

Phase Angle Regulator Task Force
PJM Conference and Training Center
May 14, 2015
9:00 a.m. – 11:30 p.m. EPT

Administration

1. Mr. Scott Baker opened the meeting and reviewed the agenda.
2. Mr. Jason Connell performed the roll call.
3. Mr. Baker reviewed the material from the meetings prior to the formation of task force on the same subject. He also reviewed the proposed timeline for completion of the work delegated to the task force.

Education

4. Mr. Aaron Berner summarized the education materials that were presented by Siemens previously.
5. Mr. Kenneth Carretta (PSEG Services Corp.) presented an overview of the flow control capabilities of phase angle regulators (PARs), previous treatment of PARs in PJM, and potential future discussion points. Mr. David Pratzin mentioned that there were a range of issues to consider with PARs; specifically he questioned what interactions PARs have with other interfaces between control areas. Ms. Becky Webb concurred also stating that a 3%-4% precision could add up as more PARs are added to the system. It was suggested that the task force investigate how adjoining control areas study PARs. It was also suggested by Mr. Carretta and Mr. Berner that consideration of PARs should be in comparison to DC facilities and not other controllable AC facilities such as the VFT.

CBIR Process

6. Mr. Baker led a discussion about Interest Identification for members of the task force. Several interests were identified by the members and are included on the draft matrix distributed with these minutes.

In Attendance (In Person)

Aaron Berner	PJM Interconnection, LLC
David Pratzin	GT Power Group
Derek Hagaman	GT Power Group
Esam Khadr	PSE&G
George Kogut	NYPA
Jason Connell	PJM Interconnection, LLC
John Brodbeck	PHI
John Dadourian	Monitoring Analytics
John Kopinski	ITC Mid-Atlantic LLC
Jonathan Sasser	Customized Energy Solutions Ltd.
Kenneth Carretta	PSEG Services Corporation
Scott Baker	PJM Interconnection, LLC
Vicki Folmar	Monitoring Analytics

In Attendance (Teleconference)

Becky Webb	Commonwealth Edison Company
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Draft Meeting Minutes

Bob O'Connell
Cara Lewis
Carl Johnson
Craig Crider (Dominion)
David Parquet
Gary Fuerst
Gerry Binder (SESCO)
Guy Filomena
Jeff Stuchell
Joel Yu
John Farber
John Horstmann
Kevin Dean
Keyur Patel
Koushy Nareshkumar
Megan Wisersky
Michele Greening
Neal A. Fitch
Stan Gray
Takis Laios
Tom Hoatson
Tom Piascik

Author: Jason Connell

Main Line Electricity Market Consultants
PSE&G
Customized Energy Solutions, Ltd.
Virginia Electric & Power Company
N/A
American Transmission Systems, Inc.
SESCO Enterprises LLC
Customized Energy Solutions, Ltd
FirstEnergy Solutions Corporation
Rockland Electric Company
DE Public Service Commission
Dayton Power & Light Company
McNees Wallace & Nurick LLC
PJM Interconnection, LLC
Potomac Electric Power Company
N/A
PPL EnergyPlus, L.L.C.
NRG Power Marketing LLC
Pattern Energy
American Electric Power
Riverside Generating, LLC
IMG Midstream