



**SOUTHWEST POWER POOL, INC.
MARKETS+ DESIGN WORKING GROUP,
MARKETS+ TRANSMISSION WORKING GROUP,
MARKETS+ SEAMS WORKING GROUP,
MARKETS+ OPERATIONS AND RELIABILITY WORKING GROUP JOINT MEETING**

**June 13-14, 2023
Bonneville Power Administration Office
Rates Hearing Room
Portland, OR
9:00 a.m. – 5:00 p.m., PDT
8:30 a.m. – 12:00 p.m., PDT**

SUMMARY OF MOTIONS AND ACTION ITEMS

MDWG MOTIONS:

1. Agenda Item 2 – MCRTF Liaison Report

Motion: Laura Trolese (TEA) motioned to modify the Markets+ Congestion Rent Task Force (MCRTF) scope to include the evaluation to determine if Real-Time (RT) Congestion should be included in the MCRTF scope and for the MCRTF to provide a recommendation to the Markets+ Design Working Group (MDWG) on how RT congestion rent should be handled. Adam Cornelius (SNPD) provided the second. Motion carried unanimously.

2. Agenda Item 4g – Policy Education: DAMKT Timing

Motion: Laura Trolese (TEA) motioned to approve a Markets+ Day-Ahead Market (DAMKT) closing time of 10:00 a.m., PPT, with DAMKT posting no later than 1:30 p.m., PPT. Justin Thompson (APS) provided the second. Motion carried unanimously.

MDWG ACTION ITEMS:

Action Item: SPP staff will provide education reviewing Revenue Neutrality Uplift (RNU) design elements, targeting the 7/12/2023 MDWG meeting.

Action item: SPP staff will bring examples on the Day-Ahead make whole payment to the 7/12/2023 MDWG meeting, targeting the 7/26/2023 MDWG meeting to make a decision on cost allocation, to be either based on: 1) Markets+ footprint or 2) Balancing Authority Areas (BAAs).



Action Item: SPP staff will provide additional Virtual education during the 7/12/2023 MDWG meeting. SPP will seek MDWG action during the 7/26/2023 MDWG meeting on moving forward with Virtuals in Phase 1 or at a later time.

Action Item: The MDWG Staff Secretary will submit a straw poll seeking input when virtuals should go live in Markets+ to the MDWG rostered members by close of business Monday, 6/19/2023, requesting feedback by close of business, Monday 6/26/2023.

MSWG ACTION ITEMS:

Action Item: The Markets+ Transmission Working Group (MTWG), Markets+ Operations and Reliability Working Group (MORWG), and Markets+ Seams Working Group (MSWG) will schedule a joint meeting to discuss transmission priority and market transfer congestion management.



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MINUTES

AGENDA ITEM 1 – ADMINISTRATIVE ITEMS: CALL TO ORDER, STATEMENTS, ATTENDANCE, AND AGENDA REVIEW

The Markets+ Design Working Group (MDWG) Chair, Russ Mantifel (BPA) called the meeting to order at 1:00 p.m., CPT and reviewed the agenda. MDWG Staff Secretary, Kristen Darden (SPP), read the recording notice statement and SPP anti-trust statement.

AGENDA ITEM 2 – MCRTF LIAISON REPORT

Jeff Spires (Powerex) provided an update of the Markets+ Congestion Rent Task Force (MCRTF) efforts, requesting to modify the scope of the MCRTF to include Real-Time Congestion Rent. The MDWG discussed having SPP staff work with the MCRTF to determine how Congestion Rent will look in Real-Time, by providing examples. Once discussion and potential analysis has occurred, the MCRTF will bring a recommendation to the MDWG for approval.

Motion: Laura Trolese (TEA) motioned to modify the Markets+ Congestion Rent Task Force (MCRTF) scope to include the evaluation to determine if Real-Time (RT) Congestion should be included in the MCRTF scope and for the MCRTF to provide a recommendation to the Markets+ Design Working Group (MDWG) on how RT congestion rent should be handled. Adam Cornelius (SNPD) provided the second. Motion carried unanimously.

AGENDA ITEM 3 – SERVICE OFFERING TRACEABILITY MATRIX

Carrie Simpson (SPP) presented the Markets+ Service Offering traceability matrix, reviewing the layout of requirements located within the service offering and target stakeholder meetings to review them. Carrie stated it is a live document, living on SPP.org and will be updated as efforts progress.



AGENDA ITEM 4 – POLICY EDUCATION

A - "Day in the Life" Examples (DA and RT Transaction)

Steve Johnson (SPP) and Carrie Simpson reviewed examples of Day-Ahead and Real-Time transactions, reviewing the following different perspectives of Merchant Entity/Market Participant, Transmission Service Provider, and Balancing Authority Operator. They also reviewed examples showing the cycle from pre-Day-Ahead, Day-Ahead, into Real-Time. Carrie provided clarification that for Markets+, generation provides Offers, while load submits Bids. The group discussed the Reliability Unit Commitment (RUC) timing and processes. Jodi Woods (SPP MMU) noted the desire to enhance the must-offer policy for Markets+ implementation.

Action Item: The Markets+ Transmission Working Group (MTWG), Markets+ Operations and Reliability Working Group (MORWG), and Markets+ Seams Working Group (MSWG) will schedule a joint meeting to discuss transmission priority and market transfer congestion management.

B - Real-Time Balancing Market

Gentry Crowson (SPP) presented highlights of the Real-Time Balancing Market (RTBM), stating the slides were originally in the 5/23/2023 MDWG meeting materials.

C - Settlements: Product Payments, LMPs, MCPs

Steve White (SPP) and Gentry Crowson provided education on Settlements, specific to market product payments, Locational Marginal Pricings (LMPs), and Market Clearing Prices (MCPs). Steve explained the MDWG needs to determine if the cost allocation methodology will be based on Balancing Authority Area (BAA) or Markets+ Footprint. He stated the Markets+ footprint cost allocation methodology is the most cost efficient with minimal system changes. Further discussion will occur during the 7/12/2023 MDWG meeting to determine the group's preference on cost allocation methodology.

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D - Financial Schedules/Bilateral Settlement Schedules

Steve White presented an overview of financial schedules/Bilateral Settlement Schedules (BSSs), explaining they allow SPP to account for out of market bilateral transactions without removing wholesale energy settlements from the market. Steve reviewed examples and answered questions from the group.



E - Modeling: Market Participants Across Balancing Authorities

Steve White provided an overview of modeling in SPP's WEIS Market and proposed Markets+. He reviewed different Resource and Load scenarios.

F - Virtuals

Jodi Woods (SPP MMU) provided an overview of virtual transactions in SPP, reviewing potential benefits and limitations. She reviewed data on cleared virtuals as percent of load and cleared offers and bids by Settlement Location type. Jim Gonzalez (SPP) will present the background materials on virtuals from the RTO during the 7/12/2023 MDWG meeting. The group discussed effective date for the virtual market design, with mixed feedback on proposed effectiveness. The MDWG will have further discussion during the 7/12/2023 MDWG meeting.

Action Item: SPP staff will provide additional virtual education during the 7/12/2023 MDWG meeting. SPP will seek MDWG action during the 7/26/2023 MDWG meeting on moving forward with virtuals in Phase 1 or at a later time.

Action Item: The MDWG Staff Secretary will submit a straw poll seeking input when virtuals should go live in Markets+ to the MDWG rostered members by close of business Monday, 6/19/2023, requesting feedback by close of business, Monday 6/26/2023.

G - Day-Ahead Market Timing

Gentry Crowson reviewed two proposed Day-Ahead Market (DAMKT) timings for open discussion with the group:

- SPP Integrated Marketplace (IM) DAMKT Timing:
 - Bidding Closes – 9:30 a.m. CPT
 - Market Posts – 1:00 p.m. CPT
- CAISO Timing:
 - Bidding Closes – 10:00 a.m. PPT / 12:00 p.m. CPT
 - Market Posts – 1:00 p.m. PPT / 3:00 p.m. CPT

The group provided feedback, preferring later times than the current SPP IM DAMKT times. The group approved to move ward with a DAMKT closing time of 10:00 a.m., PPT, and a DAMKT posting no later than 1:30 p.m., PPT.

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AGENDA ITEMS 5, 5A, AND 5B – TARIFF REVIEW, ATTACHMENT A – SECTION 2-2.3.3, AND ATTACHMENT A – SECTION 3-3.7.2

Kristen Darden noted the language in the background materials ready for review and approval of a portion of the language. Russ Mantifel encouraged the group to review both sets of proposed Markets+ tariff language and both items will be available for approval during the 7/12/2023 MDWG meeting.

AGENDA ITEM 6 – SUMMARY OF ACTION ITEMS: MDWG, MTWG, MSWG, MORWG

MDWG Action Items:

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MSWG Action Items:

Action Item: The Markets+ Transmission Working Group (MTWG), Markets+ Operations and Reliability Working Group (MORWG), and Markets+ Seams Working Group (MSWG) will schedule a joint meeting to discuss transmission priority and market transfer congestion management.

AGENDA ITEM 7 – FUTURE MEETINGS

Meeting: [July 12th MDWG Meeting](#)

Date: July 12th, 2023

Location: Net-conference

Time: 9:30 a.m. – 2:00 p.m., PT / 11:30 a.m. – 4:00 p.m., PT

Meeting: [July 26th MDWG Meeting](#)

Date: July 12th, 2023

Location: Net-conference



Time: 9:30 a.m. – 2:00 p.m., PT / 11:30 a.m. – 4:00 p.m., PT

Meeting: [August 9th MDWG Meeting](#)

Date: July 12th, 2023

Location: Net-conference

Time: 9:30 a.m. – 2:00 p.m., PT / 11:30 a.m. – 4:00 p.m., PT

AGENDA ITEM 8 – OPEN DISCUSSION

Russ allowed time for open discussion.

AGENDA ITEM 9 – ADJOURNMENT

Russ adjourned the meeting at 12:05 p.m., PT, Wednesday, June 14th.

Respectfully Submitted,

Kristen Darden

Secretary

Attachments

- *Stahl_Black Hills Energy_Proxy_061323*

Kristen Darden

From: Stahl, Donald
Sent: Thursday, June 8, 2023 10:05 AM
To: Kristen Darden
Cc: Scherr, Eric
Subject: ****External Email**** RE: Markets+ Proxy

CAUTION: This email originated from outside of the SPP network. Do not click links or open attachments unless you recognize or can verify the sender, or were expecting an email from the sender. The original sender of this email is Donald.Stahl@blackhillscorp.com

Thank you Kristen,

Please make Eric Scherr my proxy for the upcoming meeting. He will be attending in person.

Thanks,

Don

Don Stahl | Black Hills Energy | Director, Generation Dispatch & Power Marketing | Mobile: 719-225-3994 | www.blackhillsenergy.com

From: Kristen Darden <kdarden@spp.org>
Sent: Thursday, June 8, 2023 8:47 AM
To: Stahl, Donald <Donald.Stahl@blackhillscorp.com>
Subject: RE: Markets+ Proxy

**** EXTERNAL EMAIL. Is this an expected email? STOP and THINK before clicking links or opening attachments. ****

Hey there, Don –

All you need to do is send me an email (feel free to respond to this one) stating who you are designating for which meeting.

Thanks!

Kristen Darden | Senior Market Analyst | Real-Time Markets | Markets+ Design Working Group Staff Secretary | kdarden@spp.org | O-501.482.2395 | C-501.749.3339

201 Worthen Drive * Little Rock, AR 72223-4936

Southwest Power Pool | SPP.org | twitter.com/SPPorg | facebook.com/SouthwestPowerPool

Working together to responsibly and economically keep the lights on today and in the future.

From: Stahl, Donald <donald.stahl@blackhillscorp.com>

Sent: Thursday, June 8, 2023 9:24 AM

To: Kristen Darden <kdarden@spp.org>

Subject: **External Email** Markets+ Proxy

CAUTION: This email originated from outside of the SPP network. Do not click links or open attachments unless you recognize or can verify the sender, or were expecting an email from the sender. The original sender of this email is Donald.Stahl@blackhillscorp.com

Good morning,

I would like to nominate a proxy for this meeting. What is the process for doing that?

Thanks,

Don

Don Stahl | Black Hills Energy | Director, Generation Dispatch & Power Marketing | Mobile: 719-225-3994 | www.blackhillsenergy.com

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FUTURE MEETINGS:

**MTWG Future Meeting
June 22nd, 2023**

Location: Net-Conference

Time: 1:00 p.m. – 5:00 p.m., CPT / 11:00 a.m. – 3:00 p.m., PDT

**MSWG Future Meeting
June 27th, 2023**

Location: Net-Conference

Time: 1:00 p.m. – 5:00 p.m., CPT / 11:00 a.m. – 3:00 p.m., PDT

**MORWG Future Meeting
July 11th, 2023**

Location: Net-Conference

Time: 1:00 p.m. – 5:00 p.m., CPT / 11:00 a.m. – 3:00 p.m., PDT

**MDWG Future Meeting
July 12th, 2023**

Location: Net-Conference

Time: 11:30 a.m. – 4:00 p.m., CPT / 9:30 a.m. – 2:00 p.m., PDT

X		Person	Joint MDWG, MORWG, MSWG, and MTWG Meeting	
P		Phone	6/13-14/2023	
*		Proxy	Attendance	
		Full Name	Company	E-mail
X	X	Russell Mantifel (MDWG Chair)	Bonneville Power Administration (BPA)	rxmantifel@bpa.gov
X	X	Nick Detmer (MDWG Vice-Chair)	Xcel/Public Service Commission of Colorado (PSC)	nick.detmer@xcelenergy.com
X	X	Kristen Darden (MDWG Staff Secretary)	Southwest Power Pool (SPP)	kdarden@spp.org
X	X	Adam Cornelius	Snohomish County Public Utility District (SNPD)	accornelius@snopud.com
P	P	Alycia Kramer	Basin Electric Power Cooperative (BEPC)	akramer@bepec.com
X	X	Ann Rendahl	Washington State Utilities (WSU)	ann.rendahl@utc.wa.gov
P	P	Barbara Cenalмор	Salt River Project (SRP)	barbara.cenalморbruquetas@srpnet.com
P	P	Blake Pederson	Tucson Electric Power (TEP)	bpederson@tep.com
P	P	Christopher Green	Empire District Electric	christopher.green@libertyutilities.com
		Darel Danis	Pattern Energy Group (PEG)	
P	P	Dave Zvareck	ACES	dzvareck@acespower.com
		Don Stahl	Black Hills Energy (BHE)	donald.stahl@blackhillsenergy.com
X	X	Jeff Spires	Powerex Corp (Powerex)	jeff.spires@powerex.com
X	X	Justin Thompson	Arizona Public Service (APS)	justin.thompson@aps.com
X	X	Laura Trolese	The Energy Authority (TEA)	ltrolese@teainc.org
P	P	Lindsey Schlekeway	NV Energy (NVE)	lindsey.schlekeway@nvenergy.com
X	X	Michael Linn	Public Power Council (PPC)	mlinn@ppcpdx.org
X	X	Nick Detmer	Xcel/Public Service Commission of Colorado (PSC)	nick.detmer@xcelenergy.com
P	P	Paul Dietz	Grant County Public Utility District (GCPD)	pdietz@gcpud.org
X	X	Richard Seide	Grid Strategies (GS)	rseide@gridstrategiesllc.com
X	X	Rick Applegate	Tacoma Power Utilities (TPU)	rapplegate@cityoftacoma.org
X	X	Robin Arnold	Renwable Northwest (RNW)	robin@renewablenw.org
X	X	Sibyl Geiselman	Public Generating Pool (PGP)	sgeiselman@publicgeneratingpool.com
X	X	Tuuli Hakala	Chelan County Public Utility District (CCPD)	tuuli.hakala@chelanpud.org
		Vijay Satyal	Western Resource Advocates (WRA)	
X	X	Vincent Ching	Puget Sound Energy (PSE)	vincent.ching@pse.com
P		Aaron Lana	Bonneville Power Administration (BPA)	adlana@bpa.gov
X	X	Aaron Shipley	Southwest Power Pool (SPP)	ashipley@spp.org
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P	P	Calvin Dacus	Tucson Electric Power (TEP)	cdacus@tep.com

P	P	Cameron Reed	Puget Sound Energy (PSE)	john.reed@pse.com
P		Carly Page	Nevada Public Utilities Commission	cpage@puc.nv.gov
X	X	Carman Ruder	Southwest Power Pool (SPP)	cruder@spp.org
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P		Chris Gallas		
X	X	Chris Hofmann	Salt River Project (SRP)	
X		Chris McDarment	Chelan PUD	
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P		Chris Siewert	Bonneville Power Administration (BPA)	cwsiewer@bpa.gov
X	X	Clare Breidenich	Western Power Trading Forum (WPTF)	
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P	P	Denton McGregor	Black Hills Energy (BHE)	denton.mcgregor@blackhillscorp.com
P		Derek Hawkins	Southwest Power Pool (SPP)	dhawkins@spp.org
X	X	Derek Russell	Powerex Corp (Powerex)	
X	X	Drew McGilvray	Southwest Power Pool (SPP)	dmcgilvray@spp.org
P	P	Edward Garvey	Black Hills Energy (BHE)	donald.stahl@blackhillsenergy.com
P	P	Emon Mahony	Southwest Power Pool (SPP)	emahony@spp.org
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	P	Ethan Tedder	Southwest Power Pool (SPP)	etedder@spp.org
P	P	Evan Sorrell	Puget Sound Energy (PSE)	evan.sorrell@pse.com
P		Frank Durnford	Powerex Corp (Powerex)	frank.durnford@powerex.com
	P	Fred Heutte	NW Energy	fred@nwenergy.org
P		Garrison Marr	Snohomish County Public Utility District (SNPD)	gbmarr@snopud.com
P	P	Gary Hoffman	Western Area Power Administration	ghoffman@wapa.gov
	P	Gary Rosenwald	The Glarus Group	gary.rosenwald@theglarusgroup.com
P		Gayle Freier	Southwest Power Pool (SPP)	gfreier@spp.org
X	X	Gentry Crowson	Southwest Power Pool (SPP)	gtcrowson@spp.org
P	P	George McGuirk	Xcel Energy	george.b.mcguirk@xcelenergy.com
P	P	Gia Anguiano	Western Energy Board	ganguiano@westernenergyboard.org
	P	Greg DeLizio	Salt River Project (SRP)	gregory.delizio@srp.net
	P	Greg Rislov	SD State	greg.rislov@state.sd.us
P	P	Hamilton Bitely	Southwest Power Pool (SPP)	hbitely@spp.org
X	X	Henry Tilghman	Tilman Associates	
	P	Ian Hunter	Snohomish County Public Utility District (SNPD)	irhunter@snopud.com
P	P	Ian Wren	Southwest Power Pool MMU (SPP MMU)	iwren@spp.org
X	X	Janet Jaspers	Chelan PUD	
P	P	Jason Mazigian	Basin Electric Power Cooperative (BEPC)	jmazigian@bepc.com
	P	Jeff Lindsay	MEAN	jlindsay@nmppenergy.org

P		Jennifer Gingrich	Bonneville Power Administration (BPA)	jagingrich@bpa.gov
	P	Jeremy Voll	Basin Electric Power Cooperative (BEPC)	jvoll@bepec.com
P		Jessica Lam	Puget Sound Energy (PSE)	jessica.lam@pse.com
X	X	Jessica Zahnow	Puget Sound Energy (PSE)	
P		Jill Jones	Municipal Energy Authority of Nebraska (MEAN)	jjones@nmppenergy.org
P		Jim Gonzalez	Southwest Power Pool (SPP)	jgonzalez@spp.org
	P	Jim Krajecki	Customized Energy Solutions (CES)	jkrajecki@ces-ltd.com
X	X	Jodi Woods	Southwest Power Pool MMU (SPP MMU)	jwoods@spp.org
	P	Joe Fina	Snohomish County Public Utility District (SNPD)	gfina@snopud.com
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