



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

October 17, 2022 9:00 – 11:00 MDT

AGENDA

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

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Southwest Power Pool, Inc.
WEIS RESOURCE ADEQUACY TASK FORCE
October 17, 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 Scholl called the meeting to order at 0901. There were 20 persons in attendance: 7 Members, 10 Guests, and 3 SPP Staff.

Proxies

No proxies submitted

Agenda Item 2 – Agenda review

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

Agenda Item 3 – Resource Adequacy Integration into WEIS Whitepaper discussion

Chairman Scholl walked the group through the RA Comparison document to determine a “Must Have” or “Nice to Have” decision on each line item. Discussion then followed with discussion on the specific approach, i.e. WRAP or SPP methodology. This discussion will continue at the 11 Nov meeting.

Agenda item 4 – Open Discussion/New Business

No new business was brought before the group.

Agenda Item 5 Summary of motions, Action items, Future meetings

Action Items

- 1) Quimby to coordinate WRAP and SPP resources on the following items:
 - a. Fuel supply documentation/time frames
 - b. Perspective/handling of Behind the Meter generation
- 2) Suggestion to re-visit WRATF Scoping document at the 11/1/2022 meeting

Future Meeting

- Next WRATF meeting set for 11/01/2022 – 9-11 MDT. Quimby to schedule/announce.

Agenda Item 7 – Adjournment

Chairman Scholl adjourned the meeting at 11:00 MDT (On the Dot!!)

Respectfully submitted by

Ken Quimby, SPP Staff/WRATF Secretary

RA Characteristic	Description	WRAP - Forward Showing	SPP	Observation	Urgency (Have/Like)	Discussion - Preferred approach
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 practioners 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.	Must have	1 event-day in 10 years (0.00417 days/yr LOLE)
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	Is generation flexibility an additional measure of reliability in an imbalance market paradigm?	Must have	

			reserve margin (PRM).			
Forecast Period	For what planning period is RA determined?	Upcoming Summer or Winter season (7 months in advance)	Upcoming Summer and Winter seasons	From Armin: I'm more familiar with SPP's concept than WRAP. SPP has a 10 year look ahead in their construct but deficiency is only required for the upcoming summer season (for now).	Must have	Upcoming Summer and Winter seasons
Entity Conducting LOLE Evaluations (PRM, ELCC)		SPP as the Program Operator	SPP as the Transmission Provider		Must have – entity TBD	SPP
Annual or Seasonal PRM/ELCC Calculations		Monthly within Summer and Winter seasons	Annual, currently. Evaluating summer/winter seasonal calculations.		Minimum annual – subject to further discussion	
Regional or System Wide?		Allows for subregion level, monthly PRMs	System wide PRM (PRM _{SPP}). Applied to both summer and	To ensure reliability in an imbalance market paradigm, a <u>utility-specific</u>	Discussion item	

Commented [KQ1]: Start here

			winter net peak loads.	PRM may be more appropriate than a <u>system-wide</u> PRM.		
Compliance Entity		Participant	Market Participant representing LRE		Must have – discuss further	
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)	From Armin: I'm ok with either.	Must have	
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	From Armin: The SPP approach is more appealing to me.	Must have	

			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.	From Armin: I'd think firm fuel contracts would need to be required as evidence. I guess for coal, gas, diesel etc. Not sure how to approach the renewables i.e wind, solar hydro.	Nice to have? Options: Near term – Nice Mid to Long term – Must Ken to coord WRAP/SPP resources	

			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?				Must have -Resource type to resource type TBD	
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".	From Armin: Either approach would be okay.		
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	Storage resources assigned to two Tiers; tier 1 resources			

		derated 4 hour 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	From Armin: Might need to start with WRAP's approach and maybe transition to SPP's later on.		
BTM Meter Renewable Generation		Register as either load reduction or as capacity resource	Treated as load reduction.	From Armin: It would be easier to treat it as load reduction to begin with.	Must have – discussion on approach/time frames. Telemetry/metered?	
Opt out of workbook exercise for showing compliance with state or		No	No		Nice to have – subject to	

federal RA requirements (e.g., state PUC IRP)?					further discussion	
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