

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

PER Outreach Presentation Industry Feedback Webinar

PER Ad Hoc Group
May 31, 2013

RELIABILITY | ACCOUNTABILITY



- NERC Antitrust Guidelines

- It is NERC's policy and practice to obey the antitrust laws and to avoid all conduct that unreasonably restrains competition. This policy requires the avoidance of any conduct that violates, or that might appear to violate, the antitrust laws. Among other things, the antitrust laws forbid any agreement between or among competitors regarding prices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that unreasonably restrains competition.

- Notice of Open Meeting

- Participants are reminded that this webinar is public. The access number was widely distributed. Speakers on the call should keep in mind that the listening audience may include members of the press and representatives of various governmental authorities, in addition to the expected participation by industry stakeholders.

- Purpose
- PER FERC Directives
- Possible Solutions Responding to FERC Directives
- Updated Suggested System Operator Definition (Poll)
- PER Option 1
- PER Option 2
- PER Option 3
- PER Option 4
- PER Five Questions to Industry/Discussions
- Completion of Poll Regarding Options/Discussions
- Upcoming and Key Dates
- PER Ad Hoc Group Contact Information

- The purpose of this webinar is to provide an update of the PER pro forma standard options, determine which option best supports reliability, and to receive feedback regarding the questions provided in the PER webinar announcement.

- Five FERC Directives to the ERO
 - Order 693
 - *Develop specific Requirements addressing the scope, content and duration appropriate for generator operator personnel.*
 - *Include in PER-002-0, personnel who:*
 - *carry out outage coordination and assessments in accordance with IRO-004-1 and TOP-002-2*
 - *determine SOLs and IROLs or operating nomograms in accordance with IRO-005-1 and TOP-004-0.*
 - *Consider through the Reliability Standards development process, whether personnel that perform functions having an impact on the reliability of the BES, should be included in mandatory training pursuant to PER-002-0.*
 - *Personnel responsible for ensuring that critical reliability applications of the EMS, such as state estimator, contingency analysis and alarm processing packages, are available, up-to-date in terms of system data and produce useable results.*

- FERC Order 742
 - *Direct NERC to consider the necessity of developing a similar implementation plan with respect to PER-005-1, Requirement R3.1. (simulation technology)*
 - *Direct NERC to develop a definition of “local transmission control center” in the standards development project for developing the training requirements for local transmission control center operator personnel.*

- Comply with the directive
 - New standard
 - Revised standard
- Alternative method to address concern
 - equally effective and efficient method
- Explain why the directive is no longer needed
 - May develop Guideline if necessary
 - Must be supported with technical justification as to why the directive would not be implemented

NERC Glossary of Terms Definition:	Suggested Change:
<p>System Operator: An individual at a control center (Balancing Authority, Transmission Operator, Generator Operator, Reliability Coordinator) whose responsibility it is to monitor and control that electric system in real time.</p> <p>*Control Center: One or more facilities hosting operating personnel that monitor and control the Bulk Electric System (BES) in real-time to perform the reliability tasks, including their associated data centers, of: 1) a Reliability Coordinator, 2) a Balancing Authority, 3) a Transmission Operator for transmission Facilities at two or more locations, or 4) a Generator Operator for generation Facilities at two or more locations.</p>	<p>System Operator: An individual at a Control Center* that operates or directs the operation of the Bulk Electric System in real-time.</p>

- **POLL 1: Do you support the suggested changes of the System Operator definition?**

Start Time: May 31, 2013 11:25:35 AM MDT

Total Responses: 147 of 323 (46%)

Results Summary

Answer	Total Number	Total %
Yes	120	82%
No	27	18%

- Create a PER-005-2 that is applicable to:
 - Transmission Owners
 - Personnel who operate a portion of the Bulk Electric System at the direction of personnel of its Transmission Operator but also have the capability to make independent decisions regarding the operation of the Bulk Electric System. (TO applicability standard definition only)
 - Generator Operators
 - Personnel (at a centrally-located generation dispatch center or at a dispatch center at the same site as a single generation plant) that also have the capability to make an independent decision regarding dispatch of the generation from its portfolio of units.
 - Support Personnel
 - Operations planning and operations support staff
 - Per FERC order 693: *Personnel who carry out outage coordination and assessments in accordance with Reliability Standards IRO-004-1 and TOP-002-2, and those who determine SOLs and IROLs or operating nomograms in accordance with Reliability Standards IRO-005-1 and TOP-004-0.*

- Create a PER-005-2 that is applicable to:
 - Transmission Owners
 - Personnel who operate a portion of the Bulk Electric System at the direction of personnel of its Transmission Operator but also have the capability to make independent decisions regarding the operation of the Bulk Electric System.
 - Generator Operators
 - Personnel (at a centrally-located generation dispatch center or at a dispatch center at the same site as a single generation plant) that also have the capability to make an independent decision regarding dispatch of the generation from its portfolio of units.
- Create a new PER standard (i.e., PER-006) that is applicable to:
 - Operations planning and operations support staff
 - Per FERC order 693: *Personnel who carry out outage coordination and assessments in accordance with Reliability Standards IRO-004-1 and TOP-002-2, and those who determine SOLs and IROLs or operating nomograms in accordance with Reliability Standards IRO-005-1 and TOP-004-0.*

- Create a PER-005-2 that is applicable to:
 - Transmission Owners (TO applicability standard definition only)
 - Personnel who operate a portion of the Bulk Electric System at the direction of personnel of its Transmission Operator but also have the capability to make independent decisions regarding the operation of the Bulk Electric System.
- Create a new PER standards (i.e., PER-006 and PER-007)
 - Generator Operators
 - Personnel (at a centrally-located generation dispatch center or at a dispatch center at the same site as a single generation plant) that but also have the capability to make an independent decision regarding dispatch of the generation from its portfolio of units.
 - Operations planning and operations support staff
 - Per FERC order 693: *Personnel who carry out outage coordination and assessments in accordance with Reliability Standards IRO-004-1 and TOP-002-2, and those who determine SOLs and IROLs or operating nomograms in accordance with Reliability Standards IRO-005-1 and TOP-004-0.*

- Create a PER-005-2 that is applicable to:
 - Transmission Owners (TO applicability standard definition only)
 - Personnel who operate a portion of the Bulk Electric System at the direction of personnel of its Transmission Operator but also have the capability to make independent decisions regarding the operation of the Bulk Electric System.
- Provide technical justification as why “Generator Operator dispatcher at a centrally control dispatch center” does not rise to the level of a standard and create a guideline
and/or
- Provide technical justification as to why “support personnel” does not rise to the level of a standard and create a guideline.

- **Generator dispatch personnel at a dispatch Control Center questions:**
 - Does a Generator dispatcher at a Control Center (not a plant operator) have the authority and/or capability to make unilateral decisions or take unilateral action that could directly impact the reliability of the Bulk Electric System during normal or emergency operations? (Note that anytime the Generator Operator (GOP) dispatcher must obtain approval to take action from its Balancing Authority (BA) or Transmission Operator (TOP), the GOP is not making a unilateral decision.)
 - If yes, please be prepared to provide an example.

- **POLL 2: Do Generator dispatcher's at a Control Center that make independent decisions exist?**

Start Time: May 31, 2013 11:36:38 AM MDT
Results Summary

Total Responses: 136 of 323 (42%)

Answer	Total Number	Total %
Yes	33	24%
No	103	76%

- **Support personnel of TOPs and BAs (not EMS support personnel) questions:**
 - FERC Order 693: We clarify that these personnel include those who carry out **outage coordination** and **assessments** in accordance with Reliability Standards IRO-004-1 and TOP-002-2, and those who determine SOLs and IROLs or operating nomograms in accordance with Reliability Standards IRO-005-1 and TOP-004-0.
 - Do these outage coordination support personnel require additional training regarding the impact they can have on the bulk power system? Why or why not?
 - Do these assessment support personnel require additional training regarding the impact they can have on the bulk power system? Why or why not?

- **Continued Support personnel of TOPs and BAs (not EMS support personnel) questions:**
 - If so, does this rise to the level of being a mandatory reliability standard for each group?
 - If so, should this be conducted through the systematic approach to training (SAT) or be a separate, one time effort?

- **POLL 3: Does training of support personnel rise to the level of a standard?**

Start Time: May 31, 2013 11:56:22 AM MDT

Total Responses: 147 of 323 (46%)

Results Summary

Answer	Total Number	Total %
Yes	17	12%
No	130	88%

- **POLL 4: Which PER option would you support in moving forward?**
 - **Option 1 – PER-005-2 with GOP dispatcher, support personnel, and TO**
 - **Option 2 – PER-005-2 with GOP dispatcher and TO**
 - **New non-SAT standard for support personnel**
 - **Option 3 – PER-005-2 with TO**
 - **New non-SAT standard for GOP dispatcher and support personnel**
 - **Option 4 – Do not include some personnel**
 - **4a – PER-005-2 with TO and support personnel ; exclude GOP dispatchers**
 - **4b – PER-005-2 with GOP dispatcher and TO; exclude support personnel**
 - **4c – PER-005-2 with TO; exclude both GOP dispatchers and support personnel**
- **Results on next slide**

Poll 4 Option Results:

Start Time: May 31, 2013 12:08:05 PM MDT

Total Responses: 134 of 323 (41%)

Results Summary

Answer	Total Number	Total %
Option 1	15	11%
Option 2	9	7%
Option 3	18	13%
Option 4	0	0%
Option 4a	5	4%
Option 4b	19	14%
Option 4c	68	51%

- **POLL 5: Do you support option 4c going forward?**

Start Time: May 31, 2013 12:17:41 PM MDT
Results Summary

Total Responses: 147 of 323 (46%)

Answer	Total Number	Total %
Yes	98	67%
No	49	33%

- Key Dates
 - June 20-21, 2013 – PER face-to-face Ad Hoc meeting
 - June 26, 2013 – Submit PER pro forma standard, RSAW, and Standards Authorization Request to the Standards Committee for approval to post and move into 30-day formal comment period
 - August 2013 – Recirculation Ballot
 - November 7, 2013 – Board of Trustees Adoption
 - December 31, 2013 – File with FERC

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