

Markets & Reliability Committee

Webex Only

February 24, 2022

9:00 a.m. – 11:00 a.m. EPT

Administration

Stu Bresler and Dave Anders welcomed stakeholders and provided the Anti-trust, Code of Conduct, and Meeting Participation announcements.

Amanda Egan provided an update on the need for voting members to update their browser's transport layer security (TLS) version due to weak encryption and its impact on the Voting Application.

Pete Langbein provided information regarding FERC's acceptance of PJM compliance filing proposing revised RPM auction timelines.

Consent Agenda

Items A through C were **approved/endorsed** by acclamation with no objections and one abstention:

- A. Minutes of the January 26, 2022 meeting of the Markets and Reliability Committee (MRC).
- B. Proposed conforming revisions to Manual 27: Open Access Transmission Tariff Accounting resulting from PJM's recent formula rate filing (Docket No. ER22-26).
- C. Proposed revisions to Manual 40: Training and Certification Requirements resulting from its periodic review.

Endorsements

None

First Readings

1. Pseudo Modeled Combined Cycle Minimum Run Time Guidance

Tom Hauske reviewed a proposed solution and corresponding revisions to Manual 11: Energy & Ancillary Services Market Operations addressing Pseudo Modeled Combined Cycle Minimum Run Time Guidance. The committee will be asked to endorse the proposal and corresponding Manual 11 revisions at its next meeting.

[Issue Tracking: Pseudo Modeled Combined Cycle Minimum Run Time Guidance](#)

2. Capacity Capability Senior Task Force (CCSTF) Sunset (9:45-10:00)

Melissa Pilog discussed proposed sunset of the Capacity Capability Senior Task Force (CCSTF). The committee will be asked to endorse sunsetting the CCSTF at its next meeting.

[Issue Tracking: Effective Load Carrying Capability for Limited Duration Resources and Intermittent Resources](#)

3. Max Emergency Changes (10:00-10:30)

- A. Chris Piong reviewed proposed revisions to Manual 13: Emergency Operations addressing the extension of a temporary change to Max Emergency for gas combustion turbines and steam generators. The committee will be asked to approve an Issue Charge and endorse the proposed Manual 13 revisions as part of the Quick Fix process outlined in Section 8.6.1 of Manual 34 at its next meeting.
- B. Chris Piong discussed a proposed Issue Charge to address this issue with a longer-term solution. The committee will be asked to approve the proposed Issue Charge at its next meeting.

4. Manuals (10:30-11:00)

- A. Brian Oakes reviewed proposed revisions to Manual 12: Balancing Operations resulting from its periodic review. The committee will be asked to endorse the proposed Manual 12 revisions at its next meeting.
- B. Brian Oakes reviewed proposed revisions to Manual 13: Emergency Operations resulting from its periodic review. The committee will be asked to endorse the proposed Manual 13 revisions at its next meeting.
- C. Jeff Bastian reviewed proposed revisions to Manual 18: PJM Capacity Market conforming with PJM's 7/30/21 filing to reform application of the MOPR, PJM's 10/21 compliance filing made in accordance with FERC's 9/2/21 Order to amend the default MSOC, FERC's 12/22/21 order directing PJM to reinstate the historic net EAS methodology, and FERC's 1/20/22 order directing PJM to remove the 10% adder from the net EAS calculation for the reference resource CT. The committee will be asked to endorse the proposed Manual 18 revisions at its next meeting.
- D. Kevin Hatch reviewed proposed revisions to Manual 37: Reliability Coordination resulting from its periodic review. The committee will be asked to endorse the proposed Manual 37 revisions at its next meeting.

Future Agenda Items (11:00)

No new future agenda items were identified.

Future Meeting Dates and Materials			Materials Due to Secretary	Materials Published
Date	Time	Location		
March 23, 2022	9:00 a.m.	Webex	March 11, 2022	March 16, 2022
April 27, 2022	9:00 a.m.	Webex	April 15, 2022	April 20, 2022
May 25, 2022	9:00 a.m.	PJM Conference & Training Center and WebEx	May 13, 2022	May 18, 2022

June 29, 2022	9:00 a.m.	PJM Conference & Training Center and WebEx	June 17, 2022	June 22, 2022
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Author: D. Anders

Meeting Attendance

Chair/Secretary

Last Name	First Name	Company	Sector
Bresler	Stu	PJM Interconnection, LLC	Not Applicable
Anders	David	PJM Interconnection, LLC	Not Applicable

Voting Attendees

Last Name	First Name	Company	Sector
Barker	Jason	Constellation Energy Generation, LLC	Generation Owner
Benchek	Jim	American Transmission Systems, Inc.	Transmission Owner
Borgatti	Michael	Rep'g. Newark Energy Center, LLC	Generation Owner
Borgatti	Michael	Rep'g. York County Solid Waste and Refuse Authority	Generation Owner
Borgatti	Michael	Rep'g. Hazleton Generation LLC	Generation Owner
Borgatti	Michael	Rep'g. Longview Power, LLC	Generation Owner
Borgatti	Michael	Rep'g. Moxie Freedom LLC	Generation Owner
Borgatti	Michael	Rep'g. Recurrent Energy, LLC	Other Supplier
Borgatti	Michael	Rep'g. Energy Harbor LLC	Generation Owner
Borgatti	Michael	Rep'g. NextEra Energy Marketing, LLC	Other Supplier
Borgatti	Michael	Rep'g. Jersey Green Energy, LLC	Other Supplier
Brodbeck	John	EDP Renewables North America LLC	Generation Owner
Bruce	Susan	Rep'g. Gerdau Ameristeel Energy, Inc.	End-Use Customer
Bruce	Susan	Rep'g. Letterkenny Industrial Development Authority - PA	Electric Distributor
Bruce	Susan	Rep'g. Procter & Gamble Paper Products Company (The)	End-Use Customer
Bruce	Susan	Rep'g. Cleveland-Cliffs Steel LLC	End-Use Customer
Bruce	Susan	Rep'g. Messer LLC	End-Use Customer
Bruce	Susan	Rep'g. Kimberly-Clark Corporation	Generation Owner
Bruce	Susan	Rep'g. MeadWestvaco Corporation	End-Use Customer
Bruce	Susan	Rep'g. Linde Inc.	End-Use Customer
Bruce	Susan	Rep'g. Lehigh Portland Cement Company	End-Use Customer
Bruce	Susan	Rep'g. Air Products & Chemicals, Inc.	End-Use Customer
Bruce	Susan	Rep'g. Trustees of the University of Pennsylvania	End-Use Customer
Bruce	Susan	Rep'g. Industrial Energy Users-Ohio	Other Supplier
Bruce	Susan	Rep'g. Wellsboro Electric Company	Electric Distributor
Canter	David	Appalachian Power Company	Transmission Owner
Chang	Sean	Shell Energy North America (US), L.P.	Other Supplier
Davis	James	Virginia Electric & Power Company	Transmission Owner

Domian	Christin	Duquesne Light Company	Transmission Owner
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Fitch	Neal	NRG Power Marketing LLC	Generation Owner
Ford	Adrien	Old Dominion Electric Cooperative	Electric Distributor
Fuess	Christian	Rep'g. Icetec.com, Inc.	Other Supplier
Fuess	Christian	Rep'g. PBF Power Marketing, LLC	End-Use Customer
Fuess	Christian	Rep'g. Diamond State Generation Partners, LLC	Generation Owner
Fuess	Christian	Rep'g. NextPower III US Holdco Inc.	Generation Owner
Fuess	Christian	Rep'g. Kuehne Chemical Company, Inc.	End-Use Customer
Gibbs	Ike	Citadel FNGE Ltd.	Other Supplier
Hoatson	Tom	Riverside Generating Company, L.L.C.	Generation Owner
Hohenshilt	Jennifer	Talen Energy Marketing, LLC	Generation Owner
Horstmann	John	Dayton Power & Light Company (The)	Transmission Owner
Hyzinski	Thomas	Rep'g. Carroll County Energy LLC	Generation Owner
Hyzinski	Thomas	Rep'g. Dynegy Marketing and Trade, LLC	Generation Owner
Hyzinski	Thomas	Rep'g. GenOn Energy Management, LLC	Generation Owner
Johnson	Carl	Rep'g. Easton Utilities Commission	Electric Distributor
Johnson	Carl	Rep'g. Old Dominion Electric Cooperative	Electric Distributor
Johnson	Carl	Rep'g. Indiana Municipal Power Agency	Electric Distributor
Johnson	Carl	Rep'g. North Carolina Electric Membership Corporation	Electric Distributor
Johnson	Carl	Rep'g. Michigan Public Power Agency	Electric Distributor
Johnson	Carl	Rep'g. Delaware Municipal Electric Corporation, Inc.	Electric Distributor
Johnson	Carl	Rep'g. Borough of Mont Alto, Pennsylvania	Electric Distributor
Johnson	Carl	Rep'g. Thurmont Municipal Light Company	Electric Distributor
Johnson	Carl	Rep'g. Town of Williamsport (The)	Electric Distributor
Johnson	Carl	Rep'g. WPPI Energy	Other Supplier
Johnson	Carl	Rep'g. Blue Ridge Power Agency, Inc.	Electric Distributor
Johnson	Carl	Rep'g. Borough of Chambersburg	Electric Distributor
Johnson	Carl	Rep'g. Galt Power, Inc.	Other Supplier
Johnson	Carl	Rep'g. Energy Cooperative Association of Pennsylvania (The)	Other Supplier
Johnson	Carl	Rep'g. Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Johnson	Carl	Rep'g. Northern Illinois Municipal Power Agency	Electric Distributor
Johnson	Carl	Rep'g. Allegheny Electric Cooperative, Inc.	Electric Distributor
Johnson	Carl	Rep'g. Buckeye Power, Inc.	Electric Distributor
Johnson	Carl	Rep'g. American Municipal Power, Inc.	Electric Distributor
Johnson	Carl	Rep'g. Central Virginia Electric Cooperative	Electric Distributor
Johnson	Carl	Rep'g. City of Dover, Delaware	Electric Distributor
Johnson	Carl	Rep'g. Hagerstown Light Department	Electric Distributor
Johnson	Carl	Rep'g. Illinois Municipal Electric Agency	Electric Distributor
Johnson	Carl	Rep'g. North Carolina Municipal Power Agency Number 1	Other Supplier

Keenan	Matthew	Elwood Energy, LLC	Generation Owner
Kilgallen	Kevin	Avangrid Renewables, LLC	Generation Owner
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Pahwa	Ankit	Fowler Ridge IV Wind Farm, LLC	Generation Owner
Pakela	Greg	DTE Energy Trading, Inc.	Other Supplier
Poulos	Greg	Rep'g. West Virginia Consumer Advocate Division	End-Use Customer
Poulos	Greg	Rep'g. Office of the Attorney General, Kentucky	End-Use Customer
Poulos	Greg	Rep'g. Michigan Department of Attorney General, Environment, Natural Resources, & Agriculture Division	End-Use Customer
Poulos	Greg	Rep'g. Maryland Office of People's Counsel	End-Use Customer
Poulos	Greg	Rep'g. Virginia Division of Consumer Counsel	End-Use Customer
Poulos	Greg	Rep'g. Indiana Office of Utility Consumer Counselor (IN OUCC)	End-Use Customer
Poulos	Greg	Rep'g. New Jersey Division of Rate Counsel	End-Use Customer
Poulos	Greg	Rep'g. Ohio Consumers' Counsel	End-Use Customer
Poulos	Greg	Rep'g. Consumer Protection and Advocate Division of the Tennessee Attorney General	End-Use Customer
Poulos	Greg	Rep'g. Office of the People's Counsel for the District of Columbia	End-Use Customer
Poulos	Greg	Rep'g. Illinois Citizen Utility Board	End-Use Customer
Poulos	Greg	Rep'g. Pennsylvania Office of Consumer Advocate	End-Use Customer
Poulos	Greg	Rep'g. Public Staff - North Carolina Utilities Commission	End-Use Customer
Poulos	Greg	Rep'g. Delaware Division of the Public Advocate	End-Use Customer
Rumsey	Amanda	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Scarpignato	David	Calpine Energy Services, L.P.	Generation Owner
Stern	Alex	Public Service Electric and Gas Company	Transmission Owner
Swalwell	Bradley	Tangent Energy Solutions, Inc.	Other Supplier
Tashakkori	Cyrus	Open Road Renewables, LLC	Other Supplier
Wadsworth	Joe	Vitol Inc.	Generation Owner
Whitehead	Jeffrey	Rep'g. Essential Power Rock Springs, LLC	Generation Owner
Whitehead	Jeffrey	Rep'g. Eastern Generation, LLC	Generation Owner
Whitehead	Jeffrey	Rep'g. Wheelabrator Falls Inc.	Generation Owner
Whitehead	Jeffrey	Rep'g. Neptune Regional Transmission System, LLC	Transmission Owner

Non-Voting Attendees

Last Name	First Name	Company Name	Sector
Berton	Tyler	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Bleiweis	Bruce	DC Energy, LLC	Other Supplier
Bowring	Joe	Monitoring Analytics	None
Brady	George	Ohio Valley Electric Corporation	Transmission Owner
Burnham	Kat	Advanced Energy Economy Inc.	None
Callen	Zachary	Illinois Commerce Commission	None
Campbell	Bruce	MidAtlantic Power Partners, LLC	Other Supplier

Carnean	Gregory	Organization of PJM States, Inc. (OPSI)	None
Carrier	Ronald	Big Lake Consulting	None
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Colaresi	Chandra	CPower Energy Management	None
Conklin	Tyler	Public Utilities Commission Of Ohio	None
Corash	Rich	Public Service Electric & Gas Company	Transmission Owner
Dillon	Matt	UGI Development Company	Generation Owner
Dorko	Keri	Monitoring Analytics	None
Domer	Amber	Rockland Electric Company	Transmission Owner
Duensing	Allison	Saracen Energy East LP	Other Supplier
Eaker	Katie	Tenaska Power Services Co.	Generation Owner
Elkins	Rachel	Energy Harbor LLC	Generation Owner
Evrard	David	Pennsylvania Office of Consumer Advocate	End-Use Customer
Fazio	Danielle	Engelhart CTP (US) LLC	Other Supplier
Filomena	Guy	Customized Energy Solutions, Ltd.*	None
Foladare	Ken	Genex Solar LLC	Other Supplier
Foster Cronin	Denise	East Kentucky Power Cooperative, Inc.	Transmission Owner
Garnett	Bryan	Duke Energy Business Services LLC	Transmission Owner
Gates	Terry	Appalachian Power Company	Transmission Owner
Gebolys	Debbie	The Public Utilities Commission Of Ohio	None
Gibbons	Jaret	ARIPPA	None
Gilani	Rehan	Consolidated Edison Company of New York, Inc.	Transmission Owner
Good	Megan	Pennsylvania Public Utility Commission	None
Gorman	Kevin	The Highland Energy Group	None
Green	Chris	Tri Global Energy, LLC	None
Haratym	Thomas	Charles River Associates (CRA) International	None
Hastings	David	MICS	None
Heinle	Frederick	Office of the People's Counsel for the District of Columbia	End-Use Customer
Hepplewhite	Peter	Wrigley Capital LLC	Other Supplier
Herbert	Sebastian	DC Energy, LLC	Other Supplier
Hicks	Dave	Perast Fund LP	Other Supplier
Horning	Lynn	Customized Energy Solutions, Ltd.*	None
Hugee	Jacquelynn	Virginia Electric & Power Company	Transmission Owner
Hull	Gerit	American Municipal Power, Inc.	Electric Distributor
Huntoon	Stephen	Chesapeake Transmission LLC	Other Supplier
Hurwich	Mark	Elliott Bay Energy Trading, LLC	Other Supplier
Iler	Art	Indiana Office of Utility Consumer Counselor (IN OUCC)	End-Use Customer
Islam	Lubaba	Rockland Electric Company	Transmission Owner
Janicki	Diane	Boston Energy Trading and Marketing LLC	Other Supplier
Jett	William	Duke Energy Business Services LLC	Transmission Owner

Johnston	David	Indiana Utility Regulatory Commission	Not Applicable
Kauffman	Brian	Enel X North America, Inc.	Other Supplier
Kayne	Samuel	Delaware Public Service Commission	Not Applicable
Kelly	Stephen	Brookfield Renewable Trading and Marketing LP	Other Supplier
Kent	Janessa	Duquesne Light Company	Transmission Owner
Kingston	Amber	Aces Power Marketing	None
Kogut	George	New York Power Authority	Other Supplier
Kuhn	Tyler	Citadel FNGE Ltd.	Other Supplier
Liang-Nicol	Cecila	Energy Harbor LLC	Generation Owner
Mabry	David	McNees, Wallace & Nurick, LLC	None
Martin	Valerie	Federal Energy Regulatory Commission	None
Matheson	Eric	Delaware Public Service Commission	None
Matuszak	Alex	UGI Energy Services, LLC	Other Supplier
Mcdewell	Christian	The Public Utilities Commission Of Pennsylvania	None
McNeil	Justin	Kentucky Public Service Commission	None
Miller	John	Exelon Business Services Company, LLC	Transmission Owner
Mooney	Jeff	Energy Harbor LLC	Generation Owner
Nader	Jordan	Public Staff - North Carolina Utilities Commission	End-Use Customer
Olinger	Robert	Gen Ops, LLC	Other Supplier
Ondayko	Brock	Appalachian Power Company	Transmission Owner
Orphanides	Lindsay	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Peoples	John	Duquesne Light Company	Transmission Owner
Phillips	Amanda	Aces Power Marketing	None
Proconiar	Jason	Buckeye Power, Inc.	Electric Distributor
Rahimi	Farrokh	OPEN ACCESS TECHNOLOGY INTERNATIONAL, INC.	None
Roberts	Jackie	West Virginia Public Service Commission	None
Robinson	Becky	Vistra Corporation	None
Rodriguez	Tomas	Organization of PJM States, Inc. (OPSI)	None
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	None
Schisler	Ken	CPower Energy Management	None
Shegarfi	Roozbeh	Constellation Energy Generation, LLC	Generation Owner
Squibb	William	Ohio Valley Electric Corporation	Transmission Owner
Staggs	James	Texas Retail Energy, LLC	Other Supplier
Stone	Andy	Gabel Associates	None
Stuchell	Jeff	Energy Harbor LLC	Generation Owner
Sturgeon	John	Duke Energy Business Services LLC	Transmission Owner
Svenson	Heather	Public Service Electric & Gas Company	Transmission Owner
Sweeney	Rory	GT Power Group, LLC	None
Taylor	Robert	Exelon Business Services Company, LLC	Transmission Owner
Thomas	Amber	Exelon Business Services Company, LLC	Transmission Owner

Tibbetts	Maeve	K & L Gates	None
Vayda	Brian	American PowerNet Management, L.P.	Other Supplier
Von Plagenhoef	Rowen	Charles River Associates (CRA) International	None
Walcavich	Colin	National Grid Renewables Development, LLC	None
Walker	Jennifer	Exelon Business Services Company, LLC	Transmission Owner
Walters	Jody	Gabel Associates	None
Wehnes	Kathleen	Maryland Department of the Environment	None
Wilson	Rob	Illinois Municipal Electric Agency	Electric Distributor
Wisersky	Megan	Madison Gas & Electric Co.	None
Yoder	Michael	RTO Insider	None

PJM Attendees

Last Name	First Name	Company Name	Sector
Anders	David	PJM Interconnection, LLC	None
Asthana	Manu	PJM Interconnection, LLC	None
Bastian	Jeff	PJM Interconnection, LLC	None
Berner	Aaron	PJM Interconnection, LLC	None
Bloczynski	Nigeria	PJM Interconnection, LLC	None
Boyle	Glen	PJM Interconnection, LLC	None
Bresler	Stu	PJM Interconnection, LLC	None
Bruno	Patrick	PJM Interconnection, LLC	None
Bryson	Michael	PJM Interconnection, LLC	None
Buehler	Susan	PJM Interconnection, LLC	None
Carroll	Rebecca	PJM Interconnection, LLC	None
Connell	Jason	PJM Interconnection, LLC	None
Croop	Danielle	PJM Interconnection, LLC	None
D'Antonio	Phil	PJM Interconnection, LLC	None
Dent	Duane	PJM Interconnection, LLC	None
Drake	Anna	PJM Interconnection, LLC	None
Drauschak	Lisa	PJM Interconnection, LLC	None
Egan	Amanda	PJM Interconnection, LLC	None
Fabiano	Janelle	PJM Interconnection, LLC	None
Fitzpatrick	Brian	PJM Interconnection, LLC	None
Foley	Pauline	PJM Interconnection, LLC	None
Franks	Chris	PJM Interconnection, LLC	None
Glatz	Suzanne	PJM Interconnection, LLC	None
Greening	Michele	PJM Interconnection, LLC	None
Haque	Asim	PJM Interconnection, LLC	None
Hatch	Kevin	PJM Interconnection, LLC	None
Hauske	Thomas	PJM Interconnection, LLC	None

Heater	Megan	PJM Interconnection, LLC	None
Herman	Michael	PJM Interconnection, LLC	None
Hicks	Colleen	PJM Interconnection, LLC	None
Horger	Timothy	PJM Interconnection, LLC	None
Hsia	Eric	PJM Interconnection, LLC	None
Hu	Yong	PJM Interconnection, LLC	None
Keech	Adam	PJM Interconnection, LLC	None
Kelly	Gwen	PJM Interconnection, LLC	None
Langbein	Pete	PJM Interconnection, LLC	None
Levitt	Andrew	PJM Interconnection, LLC	None
Loebl	Margaret	PJM Interconnection, LLC	None
Lohman	Mary	PJM Interconnection, LLC	None
Lu	Chen	PJM Interconnection, LLC	None
Mcelwaine	Kathy	PJM Interconnection, LLC	None
McLaverly	Megan	PJM Interconnection, LLC	None
Miller	Benjamin	PJM Interconnection, LLC	None
Muhl	Nancy	PJM Interconnection, LLC	None
Oakes	Brian	PJM Interconnection, LLC	None
O'Brien	Tom	PJM Interconnection, LLC	None
O'Hara	Chris	PJM Interconnection, LLC	None
Oskvig	Dean	PJM Interconnection, LLC	None
Pilong	Chris	PJM Interconnection, LLC	None
Pilong	Melissa	PJM Interconnection, LLC	None
Pincus	Steven	PJM Interconnection, LLC	None
Salmon	Lisa	PJM Interconnection, LLC	None
Schweizer	David	PJM Interconnection, LLC	None
Seiler	Ken	PJM Interconnection, LLC	None
Shu	Yong	PJM Interconnection, LLC	None
Souder	Michelle	PJM Interconnection, LLC	None
Stadelmeyer	Rebecca	PJM Interconnection, LLC	None
Strella Wahba	Lauren	PJM Interconnection, LLC	None
Swimm	Nora	PJM Interconnection, LLC	None
Terranova	Chris	PJM Interconnection, LLC	None
Tribulski	Jen	PJM Interconnection, LLC	None
Waweru	James	PJM Interconnection, LLC	None
Wynder	Michael	PJM Interconnection, LLC	None