

Markets and Reliability Committee
The Chase Center, Wilmington, DE
June 27, 2019
9:00 a.m. – 11:45 a.m. EPT

Administration

Ms. Denise Foster and Mr. Dave Anders welcomed stakeholders, reviewed the agenda, and provided the Anti-trust and Code of Conduct announcements.

Consent Agenda

Items A and B were **approved/endorsed** by acclamation with one objection and no abstentions.

- A. Minutes of the May 30, 2019 meeting of the Markets and Reliability Committee (MRC).
- B. Proposed revisions to Manual 14G: Generation Interconnection Requests to provide clarity on site control requirements, NERC Accepted Stability Models for System Impact analysis, and corrected references and links.

Endorsements/Approvals

1. Fuel Security Senior Task Force Charter

Mr. Tim Horger presented the proposed Fuel Security Senior Task Force Charter. Ms. Marji Philips proposed adding “planning” to “market or operational” in Expected Deliverables 1 and 2. There were no objections, and therefore this was added to the proposed charter. Following discussion, the proposed charter was approved by acclamation with no objections or abstentions.

Issue Tracking: [Fuel Security](#)

2. Manual 06 Amendments

Mr. Brian Chmielewski presented proposed revisions to Manual 06: Financial Transmission Rights. The updates include those made based on the cover to cover review, minor updates to the credit section with a reference Attachment Q and the supplemental credit policy document, and clarifying changes to the OASIS sections. Following discussion, the proposed revisions were endorsed by acclamation with no objections or abstentions.

3. Manual 14B Amendments

- A. Mr. Aaron Berner reported on the status of Planning Committee activities related to proposed revisions to Manual 14B: Regional Transmission Planning Process.
- B. Ms. Sharon Segner, LS Power, discussed outstanding issues being discussed at Special PC meetings regarding proposed revisions to Manual 14B: Regional Transmission Planning Process. Ms. Segner moved and Mr. Ed Tatum, AMP, seconded that voting on the proposed Manual revisions be ~~postponed for 30 days~~ deferred to the July meeting of the MRC.

First Readings

4. Capacity Interconnection Rights Problem Statement and Issue Charge

Mr. Carl Johnson, on behalf of the PJM Public Power Coalition, presented a problem statement and issue charge related to capacity interconnection rights. The committee will be asked to endorse these items at its next meeting.

5. PJM Manuals

- A. Mr. Augustine Caven reviewed proposed revisions to PJM Manual 13: Emergency Operations in regards to Resource Limitation Reporting. The committee will be asked to endorse these revisions at its next meeting.
- B. Ms. Terri Esterly reviewed proposed revisions to Manual 13: Emergency Operations and Manual 14D: Generator Operational Requirements as part of the clarification updates to the Non-Retail Behind the Meter Generation business rules. The committee will be asked to endorse these revisions at its next meeting.
- C. Ms. Terri Esterly reviewed proposed revisions to Manual 18: PJM Capacity Market revisions as part of the periodic review. The committee will be asked to endorse these revisions at its next meeting.
- D. Mr. Jerry Bell reviewed proposed revisions to PJM Manual 21: Rules & Procedures for Determination of Generating Capability to include explanations and some omitted testing criteria. The committee will be asked to endorse these revisions at its next meeting.
- E. Mr. Ray Fernandez reviewed proposed revisions to Manual 28: Operating Agreement Accounting revisions as part of the periodic review. The committee will be asked to endorse these revisions at its next meeting.
- F. Mr. Daniel Bennett reviewed proposed revisions to PJM Manual 39: Nuclear Plant Interface Coordination as part of the periodic review with the Nuclear Generators Owners User Group (NGOUG). The committee will be asked to endorse these revisions at its next meeting.

Informational Reports

PJM Value Proposition

Mr. Stu Bresler discussed the recently posted update to the PJM Value Proposition.

<https://www.pjm.com/about-pjm/~media/about-pjm/20151016-value-proposition.ashx>

6. Nuclear Unit Retirement Impact Study

Mr. Nicolae Dumitriu provided information on the study PJM conducted on the analysis of the impacts of announced nuclear retirements on PJM wholesale market prices and emissions.

<https://www.pjm.com/-/media/library/reports-notices/special-reports/20190605-pjm-response-to-ppuc-ohio-consumers-requests-to-analyze-certain-impacts-of-nuclear-power-plant-retirements.ashx?la=en>

Market Efficiency Project Re-Evaluation

Ms. Pauline Foley provided an informational update regarding the Operating Agreement revisions approved by the Members Committee on April 25, 2019 regarding the Market Efficiency Project Re-Evaluation issue.

7. Economic Cost Allocation Stakeholder Notice (This item was not be presented.)

The posted "Economic Cost Allocation Stakeholder Notice" is being provided on behalf of the Transmission Owners' Agreement - Administrative Committee. Please note that written comments on the proposed provisions may be submitted for consideration by email to:

Comments_for_Transmission_Owners@pjm.com on or before July 1, 2019.

Future Agenda Items

No additional future agenda items were identified.

Future Meeting Dates

July 25, 2019	9:00 a.m.	Valley Forge, PA
August 22, 2019	9:00 a.m.	Valley Forge, PA
September 26, 2019	9:00 a.m.	Valley Forge, PA
October 31, 2019	9:00 a.m.	Valley Forge, PA
December 5, 2019	9:00 a.m.	Valley Forge, PA
December 19, 2019	9:00 a.m.	Valley Forge, PA

Author: D. Anders

Voting Participants

LAST NAME	FIRST NAME	MEMBER NAME	SECTOR
Bruce	Susan	Air Products & Chemicals, Inc.	End-Use Customer
Long	Scott	Allegheny Electric Cooperative	Electric Distributor
Johnson	Carl	Allegheny Electric Cooperative, Inc.	Electric Distributor
Benchek	Jim	American Transmission Systems, Inc.	Transmission Owner
Kilgallen	Kevin	Avangrid Renewables, LLC	Generation Owner
Vayda	Brian	Borough Of Park Ridge New Jersey	Electricity Distributor
Janicki	Diane	Boston Energy Trading And Marketing	Other Supplier
Kelly	Stephen	Brookfield	Other Supplier
Trayers	Barry	Citigroup Energy, Inc.	Other Supplier
Horstmann	John	Dayton Power & Light Company (The)	Transmission Owner
Philips	Marji	Direct Energy Business, LLC	Other Supplier
Sturgeon	John	Duke Energy	Transmission Owner
Wicks	Tonja	Duquesne Light Company	Transmission Owner
Hyzinski	Thomas	Dynegy Marketing and Trade, LLC	Generation Owner
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Whitehead	Jeffrey	Eastern Generation, LLC	Generation Owner
Brodbeck	John	EDP Renewables	Generation Owner
Hurwich	Mark	Elliott Bay Energy Trading LLC	Other Supplier
Guerry	Katie	Enel X North America, Inc.	Other Supplier
Barker	Jason	Exelon Business Services Company, LLC	Transmission Owner
Pelletier	Eveline	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Hoatson	Tom	LS Power	Generation Owner
Hastings	David	MICS	Other Supplier
Ford	Adrien	Old Dominion Electric Cooperative	Electric Distributor
Evrard	David	Pennsylvania Office of Consumer Advocate	End-Use Customer
Thomas	Amber	PPL	Transmission Owner
Greiner	Gary	Public Service Electric & Gas Company	Transmission Owner
Huang	James	Rockland Electric Company	Transmission Owner
Rohrbach	John	Southern Maryland Electric Cooperative	Electricity Distributor
Hohenshilt	Jennifer	Talen Energy	Generation Owner
Swalwell	Bradley	Tangent Energy Solutions, Inc.	Other Supplier
Davis	James	Virginia Electric & Power Company	Transmission Owner

Non Voting Participants

LAST NAME	FIRST NAME	MEMBER NAME	SECTOR
Esposito	Pat	A2A Energy	Not Applicable
Tangirala	Subha	ABB	Not Applicable
Ondayko	Brock	AEP Energy	Transmission Owner

Bockhorn	Tim	AES	Generation Owner
Vargo	Daniel	Allegheny Electric Coop	Electric Distributor
Harmon	Mike	Ameren	Generation Owner
Canter	David	American Electric Power	Not Applicable
Koehler	Nick	American Electric Power	Not Applicable
Laios	Takis	American Electric Power	Not Applicable
McAlister	Lisa	American Municipal Power	Electric Distributor
Lieberman	Steven	American Municipal Power, Inc	Other Supplier
Guntle	Vince	American Power Net	Not Applicable
Tatum	Ed	AMP Transmission, LLC	Transmission Owner
Grau	Patrick	Apogee	Other Supplier
Gates	Terry	Appalachian Power Company	Transmission Owner
Horton	Dana	Appalachian Power Company	Transmission Owner
Poelstra	Tabatha	Appian Way Energy Partners	Other Supplier
Chintapalli	Raj	BP Energy Company	BP Energy Company
Schmidt	Tom	Buckeye Power	Electric Distributor
Poulos	Greg	CAPS	Not Applicable
Metzler	Jakob	CCI	Not Applicable
Huntoon	Steve	Chesapeake Transmission	Other Supplier
Snyder	Sue	CommLine	Not Applicable
Rehan	Gilani	ConEdison Energy	Not Applicable
Horning	Lynn Marie	Customized Energy Solutions, Ltd	Not Applicable
Filomena	Guy	Customized Energy Solutions, Ltd.*	Not Applicable
Price	Ruth	Delaware Division of the Public Advocate	End-Use Customer
Kozhuharov	Dimitar	Delaware Public Service Commission	Not Applicable
Ryen	Lawson	Dominion Energy	Generation Owner
Parkely	Gregg	DTE Energy Trading	Other Supplier
Jett	William	Duke Energy	Transmission Owner
Peoples	John	Duquesne Light Company	Transmission Owner
Chocarro	Iker	E.ON Climate And Renewables	Generation Owner
Adams	Darrin	East Kentucky Power Coop	Transmission Owner
Drom	Rick	Eckert Seamans	Not Applicable
George	Brian	EDF	Other Supplier
Guery	Katie	ENEL	Not Applicable
Campbell	Bruce	Enerwise	Other Supplier
Fazio	Danielle	Englehart	Other Supplier
Adent	Erik	Erik Adent Intelligence	Not Applicable
Carrado	Regina	Exelon	Transmission Owner
Garbini	Marjorie	Exelon	Transmission Owner
Guy	Gary	Exelon	Transmission Owner

Sun	Haibin	Exelon	Transmission Owner
Taylor	Robert	Exelon	Transmission Owner
Walker	Jennifer	Exelon	Transmission Owner
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Martin	Valerie	FERC	Not Applicable
Moncayo	Jorge	FERC	Not Applicable
Bainbridge	Tom	FirstEnergy	Transmission Owner
Cizzucelli	Ashley	FirstEnergy	Transmission Owner
Liang-Nicol	Cecilia	FirstEnergy	Transmission Owner
Mancuso	Melanie	FirstEnergy	Transmission Owner
Stuchell	Jeff	FirstEnergy	Transmission Owner
Laymon	Angelita	FirstEnergy Solutions	Transmission Owner
D'Alessandris	Lou	FirstEnergy Solutions Corp.	Transmission Owner
Hudis	Gabriella	Gabel & Associates	Not Applicable
Stewart	Travis	Gabel & Associates	Not Applicable
Stone	Andy	Gabel Associates	Not Applicable
Shealy	Erin	GDS Associates	Not Applicable
Sweeney	Rory	GT Power Group	Not Applicable
Webster	John	Icetek	Other Supplier
Schum	Alice	Illinois Municipal Electric Agency	Electric Distributor
Leasure	Jill	Keystone Conemaugh Projects Office	Not Applicable
Engleman	Michael	LS Power	Generation Owner
Segner	Sharon	LS Power Transmission, LLC	Not Applicable
Wisersky	Megan	Madison Gas & Electric	Other Supplier
Tanigaki	Seiichiro	Marubeni Power International, Inc	Generation Owner
Hanser	Erik	Michigan Public Service Commission	Not Applicable
Bowring	Joe	Monitoring Analytics	Not Applicable
Bowring	Joseph	Monitoring Analytics	Not Applicable
Salaneck	Alexandra	Monitoring Analytics	Not Applicable
Delosa	Joe	New Jersey Board Of Public Utilities	Not Applicable
Kogut	George	New York Power Authority	Other Supplier
Pinnock	Ashley	NextEra	Other Supplier
Hollis	Gabriel	NextEra Energy Resources LLC	Other Supplier
Wynder	Michael	Nodal Exchange	Not Applicable
Holdbrook	Ruth	NOVEC	Electric Distributor
Colbert	Cathleen	NRG	Generation Owner
Colbert	Kathleen	NRG	Generation Owner
Knernschild	Jenny	ODEC	Electric Distributor
Heinle	Fredrick	Office of the People's Counsel	Not Applicable
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor

Michael	Matthew	Ontario Power Generation	Other Supplier
Carmean	Gregory	OPSI	Other Supplier
Gahimer	Mike	OUC	End-Use Customer
Wilson	Bram	PBF Power Marketing	Generation Owner
Rainey	Frank	PEI Power Corporation	Generation Owner
Tibbetts	Maeve	Pierce Atwood	Not Applicable
Anderson	Jared	Platts	Not Applicable
O'Connell	Robert	PPGI Fund A/B Development, LLC	Generation Owner
Feller	John	PPL	Transmission Owner
Depillo	Raymond	PSEG	Transmission Owner
Zhou	Ming	PSEG	Transmission Owner
Stern	Alex	Public Service Electric & Gas Company	Transmission Owner
Christopher	Mahila	Public Utilities Commission Of Ohio	Not Applicable
Gebolys	Debbie	Public Utilities Commission Of Ohio	Not Applicable
O'Boyle	Brian	Rockland Electric Company	Transmission Owner
Smith	Christen	RTO Insider	Not Applicable
Smith	Christen	RTO Insider	Not Applicable
Toomey	Megan	Talen Energy	Generation Owner
Foladare	Kenneth	Tangibl	Not Applicable
Dasher	Brett	The Energy Authority	Other Supplier
Vander Vorst	Aaron	Tradewind	Not Applicable
Crystle	Gil	UGI Energy Services	Other Supplier
Matuszak	Alex	UGI Energy Services	Other Supplier
Godson	Gloria	Upright Energy	Not Applicable
Wilson	James	Wilson Energy Economics	Not Applicable

PJM Participants

LAST NAME	FIRST NAME	MEMBER NAME	SECTOR
Almgren	Ake	PJM Interconnection	Not Applicable
Anders (Secretary)	David	PJM Interconnection	Not Applicable
Barrett	Francis	PJM Interconnection	Not Applicable
Bastian	Jeff	PJM Interconnection	Not Applicable
Bell	Jerry	PJM Interconnection	Not Applicable
Bennett	Stephen	PJM Interconnection	Not Applicable
Bennett	Daniel	PJM Interconnection	Not Applicable
Berner	Aaron	PJM Interconnection	Not Applicable
Bhavearaju	Murty	PJM Interconnection	Not Applicable
Boyle	Glen	PJM Interconnection	Not Applicable
Bresler	Stu	PJM Interconnection	Not Applicable

Bruno	Joshua	PJM Interconnection	Not Applicable
Bruno	Patrick	PJM Interconnection	Not Applicable
Budney	David	PJM Interconnection	Not Applicable
Buehler	Susan	PJM Interconnection	Not Applicable
Burdis	Tim	PJM Interconnection	Not Applicable
Burlew	Jim	PJM Interconnection	Not Applicable
Caven	Augustine	PJM Interconnection	Not Applicable
Chmielewski	Brian	PJM Interconnection	Not Applicable
Croop	Danielle	PJM Interconnection	Not Applicable
Davis	Elizabeth	PJM Interconnection	Not Applicable
Drauschak	Lisa	PJM Interconnection	Not Applicable
Duane	Vince	PJM Interconnection	Not Applicable
Dumitriu	Nicolae	PJM Interconnection	Not Applicable
Egan	Amanda	PJM Interconnection	Not Applicable
Esterly	Theresa	PJM Interconnection	Not Applicable
Fabiano	Janell	PJM Interconnection	Not Applicable
Falin	Thomas	PJM Interconnection	Not Applicable
Fan	Zhenyu	PJM Interconnection	Not Applicable
Fernandez	Ray	PJM Interconnection	Not Applicable
Foley	Pauline	PJM Interconnection	Not Applicable
Foster (Chair)	Denise	PJM Interconnection	Not Applicable
Glatz	Suzanne	PJM Interconnection	Not Applicable
Haque	Asim	PJM Interconnection	Not Applicable
Hendrzak	Chantal	PJM Interconnection	Not Applicable
Herel	Suzanne	PJM Interconnection	Not Applicable
Herling	Steve	PJM Interconnection	Not Applicable
Hoey	Edward	PJM Interconnection	Not Applicable
Horger	Tim	PJM Interconnection	Not Applicable
Hsia	Eric	PJM Interconnection	Not Applicable
Keech	Adam	PJM Interconnection	Not Applicable
Keshavamurthy	Bhavana	PJM Interconnection	Not Applicable
Kimmel	David	PJM Interconnection	Not Applicable
Krizenoskas	Lisa	PJM Interconnection	Not Applicable
Larukcque	Matt	PJM Interconnection	Not Applicable
McGlynn	Paul	PJM Interconnection	Not Applicable
McLavery	Megan	PJM Interconnection	Not Applicable
Messina	Emmy	PJM Interconnection	Not Applicable
Morelli	Lisa	PJM Interconnection	Not Applicable
O'Brian	Tom	PJM Interconnection	Not Applicable
O'Hara	Chris	PJM Interconnection	Not Applicable

Olaleye	Michael	PJM Interconnection	Not Applicable
Ott	Andrew	PJM Interconnection	Not Applicable
Phillips	Darlene	PJM Interconnection	Not Applicable
Quevada	Jason	PJM Interconnection	Not Applicable
Rogers	Sarah	PJM Interconnection	Not Applicable
Schweizer	David	PJM Interconnection	Not Applicable
Seiler	Ken	PJM Interconnection	Not Applicable
Shah	Pulin	PJM Interconnection	Not Applicable
Slusser	Jeff	PJM Interconnection	Not Applicable
Snyder	Susan	PJM Interconnection	Not Applicable
Souder	Michelle	PJM Interconnection	Not Applicable
Souder	Dave	PJM Interconnection	Not Applicable
Squilla	Angelica	PJM Interconnection	Not Applicable
Stefanowicz	Vincent	PJM Interconnection	Not Applicable
Stotesbury	Christina	PJM Interconnection	Not Applicable
Swimm	Nora	PJM Interconnection	Not Applicable
Swimm	Nora	PJM Interconnection	Not Applicable
Tribulski	Jen	PJM Interconnection	Not Applicable
Velasco	Cheryl	PJM Interconnection	Not Applicable
Ward	Michael	PJM Interconnection	Not Applicable
Warshel	Kim	PJM Interconnection	Not Applicable
Williams	Stanley	PJM Interconnection	Not Applicable