

Markets & Reliability Committees
PJM Conference and Training Center, Audubon, PA / WebEx
February 22, 2024
9:00 a.m. – 11:10 a.m. EPT

Administration

Lisa Drauschak and David Anders welcomed stakeholders and provided the Anti-trust, Code of Conduct, and Meeting Participation announcements.

Consent Agenda

Items A through E were **approved/endorsed** by acclamation with no objections or abstentions:

- A. Minutes of the January 24, 2024 meeting of the Markets and Reliability Committee.
- B. Proposed revisions to Manual 03A: Energy Management System (EMS) Model Updates and Quality Assurance (QA) to align with NERC's Bulk Electric System (BES) definition.
- C. Conforming revisions to Manual 11: Energy & Ancillary Services Market Operations resulting from FERC Docket No. EL21-78-000 on Real-time Values.
- D. Proposed revisions to Manual 38: Operations Planning resulting from its periodic review.
- E. Proposed revisions to Manual 40: Training and Certification Requirements resulting from its periodic review.

Endorsements

None

First Readings

1. Governing Document Clarifying Revisions

Michele Greening reviewed proposed clarifying Tariff, Reliability Assurance Agreement (RAA), and Operating Agreement (OA) revisions as endorsed by the Governing Documents Enhancements and Clarifications Subcommittee (GDECS). The committee will be asked to endorse/approve the proposed Tariff, RAA, and OA revisions at its next meeting.

2. Demand Response (DR) Availability Window

Bruce Campbell, on behalf of DR Providers, reviewed a proposed Problem Statement and Issue Charge addressing the alignment of demand response capacity availability hours with periods of reliability risk. The Issue Charge contains two phases: an initial Quick Fix proposal to change the DR availability window in advance of the 2025/2026 Delivery Year, followed by additional solution exploration through a standard Consensus Based Issue Resolution process at the Market Implementation Committee. The committee will be asked to approve the proposed Issue Charge and endorse the proposed Quick Fix solution for phase one at its next meeting.

3. Manuals

- A. Pete Langbein reviewed proposed revisions to Manual 18B: Energy Efficiency Measurement & Verification addressing Energy Efficiency resources. Ken Schisler, CPower, reviewed proposed alternative revisions. The committee will be asked to endorse proposed Manual revisions at its next meeting.
[Issue Tracking: Evaluation of Energy Efficiency Resources](#)
- B. Zhenyu Fan reviewed proposed revisions to Manual 11: Energy & Ancillary Services Market Operations for interface pricing points reviews. The committee will be asked to endorse the proposed Manual revisions at its next meeting.
- C. Frank Hartman reviewed proposed revisions to Manual 12: Balancing Operations resulting from its periodic review. The committee will be asked to endorse the proposed Manual revisions at its next meeting.
- D. Liam Hoang reviewed proposed revisions to Manual 37: Reliability Coordination resulting from its periodic review and additional revisions addressing changes for FAC-011 and FAC-014.

Future Agenda Items

No new future agenda items were identified.

Future Meeting Dates and Materials			Materials Due to Secretary	Materials Published
Date	Time	Location	5:00 p.m. EPT deadline*	
March 20, 2024	9:00 a.m.	PJM Conference & Training Center and WebEx	March 8, 2024	March 13, 2024
April 25, 2024	9:00 a.m.	PJM Conference & Training Center and WebEx	April 15, 2024	April 18, 2024
May 22, 2024	9:00 a.m.	PJM Conference & Training Center and WebEx	May 10, 2024	May 15, 2024
June 27, 2024	9:00 a.m.	PJM Conference & Training Center and WebEx	June 17, 2024	June 20, 2024
July 24, 2024	9:00 a.m.	PJM Conference & Training Center and WebEx	July 12, 2024	July 17, 2024
August 21, 2024	9:00 a.m.	PJM Conference & Training Center and WebEx	August 9, 2024	August 14, 2024
September 25, 2024	9:00 a.m.	PJM Conference & Training Center and WebEx	September 13, 2024	September 18, 2024
October 30, 2024	9:00 a.m.	PJM Conference & Training Center and WebEx	October 18, 2024	October 23, 2024
November 20, 2024	9:00 a.m.	PJM Conference & Training Center and WebEx	November 8, 2024	November 13, 2024
December 18, 2024	9:00 a.m.	PJM Conference & Training Center and WebEx	December 6, 2024	December 11, 2024

*Materials received after 12:00 p.m. EPT are not guaranteed timely posting by 5:00 p.m. EPT on the same day.

Author: D. Anders

Meeting Attendance

Chair/Secretary

Last Name	First Name	Company	Sector
Drauschak	Lisa	PJM Interconnection	Not Applicable
Anders	Dave	PJM Interconnection	Not Applicable

Voting Attendees

Last Name	First Name	Company	Sector
Barker	Jason	Vitol Inc.	Generation Owner
Brodbeck	John	EDP Renewables North America LLC	Generation Owner
Canter	David	Appalachian Power Company	Transmission Owner
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Farnsworth Jr	Byron	Wellsboro Electric Company	Electric Distributor
Hohenshilt	Jennifer	Talen Energy Marketing, LLC	Generation Owner
Horning	Lynn	American Municipal Power, Inc.	Electric Distributor
Horstmann	John	Dayton Power & Light Company (The)	Transmission Owner
Hyzinski	Thomas	Dynegy Marketing and Trade, LLC	Generation Owner
Hyzinski	Thomas	GenOn Energy Management, LLC	Generation Owner
Hyzinski	Thomas	Carroll County Energy LLC	Generation Owner
Johnson	Carl	Indiana Municipal Power Agency	Electric Distributor
Johnson	Carl	Michigan Public Power Agency	Electric Distributor
Johnson	Carl	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Johnson	Carl	Old Dominion Electric Cooperative	Electric Distributor
Johnson	Carl	Thurmont Municipal Light Company	Electric Distributor
Johnson	Carl	Town of Williamsport (The)	Electric Distributor
Johnson	Carl	WPPI Energy	Other Supplier
Johnson	Carl	Illinois Municipal Electric Agency	Electric Distributor
Johnson	Carl	Hagerstown Light Department	Electric Distributor
Johnson	Carl	Energy Cooperative Association of Pennsylvania (The)	Other Supplier
Johnson	Carl	Easton Utilities Commission	Electric Distributor
Johnson	Carl	Delaware Municipal Electric Corporation, Inc.	Electric Distributor
Johnson	Carl	City of Dover, Delaware	Electric Distributor
Johnson	Carl	Central Virginia Electric Cooperative	Electric Distributor
Johnson	Carl	Buckeye Power, Inc.	Electric Distributor
Johnson	Carl	Borough of Mont Alto, Pennsylvania	Electric Distributor
Johnson	Carl	Borough of Chambersburg	Electric Distributor
Johnson	Carl	Blue Ridge Power Agency, Inc.	Electric Distributor
Johnson	Carl	North Carolina Electric Membership Corporation	Electric Distributor
Kelly	Stephen	Brookfield Renewable Trading and Marketing LP	Other Supplier
Kilgallen	Kevin	Avangrid Renewables, LLC	Generation Owner
Mason	Gary	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
Scarpignato	David	Calpine Energy Services, L.P.	Generation Owner
Stern	Alexander	Exelon Business Services Company, LLC	Transmission Owner
Svenson	Heather	Public Service Electric and Gas Company	Transmission Owner

Non-Voting Attendees

Last Name	First Name	Company	Sector
Abd	Alwyiah	First Energy	None
Ament	Todd	Cube Hydro Partners, LLC	Generation Owner
Anderson	Juliet	Constellation Energy Generation, LLC	Generation Owner
Anderson	Jared	S&P Global Inc.	None
Barrett	Graham	New Jersey Board of Public Utilities	None
Batta	Michael	Dominion Virginia Power (LSE)	Transmission Owner
Bautista	Alejandro	Exelon Business Services Company, LLC	Transmission Owner
Berg	William	Constellation Energy Generation, LLC	Generation Owner
Berman	David	Wright & Talisman, PC	None
Bleiweis	Bruce	DC Energy, LLC	Other Supplier
Bond	Danielle	Enerwise Global Technologies, LLC	Other Supplier

Breidenbaugh	Aaron	Stones DR, LLC	Other Supplier
Briscar	Joseph	Stone, Mattheis, Xenopoulos, & Brew, PC	None
Brodbeck	John	EDP Renewables	Generation Owner
Bruce	Susan	McNees Wallace & Nurick LLC	None
Callen	Zachary	Illinois Commerce Commission	None
Campbell	Bruce	Enerwise Global Technologies, LLC	Other Supplier
Cano	Jessica	AEP	Transmission Owner
Carmean	Gregory	Organization of PJM States, Inc.	None
Carrier	Ronald	Big Lake Consulting Group, LLC	None
Christopher	Mahila	Public Utilities Commission of Ohio	None
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Cohen	Daniel	Talen Energy Marketing, LLC	Generation Owner
Concina	Wendell	Commonwealth Edison Company	Transmission Owner
Corash	Richard	PSEG Energy Resources and Trade LLC	Other Supplier
Cusick	Kerinia	Center for Renewables Integration	None
Dadourian	John	Monitoring Analytics	None
Davis	David	Apex Clean Energy Holdings, LLC	None
Davis	James	Dominion Energy Generation Marketing, Inc.	Generation Owner
Davis	Jim	Dominion Energy Generation Marketing, Inc.	Generation Owner
Denby	Brett	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Diaz	Juan	PSEG Energy Resources and Trade LLC	Other Supplier
Dillon	Matthew	UGI Development Company	Generation Owner
Domian	Christin	Duquesne Light Company	Transmission Owner
Dossin	Sophia	Big Sandy Peaker Plant, LLC	Generation Owner
Douglass	Robert	Constellation Energy Generation, LLC	Generation Owner
Drom	Rick	Non-Member	None
Esquivel	Manuel	Enel Trading North America, LLC	Other Supplier
Everngam	Scott	Blue Horseshoe Energy LLC	None
Eyocko	Jacky Nicole	FERC	None
Fabiano	Janell	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner
Farnsworth	Barney	Wellsboro Electric	Electric Distributor
Filomena	Guy	Customized Energy Solutions, Ltd.	None
Fink	Sari	MAREC Action	None
Fishback	Luke	Affirmed Energy	Other Supplier
Foladare	Kenneth	Geenex Solar LLC	Other Supplier
Ford	Adrien	Constellation Energy Generation, LLC	Generation Owner
Fox	Angela	Affirmed Energy LLC (Wylan)	Other Supplier
Fuess	Christian	Diamond State Generation Partners, LLC	Generation Owner
Fultz	McClain	PPL Electric Utilities Corp. dba PPL Utilities (TO)	Transmission Owner
Garnett	Bryan	Duke Energy Ohio, Inc.	Transmission Owner
Gates	Terry	AEP Energy Partners	Transmission Owner
Gibbons	Jaret	ARIPPA	None
Gilani	Rehan	RWE CLEAN ENERGY WHOLESALE SERVICES, INC.	None
Gordon	Jonathan	Advanced Energy Economy	None
Gregorits	Matt	Mid-Atlantic Interstate Transmission, LLC	Transmission Owner
Grigorjeva	Jelena	Atlantic Shores Offshore Wind	None
Halay	Alina	FERC	None
Hanser	Erik	Michigan Public Service Commission	None
Hastings	David	PSEG Energy Resources and Trade LLC	Other Supplier
Heinle	Frederick	Vistra	None
Helms	Joseph	Commonwealth Chesapeake Company, LLC	Generation Owner
Hinton	Christine	Commonwealth Edison Company	Transmission Owner
Hoatson	Tom	LS Power	None
Holzbaur	Patrick	New Jersey Board of Public Utilities	None
Hooker	Marquette	Dominion Energy Generation Marketing, Inc.	Generation Owner
Hugee	Jacqulynn	Dominion Energy Generation Marketing, Inc.	Generation Owner

Hull	Gerit	American Municipal Power, Inc.	Electric Distributor
Hurd	Shawn	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
Hyatt	Earl	Monitoring Analytics	None
Hyatt	John	Monitoring Analytics	None
Hyzinski	Tom	GT Power Group, LLC	None
Ingraham	Deborah	Acciona Energy North America Corporation	Generation Owner
Janas	Kimberly	Illinois Attorney General's Office	None
Janicki	Diane	Boston Energy Trading and Marketing LLC	Other Supplier
Jardot	Gina	NRG Curtailment Solutions, Inc.	Other Supplier
Jefferson	Dena	Franklin Energy	None
Johnston	David	Indiana Utility Regulatory Commission	None
Jones	Scott	Indiana Office of Utility Consumer Counselor	End-Use Customer
Kent	Janessa	Duquesne Light Company	Transmission Owner
Kienle	Cassie	Voltus, Inc.	Other Supplier
Kirk	Steven	NextEra	Other Supplier
Klingensmith	Laurel	American Transmission Systems, Inc.	Transmission Owner
Kogut	George	New York Power Authority	Other Supplier
Kosner	Bob	Illinois Municipal Electric Agency	Electric Distributor
Kozlowski	Brian	Alphataraxia Palladium LLC	Other Supplier
Laios	Takis	Appalachian Power Company (AEP Transmission)	Transmission Owner
Lang-Ree	Claire	Natural Resources Defense Council	None
Lee	Aristotle	Grays Ferry Cogeneration Partnership	Generation Owner
Leith-Yessian	Devin	RTO Insider	None
Livingston	Matthew	Energy Authority, Inc. (The)	Other Supplier
Long	Scott	Allegheny Electric Cooperative, Inc.	Electric Distributor
Ludrosky	Cristy	Ohio Edison Company (ATSI CSP)	Electric Distributor
Ma	Yaming	Calpine Energy Services, L.P.	Generation Owner
Mabry	David	McNees Wallace & Nurick LLC	None
Maher	Sean	Exelon Business Services Company, LLC	Transmission Owner
Mariam	Yohannes	Office of the People's Counsel for the District of Columbia	End-Use Customer
Matheson	Eric	Non-Member	None
Mayers	Sharon	Clean Energy Future - Lordstown, LLC	Generation Owner
McClelland	Maura	Public Utilities Commission of Ohio	None
McDaniel	John	Baltimore Gas and Electric Company	Transmission Owner
McNeil	Justin	Kentucky Public Service Commission	None
McNicholas	Daniel	Nautilus Power, LLC	Generation Owner
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Miller	John	Calico Energy	None
Mooney	Jeffrey	Allegheny Power (MonPwr Gen)	Transmission Owner
Nadel	Steven	PPL	Transmission Owner
Nader	Jordan	Public Staff - North Carolina Utilities Commission	End-Use Customer
Newbold	Russ	Enerwise Global Technologies, LLC	Other Supplier
Nix	Emma	Leeward Asset Management, LLC	Generation Owner
Norton	Chris	American Municipal Power, Inc.	Electric Distributor
Olinger	Robert	Keystone-Conemaugh Projects, LLC (Conemaugh)	Other Supplier
Ondayko	Brock	AEP Energy Partners, Inc. (AEP Gen Resources)	Transmission Owner
Osborn	Eric	EDF Trading North America, LLC	Other Supplier
Parrott	Keith	Michigan Public Power Agency	Electric Distributor
Peoples	John	Duquesne Light Company	Transmission Owner
Pezalla	William	Old Dominion Electric Cooperative	Electric Distributor
Poulos	Greg	Consumer Advocates	End-Use Customer
Quinlan	Pamela	GQ New Energy Strategies	None
Rainey	John	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Rasmussen	Jay	Duke Energy Business Services LLC	Transmission Owner
Reagan	Ryann	New Jersey Board of Public Utilities	None
Rettig	Kacie	Rockland Electric Company	Transmission Owner

Ritterbeck	Richard	Office of the Ohio Consumers' Counsel	End-Use Customer
Roberts	Jacqueline	The Public Service Commission of West Virginia	None
Rode	Advait	Michigan Public Service Commission	None
Rohrbach	John	Wabash Valley Power Association, Inc.	Electric Distributor
Rumsey	Amanda	PPL	Transmission Owner
Rutigliano	Tom	Natural Resources Defense Council	None
Rutledge	Craig	Appalachian Power Company (AEP Generation)	Transmission Owner
Sasser	Jonathan	Customized Energy Solutions, Ltd.	None
Scheidecker	Paul	Monitoring Analytics	None
Schisler	Ken	Enerwise Global Technologies, LLC	Other Supplier
Schreim	Morris	Maryland Public Service Commission	None
Seelaus	Andy	Enerwise Global Technologies, LLC	Other Supplier
Selick	Sam	Customized Energy Solutions, Ltd.	None
Sikora	Cliff	Lincoln Generating Facility, LLC	Generation Owner
Singh	Harsimran	Eastern Generation, LLC	Generation Owner
Sloan	Ben	Organization of PJM States, Inc.	None
Smith	Kara	Buckeye Power, Inc.	Electric Distributor
Sotkiewicz	Paul	E-Cubed Policy Associates	None
Sparks	Bridget	sPower Development Company, LLC	Generation Owner
Spencer	Douglas	Southeastern Power Administration	Other Supplier
Sprinkle	Dan	Louisville Gas and Electric Company/Kentucky Utilities Company	Transmission Owner
Stadelmeyer	Rebecca	Jersey Green Energy LLC	Other Supplier
Stoll	Aaron	Grid United	None
Stone	Andy	Non-Member	None
Stuchell	Jeff	American Transmission Systems, Inc.	Transmission Owner
Sturgeon	John	Duke Energy Business Services LLC	Transmission Owner
Sussler	Philip	Maryland Office of People's Counsel	End-Use Customer
Swalwell	Brad	Tangent Energy Solutions	Other Supplier
Sweeney	Rory	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Theaker	Brian	Big Sandy Peaker Plant, LLC	Generation Owner
Tubridy	Meg	Rockland Electric Company	Transmission Owner
Ushijima	Hiroaki	Elwood Energy, LLC	Generation Owner
VanderLaan	William	Illinois Commerce Commission	None
Vayda	Brian	Borough of Park Ridge, New Jersey	Electric Distributor
Webb	Becky	Exelon Business Services Company, LLC	Transmission Owner
Wehnes	Kathleen	Non-Member	None
Werntges	Bernadette	Cpower Energy	None
Whitehead	Jeffrey	GT Power Group	None
Widom	Stu	New Jersey Board of Public Utilities	None
Wylie-Chambers	Ericka	Exelon Business Services Company, LLC	Transmission Owner
Yasutake	Sarah	Jersey Green Energy LLC	Other Supplier
Youth	Michael	North Carolina Electric Membership Corporation	Electric Distributor
Yovanovich	Laura	PPL Electric Utilities Corp. dba PPL Utilities (TO)	Transmission Owner
Zack	Marty	Non-Member	None
Zemanek	Kevin	Buckeye Power, Inc.	Electric Distributor
Zephyr	Frantz	Public Service Electric and Gas Company (E Efficiency)	Transmission Owner
Zhou	Ming	DXT Commodities North America Inc.	Other Supplier

PJM Attendees

Last Name	First Name	Company	Sector
Afelumo	Foluso	PJM Interconnection	None
Almonte	Arelis	PJM Interconnection	None
Anders	Dave	PJM Interconnection	None
Arkatina	Tyler	PJM Interconnection	None
Arkatina	Tyler	PJM Interconnection	None

Asthana	Manu	PJM Interconnection	None
Berner	Aaron	PJM Interconnection	None
Blackwell	Terry	PJM Board	None
Bresler	Stu	PJM Interconnection	None
Bruno	Patrick	PJM Interconnection	None
Bryson	Michael	PJM Interconnection	None
Bryson	Mike	PJM Interconnection	None
Bunting	Henry	PJM Interconnection	None
Burdis	Timothy	PJM Interconnection	None
Cao	Roger	PJM Interconnection	None
Carroll	Rebecca	PJM Interconnection	None
Ciabattoni	Joseph	PJM Interconnection	None
Connolly	Matthew	PJM Interconnection	None
Coscia	Carl	PJM Interconnection	None
Croop	Danielle	PJM Interconnection	None
D'Antonio	Phil	PJM Interconnection	None
DeViscio	Mike	PJM Interconnection	None
DeVita	Thomas	PJM Interconnection	None
DiMartino	Denise	PJM Interconnection	None
Dirani	Rami	PJM Interconnection	None
Drauschak	Lisa	PJM Interconnection	None
Dumitriu	Nicolae	PJM Interconnection	None
Esterly	Theresa	PJM Interconnection	None
Fan	Zhenyu	PJM Interconnection	None
Fereshetian	Damon	PJM Interconnection	None
Fitzpatrick	Brian	PJM Interconnection	None
Foster	Tom	PJM Interconnection	None
Frogg	Darrell	PJM Interconnection	None
Gates	Jill	PJM Interconnection	None
Graf	Walter	PJM Interconnection	None
Greening	Michele	PJM Interconnection	None
Guignet	Douglas	PJM Interconnection	None
Hague	Asim	PJM Interconnection	None
Handlin	Mike	PJM Interconnection	None
Hatch	Kevin	PJM Interconnection	None
Hauske	David	PJM Interconnection	None
Heater	Megan	PJM Interconnection	None
Herel	Suzanne	PJM Interconnection	None
Hicks	Colleen	PJM Interconnection	None
Hislop	David	PJM Interconnection	None
Hoang	Liem	PJM Interconnection	None
Hoey	Edward	PJM Interconnection	None
Hsia	Eric	PJM Interconnection	None
Karandrikas	Vicki	PJM Interconnection	None
Keech	Adam	PJM Interconnection	None
Keshavamurthy	Bhavana	PJM Interconnection	None
Konowal	Richard	PJM Interconnection	None
Lacek	Mollie	PJM Interconnection	None
Langbein	Pete	PJM Interconnection	None
LaRocque	Matthew	PJM Interconnection	None
Lockwood	Daniel	PJM Interconnection	None
Lu	Chen	PJM Interconnection	None
Lynch	Jessica	PJM Interconnection	None
Mali	Gizella	PJM Interconnection	None
Marzewski	Skyler	PJM Interconnection	None
McAnany	James	PJM Interconnection	None

McElwaine	Kathy	PJM Interconnection	None
McGill	Susan	PJM Interconnection	None
McGlynn	Paul	PJM Interconnection	None
McGovern	Jason	PJM Interconnection	None
McLavery	Megan	PJM Interconnection	None
Mroz	David	PJM Interconnection	None
O'Hara	Chris	PJM Interconnection	None
Olaleye	Michael	PJM Interconnection	None
Oskvig	Dean	PJM Board	None
Pai	Medha	PJM Interconnection	None
Panchal	Hitesh	PJM Interconnection	None
Patel	Keyur	PJM Interconnection	None
Phillips	Darlene	PJM Interconnection	None
Pincus	Steve	PJM Interconnection	None
Rich	Edward	PJM Interconnection	None
Robinson	Evelyn	PJM Interconnection	None
Salmon	Lisa	PJM Interconnection	None
Scheirer	Alex	PJM Interconnection	None
Shah	Vijay	PJM Interconnection	None
Shields	Dave	PJM Interconnection	None
Shoemaker	Jason	PJM Interconnection	None
Souder	David	PJM Interconnection	None
Souder	Michelle	PJM Interconnection	None
Stanek	Jason	PJM Interconnection	None
Stanisz	Mark	PJM Interconnection	None
Stefanowicz	Vincent	PJM Interconnection	None
Stemetzki	Michael	PJM Interconnection	None
Stephenson	Josh	PJM Interconnection	None
Strella Wahba	Lauren	PJM Interconnection	None
Takahashi	Mark	PJM Board	None
Tribulski	Jennifer	PJM Interconnection	None
Tribuski	Jen	PJM Interconnection	None
Waweru	James	PJM Interconnection	None
Wharton	Matthew	PJM Interconnection	None
Wynne	Connor	PJM Interconnection	None
Xu	Xu	PJM Interconnection	None
Zhang	Mike	PJM Interconnection	None