

Supply Adequacy Working Group (SAWG)
AEP Office – 41st Floor Renaissance Tower
Dallas, Texas
March 20th, 2018
8:00 a.m. – 3:00 p.m.

• M I N U T E S •

Agenda Item 1 – Welcome, Proxies, and Agenda Discussion

SPP Chair Brad Hans (MEAN) called the meeting to order at 8:00 a.m. The following members attended or represented by proxy:

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|-------------------|--------------------------------------|
| Aaron Castleberry | Oklahoma Gas & Electric |
| Aaron Ramsdell | Basin Electric Power Cooperative |
| Bennie Weeks | SPS (Xcel Energy Services) |
| Brad Hans | Municipal Energy Agency of Nebraska |
| Bryan Taggart | Westar Energy, Inc. |
| Douglas Jasa | Kansas City Power & Light |
| Eric Alexander | Grand River Dam Authority |
| Ernesto Perez | GDS Associates, Inc. |
| Jim Jacoby | American Electric Power |
| Jodi Knutson | Western Area Power Administration |
| John Varnell | Tenaska Power Services Co |
| Kenny Hale | City Utilities of Springfield, MO |
| Natasha Henderson | Golden Spread Electric Cooperative |
| Robert Janssen | Dogwood Energy, LLC |
| Tom Hestermann | Sunflower Electric Power Corporation |
| Traci Bender | Nebraska Public Power District |
| Walt Cecil* | Missouri Public Service Commission |

** Liaison members*

Administrative Items

No proxies; introductions and roll call taken.

The meeting minutes from the February 28, 2018 meeting were unanimously approved. The motion to approve made by Natasha Henderson and seconded by Jim Jacoby.

Agenda Item 3– Network Integrated Transmission Service Overview

Steve Davis gave an overview of the MOPC action item assigned to Settlements, which surveyed the network transmission customers on how network load is reported for transmission billing. The main emphasis was to capture what Behind the Meter Generation is added back into the reported billing load. Steve informed the group that there would be a stakeholder call on March 28 from 3 to 5 p.m. to review the survey results and FERC directives for what meets Network Loads.

Charlton Hill gave overview of Network Integration Transmission Service (NITS) application to Network Integration Transmission Service Agreement (NITSA) process. This discussion was to provide clarity around the processes of requesting firm service. Charles Cates stated that a resource must have a Transmission Service Request (TSR) submitted, then if there is TSR; the resource should be reported on the NITS application, which would be studied as a Designated Resource (DR) and added to the NITSA. There was a lot of discussion at the stakeholder level around the confusion in the process. Many stakeholders did not realize that a TSR had to be submitted; they thought that you simply had to put all resources and loads on the NITS and they were automatically studied for firm service. There was much discussion around the need for the NITS application and how it was being used. Some stakeholders suggested submitting a Revision Request to SPP doing away with the NITS application requirement.

Agenda Item 4– 2018 Deliverability Study Scope (Approval Item)

Chris Haley presented the finalized scope to the group. The updated scope reflected how the 2017 Deliverability Study was performed. The groupings may not be the same as the 2017 groupings, due to the latest transmission upgrades in the newer ITPNT BA model. The next steps are to get an endorsement from the ORWG and TWG. Bryan Taggart questioned the dispatch of non-firm resources before all firm resources were depleted. The working group members were adamant that this study replicate an economic market dispatch, which does not protect firm service.

Tom Hestermann made the motion to approve the scope as presented, Kenny Hale seconded. The motion passed with 15 yes votes from the voting members, there was one abstention. One liaison member, Walt Cecil also abstained.

Agenda Item 5– Battery Storage Verbal Update

Chris Haley gave a very brief update the next steps concerning FERC order 841, which deals with *Electric Storage Participation in Markets Operated by Regional Transmission Organizations and Independent System Operators*.

Agenda Item 6– Distributed Energy Resources Discussion

Based on the members being asked to provide comments at the February meeting on how they handle reductions in their Resource Adequacy load forecast, the group reviewed submitted comments. Bryan Taggart (Westar) gave overview of submitted comments for Co-gen and Behind the Meter Generation included in the Resource Adequacy load forecast. Eric Alexander (GRDA) discussed how pump hydro generation is tested. Traci Bender (NPPD) gave an overview of load and capability reporting for co-gen and behind the meter generation.

Agenda Item 7– Continuation of Common Set Discussion

Alex Crawford gave an overview of several common set examples of transmission customers. The data presented was on actual aggregation scenarios based on how the resources are studied in the Transmission Service Study process. It was suggested that the SAWG take a step back and look at a holistic view of the common set and how resources can be aggregated. There will be a small group created whose purpose will be to create policy to bring back to the SAWG. Chris Haley will send out a request for small group members.

Agenda Item 8– RR 278 Tariff Cleanup for Seams Agreement (Approval Item)

Adam Bell presented RR 278 to the SAWG for approval. The motion to approve was made by Jim Jacoby and Tom Hestermann seconded. The motion passed unanimously with 16 member votes.

Agenda Item 9– Continuation of Post Season Analysis Discussion

Alex Crawford gave a brief overview of the post-season analysis data. The SAWG directed staff to look at some areas of concern and bring a report back to the May meeting.

Agenda Item 10– Resource Adequacy Workbook Update

Alex Crawford gave an updated on the status of the Resource Adequacy Workbook, submission updates and next steps. Staff is working to compile and validate all data and create the June report.

Brad Hans (MEAN) adjourned the meeting at 3:00 p.m.

Respectfully Submitted,

Chris Haley
Secretary

(Attachment 1 – March 20th, 2018 Attendance)

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| Aaron Castleberry (OGE) | castlead@oge.com |
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| Heather Starnes (MJMEUC/KMEA) | heather@healylawoffices.com |
| James Ging (KPP) | jging@kpp.agency |

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| Tom & Neil (KMEA) | saitta@kmea.com |
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| Traci Bender | tkbende@nppd.com |
| Walt Cecil | walt.cecil@psc.mo.gov |
| Woody Lally | welally@aep.com |



Southwest Power Pool, Inc.
SUPPLY ADEQUACY WORKING GROUP
March 20, 2018
Renaissance Tower – Dallas, TX

• ATTENDANCE LIST •

| Name | Company | Email | Attendance |
|-------------------------------|--|--|------------|
| Aaron Castleberry – Member | Oklahoma Gas & Electric | castlead@oge.com | ✓ |
| Aaron Ramsdell – Member | Basin Electric Power Cooperative | aramsdell@bepc.com | ✓ |
| Adam Graff – Member | Heartland Consumers Power District | agraff@hcpd.com | X |
| Bennie Weeks – Member | Xcel Energy Services | bennie.weeks@xcelenergy.com | ✓ |
| Bradley Hans – Chair | Municipal Energy Agency of Nebraska | bhans@nmppenergy.org | ✓ |
| Brian Berkstresser – Member | Empire District Electric | bberkstresser@empiredistrict.com | X |
| Bryan Taggart – Member | Westar Energy, Inc. | bryan.taggart@westarenergy.com | ✓ |
| Chris Haley – Staff Secretary | Southwest Power Pool | chaley@spp.org | ✓ |
| Douglas Jasa – Member | Kansas City Power & Light | doug.jasa@kcpl.com | ✓ |
| Eric Alexander – Member | Grand River Dam Authority | ealexander@grda.com | ✓ |
| Ernesto Perez – Member | GDS Associates, Inc. | ernesto.perez@gdsassociates.com | ✓ |
| Jim Jacoby – Member | American Electric Power-Public Service Co of OK (TO) | jwjacoby@aep.com | ✓ |
| Jodi Knutson – Member | WAPA | jknutson@wapa.gov | ✓ |



| Name | Company | Email | Attendance |
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| John Varnell – Member | Tenaska Power Services Co | jvarnell@tnsk.com | ✓ |
| Jon Iverson – Member | Omaha Public Power District | jiverson@oppd.com | X |
| Kenneth Hale – Member | City Utilities of Springfield, MO | kenny.hale@cityutilities.net | ✓ |
| Natasha Henderson – Vice Chair | Golden Spread Electric Cooperative | nhenderson@gsec.coop | ✓ |
| Robert Janssen – Member | Dogwood Energy, LLC | rob.janssen@kelsonenergy.com | ✓ |
| Scott Bents – Liaison Member | Iowa Utilities Board | scott.bents@iub.iowa.gov | X |
| Tom Hestermann – Member | Sunflower Electric Power Corporation | thestermann@sunflower.net | ✓ |
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| Alex Crawford | Southwest Power Pool | acrawford@spp.org | ✓ |
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