

Summary of 2014 Board of Trustees Standards Oversight and Technology Committee Survey

RELIABILITY | ACCOUNTABILITY

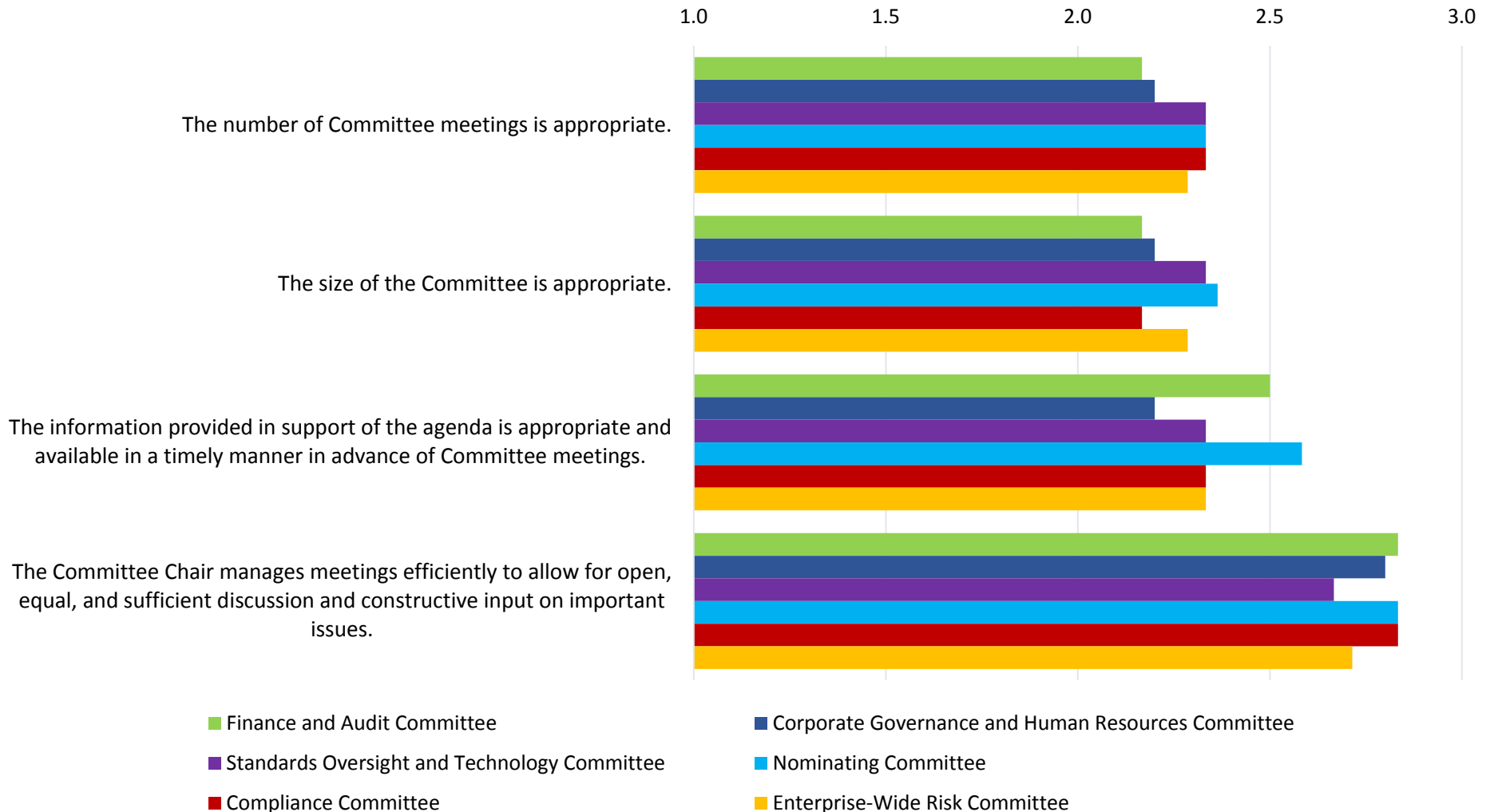


- NERC engaged TalentQuest to conduct its annual Board of Trustees Standards Oversight and Technology Committee survey through an online methodology
- The Standards Oversight and Technology (SOTC) Committee survey was administered from November 12 to December 19, 2014, to a total of 6 Committee members
- 6 Committee members responded to the survey
 - 100% response rate

- Respondents were asked to rate items on a 1 to 3 point scale to indicate their evaluation for each rated item
 - 1= Below Expectations (“performance area with opportunity for improvement”)
 - 2= Meets Expectations (“meets required standard of performance”)
 - 3 = Above Expectations (“exceeds the required standard of performance”)
- For any item rated “1” (Below Expectations) or “No”, mandatory comments were required to explain the rationale for the rating or selection

- The overall Standards Oversight and Technology Committee survey average was 2.32, with item averages ranging from 2.00 to 2.67
- Given the lowest item averages are 2.0, the Standards Oversight and Technology Committee is seen to be operating at expectations or higher
- Lowest Rated Item (2.0):
 - The Committee effectively reviews periodically NERC's status with the American National Standards Institute.

- Review of cross-committee survey items finds the Standards Oversight and Technology Committee rated all items at a 2.33, except the following:
 - The Committee Chair manages meetings efficiently to allow for open, equal, and sufficient discussion and constructive input on important issues. (2.67)



ERO IT Applications & Cyber Infrastructure Strategy Update

Stan Hoptroff, Vice President and Chief Technology Officer
Standards Oversight and Technology Committee
February 11, 2015

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- Reach consensus on ERO Enterprise priorities:
 - xRM application platform
 - event analysis application
 - reliability assessments application
 - compliance and registration
- Ensure that the right information is provided to the right people at the right locations.
- Ensure consistent, disciplined decision-making process (“TLT” and “gated process”).
- Recognize NERC and Regional-specific IT requirements, business needs, activities, and realities.

- Recognize a bias for proven off-the-shelf solutions with minimal modifications or configurations.
- Ensure data integrity and data sharing via proven integration techniques.
- Conform to the ES-ISAC Code of Conduct.
- Ensure important cross sector institutional relationships are respected and nurtured (National Council of ISACs, American Gas Association, etc.)

- SBS Application ✓
 - Development and testing completed on 12/19/2014
 - Industry demo conducted on 1/7/2015
 - First ballot process began on 2/2/2015
- xRM Application Platform ✓
 - Installation completed on 12/19/2014
- Reliability Assessment Data System (RADS-NERC)
 - Design completed on 1/30/2015
 - Development and testing to be completed by 06/30/2015
- Events Analysis (EA)
- Design completed on 2/6/2015
 - Configuration and testing to be completed by 09/30/2015

- CMEP Tool Assessment (CRATS, CITS, webCDMS)
 - OATI contract consolidation (webCDMS)
 - Determine reasonable legacy (CRATS) investments
 - Determine strategic information management requirements – Q3 2015
 - Potential new vendor(s) RFI/RFP – Q4 2015
- Enterprise Reporting
 - P1 Performance Analysis Data – development and testing by 03/31/2015
 - P2 Planning Stage – Long-Term Roadmap shared at 2/10/2015 TLT meeting

- ES-ISAC Information Sharing Portal
 - Vendor support and development transition completed
 - Applied Information Sciences (AIS) more capable and compatible with NERC
 - Change in Microsoft Azure Cloud subscription to a direct agreement with NERC
- CRISP
 - Program reached critical mass Q4 2014
 - Achieving program stabilization and program management improvements
 - Additional enhancements and feature development underway

- Complete development for RADS – NERC (Q2 2015).
- Identify business needs for enhanced CMEP tool(s) (Q2 2015).
- Complete configuration for event analysis solution (Q3 2015).
- Expand the creation of central databases for reporting and analysis (Enterprise Reporting Phase 2 and Phase 3 (Q4 2015)).
- Further leverage our xRM platform for consistent client experiences; for example, alerting and registration (Q4 2015).
- Identify ES-ISAC Portal additional features and CRISP enhancements and expansion (Q4 2015).



Questions and Answers

Standards Committee Election

Valerie Agnew, Director of Standards
Standards Oversight and Technology Committee Meeting
February 11, 2015

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- Vice Chair Election
 - Resignation of Mr. Scott Miller effective December 31, 2014
 - Election of Mr. Frederick (Fred) Plett December 9, 2014
 - Term January 1, 2015 through December 31, 2015



Questions and Answers

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

Reliability Standards Quarterly Status Report

Valerie Agnew, Director of Standards
Standards Oversight and Technology Committee Meeting
February 11, 2015

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	2012 Directives	2013/2014 Directives	Total
Issued prior to year-end 2012	191		
Issued in 2013/2014		50	
Resolved as of December 31, 2014	164	24	
Remaining	27	26	53
Projected to be resolved in 2015	22	22	44
Projected to be remaining at year-end 2015	5	4	9

*Does not include non-standards' related directives

	Current Status	P81 and IERP Recommendations for Retirement
Total*		281
Addressed	238	
In current projects	35	
Not assigned	8	
*Unique requirements		

Resolution	Number	Percent
Retired	110	46%
Modified	103	43%
Retained	25	11%
	238	

- February (3)
- May (5)
- August (4)
- December (3)
- Early 2016 (2)
- Enhanced Periodic Review (1)

- February Meeting
 - CIP V5 Revisions
 - TOP/IRO Revisions
 - DGR Medium Priority
- Remainder of 2015
 - Protection System Coordination - PRC-027
 - Projection System Coordination - PRC-001
 - DGR Medium Priority (PRC-005)
 - UVLS Misoperations (PRC-004)
 - BAL-002-2
 - BAL-005 and BAL-006
 - BAL-004 Periodic Review
 - Implementation of IRO Periodic Review (IRO-006 and IRO-009)
 - Physical Security Directives

- Late 2015/Early 2016
 - Real-time Monitoring and Analysis
 - Phase Two of Protection System Misoperations: RAS
- 2015 New Projects
 - TPL Directives
 - EOP-004, -005, -006 and -008 Periodic Review
 - FAC-010, -011 and -014 Periodic Review
 - Alignment of Glossary and Rules of Procedure terms

- Enhanced Periodic Reviews
 - Measured, in-depth review of quality and content of standards
 - Look for opportunities to make standards more concise
 - Verify content is appropriate
 - Builds on Independent Experts' work with industry input
 - Plan to be developed in first half of 2015
 - No mandated timeline
- Newly Identified Risks
- FERC Directives
- Risk-Based Registration



Questions and Answers