

## Markets and Reliability Committee

### Webex Only

November 19, 2020

9:00 a.m. – 10:00 a.m.

### Administration

Stu Bresler and Dave Anders welcomed stakeholders and provided the Anti-trust, Code of Conduct, and Meeting Participation announcements. Stu Bresler noted the addition of an informational agenda item regarding the recent announcement of New Jersey's intent to employ the state agreement approach to integrate offshore wind.

### Consent Agenda

Items A through F were **approved/endorsed** by acclamation with one objection (item A) and two abstentions. Item G was **endorsed** by acclamation with one objection and 18 abstentions.

- A. Minutes of the October 29, 2020 meeting of the Markets and Reliability Committee (MRC).
- B. Updates to Manual 3: Transmission Operations to incorporate clarifying changes resulting from its periodic review.
- C. Proposed revisions to Manual 3A: Energy Management System (EMS) Model Updates and Quality Assurance (QA) resulting from its periodic review.
- D. Proposed revisions to Manual 10: Pre-Scheduling Operations to incorporate clarifying changes resulting from its periodic review.
- E. Proposed revisions to Manual 11: Energy & Ancillary Services Market Operations and Manual 12: Balancing Operations to address changes related to the 5 minute dispatch and pricing MIC special sessions.  
[Issue Tracking: Five Minute Dispatch and Pricing](#)
- F. Proposed revisions to Manual 14D: Generator Operational Requirements to incorporate changes resulting from its periodic review.
- G. A minor correction to Manual 18: PJM Capacity Market with regards to an effective date for notifying pseudo-tied resource owners of their assigned LDA prior to each delivery year.

### Endorsements/Approvals

#### 1. Day Ahead Schedule Reserve (DASR)

David Kimmel reviewed analysis resulting in the proposed 2021 DASR requirement. The committee **endorsed** the 2021 requirement by acclamation with no objections or abstentions.

## First Readings

### 2. PJM Manuals

- A. Mark Sims reviewed proposed revisions to Manual 14C: Generation and Transmission Interconnection Facility Construction as part of the biennial cover-to-cover review. The committee will be asked to endorse these revisions at its next meeting.
- B. Ray Fernandez reviewed proposed revisions to Manual 28: Operating Agreement Accounting conforming with the changes to FERC Order EL-14-37-000 and addressing the allocation of real-time uplift and day-ahead uplift to UTCs. The committee will be asked to endorse these revisions at its next meeting.

Dave Anders noted that the periodic review of Manual 27: Open Access Transmission Tariff Accounting had been completed; no revisions to the manual were identified, and an administrative note was added to the manual's revision history so noting.

## Informational Reports

### 3. 2022/2023 Base Residual Auction Schedule

Pete Langbein presented the schedule for the 2022/2023 RPM Base Residual Auction, the implementation of which is now appropriate given FERC's November 12 order on the forward-looking Energy and Ancillary Services Offset in FERC Docket No. EL19-58.

### 4. Offshore Wind Development

Ken Seiler discussed the recent announcement that the New Jersey Board of Public Utilities issued an order requesting that PJM initiate the State Agreement Approach included in the PJM Operating Agreement for the purposes of integrating offshore wind. The State Agreement Approach provides a path for states to pursue transmission solutions required to advance their specific state public policy goals and objectives. Additional information will be provided at future Planning Committee meetings.

## Informational Posting Only

None

## Future Agenda Items

No new future agenda items were identified.

## Future Meeting Dates

December 17, 2020

9:00 a.m.

WebEx

Author: D. Anders

### Facilitator/Secretary

LAST NAME	FIRST NAME	COMPANY NAME	SECTOR
Bresler	Stu	PJM Interconnection, LLC	Not Applicable
Anders	David	PJM Interconnection, LLC	Not Applicable

### Voting Attendees

LAST NAME	FIRST NAME	MEMBER NAME	SECTOR
Barker	Jason	Exelon Business Services Company, LLC	Transmission Owner
Bencheck	Jim	American Transmission Systems, Inc.	Transmission Owner
Bruce	Susan	Rep'g. Air Products & Chemicals, Inc.	End-Use Customer
Bruce	Susan	Rep'g. ArcelorMittal USA LLC	End-Use Customer
Bruce	Susan	Rep'g. Gerdau Ameristeel Energy, Inc.	End-Use Customer
Bruce	Susan	Rep'g. Industrial Energy Users-Ohio	Other Supplier
Bruce	Susan	Rep'g. Kimberly-Clark Corporation	Generation Owner
Bruce	Susan	Rep'g. Lehigh Portland Cement Company	End-Use Customer
Bruce	Susan	Rep'g. Letterkenny Industrial Development Authority - PA	Electric Distributor
Bruce	Susan	Rep'g. MeadWestvaco Corporation	End-Use Customer
Bruce	Susan	Rep'g. Messer LLC	End-Use Customer
Bruce	Susan	Rep'g. Praxair, Inc.	End-Use Customer
Bruce	Susan	Rep'g. Procter & Gamble Paper Products Company (The)	End-Use Customer
Bruce	Susan	Rep'g. Trustees of the University of Pennsylvania	End-Use Customer
Bruce	Susan	Rep'g. Wellsboro Electric Company	Electric Distributor
Canter	David	Appalachian Power Company	Transmission Owner
Carrier	Ron	Direct Energy Business, LLC	Other Supplier
Davis	James	Virginia Electric & Power 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. Diamond State Generation Partners, LLC	Generation Owner
Fuess	Christian	Rep'g. Ictec.com, Inc.	Other Supplier
Fuess	Christian	Rep'g. Kuehne Chemical Company, Inc.	End-Use Customer
Fuess	Christian	Rep'g. NextPower III US Holdco Inc.	Generation Owner
Fuess	Christian	Rep'g. PBF Power Marketing, LLC	Generation Owner
Garnett	Bryan	Duke Energy Business Services LLC	Transmission Owner
Hoatson	Tom	Riverside Generating Company, L.L.C.	Generation Owner
Hohenshilt	Jennifer	Talen Energy Marketing, LLC	Generation 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. American Municipal Power, Inc.	Electric Distributor
Johnson	Carl	Rep'g. Blue Ridge Power Agency, Inc.	Electric Distributor
Johnson	Carl	Rep'g. Borough of Chambersburg	Electric Distributor
Johnson	Carl	Rep'g. Borough of Mont Alto, Pennsylvania	Electric Distributor
Johnson	Carl	Rep'g. Buckeye 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. Delaware Municipal Electric Corporation, Inc.	Electric Distributor
Johnson	Carl	Rep'g. Easton Utilities Commission	Electric Distributor
Johnson	Carl	Rep'g. Energy Cooperative Association of Pennsylvania (The)	Other Supplier
Johnson	Carl	Rep'g. Galt Power, Inc.	Other Supplier
Johnson	Carl	Rep'g. Hagerstown Light Department	Electric Distributor
Johnson	Carl	Rep'g. Illinois Municipal Electric Agency	Electric Distributor
Johnson	Carl	Rep'g. Indiana Municipal Power Agency	Electric Distributor
Johnson	Carl	Rep'g. Madison Gas & Electric Co.	Other Supplier
Johnson	Carl	Rep'g. Michigan Public Power Agency	Generation Owner
Johnson	Carl	Rep'g. North Carolina Electric Membership Corporation	Electric Distributor
Johnson	Carl	Rep'g. North Carolina Municipal Power Agency Number 1	Other Supplier
Johnson	Carl	Rep'g. Northern Illinois Municipal Power Agency	Electric Distributor
Johnson	Carl	Rep'g. Northern Virginia Electric Cooperative (NOVEC)	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
Keenan	Matthew	Elwood Energy, LLC	Generation Owner
Kilgallen	Kevin	Avangrid Renewables, LLC	Generation Owner
Long	Scott	Allegheny Electric Cooperative, Inc.	Electric Distributor
Pelletier	Eveline	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Peoples	John	Duquesne Light Company	Transmission Owner
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 & Gas Company	Transmission Owner
Stewart	Travis	Rep'g. Covanta Energy Group, LLC	Generation Owner
Stewart	Travis	Rep'g. Energy Harbor LLC	Generation Owner
Stewart	Travis	Rep'g. Jersey Green Energy, LLC	Other Supplier
Stewart	Travis	Rep'g. Longview Power, LLC	Generation Owner
Stewart	Travis	Rep'g. York County Solid Waste and Refuse Authority	Generation Owner
Swalwell	Bradley	Tangent Energy Solutions, Inc.	Other Supplier

Whitehead	Jeffrey	Rep'g. Eastern Generation, LLC	Generation Owner
Whitehead	Jeffrey	Rep'g. Essential Power Rock Springs, LLC	Generation Owner
Whitehead	Jeffrey	Rep'g. Neptune Regional Transmission System, LLC	Transmission Owner
Whitehead	Jeffrey	Rep'g. Wheelabrator Falls Inc.	Generation Owner

### Non-Voting Attendees

LAST NAME	FIRST NAME	MEMBER/COMPANY NAME	SECTOR
Vargo	Daniel	Aec	Not Applicable
Heitmeyer	Chad	AEP Energy, Inc.	Transmission Owner
Ondayko	Brock A.	AEP Energy, Inc.	Transmission Owner
Bockhorn	Tim	AES ES Holdings, LLC	Generation Owner
Fishback	Luke	Affirmed Energy LLC	Other Supplier
Pierce	Evan	Amazon Energy LLC	Other Supplier
Hull	Gerit	American Municipal Power, Inc.	Electric Distributor
Guntle	Vince	American PowerNet Management, L.P.	End-Use Customer
D'Alessandris	Lou	American Transmission Systems, Inc.	Transmission Owner
Stuchell	Jeff	American Transmission Systems, Inc.	Transmission Owner
Berton	Tyler	Appalachian Power Company	Transmission Owner
Burbure	Stacy	Appalachian Power Company	Transmission Owner
Gates	Terry	Appalachian Power Company	Transmission Owner
Laios	Takis	Appalachian Power Company	Transmission Owner
Gibbons	Jaret	Arippa	Not Applicable
Schmidt	Thomas	Buckeye Power, Inc.	Electric Distributor
Poulos	Greg	CAPs	Not Applicable
Huntoon	Steve	Chesapeake Transmission LLC	Other Supplier
Miller	John	Commonwealth Edison Company	Transmission Owner
Gilani	Rehan	Consolidated Edison Energy, Inc.	Other Supplier
Ament	Todd	Cube Hydro Partners, LLC	Generation Owner
Filomena	Guy	Customized Energy Solutions, Ltd.*	Not Applicable
Horning	Lynn	Customized Energy Solutions, Ltd.*	Not Applicable
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Bleiweis	Bruce	DC Energy, LLC	Other Supplier
Cala	Gaberela	Domed	Not Applicable
Jett	William	Duke Energy Business Services LLC	Transmission Owner
Mok	Alan	Duke Energy Business Services LLC	Transmission Owner
Sturgeon	John	Duke Energy Business Services LLC	Transmission Owner
Domian	Christin	Duquesne Light Company	Transmission Owner
Wicks	Tonja	Duquesne Light Company	Transmission Owner
Abend	Erik	EA Consulting	Not Applicable



Singh	Harsimran	Eastern Generation, LLC	Generation Owner
Doremus	Steven	Enel X North America, Inc.	Other Supplier
Bainbridge	Thomas	Energy Harbor LLC	Generation Owner
DiNicola	Laura	Energy Harbor LLC	Generation Owner
Elkins	Rachel	Energy Harbor LLC	Generation Owner
Liang-Nicol	Cecilia	Energy Harbor LLC	Generation Owner
Mancuso	Melanie	Energy Harbor LLC	Generation Owner
Parker	Amanda	Energy Harbor LLC	Generation Owner
Pizzutelli	Ashley	Energy Harbor LLC	Generation Owner
Reeping	Robert	Energy Harbor LLC	Generation Owner
Campbell	Bruce	Enerwise Global Technologies, LLC	Other Supplier
Fazio	Danielle	Engelhart CTP (US) LLC	Other Supplier
Douglass	Robert	Exelon Business Services Company, LLC	Transmission Owner
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Shah	Pulin	Exelon Business Services Company, LLC	Transmission Owner
Taylor	Robert	Exelon Business Services Company, LLC	Transmission Owner
Thomas	Amber	Exelon Business Services Company, LLC	Transmission Owner
Thundiyil	Kevin	Exelon Business Services Company, LLC	Transmission Owner
Walker	Jennifer	Exelon Business Services Company, LLC	Transmission Owner
Shegarfi	Rozzbeh	Exelon Generation Co., LLC	Generation Owner
Martin	Valerie	Federal Energy Regulatory Commission	Not Applicable
Redwine	Arlo	Federal Energy Regulatory Commission	Not Applicable
Grant	Melanie	FirstEnergy Corporation	Not Applicable
Hudis	Gabriella	Gabel Associates	Not Applicable
Nix	Emma	Gabel Associates	Not Applicable
Stone	Andy	Gabel Associates	Not Applicable
Grant	Andrew	Green River Holdings, LLC	Generation Owner
Sweeney	Rory	GT Power Group, LLC	Not Applicable
Shanker	Roy	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Rismiller	Randy	Illinois Commerce Commission	Not Applicable
Schum	Alice	Indiana Municipal Power Agency	Electric Distributor
Gahimer	Michael	Indiana Office of Utility Consumer Counselor (IN OUCC)	End-Use Customer
Iller	Arthur	Indiana Office of Utility Consumer Counselor (IN OUCC)	End-Use Customer
Johnston	David	Indiana Utility Regulatory Commission	Not Applicable
Stupar	Rob	Invenergy, LLC	Generation Owner
Wisersky	Megan	Madison Gas & Electric Co.	Other Supplier
Wehnes	Kathleen	Maryland Department of the Environment	Not Applicable
Schreim	Morris	Maryland Public Service Commission	Not Applicable

Mabry	David	McNeese, Wallace & Nurick, LLC	Not Applicable
Rorie	Levidel	Mecko	Not Applicable
Hanser	Erik	Michigan Public Service Commission	Not Applicable
Hastings	David	Mics	Not Applicable
Phillips	Jennifer	Middle River Tower	Not Applicable
Bowring	Joe	Monitoring Analytics	Not Applicable
DeLosa	Joseph	New Jersey Board of Public Utilities	Not Applicable
Dailey	Michael	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Rainey	John	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Nole	Anthony	NuEnergen, LLC	Other Supplier
Mariam	Yohannes	Office of the People's Counsel for the District of Columbia	End-Use Customer
Squibb	William	Ohio Valley Electric Corporation	Transmission Owner
Carmean	Gregory	OPSI	Not Applicable
Rodriguez	Tomas	OPSI	Not Applicable
Lee	Tina	Opus Resource Partners	Not Applicable
Rainey	Frank	PEI Power LLC	Generation Owner
Vasquez	Chris	Perennial Power	Not Applicable
Tibbetts	Maeve	Pierce Atwood	Not Applicable

## PJM Attendees

LAST NAME	FIRST NAME	COMPANY NAME	SECTOR
Asthana	Manu	PJM Interconnection, LLC	Not Applicable
Baptiste	Maria	PJM Interconnection, LLC	Not Applicable
Bastian	Jeff	PJM Interconnection, LLC	Not Applicable
Bryson	Mike	PJM Interconnection, LLC	Not Applicable
Buehler	Susan	PJM Interconnection, LLC	Not Applicable
Burdis	Tim	PJM Interconnection, LLC	Not Applicable
DeVita	Thomas	PJM Interconnection, LLC	Not Applicable
Drauschak	Lisa	PJM Interconnection, LLC	Not Applicable
Egan	Amanda	PJM Interconnection, LLC	Not Applicable
Esterly	Theresa	PJM Interconnection, LLC	Not Applicable
Fernandez	Ray	PJM Interconnection, LLC	Not Applicable
Foley	Sheila	PJM Interconnection, LLC	Not Applicable
Franks	Christine	PJM Interconnection, LLC	Not Applicable
Frogg	Darrell	PJM Interconnection, LLC	Not Applicable
Greening	Michele	PJM Interconnection, LLC	Not Applicable
Haque	Asim	PJM Interconnection, LLC	Not Applicable
Hatch	Kevin	PJM Interconnection, LLC	Not Applicable
Hauske	Tom	PJM Interconnection, LLC	Not Applicable

Horger	Tim	PJM Interconnection, LLC	Not Applicable
Keegan	John	PJM Interconnection, LLC	Not Applicable
Kimmel	David	PJM Interconnection, LLC	Not Applicable
Langbein	Pete	PJM Interconnection, LLC	Not Applicable
Loebl	Margaret	PJM Interconnection, LLC	Not Applicable
Lu	Chen	PJM Interconnection, LLC	Not Applicable
Makovsky	Michael	PJM Interconnection, LLC	Not Applicable
Mathew	Lagy	PJM Interconnection, LLC	Not Applicable
McLaverty	Megan	PJM Interconnection, LLC	Not Applicable
Morelli	Lisa	PJM Interconnection, LLC	Not Applicable
Muhl	Nancy	PJM Interconnection, LLC	Not Applicable
Nice	Ryan	PJM Interconnection, LLC	Not Applicable
O'Hara	Chris	PJM Interconnection, LLC	Not Applicable
Oskvig	O.H. Dean	PJM Interconnection, LLC	Not Applicable
Phillips	Darlene	PJM Interconnection, LLC	Not Applicable
Pincus	Steve	PJM Interconnection, LLC	Not Applicable
Reynolds	John	PJM Interconnection, LLC	Not Applicable
Salmon	Lisa	PJM Interconnection, LLC	Not Applicable
Sarti	Daniel	PJM Interconnection, LLC	Not Applicable
Scheidecker	Paul	PJM Interconnection, LLC	Not Applicable
Seiler	Ken	PJM Interconnection, LLC	Not Applicable
Shah	Vijay	PJM Interconnection, LLC	Not Applicable
Shields	Jeffrey	PJM Interconnection, LLC	Not Applicable
Sims	Mark	PJM Interconnection, LLC	Not Applicable
Souder	Michelle	PJM Interconnection, LLC	Not Applicable
Souder	Dave	PJM Interconnection, LLC	Not Applicable
Stefanowicz	Vince	PJM Interconnection, LLC	Not Applicable
Stotesbury	Christina	PJM Interconnection, LLC	Not Applicable
Tribulski	Jen	PJM Interconnection, LLC	Not Applicable
Windom	Stuart	PJM Interconnection, LLC	Not Applicable