

## MARKETS & OPERATIONS POLICY COMMITTEE MEETING (MOPC)

April 12, 1:00 p.m. to 5:00 p.m. CST | April 13, 8:00 a.m. to 5:00 p.m. CST | Webex

### MINUTES

[LINK TO MATERIALS](#)

## ADMINISTRATIVE

### 1. Administrative

Denise Buffington (Evergy Companies) called the meeting to order at 1:02 p.m. Lanny Nickell (SPP), MOPC staff secretary, reviewed proxies, past action items, and the revision request (RR) summary. He discussed Robert's Rules of the quarter. Buffington discussed a new effort toward improving diversity, equity and inclusion within MOPC. The group remembered and honored Ron Thompson (NPPD), who passed away earlier this year.

## SPP'S MEMBERSHIP DIVERSITY

A diversity, equity & inclusion project

Bruce Rew (SPP) and Antoine Lucas (SPP) moderated panel discussions to allow different members, companies and sectors the opportunity to share their perspectives on SPP and the industry. Matt Caves (Western Farmers Electric Cooperative), Holly Rachel Smith (Walmart), Usha Turner (OG&E), Melie Vincent (Oklahoma Municipal Power Authority), Betsy Beck (Enel Green Power North America), Chase Smith (Southern Power) and Alan Myers (ITC Holdings) participated on the panels.

## APPROVAL

### 4. Consent Agenda

- a. January 2021 meeting minutes
- b. **ESWG:** RR448 – Removing renewable portfolio standards table from ITP and replacing in scope
- c. **MWG:** RR441 – Ramp capability products settlements protocol corrections
- d. **MWG:** RR442 – Desired dispatch settlement definitions alignment
- e. **MWG:** RR444 – Order 841 electric storage resources additional settlements protocol correction and clarification
- f. **MWG:** RR445 – SPP holidays definition update and clean-up
- g. **ORWG:** RR443 – Resource retirement business practice clarification (action item 310)
- h. **PCWG:** Cost variance Mustang-Seminole 115 kV Circuit 1 Line
- i. **TWG:** RR435 – Change assignment threshold for ERIS (Energy Resource Interconnection Service) in the generation interconnection study process (SPP Business Practice 7250)
- j. **TWG/ESWG:** 2022 Integrated Transmission Plan (ITP) scope modifications

*Antitrust:* SPP strictly prohibits use of participation in SPP activities as a forum for engaging in practices or communications that violate the antitrust laws. Please avoid discussion of topics or behavior that would result in anti-competitive behavior, including but not limited to, agreements between or among competitors regarding prices, bid and offer practices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that might unreasonably restrain competition.

- k. **RTWG:** RR430 – Generation interconnection data request revisions
- l. **RTWG:** RR437 – Surplus interconnection service timing clarification
- m. **RTWG:** RR447 – Point-to-point megawatt-mile enhancement
- n. **Staff:** Sponsored upgrade study-016 Onida
- o. **Staff:** Sponsored upgrade study-019 Hughes County

Jack Clark (NextEra Energy Resources) requested that item 4k, RR430 (generation interconnection data request revisions), be pulled from the consent agenda. Heather Starnes (Missouri Joint Municipal Electric Utility Commission) moved to approve the consent agenda with the removal of RR430. Melie Vincent (Oklahoma Municipal Power Authority) seconded the motion. The motion passed with 100% approval.

After further discussion of RR430, staff recommended that MOPC take no action on the revision request at the April meeting. The RTWG will bring RR430 back to MOPC in July.

## 5. **Economic Studies Working Group**

Casey Cathey (SPP) discussed the 2021 ITP mitigation plan. Jim Jacoby (American Electric Power) moved that MOPC:

- Waive the requirements in the ITP Manual to build and assess the market powerflow models during the 2021 ITP Reliability Needs Assessment
- Approve 2021 ITP Scope modification to allow schedule adjustments within the 2021 ITP

Alan Myers (ITC Holdings) seconded the motion. The motion passed with 100% approval.

Cathey also gave a short update on the ITP 2022 and 20-year assessments.

## 6. **Staff**

Casey Cathey (SPP) discussed a proposal on transmission planning initiatives. Al Tamimi (Sunflower Electric Power Corp.) moved that MOPC waive the economic and policy requirements from the 2023 ITP and approve moving 2023 ITP scope development start from July 2021 to January 2022. Bill Grant (Xcel Energy) seconded the motion. The motion failed with 65% approval.

Since the motion failed, staff will bring the transmission planning initiatives proposal to the board of directors at their April meeting. Staff will ask the board to consider options such as using consulting dollars to allow SPP to complete the 2021 ITP this year.

# INFORMATIONAL

## 7. **Comprehensive Review Steering Committee**

Lanny Nickell (SPP) gave an overview of the Comprehensive Review Steering Committee, which is reviewing the February 2021 winter storm event. Denise Buffington (Eversource), John Krajewski (Nebraska Power Review Board), Mike Ross (SPP), Tom Dunn (SPP), Keith Collins (SPP Market Monitoring Unit) reviewed the work their teams are doing in the coming months before presenting recommendations to the SPP board of directors in July.

## 8. **NERC & NAESB**

Charles Yeung (SPP) gave an update on North American Electric Reliability Corporation and North American Energy Standards Board activities, including NERC's past efforts related to cold weather events.

## 9. **Market Monitoring Unit quarterly report/winter event**

Keith Collins (SPP MMU) reviewed the MMU's quarterly report and highlighted issues related to the Feb. 2021 winter storm event.

## 10. **Market Working Group: uncertainty product education session**

Ryan Schoppe (SPP) presented information on the "uncertainty" market product that addresses reliability issues associated with an increased reliance on forecastable generation. The 2018 HITT report indicated that SPP should design and implement such a product. The MWG plans to bring the product to the July MOPC meeting for approval.

## 11. **Electric Storage Resources Steering Committee**

Richard Dillon (SPP) gave a brief update on the committee's activities. The group has been focused on education and plans to begin making FERC filings in the next 12 months.

## 12. **Order 2222 Task Force**

Michael Desselle (SPP) presented an update on the task force's work on ten policy issues and upcoming outreach to distribution utilities. FERC granted a revised filing date of April 28, 2022 for SPP's response to Order 2222. The task force will meet once per month over the next year to meet this filing deadline.

## 13. **Transmission Owner Selection Process (TOSP) Task Force**

Steve Drew (NextEra) updated MOPC on the task force's efforts to improve the TOSP process. The group plans to make recommendations to the MOPC and Strategic Planning Committee in July and seek approval of Revision Requests in October 2021.

## 14. **Strategic & Creative Re-engineering of Integrated Planning Team (SCRIPT)**

**a.** Lanny Nickell (SPP) gave an overview of the SCRIPT project. The team's goal is to develop improvements to SPP's integrated transmission planning process for board approval in October 2021.

**b.** Kelsey Allen (SPP) discussed proposals to consolidate various planning processes to develop more optimal solutions and improve efficiencies, effectiveness and timeliness.

**c.** Clint Savoy (SPP) reviewed recommendations related to interregional transmission pricing, planning and cost allocation, market design and governance.

**d.** David Kelley (SPP) discussed the proposal to mitigate the generator interconnection (GI) backlog, highlighting what has changed and how MOPC can engage in the final steps of this process.

## 15. Staff

- a. Paul Suskie gave an update on projects associated with the Holistic Integrated Tariff Team report.
- b. Bruce Rew noted that on Feb. 1, the Western Energy Imbalance Service (WEIS) market went live on time and under budget. Two Balancing Authorities and eight market participants are operating in the market. It has been operating successfully since the launch.
- c. Erin Cathey reviewed the status of the comprehensive initiative roadmap, formerly called the strategic roadmap.

## WRITTEN REPORTS

- 16. Deliverability Steering Committee..... Steve Purdy (SPP)
- 17. Generator Outage Task Force..... James Hicks (Western Area Power Administration)
- 18. Market Working Group action item update & RR cost summary ..... Richard Ross (American Electric Power)
- 19. Project Cost Working Group Q2 2021 report..... Brian Johnson (American Electric Power)
- 20. Security Advisory Group..... Phil Clark (Arkansas Electric Cooperative)
- 21. Staff: Q2 2021 quarterly project tracking report..... John O'Dell
- 22. Staff: Riverside Breakers NTC (notification to construct) modification..... John O'Dell
- 23. Staff: Finance Committee capital projects dashboard ..... Terry Rhoades
- 24. Staff: Stakeholder prioritization report ..... Terry Rhoades
- 25. Staff: Chaves-Price Tap-Capitan NTC modification..... John O'Dell

## CLOSING

There were no new action items. Lanny Nickell reminded the group that SPP's stakeholder meetings will be held virtually until further notice. We will not be in Oklahoma City in July. We will meet via webex July 12-13, 2021 and October 11-12, 2021.

The meeting was adjourned at 4:45 p.m.

**MOPC E-VOTE: Weighted Results**

Election	Consent Agenda
Generated as of	2021-04-14 11:52:34.19
Number of voters who voted	58
TO's Voting	15
TU's Voting	43
Percentage of TU's Approving	100
Percentage of TO's Approving	100
Averaged Approval %	100

Motion/Recommendation	Voters	Votes	YES	NO	ABSTAIN
Approve consent agenda with the removal of RR 430	Transmission Owner	15	15	0	0
	Transmission User	42	42	0	1

RECOMMENDATION	PASS
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MOPC E-VOTE: Raw Vote		
Member	TO/TU	VOTE
Advanced Power Alliance	Transmission User	YES
AEP Southwestern Transmission Co.	Transmission User	YES
American Electric Power-OK Transmission Co.	Transmission User	YES
Arkansas Electric Cooperative Corporation	Transmission User	YES
Basin Electric Power Cooperative	Transmission Owner	YES
Calpine Corporation	Transmission User	YES
Central Power Electric Cooperative	Transmission User	YES
City Utilities of Springfield MO	Transmission User	YES
Corn Belt Power Cooperative	Transmission User	YES
Dogwood Energy	Transmission User	YES
East River Electric Power Cooperative	Transmission User	YES
East Texas Electric Cooperative	Transmission User	YES
EDF Renewables	Transmission User	Abstain
EDP Renewables	Transmission User	YES
Engie North America	Transmission User	YES
Evergy Kansas Central (Westar)	Transmission Owner	YES
Evergy Kansas South (KGE-WESTAR)	Transmission Owner	YES
Evergy Metro (KCP&L)	Transmission Owner	YES
Flat Ridge 2 Wind Energy (BP Wind Energy)	Transmission User	YES

Golden Spread Electric Cooperative	Transmission User	YES
GRDA	Transmission Owner	YES
GridLiance High Plains	Transmission User	YES
Heartland Consumers Power District	Transmission User	YES
ITC Great Plains	Transmission User	YES
Kansas City Board of Public Utilities	Transmission Owner	YES
Kansas Electric Power Cooperative (KEPCo)	Transmission User	YES
Kansas Municipal Energy Agency	Transmission User	YES
Kansas Power Pool	Transmission User	YES
Lincoln Electric System	Transmission User	YES
Midwest Energy	Transmission Owner	YES
Missouri Joint Municipal EUC	Transmission User	YES
Mor-Gran-Sou Electric Co-op	Transmission User	YES
Mountrail-Williams Electric Cooperative	Transmission User	YES
Municipal Energy Agency of Nebraska	Transmission User	YES
Northeast Texas Electric Cooperative	Transmission User	YES
Northwest Iowa Power Cooperative	Transmission User	YES
NorthWestern Energy	Transmission User	YES
Oklahoma Gas & Electric- Electric Services	Transmission Owner	YES
Oklahoma Gas & Electric-Transmission	Transmission User	YES
Oklahoma Municipal Power Authority	Transmission User	YES
Omaha Public Power District	Transmission Owner	YES
Prairie Wind Transmission	Transmission User	YES
Public Service Co. of Oklahoma (AEP)	Transmission Owner	YES
Roughrider Electric Cooperative Inc.	Transmission User	YES
Southern Power	Transmission User	YES
Southwest Transmission LLC	Transmission User	YES
Southwestern Electric Power Co. (AEP)	Transmission Owner	YES
Southwestern Public Service-Xcel Energy	Transmission Owner	YES
Sunflower Electric Power Corp	Transmission Owner	YES
Transource Energy	Transmission User	YES
Transource Missouri	Transmission User	YES
Transource Oklahoma	Transmission User	YES
Tri County Electric Cooperative	Transmission User	YES
Tri-State Generation and Transmission Association	Transmission User	YES
Walmart	Transmission User	YES
Western Area Power Administration	Transmission Owner	YES
Western Farmers Electric Cooperative	Transmission Owner	YES
Xcel Energy Southwest Transmission Co.	Transmission User	YES

**MOPC E-VOTE: Weighted Results**

Election	2021 ITP Reliability Needs Assessment Waiver
Generated as of	2021-04-14 10:18:51.183
Number of voters who voted	55
TO's Voting	15
TU's Voting	40
Percentage of TU's Approving	100
Percentage of TO's Approving	100
Averaged Approval %	100

Motion/Recommendation	Voters	Votes	YES	NO	ABSTAIN
Waive the requirements in the ITP Manual to build and assess the market powerflow models during the 2021 ITP Reliability Needs Assessment, and approve 2021 ITP Scope modification to allow schedule adjustments within the 2021 ITP.	Transmission Owner	15	15	0	0
	Transmission User	39	39	0	1

RECOMMENDATION	PASS
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MOPC E-VOTE: Raw Vote		
Member	TO/TU	VOTE
Advanced Power Alliance	Transmission User	YES
AEP Southwestern Transmission Co.	Transmission User	YES
American Electric Power-OK Transmission Co.	Transmission User	YES
Arkansas Electric Cooperative Corporation	Transmission User	YES
Basin Electric Power Cooperative	Transmission Owner	YES
Calpine Corporation	Transmission User	YES
Central Power Electric Cooperative	Transmission User	YES
City of Independence MO	Transmission User	YES
City Utilities of Springfield MO	Transmission User	YES
Corn Belt Power Cooperative	Transmission User	YES
Dogwood Energy	Transmission User	YES
East Texas Electric Cooperative	Transmission User	YES
EDP Renewables	Transmission User	YES
Engie North America	Transmission User	Abstain
Energy Kansas South (KGE-WESTAR)	Transmission Owner	YES
Energy Metro (KCP&L)	Transmission Owner	YES
Flat Ridge 2 Wind Energy (BP Wind Energy)	Transmission User	YES
Golden Spread Electric Cooperative	Transmission User	YES
GRDA	Transmission Owner	YES

GridLiance High Plains	Transmission User	YES
Heartland Consumers Power District	Transmission User	YES
ITC Great Plains	Transmission User	YES
Kansas City Board of Public Utilities	Transmission Owner	YES
Kansas Electric Power Cooperative (KEPCo)	Transmission User	YES
Kansas Power Pool	Transmission User	YES
Liberty Utilities	Transmission Owner	YES
Lincoln Electric System	Transmission User	YES
Midwest Energy	Transmission Owner	YES
Missouri Joint Municipal EUC	Transmission User	YES
Missouri River Energy Services	Transmission User	YES
Mor-Gran-Sou Electric Co-op	Transmission User	YES
Mountrail-Williams Electric Cooperative	Transmission User	YES
Nebraska Public Power District	Transmission Owner	YES
NextEra Energy Resources	Transmission User	YES
Northeast Texas Electric Cooperative	Transmission User	YES
Northwest Iowa Power Cooperative	Transmission User	YES
NorthWestern Energy	Transmission User	YES
Oklahoma Gas & Electric- Electric Services	Transmission Owner	YES
Oklahoma Gas & Electric-Transmission	Transmission User	YES
Oklahoma Municipal Power Authority	Transmission User	YES
Omaha Public Power District	Transmission Owner	YES
Prairie Wind Transmission	Transmission User	YES
Public Service Co. of Oklahoma (AEP)	Transmission Owner	YES
Roughrider Electric Cooperative Inc.	Transmission User	YES
Southern Power	Transmission User	YES
Southwest Transmission LLC	Transmission User	YES
Southwestern Public Service-Xcel Energy	Transmission Owner	YES
Sunflower Electric Power Corp	Transmission Owner	YES
Transource Energy	Transmission User	YES
Transource Missouri	Transmission User	YES
Transource Oklahoma	Transmission User	YES
Tri-State Generation and Transmission Association	Transmission User	YES
Western Area Power Administration	Transmission Owner	YES
Western Farmers Electric Cooperative	Transmission Owner	YES
Xcel Energy Southwest Transmission Co.	Transmission User	YES



**MOPC E-VOTE: Weighted Results**

Election	2023 ITP Waiver
Generated as of	2021-04-14 10:23:59.42
Number of voters who voted	64
TO's Voting	17
TU's Voting	47
Percentage of TU's Approving	47.62
Percentage of TO's Approving	82.35
Averaged Approval %	64.99

Motion/Recommendation	Voters	Votes	YES	NO	ABSTAIN
Waive the economic and policy requirements from the 2023 ITP, and approve moving 2023 ITP scope development start from July 2021 to January 2022.	Transmission Owner	17	14	3	0
	Transmission User	42	20	22	5

RECOMMENDATION	FAIL
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MOPC E-VOTE: Raw Vote		
Member	TO/TU	VOTE
Advanced Power Alliance	Transmission User	NO
AEP Southwestern Transmission Co.	Transmission User	NO
American Electric Power-OK Transmission Co.	Transmission User	NO
Arkansas Electric Cooperative Corporation	Transmission User	YES
Basin Electric Power Cooperative	Transmission Owner	YES
Calpine Corporation	Transmission User	Abstain
Central Power Electric Cooperative	Transmission User	YES
City of Independence MO	Transmission User	YES
City Utilities of Springfield MO	Transmission User	YES
Corn Belt Power Cooperative	Transmission User	YES
Dogwood Energy	Transmission User	Abstain
East River Electric Power Cooperative	Transmission User	YES
East Texas Electric Cooperative	Transmission User	YES
EDF Renewables	Transmission User	NO
EDP Renewables	Transmission User	NO
Enel Green Power North America	Transmission User	NO
Engie North America	Transmission User	NO
Evergy Kansas Central (Westar)	Transmission Owner	YES
Evergy Kansas South (KGE-WESTAR)	Transmission Owner	YES

Evergy Metro (KCP&L)	Transmission Owner	NO
Flat Ridge 2 Wind Energy (BP Wind Energy)	Transmission User	NO
Golden Spread Electric Cooperative	Transmission User	YES
GRDA	Transmission Owner	YES
GridLiance High Plains	Transmission User	NO
Heartland Consumers Power District	Transmission User	Abstain
ITC Great Plains	Transmission User	NO
Kansas City Board of Public Utilities	Transmission Owner	YES
Kansas Electric Power Cooperative (KEPCo)	Transmission User	YES
Kansas Municipal Energy Agency	Transmission User	Abstain
Kansas Power Pool	Transmission User	NO
Liberty Utilities	Transmission Owner	YES
Lincoln Electric System	Transmission User	YES
Midwest Energy	Transmission Owner	YES
Missouri Joint Municipal EUC	Transmission User	Abstain
Mor-Gran-Sou Electric Co-op	Transmission User	YES
Mountrail-Williams Electric Cooperative	Transmission User	YES
Municipal Energy Agency of Nebraska	Transmission User	YES
Nebraska Public Power District	Transmission Owner	YES
NextEra Energy Resources	Transmission User	NO
NextEra Energy Transmission	Transmission User	NO
NextEra Energy Transmission Southwest	Transmission User	NO
Northeast Texas Electric Cooperative	Transmission User	YES
NorthWestern Energy	Transmission User	YES
Oklahoma Gas & Electric- Electric Services	Transmission Owner	YES
Oklahoma Gas & Electric-Transmission	Transmission User	YES
Oklahoma Municipal Power Authority	Transmission User	YES
Omaha Public Power District	Transmission Owner	YES
Prairie Wind Transmission	Transmission User	NO
Public Service Co. of Oklahoma (AEP)	Transmission Owner	NO
Roughrider Electric Cooperative Inc.	Transmission User	YES
Savion LLC	Transmission User	NO
Southern Power	Transmission User	NO
Southwest Transmission LLC	Transmission User	NO
Southwestern Electric Power Co. (AEP)	Transmission Owner	NO
Southwestern Public Service-Xcel Energy	Transmission Owner	YES
Sunflower Electric Power Corp	Transmission Owner	YES
Tenaska Power Services Co.	Transmission User	NO
Transource Energy	Transmission User	NO
Transource Missouri	Transmission User	NO
Transource Oklahoma	Transmission User	NO
Tri-State Generation and Transmission Association	Transmission User	YES
Western Area Power Administration	Transmission Owner	YES
Western Farmers Electric Cooperative	Transmission Owner	YES
Xcel Energy Southwest Transmission Co.	Transmission User	YES

## **MOPC: April 12-13, 2021 - DAY 1**

<b>First Name</b>	<b>Last Name</b>	<b>Company</b>
Christine	Aarnes	Sunflower Electric Power Corporation
Malcolm	Ainspan	NRGCS
Shari	Albrecht	KCC
Tony	Alexander	Southwest Power Pool
Kelsey	Allen	SPP
Larry	Altenbaumer	SPP Director
Angie	Anderson	Sunflower Electric Power Corporation
Lee	Anderson	Lincoln Electric System
Rebecca	Atkins	Missouri Public Utility Alliance
Mo	Awad	Evergy
Cole	Bailey	KCC
Mark	Barbee	KEPCo
Antonio	Barber	SPP
Harika	Basaran PUCT	PUCT
Bronwen	Bastone	SPP
Betsy	Beck	Enel Green Power North America
Adam	Bell	SPP
Traci	Bender	NPPD
Andrew	Berg	Missouri River Energy Services
Joel	Berger	CES
Ray	Bergmeier	Sunflower Electric Power Corporation
Maison	Bleam	Iowa Utilities Board
Kevin	Bornhoft	Corn Belt Power Cooperative
John	Boshears	City Utilities of Springfield
Douglas	Bowman	SPP
Ben	Bright	SPP
Tammy	Bright	SPP
Erica	Brooks	SPP
Derek	Brown	Evergy
Natasha	Brown	Oklahoma Municipal Power Authority
Scott	Brown	SPP
Tim	Brown	GRDA
Denise	Buffington	Evergy Companies
Ven	Bujimalla	IUB
Russell	Carey	SPP
Casey	Cathey	Southwest Power Pool
Erin	Cathey	SPP
Matt	Caves (WFEC)	Western Farmers Electric Cooperative
Walt	Cecil	Missouri Public Service Commission
Susan	Certoma	SPP
Jason	Chaplin	OCC
Marisa	Choate	SPP
Tom	Christensen	Basin Electric
Jack	Clark	NextEra Energy Resources

Doug	Clark (SPP)	SPP
Brownyn	Collier	ACES
Keith	Collins (MMU)	Southwest Power Pool
Ann	Coultas	Enel
Chris	Cranford	SPP
Mark	Crisson	SPP
Deborah	Currie	Southwest Power Pool
Calvin	Daniels (WFEC)	WFEC
Kristen	Darden	SPP
Christopher	Davis	SPP
Steve	Davis	SPP
Alan	Decker	GRDA
Michael	Desselle	Southwest Power Pool
Daria	Diaz	Stone Pigman
Richard	Dillon	SPP
Loren	Ditsch	OPPD
Carrie	Dixon	Xcel Energy
Jason	Doerr	Basin Electric Power Cooperative
Bruce	Doll	Municipal Energy Agency Of Nebraska
Bill	Dowling	Midwest Energy, Inc
Steve	Drew	NextEra
Lee	Elliott	Southwest Power Pool
Sean	Erickson (WAPA)	WAPA
Pius	Fischer	Bepc
Dennis	Florom	Lincoln Electric System
Jim	Flucke	Evergy Companies
Kara	Fornstrom	Southwest Power Pool
Gayle	Freier	SPP
Juliano	Freitas	SPP
Andrew	French	Kansas Corporation Commission
Don	Frerking-SPP	SPP
Joe	Fultz	Grand River Dam Authority
Steve	Gaw	APA
Liz	Gephardt	SPP
Arash	ghodsian	EDFR
Orijit	Ghoshal	invenergy
Chris	Giles	Tri County Electric Cooperative
Adam	Graff	Heartland Consumers Power District
Bill	Grant	SPS
Amber	Greb	SPP
Tony	Green	Southwest Power Pool
Ron	Gunderson	NPPD
Jamie	Hajek	NorthWestern Energy
Josh	Hale	Southern Power Company
Chris	Haley	SPP
Daniel	Hall	ACPA
Kirk	Hall	Southwest Power Pool

Luke	Haner	Omaha Public Power District
Brad	Hans	Municipal Energy Agency of Nebraska
Mark	Hardaway	Western Farmers
Dale	Haugen	Mountrail-Williams Electric Cooperative
Pat	Hayes	LS Power
Brieanne	Helm	NextEra Energy
Natasha	Henderson	GSEC
Charles	Hendrix	Southwest Power Pool
Tom	Hestermann	Sunflower Electric Power Corporation
Justin	Hinton	Southwest Power Pool
Mark	Hoffman	East River Electric Power Cooperative
larry	Holloway	Kansas Power Pool
Carla	Holly	Flat ridge 2
Jayme	Huber	Northwest Iowa Power Cooperative
Carl	Huslig	Grid Reliability
Anna	Hyatt	Iowa Utilities Board
Cindy	Ireland	AR PSC
Scott	Iverson	Mountrail-Williams Electric Cooperative
Andria	Jackson	Kansas Corporation Commission
Jim	Jacoby (AEP)	AEP/PSO
Jillian	Janik	Southwest Power Pool
Rob	Janssen	Dogwood Energy
Eugene	Jenkins	Electrical Consultants, Inc.
Brian	Johnson	AEP
Ryan	Johnson	ACES
Brooke	Keene	SPP
Lee	Keller	Innovative Energy Alliance
David	Kelley	SPP
Kalun	Kelley	WFEC
Patti	Kelly	SPP
Robert	Kelly	Mor-Gran-Sou Electric Cooperative, Inc.
Tessie	Kentner	SPP
Ryan	Kirk	AEPSC
Tom	Kleckner	RTO Insider
John	Knofczynski	East river
Jeff	Knottek	City Utilities of Springfield, MO
Mick	Kossan	Central Power Electric Coop
Jim	Krajecki	Customized Energy Solutions, LTD
John	Krajewski	NPRB
Bleau	LaFave	NorthWestern Energy
Paul	Lampe	IPL
Brett	Leopold	ITC Great Plains
William	Leung	NPRB
Lloyd	Linke	Western Area Power Administration
Bernie	Liu	Xcel Energy
Antoine	Lucas	SPP
Kristina	Luke-Fry	Kansas Corporation Commission

Christopher	Lyons	CES
Jack	Madden	GDS Associates, Inc.
JP	Maddock	BEPC
Denise	Martin	SPP
joshua	martin	SPP
Mike	Mathis	Continental Resources
Sherrri	Maxey	Southwest Power Pool
Jason	Mazigian	Basin Electric Power Cooperative
Michael	McCann	SPP
Patrick	McGarry	PCI
Adam	McKinnie	Missouri PSC
Kylah	McNabb	Vesta Strategic Solutions, LLC
Nathan	McNeil	MIDW
Courtney	Mehan	Tenaska Power Services Corp
Jessica	Meyer	Lincoln Electric System
David	Mindham	EDP Renewables
Nate	Morris (EDE)	Liberty Utilities / Empire District
Alan	Myers	ITC Holdings
Lanny	Nickell	Southwest Power Pool
Josh	Norton	Southwest Power Pool
John	O'Dell	SPP
Jerry	Ohmes	KCBPU
James	Okenfuss	Savion, LLC
John	Olsen	Live Phase, LLC
Tim	Owens	NPPD
Jake	Pannell	SPP
Nick	Parker	SPP
Matt	Pawlowski	NextEra Energy Resources
Emily	Pennel	
Robert	Pick	NPPD
Brenda	Prokop (ITC GP)	ITC Holdings Corp.
Steve	Purdy	SPP
Dori	Quam	NorthWestern Energy
Russell	Quattlebaum	Southwest Power Pool
Sunny	Raheem	Southwest Power Pool
Deepak	Ramasubramanian	Electric Power Research Institute, Inc. (EPRI)
Dennis	Reed	MWRC
Bruce	Rew	Southwest Power Pool, Inc.
Terry	Rhoades	SPP
JOE	RICHARDSON	XCEL ENERGY
Mike	Riley	SPP
Aaron	Rome	MIDW
Mike	Ross	SPP
Richard	Ross (AEPSC SWEPCO)	why do I have to enter this every time?
Brian	Rounds	AESL Consulting
Pablo	Ruiz	NewGrid, Inc
Britt	Runion	Southwest Power Pool

Robert	Safuto	Customized Energy Solutions
Tom	Saitta	KMEA
Trisha	Samuelson	Roughrider Electric Cooperative
Steve	Sanders	WAPA-UGP
Clint	Savoy	SPP
Adam	Schieffer	OPPD
Ryan	Schoppe	SPP
George	Schureck	NextEra Energy
Jeremy	Severson	Basin Electric Power Cooperative
Mark	Sherman	Central Power Electric Cooperative
Aaron	Shiple	SPP
Walt	Shumate	Shumate & Associates
Lane	Sisung	Louisiana Public Service Commission
Chase	Smith	Southern Power Company
Holly	Smith	Walmart
Tara	Smith	Southwest Power Pool
Dara	Solomon	SPP
Katie	Southworth	Sustainable FERC Project
Heather	Starnes	MJMEUC
John	Stephens (CUS)	City Utilities of Springfield
matthew	stoltz	mountrail williams electric coop
Barbara	Sugg	SPP
Derek	Sunderman	Savion, LLC.
Jon	Sunneberg	Nebraska Public Power District
Paul	Suskie	SPP
Robert	Tallman OG&E	OG&E
Al	Tamimi	Secp
Al	Tamimk	Secp
Len	Tao	Southwest Power Pool
Joe	Taylor	SPS
John	Tennyson	SPRM
DeWayne	Todd	DDT LLC
Maria	Tomac	Basin Electric
Usha-Maria	Turner	OGE Energy
City	Utilities of MO	City Utilities of Springfield, MO
Vincent	Vandaveer	SPRM
John	Varnell	Tenaska Power Services
Melie	Vincent	OMPA
Nicole	Wagner	SPP
Bruce	Walkup	AECC
Eddie	Watson	Southwest Power Pool
Julie	Way	Evergy, Inc. (Kansas City, MO)
Mike	Wech	SWPA
Jeff	Wells	GRDA
Grant	Wilkerson	Evergy
Noman	Williams	GridLiance HP
Derek	Wingfield	

MICHAEL	WISE	Golden Spread Electric Cooperative
Bob	Wittmeyer	Longhorn Power
Terry	Wolf	MRES
Jodi	Woods	SPP MMU
Ian	Wren	SPP MMU
Charles	Yeung	SPP
MaryAnn	Zehr	TSGT

## **MOPC: April 12-13, 2021 - DAY 2**

Christine	Aarnes	Sunflower Electric Power Corporation
Malcolm	Ainspan	NRGCS
Ahmed	Alazzawi	Southwest Power Pool
Shari	Albrecht	KCC
Kelsey	Allen	SPP
Larry	Altenbaumer	SPP Director
Angie	Anderson	Sunflower Electric Power Corporation
Lee	Anderson	Lincoln Electric System
Mary	Ann Zehr	TSGT
Rebecca	Atkins	Missouri Public Utility Alliance
Mo	Awad	Evergy
Cole	Bailey	KCC
James	Bailey	SPP
Mark	Barbee	KEPCo
Antonio	Barber	SPP
Harika	Basaran	PUCT
Bronwen	Bastone	SPP
Betsy	Beck	Enel Green Power North America
Adam	Bell	SPP
Carrie	Bellamy	National Grid Renewables
Traci	Bender	NPPD
Joel	Berger	Customized Energy Solutions
Ray	Bergmeier	Sunflower Electric Power Corporation
Darin	Bloomquist	NEG&T
Kevin	Bornhoft	Corn Belt Power Cooperative
John	Boshears	City Utilities of Springfield
Douglas	Bowman	SPP
Ben	Bright	SPP
Tammy	Bright	Spp
Erica	Brooks	SPP
Chandler	Brown	Sunflower Electric
Derek	Brown	Evergy
Natasha	Brown	Oklahoma Municipal Power Authority
Scott	Brown	SPP
Tim	Brown	GRDA
Denise	Buffington	Evergy Companies
Ven	Bujimalla	IUB



Russell	Carey	SPP
clay	carr	WFEC
Jay	Caspary	Grid Strategies LLC
Gary	Cate	SPP
Casey	Cathey	Ccathey@spp.org
Erin	Cathey	SPP
Matt	Caves (WFEC)	Western Farmers Electric Cooperative
Walt	Cecil	Missouri Public Service Commission
Susan	Certoma	SPP
Jason	Chaplin	OCC
Marisa	Choate	SPP
Tom	Christensen	Basin Electric
Jack	Clark	NextEra Energy Resources
Brownyn	Collier	ACES
Keith	Collins (MMU)	Southwest Power Pool
Ann	Coultas	Enel
Chris	Cranford	SPP
Alex	Crawford	SPP
Mark	Crisson	SPP
Deborah	Currie	Southwest Power Pool
Calvin	Daniels (WFEC)	WFEC
Kristen	Darden	SPP
Kristen	Darden (SPP)	SPP
Christopher	Davis	SPP
Alan	Decker	GRDA
Michael	Desselle	Southwest Power Pool
Kathryn	Dial	SPP
Daria	Diaz	Stone Pigman
Richard	Dillon	SPP
Loren	Ditsch	OPPD
Carrie	Dixon	Xcel Energy
Jason	Doerr	Basin Electric Power Cooperative
Bill	Dowling	Midwest Energy, Inc
Steve	Drew	NextEra
Tom	Dunn	SPP
Lee	Elliott	Southwest Power Pool
Sean	Erickson (WAPA)	WAPA
Dennis	Florom	Lincoln Electric System
Jim	Flucke	Evergy Companies
Kara	Fornstrom	Southwest Power Pool
Gayle	Freier	SPP
Juliano	Freitas	SPP
Andrew	French	Kansas Corporation Commission
Don	Frerking-SPP	SPP
Joe	Fultz	Grand River Dam Authority
Steve	Gaw	APA
Shawn	Geil	KEPCo

Liz	Gephardt	SPP
Arash	ghodsian	EDFR
Adam	Graff	Heartland Consumers Power District
Bill	Grant	SPS
Amber	Greb	SPP
Tony	Green	Southwest Power Pool
Esat	Guney	SPP
Jamie	Hajek	NorthWestern Energy
Josh	Hale	Southern Power Company
Chris	Haley	SPP
Kirk	Hall	SPP
Luke	Haner	Omaha Public Power District
Brad	Hans	Municipal Energy Agency of Nebraska
Jena	Harrell	SPP
Pat	Hayes	LS Power
Douglas	Healy	MPUA
Natasha	Henderson	Golden Spread Electric Cooperative, Inc.
Charles	Hendrix	Southwest Power Pool
Tom	Hestermann	Sunflower Electric Power Corporation
Justin	Hinton	Southwest Power Pool
Mark	Hoffman	East River Electric Power Cooperative
larry	Holloway	Kansas Power Pool
Carla	Holly	Flat Ridge 2
ryan	houk	AEP
Maurisa	Hughes	Southwest Power Pool
Carl	Huslig	Grid Reliability Consulting LLC
Anna	Hyatt	Iowa Utilities Board
Cindy	Ireland	AR PSC
Scott	Iverson	Mountrail-Williams Electric Cooperative
Andria	Jackson	Kansas Corporation Commission
Jim	Jacoby (AEP)	AEP/PSO
Jillian	Janik	Southwest Power Pool
Rob	Janssen	Dogwood Energy
Ryan	Johnson	ACES
Brian	Johnson (AEP)	AEP
Brooke	Keene	SPP
Lee	Keller	Innovative Energy Alliance
David	Kelley	SPP
Kalun	Kelley	WFEC
Patti	Kelly	SPP
Robert	Kelly	Mor-Gran-Sou Electric Cooperative, Inc.
Tessie	Kentner	SPP
Ryan	Kirk	AEPSC
Tom	Kleckner	RTO Insider
Jeff	Knottek	City Utilities of Springfield, MO
Mick	Kossan	Central Power Electric Cooperative, Inc
Mike	Kraft	Basin Electric Power Cooperative

Jim	Krajecki	Customized Energy Solutions, LTD
John	Krajewski	NPRB
Bleau	LaFave	NorthWestern Energy
Paul	Lampe	INDN
William	Leung	NPRB
Lloyd	Linke	Western Area Power Administration
Bernie	Llu	Xcel Energy
Antoine	Lucas	SPP
Kristina	Luke-Fry	Kansas Corporation Commission
Christopher	Lyons	CES
Jack	Madden	GDS Associates, Inc.
JP	Maddock	BEPC
Denise	Martin	SPP
joshua	martin	SPP
Mike	Mathis	Continental Resources
Sherri	Maxey	Southwest Power Pool
Ash	Mayfield	Grand River Dam Authority
Jason	Mazigian	Basin Electric Power Cooperative
Michael	McCann	spp
Kylah	McNabb	Vesta Strategic Solutions, LLC
Nathan	McNeil	MIDW
Courtney	Mehan	Tenaska Power Services Corp
Jessica	Meyer	Lincoln Electric System
David	Mindham	EDP Renewables
Daniel	Moore	WFEC
Nate	Morris (EDE)	Liberty Utilities / Empire District
Alan	Myers	ITC Holdings
Gayle	Nansel	WAPA-UGPR
Lanny	Nickell	Southwest Power Pool
John	O'Dell	SPP
Jerry	Ohmes	KCBPU
James	Okenfuss	Savion, LLC
John	Olsen	Live Phase, LLC
Tim	Owens	NPPD
Jake	Pannell	spp
Nick	Parker	Southwest Power Pool
Matt	Pawlowski	NextEra Energy Resources
Emily	Pennel	
Kyle	Peterson	WSJ
Robert	Pick	NPPD
Brenda	Prokop (ITC GP)	ITC Holdings Corp.
Steve	Purdy	SPP
Dori	Quam	NorthWestern Energy
Russell	Quattlebaum	Southwest Power Pool
Sunny	Raheem	Southwest Power Pool
Dennis	Reed	MWRC
Bruce	Rew	Southwest Power Pool, Inc.

Terry	Rhoades	SPP
JOE	RICHARDSON	XCEL ENERGY
Mike	Riley	SPP
Aaron	Rome	MIDW
Josh	Ross	Southwest Power Pool
Mike	Ross	SPP
Richard	Ross	why do I have to enter this every time?
Moses	Rotich	Gridliance
Brian	Rounds	AESL Consulting
Pablo	Ruiz	NewGrid, Inc
Britt	Runion	Southwest Power Pool
Robert	Safuto	Customized Energy Solutions
tom	saitta	kmea
Trisha	Samuelson	Roughrider Electric Cooperative
Steve	Sanders	WAPA-UGP
Clint	Savoy	SPP
Adam	Schieffer	OPPD
David	Schmitt	IUB
Ryan	Schoppe	SPP
Harvey	Scribner	Southwest Power Pool
Jeremy	Severson	Basin Electric Power Cooperative
Mark	Sherman	Central Power Electric Cooperative
Aaron	Shiple	SPP
Walt	Shumate	Shumate & Associates
Lane	Sisung	LPSC
Chase	Smith	Southern Power Company
Holly	Smith	Walmart
Tara	Smith	Southwest Power Pool
Dara	Solomon	SPP
Katie	Southworth	SUSTAINABLE FERC PROJECT
Heather	Starnes	MJMEUC
John	Stephens	City Utilities of Springfield
matthew	stoltz	mountrail williams electric coop
Barbara	Sugg	SPP
Derek	Sunderman	Savion, LLC.
Jon	Sunneberg	Nebraska Public Power District
Paul	Suskie	SPP
Conner	Sweet	City Utilities
Robert	Tallman OG&E	OG&E
Al	Tamimi	Sepec
Len	Tao	Southwest Power Pool
Lauren	Taylor	Southern Power Company
John	Tennyson	SPRM
Rebecca	Thiem	Innovative Energy Alliance Cooperative
DeWayne	Todd	DDT LLC
Maria	Tomac	Basin Electric Power Cooperative - Wheatland, WY
usha	turner	OG&E

Vince	Vandaveer	CUS
John	Varnell	Tenaska Power Services
Melie	Vincent	OMPA
Nicole	Wagner	SPP
Bruce	Walkup	AECC
Eddie	Watson	Southwest Power Pool
Julie	Way	Evergy, Inc. (Kansas City, MO)
Mike	Wech	SWPA
Jeff	Wells	GRDA
Grant	Wilkerson	Evergy
Noman	Williams	GridLiance HP
Derek	Wingfield	
MICHAEL	WISE	Golden Spread Electric Cooperative
Boib	Wittmeyer	Longhorn Power
Terry	Wolf	MRES
Jodi	Woods	SPP MMU
Charles	Yeung	SPP