

Southwest Power Pool
OPERATIONS TRAINING WORKING GROUP
July 10, 2017
Face-to-Face

• Summary of Action Items •

1. OTWG members are to submit a list of topics for consideration as virtual instructor led training and eLearning by the close of business on August 4.
2. OTWG members are to continue their discussion about the format and location of the 2018 System Operations Conferences (SOCs) during their August 24 meeting.
3. SPP staff will inquire with NERC about approving E-learning with CEHs.

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• M I N U T E S •

Agenda Item 1 – Call to Order

Russell Moore (SPRM) called the meeting to order at 9:31 a.m. The following members were in attendance:

Russell Moore, SPRM, Chair
Chris Dodds, WRI, Vice-Chair
Denney Fales, KCPL
Michael Gaunder, OKGE
Janelle Marriott-Gill, TSGT
Robert Hirschak, CLECO
Jaroddo Horn, AEP
Danny Johnson, XCEL
Janelle Marriott-Gill, TSGT
Joel Robles, OPPD
Derek Stafford, GRDA
Steve Tegtmeier, LES
David Waag, WAPA

A quorum was present for the meeting, and the following proxies were received:

- Sheldon Hunter (SECI) was absent from the meeting, and Denney Fales (KCPL) represented him by proxy
- Carroll Reddick (WFEC) was absent from the meeting, and Tina Adams (WFEC) represented him by proxy.

Agenda Item 2 – Statement and Attendance

Michael Daly (SPP) read the introductory language from the Chair/Staff Secretary training and then took attendance. (See Attachment 1)

Agenda Item 3 – Consent Agenda

Robert Hirschak (CLECO) made a motion to approve the consent agenda, which included the approval of the July 10th meeting agenda as well as the meeting minutes from the June 5, 2017, teleconference. Chris Dodds (WRI) seconded the motion. The motion passed with no opposition or abstentions.

Agenda Item 4 – Review of Previous Action Items

Michael Daly provided an update on the action items from the previous meeting. His update can be found [here](#).

Agenda Item 5 – Training Program Overview Presentations

Each member gave a brief presentation of their organization's training program that included needs met with internal resources, needs met with SPP training offerings, needs met with vendor training programs, and member training needs not currently met.

As each member spoke, John Gunter (SPP) recorded responses on large whiteboards in the meeting room. Responses were categorized by need and are provided in Attachment 2.

Agenda Item 6 – Analyzing Needs

After each member presented, the group examined the needs identified and discussed with SPP their preferences for the 2018 training calendar. The results of this conversation are provided in Attachment 3

Agenda Item 7 – Prioritizing Needs

This agenda item was incorporated into item 6 since the analysis of the responses naturally revealed priorities to be considered in the 2018 training calendar.

Agenda Item 8 – 2018 Meeting Proposal

Russell Moore reviewed the meeting proposal from the June 5 teleconference with the members. The proposal is to have five face-to-face meetings in 2018 that will not be connected to the SOCs. This approach—taken as an outcome of our 2016 strategic planning session—will enable members to have improved engagement during meetings and consistency with other SPP working groups. Jim Gunnell (SPP) raised some concern as to why no teleconferences were being scheduled. Russell Moore stated that those would be scheduled if needed during the year.

Derek Stafford (GRDA) made a motion to have five face-to-face meetings in 2018. Michael Gaunder (OKGE) seconded the motion. The motion passed with no opposition or abstentions.

Agenda Item 9 – OTWG Meeting Effectiveness Survey

Members were given time to complete the meeting effectiveness survey.

Agenda Item 10 – Summary of New Action Items

1. OTWG members are to submit a list of topics for consideration as virtual instructor led training and eLearning by the close of business on August 4.
2. OTWG members are to continue their discussion about the format and location of the 2018 System Operations Conferences (SOCs) during their August 24 meeting.
3. SPP staff will inquire with NERC about approving eLearning with CEHs.

Agenda Item 11 – Discussion of Future Meetings

Russell Moore shared that the next meeting will be on August 24th in Omaha, Nebraska.

Agenda Item 12 – Adjournment

Russell Moore adjourned the meeting at 2:27 p.m.

Respectfully Submitted,

Michael Daly, Secretary

Attachments

Attachment 1—Meeting Attendance Record

First Name	Last Name	Company
Tina	Adams	Western Farmers Electric Cooperative
Gay	Anthony	Southwest Power Pool
Kevin	Ballany	AECC
Angie	Blacketer	Lincoln Electric System
Michael	Daly	Southwest Power Pool
Chris	Dodds	Westar Energy
Denney	Fales	KCP&L
Jennifer	Farley	Southwest Power Pool
Michael	Gaunder	OG&E
Janelle	Marriott Gill	Tri-State Generation and Transmission Assn., Inc.
Jim	Gunnell	Southwest Power Pool
John	Gunter	Southwest Power Pool
Robert	Hirchak	Cleco
Jaroddo	Horn	American Electric Power
Danny	Johnson	Xcel Energy
Karen	McGee	American Electric Power
Russell	Moore	City Utilities of Springfield, MO
Joel	Robles	Omaha Public Power District
Leslie	Sink	Southwest Power Pool
Derek	Stafford	Grand River Dam Authority
Steve	Tegtmeier	Lincoln Electric System
Dave	Waag	WAPA
Stanley	Winbush	American Electric Power
Jimmy	Womack	Southwest Power Pool

Attachment 2—Member Training Presentation Responses

Training Provided In-House at Member Companies

- PER-005-2 (Desk Qual)
- NERC CEH – EOP 008 (back-up)
- Document Revisions
- Load Shed Testing with SPP
- EOP-005 – Restoration Training
- PRC – System Protection
- NIPR (for Nuclear Resources)
- Business Practices
- Ad-Hoc Market Training
 - Releases
- COM-002-4
- Simulator
 - KCPL and Westar and GRDA working to get one in house; not there yet
- 40 hours CEHs (OGE)
- Loss of EMS procedure (OGE)
- OSI's OTS (OGE)
- RAS (OGE)
- Voltage Control (OGE)
- Comm (OGE)
- Software and Tool Training
 - SCADA
 - Alarms
- CIP Training – Janelle
- Generator Simulation
- Reporting (OE-417)
- Op Guide Review
- Market Procedure Review
- EOPS – EEA
- Dispatcher Training
- Standards Changes
- RR Tasks
- Market Manipulation Training
- WAPA – annual spring training week; 4 consecutive weeks in a row
 - 2 trainers plus SMEs do delivery

Vendor Provided TrainingVendors Utilized

- ACES
- SOS
- PCI
- Mike T
- WAPA-EPTC
- 360 Training
- OESNA
- Bismarck
- Grid Training Solutions
- Otter Tail Power Training
- ISO/RTO
- NATF
- EPRI Nuclear Training
- L & K Training
- Bob Pike Training
- Accelerated Learning

Vendor Topics Provided

- NERC Preparation
- Credential Maintenance
- Software Training
- Intro to Transmission Operations
- General Market Training
- Relay Simulation
- System Dynamics/Protections
- Distribution Qualifications
- System Awareness
- Simulator Training (various scenarios)
- EEI Manual
- EPRI Manual
- Train the Trainer

SPP Provided Training Utilized

- Credential Maintenance
- Sim hours
- Marketplace Training (Overview/Fundamentals)
 - Reliability Impact
- Marketplace Symposium
- KCPL – use old SPP workbooks (1980s); general physics
- Load Shed Testing
- VILTs – credential maintenance and refreshers
- SOC - networking
- Xcel – uses their own simulator
- EOP-005 and 6 – Restoration Drills
- Flowgate Mitigation
- CBTs
 - Transmission Loading Relief
 - Restoration Principles
- VILTs
- Market/Reliability Interaction
- REOPs
- MERE

Training Needs Not Currently Met (either by SPP or Vendors)

- More CBT content – maybe instead of VILTs; or fewer VILTs
- More in-depth/interactive
- VILT Scheduling
- Marketplace Training
 - More in-depth
 - More advanced training; intermediate
 - Offer CE hours
 - SME availability for marketplace training
- Drills – more advanced; simulator enhancements - only see your alarms for example
- More advanced training – across the board
- Introduction, Intermediate, Advanced – big deal;
- Train the Trainer, Consultation,
 - Help the trainers take a topic or course; revamp it to with the various levels of challenges
- Foundational System Ops Training
- Janelle – really big difference in learners in terms of age in NERC Cert realm
 - Maybe a mix of eLearning and ILT (VILT)??
 - Generational considerations for offerings

Attachment 3—Group Analysis Discussion

Must Haves:

- Drills
- 67 CEHs annually (including 10 simulation hours and 10 standards hours)
- SOLs/IROLs (which could be SOC content)
- PER-005, EOP-008 (BUCC), and PRC-001

What will add value to your training programs?

- Simulation Training
 - Flowgate Mitigation
 - Interconnection Process
 - Partial System Restoration Drills
 - Load Shed/EEA
 - Voltage Control Simulation
 - Minimum Generation Issues
 - Generation Resource trips out of the Market and the implications
- CBT Training (which we will now term eLearning)
 - Build a library of on-demand content
 - SPP Customer Training to experiment with the format and approach to on-demand learning
 - Short segments of topics that could become a curriculum for CEHs
- Shift focus from VILT delivery to eLearning development in 2018
 - OTWG members will send along the topics that would be candidates for eLearning development
 - SPP Customer training to inquire with NERC how ILAs would be approved for this approach
 - OTWG members to consider what topics could come from a vendor versus which are suitable for SPP to develop and deliver
- Drills
 - Consolidate the Partial System Restoration drills and Member Emergency Response drills into something that is more usable for members
- REOPS
 - This course is less frequently utilized by members
 - The training and access to SPP operators are valuable
 - Possibly offer this content as a virtual 8 hour drill
 - Members still see a value for a new operator to get to SPP for this course and tour and meet staff
- SOCs
 - This topic will be discussed further at the August Face-to-Face meeting in Omaha, Nebraska.