Month+ Equipment Outages. PJM will continue to review the new TPL standards and will be seeking endorsement of these changes in upcoming meetings.

11. PJM.com Update

Ms. Luna discussed the enhancements to the planning Web pages on PJM.com. Several pages have been updated, such as the Interconnection Queues, Cost Allocation and Long-Term Firm Transmission Service. A list of the enhancements can be found at the Planning Committee page under the August 13th material. The updates are intended to improve ease of use and performance. PJM will be continuing to improve the Planning section throughout the remainder of the year and into 2016. Please provide feedback via the Website Feedback link located on pim.com.





Future Agenda Items

There were no future agenda items suggested.

Future Meeting Dates

September 10, 2015	9:30 AM	PJM Conference and Training Center, Valley Forge, PA
October 8, 2015	9:30 AM	PJM Conference and Training Center, Valley Forge, PA
November 5, 2015	9:30 AM	PJM Conference and Training Center, Valley Forge, PA
December 3, 2015	9:30 AM	PJM Conference and Training Center, Valley Forge, PA

Attendance

Attendees Company Name

Steven Herling PJM Interconnection, LLC Amber Thomas PJM Interconnection, LLC

William Gallagher A.F. Mensah, Inc.

Kiran Kumaraswamy AES Energy Storage LLC

Sean Black Ameren
Scott Deffenderfer Ameren
Kiran Thammineni Ameren

Kamran Ali
David Canter
Nick Koehler
Takis Laios
American Electric Power
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Lisa McAlister American Municipal Power, Inc.

Mike Schlindwein

Dale Burmester

Chris Hagman

Gary Fuerst

American Transmission Company, LLC

American Transmission Company, LLC

American Transmission Company, LLC

American Transmission Systems, Inc.

Brock Ondayko Appalachain Power Company Markian Melnyk Atlantic Grid Operations A, LLC

David Bloom
John McDaniel
Baltimore Gas and Electric Company
Baltimore Gas and Electric Company
Zelalem Tekle
Baltimore Gas and Electric Company
Baltimore Gas and Electric Company
Borough of Butler, Butler Electric Division

Ron Pezon Borough of Chambersburg

travis bouslog Burns & McDonnell

Jakob Metzler Castleton Commodities Merchant Trading L.P
Connie Davis City of Cleveland, Div of Cleveland Public Pwr
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James Alexander Comcast

William Allen Commonwealth Edison Company





Thomas Leeming Commonwealth Edison Company

Paul Mills Commonwealth Edison Company
Ronald Regner Commonwealth Edison Company

Dan Griffiths Consumer Advocates of PJM States

Sandeep Baidwan Continuum Associates

Guy Filomena Customized Energy Solutions, Ltd.*
Carl Johnson Customized Energy Solutions, Ltd.*
Jonathan Sasser Customized Energy Solutions, Ltd.*
John Horstmann Dayton Power & Light Company (The)
Mike Hurd Dayton Power & Light Company (The)

John Farber DE Public Service Commission
Jaclyn Cantler Delmarva Power & Light Company
Michael Natrin Delmarva Power & Light Company

David Hastings Co.

George Owens Downes Associates, Inc.

George Dawe Duke Energy Business Services LLC
Anita Schafer Duke Energy Business Services LLC
Steve Steinkuhl Duke Energy Business Services LLC

Bryan Garnett

Julie Mason

Judy Stubbe

Chad Hirsh

Joseph Pilch

Duke Energy Ohio, Inc.

Duke Energy Ohio, Inc.

Duke Energy Ohio, Inc.

Duquesne Light Company

Duquesne Light Company

Iker Chocarro

Aguirrebengoa E.ON Climate & Renewables North America, Inc.

Chris Adams

Darrin Adams

East Kentucky Power Cooperative, Inc.

Bruce Campbell EnergyConnect, Inc.

Gina Jardot Essential Power Rock Springs, LLC

Andrew Tan Eversource

Melanie Sanders Exelon Business Services Company, LLC Rebecca Stadelmeyer Exelon Business Services Company, LLC

Roozbeh Shegarfi Exeon

Syed Ahmad Federal Energy Regulatory Commission
Jonathan Fernandez Federal Energy Regulatory Commission





Alina Halay Federal Energy Regulatory Commission

Thomas Bainbridge
Jim Benchek
FirstEnergy Solutions Corporation
Lou D'Alessandris
FirstEnergy Solutions Corporation
GE Energy Financial Services

Charles Vansant Golder Associates
Derek Hagaman GT Power Group
David Pratzon GT Power Group

Kevin Gorman Highlands Energy Group LLC (The)
James Nash Hudson Transmission Partners, LLC
Bob Thomas Illinois Municipal Electric Agency
Thomas Fecho Indiana Michigan Power Company

Alex Ma Invenergy

Ben Abing ITC Raju Brahmandhabheri ITC

Kaustubh Deshmukh ITC Holdings

John Kopinski ITC Mid-Atlantic Development LLC Brenda Prokop ITC Mid-Atlantic Development LLC

Sharon Segner LSPower

Robert O'Connell Main Line Electricity Market Consultants
Ralph De Geeter Maryland Public Service Commission

David Mabry McNees Wallace & Nurick LLC

Lynn Hecker MISO
Eric Laverty MISO
James Okullo MISO
Adam Solomon MISO
Zheng Zhou MISO

Don Morrow Navigant Consulting

George Kogut New York Power Authority

Frederico Von Pinho NextEra Energy Transmission, LLC
Jung Suh Noble Americas Energy Solutions LLC

John Lemire North Carolina Electric Membership Corporation
Miles Taylor Northern Indiana Public Services Company

Neal Fitch NRG Power Marketing LLC

Steven Lieberman Old Dominion Electric Cooperative
Ed Tatum Old Dominion Electric Cooperative
James Wright Old Dominion Electric Cooperative





Robert Duan Ontario Power Generation Inc.

Gregory Carmean OPSI Debbie Gebolys Other Nikhil Kumar Other

Kyle Clifford PECO Energy Company
Mike Donnelly PECO Energy Company
Pulin Shah PECO Energy Company
Dhruv Acharya PEPCO Holdings, Inc.
Gloria Godson PEPCO Holdings, Inc.
Patricia Kurowski PEPCO Holdings, Inc.
Amber Young PEPCO Holdings, Inc.

Robert Marmet Piedmont Environmental Council

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