



SOUTHWEST POWER POOL, INC.
WEIS RESOURCE ADEQUACY TASK FORCE MEETING
Net-Conference

September 6, 2022 9:00 – 11:00 MDT

AGENDA

1. Call to Order, Anti-Trust, Attendance.....Jon Aust
2. Agenda Review..... Aust
3. WMEC update.....Aust
4. Resource Adequacy Integration into WEIS Whitepaper.....Kent Scholl
5. Open Discussion/General Questions All
6. Summary of Motions, Actions Items, Future Meetings.....Quimby
7. Adjournment Aust

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WRATF 9/6/2022 Attendance

Attending	First Name	Last Name	M,G,S	Company	Title
X	Jon	Aust	M		
X	Kent	Scholl	M		
	Zack	Borton			
X	Darren	Buck			
X	Benjamin	Hertz	M		
	Neil	Lindgren			
X	Eric	Scherr			
X	Armin	Sehic	M	NMPP Energy	Regulatory Data Analyst
X	Daniel	Strickland			
	Lisa	Tiffen			
X	Blake	Ward			
X	Ken	Quimby	M	SPP	Staff Sec

X	Malcolm	Ainspan	G	NRGCS	Malcolm.Ainspan@nrg.com
X	Steve	Szablya	G	Xcel Energy	Sr. Manager, Market Operations
X	Brad	Hans	G	MEAN	
X	Chris	Bultsma			
X	Ian	Wren			
X	Jason	Mazigian			
X	Kristi	?			
X	Matt	Alvarado			
X	Scott	Meyers			
X	Jim	Krajecki			
X	Greg	Rislov			

X	David	Daniels	S	SPP MMU	Sr. Market Monitor
X	Charles	Hendrix	S		
X	Eric	Henderson			

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WEIS RESOURCE ADEQUACY TASK FORCE
September 6, 2022
9:00 to 11:00 MDT
Teleconference and webcast

• **A G E N D A -**

Agenda Item 1 – Call to Order, Attendance

Attendance: Chairman Aust called the meeting to order at 0901. There were 23 persons in attendance: 8 Members, 11 Guests, and 4 SPP Staff.

Proxies

No proxies were submitted.

Agenda Item 2 –Agenda review

Chairman Aust reviewed the proposed agenda – no additions or corrections. Agenda accepted as published.

Agenda Item 3 – WMEC Update

Chairman Aust briefed the group on the presentation made to the WMEC on 8/31/2022

Agenda Item 4 – Resource Adequacy Integration into WEIS Whitepaper

Vice-Chair Scholl presented the RA Integration whitepaper – a side-by-side comparison of the WRAP and SPP approaches to resource adequacy. Good discussion on multiple items. Main goal to determine if a specific parameter in either approaches should be included in a WRATF proposal. Scholl asked for additional input as the whitepaper is refined for further discussion as a later meeting.

Agenda item 5 – Open Discussion/New Business

No new business was brought before the group.

Agenda Item 6 Summary of motions, Action items, Future meetings

- Sec Quimby to post Mr. Scholl's presentation
- Net meeting set for September 26, 2022, 9:00 to 11:00 MDT

Agenda Item 7 – Adjournment

Chairman Aust adjourned the meeting at 11:00 MDT

Respectfully submitted by

Ken Quimby, SPP Staff/WRATF Secretary

RA Characteristic	Description	WRAP - Forward Showing	SPP	Observation
Reliability Metric	Target level of system reliability	1 event-day in 10 years (0.00417 days/yr LOLE)	1 day in 10 years (0.1 days/yr LOLE)	Certain practitioners believe that "industry standard" is 0.00417 days/yr; others 0.1 days/yr. Important that PRM and ELCC studies be conducted consistently with either measure.
Showing	How does entity show compliance?	Workbook showing compliance 7 months prior to each Summer and Winter season. Participant provides monthly peak loads for each binding season calculated pursuant to WRAP prescribed methods. WRAP provides monthly PRMs. Resources are assigned capacity credit based on WRAP calculations.	Workbook showing balance between peak upcoming summer and winter (?) loads and resource accredited capacity calculated pursuant to SPP prescribed methods plus system-wide planning reserve margin (PRM).	Is generation flexibility an additional measure of reliability in an imbalance market paradigm?
Forecast Period	For what planning period is RA determined?	Upcoming Summer or Winter season (7 months in advance)	Upcoming Summer and Winter seasons	
Entity Conducting LOLE Evaluations (PRM, ELCC)		SPP as the Program Operator	SPP as the Transmission Provider	

Annual or Seasonal PRM/ELCC Calculations		Monthly within Summer and Winter seasons	Annual, currently. Evaluating summer/winter seasonal calculations.	
Regional or System Wide?		Allows for subregion level, monthly PRMs	System wide PRM (PRM _{SPP}). Applied to both summer and winter net peak loads.	To ensure reliability in an imbalance market paradigm, a <u>utility-specific</u> PRM may be more appropriate than a <u>system-wide</u> PRM.
Compliance Entity		Participant	Market Participant representing LRE	
Deficiency Payments		Deficiency payments for failing to meet Forward Showing Capacity requirements in workbook; payment based on CONE (gas-fired CT)	Deficiency payments for failing to show accredited capacity to meet net load plus PRM during Summer season in workbook; payment based on CONE (gas-fired CT)	
Transmission Deliverability		Firm or conditional firm transmission to meet 75% of monthly P50 net load + PRM	Net peak load must be met with firm transmission service from resource; PRM (i.e., 12% of net peak load) may be met with Deliverable Capacity. Deliverable Capacity for a resource is determined through SPP BAA transmission model to determine deliverability to SPP	

			BAA. Deliverable Capacity may be bought/sold for RA compliance.	
Fuel Supply		Not required to document firm or backup fuel supply for capacity accreditation.	Not currently required to document firm or backup fuel supply for capacity accreditation. However, 7.1.5 of Planning Criteria states "Assurance of having desired generating capacity depends, in part, on the availability of an adequate and reliable fuel supply. Where contractual or physical arrangements permit curtailment or interruption of the normal fuel supply, sufficient quantities of standby fuel shall be provided."	
Resource Accreditation	What capacity accreditation methodology is used to determine resource			

	contributions to RA in workbook?			
Thermals		UCAP (ICAP * 1-EFOR _d). Outage rates calculated during system-wide Capacity Critical Hours.	Currently, based on operational test results conducted per Planning Criteria. Transitioning to UCAP in 2024.	UCAP calculations require access to GADS data for owned and purchased power generation resources. IPPs typically will not provide such information to IOUs.
Wind		Capacity credit for "VER types" (e.g., wind, solar) based on ELCC calculations for existing resources within "VER Zones". Specific VER Types in a VER Zone receive an average ELCC based on type-zonal ELCC; ELCC for a specific generator is adjusted for generator's historical performance during Capacity Critical Hours.	Wind resources assigned to three Tiers; wind resources in each Tier receive Tier average ELCC. Tier 1 resources evaluated first and receive highest ELCC credit. Wind MW in Tier 1 limited to lesser of firm transmission MW or 35% of seasonal peak load over previous three years.	For SPP, legacy wind and solar generators receive higher ELCCs than incremental generators in workbook calculations by their inclusion in Tier 1.
Solar			Solar resources assigned to three Tiers; solar resources in each Tier receive Tier average ELCC. Tier 1 resources	

			evaluated first and receive highest ELCC credit. Solar MW in Tier 1 limited to 20% of seasonal peak load over previous three years	
Run-of-River Hydro		Capacity credit based on the monthly average performance of such resource during Capacity Critical Hours	Capacity credit determined "using historical hydrological data on a monthly basis".	
Storage Hydro		10-year historical operation subject to potential energy storage and current operational constraints	Capacity credit determined "taking into consideration the reservoir storage program and any restrictions imposed by governmental agencies and shall be based on median hydro conditions".	
Storage (e.g., battery, pumped hydro)		Capacity credit calculated using ELCC similar to VERs. Resources with < 4 hour duration, modeled as derated 4 hour resources.	Storage resources assigned to two Tiers; tier 1 resources evaluated first and receive highest ELCC credit. Sub-tiers for 4, 6, and 8 hour duration resources. Resources with < 4 hour duration, modeled as	

			derated 4 hour resources.	
Demand Response		Register as either load reduction or as capacity resource. Capacity resources with < 5 hour duration, modeled as derated 5 hour resources.	Accredited as load reduction subject to operational test results; 4-hour minimum call duration	
BTM Meter Renewable Generation		Register as either load reduction or as capacity resource	Treated as load reduction (?).	
Opt out of workbook exercise for showing compliance with state or federal RA requirements (e.g., state PUC IRP)?		No	No	