



Southwest Power Pool, Inc.
GAS ELECTRIC COORDINATION TASK FORCE MEETING
August 10, 2016 9:00 a.m. to 11:00 a.m. CDT
Conference Call, WebEx

• A G E N D A •

1. Administrative Items Jake Langthorn
2. Review Prior Action Items..... Sam Ellis
3. Gas Pipeline Compressors and Critical Facilities Update CJ Brown
4. Accuracy of Multi-Day Reliability Results Temper Williams
5. NAESB Gas-Electric Harmonization Plans Joshua Phillips
6. ECC and Market Timing Changes Update..... Jodi Woods
7. Fuel Supply Transition Issues..... Rob Janssen
8. Review New Action Items Sam Ellis
9. Next Meetings Jake Langthorn
10. Adjourn Jake Langthorn

Agenda Item 2

Color-code indicators:

Complete	On Hold	In Progress	Past Due	Abandoned
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GECTF Action Log

No.	Action Item Description	Reference (CY items #, decision log #, other)	Assigned to	Est. Completion Date	Final status/ comments	Status
118	Identify where electric motor gas compression potential issues exist on the pipelines within the SPP footprint that could be similar to those that impacted ERCOT.	8/24/2015 meeting	SPP Staff		On 8/10/16 meeting agenda	Complete
120	Add status of electric motor gas compression for the pipelines to the meeting agendas for GECTF.		Staff - CJ Brown	8/10/2016	On 8/10/16 meeting agenda	Complete
121	SPP (Temper) to provide an assessment of probability of commitment with a 3-day ahead estimate for gas generation resources, including under or over committed resources, including a range of probability (extreme and regular) with a sort of distribution of the energy.		Staff - Temper Williams	8/10/2016	On 8/10/16 meeting agenda	Complete
122	Send out assessment results to GECTF exploder, initiate email conversation related to the value of the information.		Staff - Sam Ellis	8/1/2016	Posted with meeting materials	Complete
123	Find a volunteer for the Revision Request if the group wants to move forward with the information posting from the MOAGEN reports.		GECTF	8/10/2016	Pending discussion on 8/10/16	In Progress

Agenda Item 4



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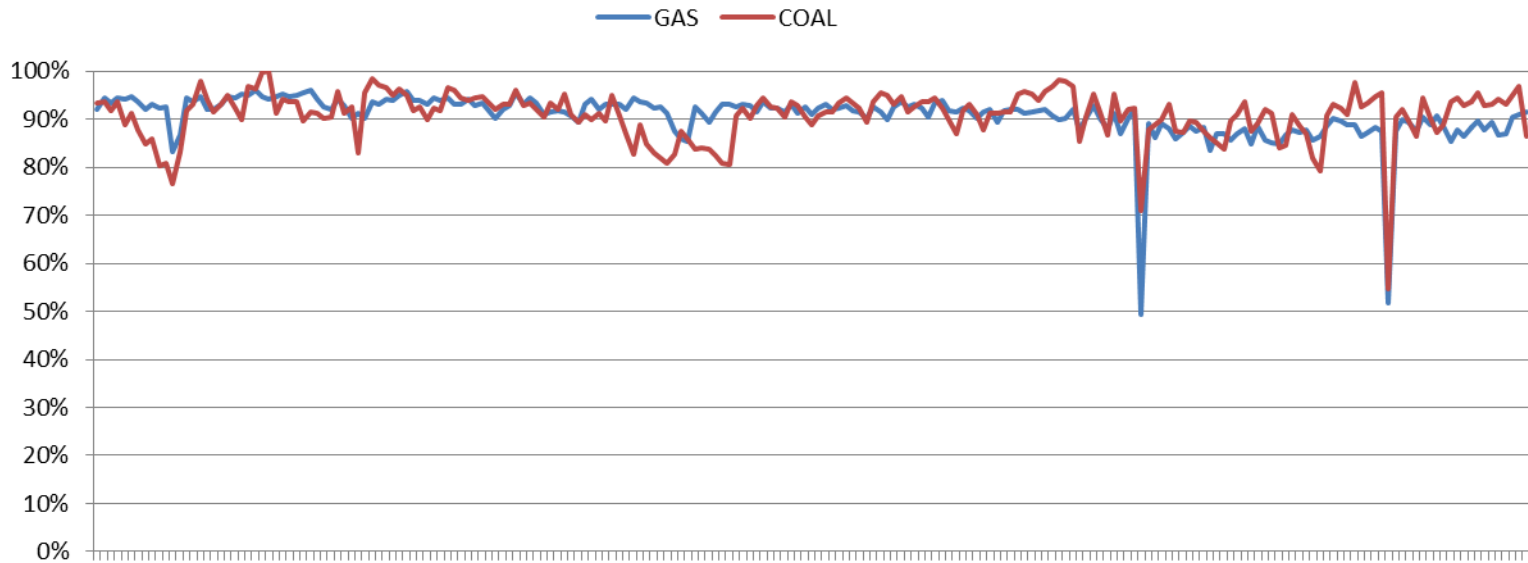
SEVENTY-FIVE YEARS OF
RELIABILITY THROUGH RELATIONSHIPS



Multi-Day Reliability Assessment Metrics

Unit Commitment Accuracy:

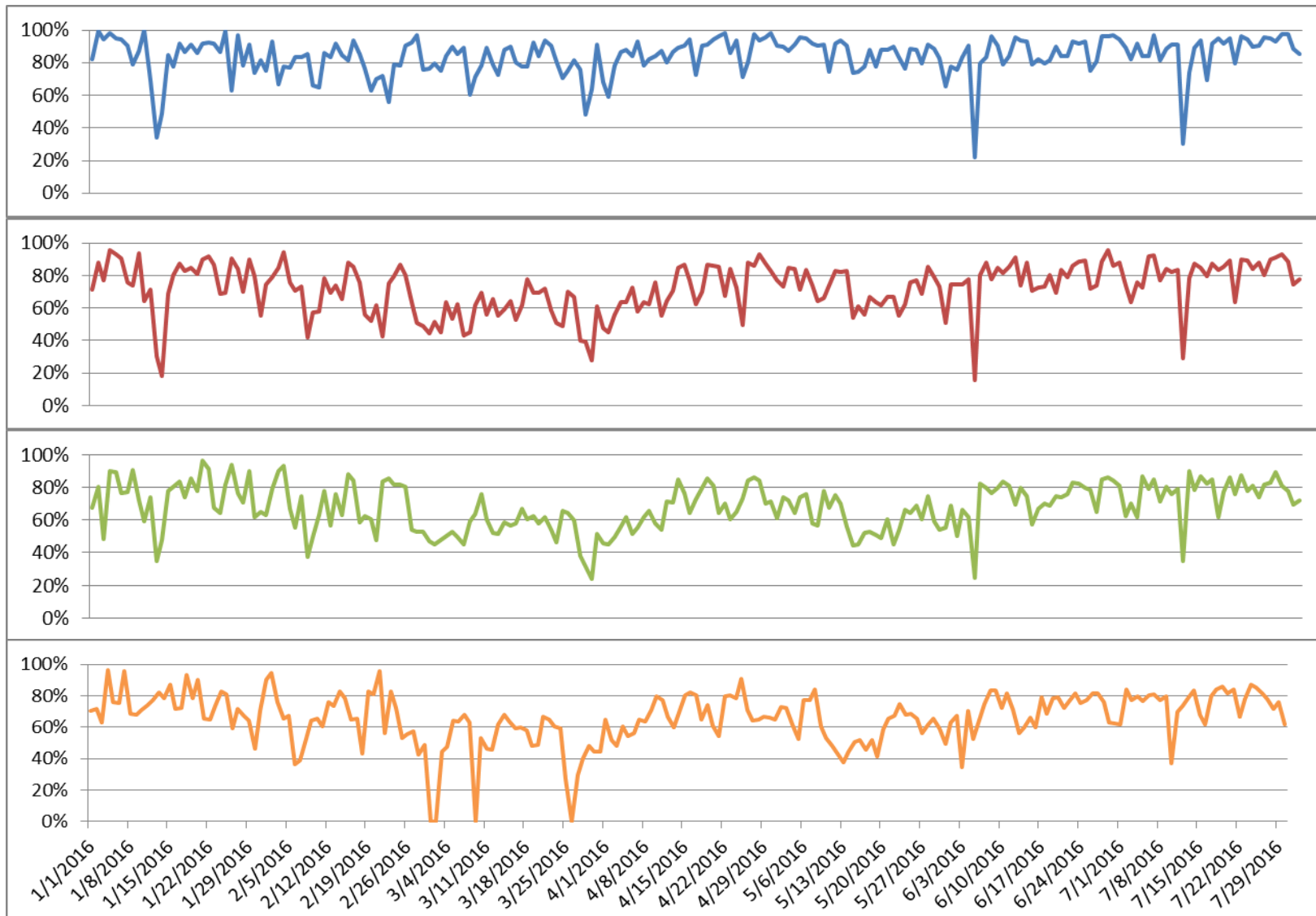
MARKET ONLY: OVERALL MDRA vs RT



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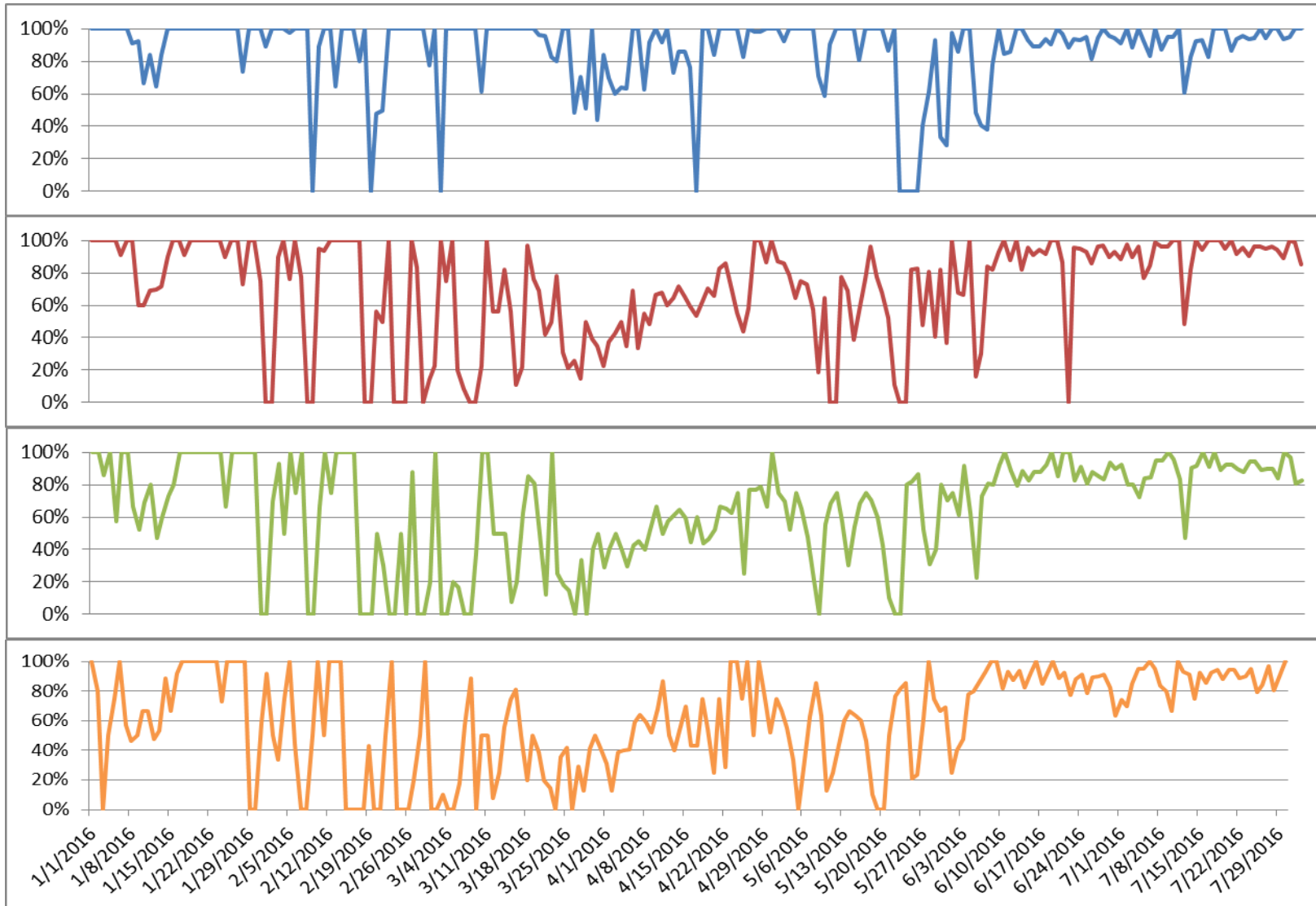
Unit Commitment Accuracy: GAS ONLY, MARKET ONLY, COMMITTED IN MDRA

DAY 1 DAY 2 DAY 3 DAY 4



Unit Commitment Accuracy: COAL ONLY, MARKET ONLY, COMMITTED IN MDRA

DAY 1 DAY 2 DAY 3 DAY 4

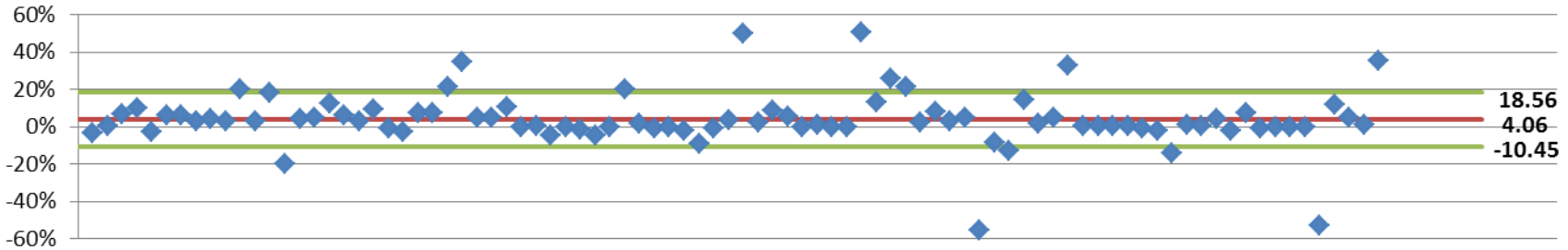


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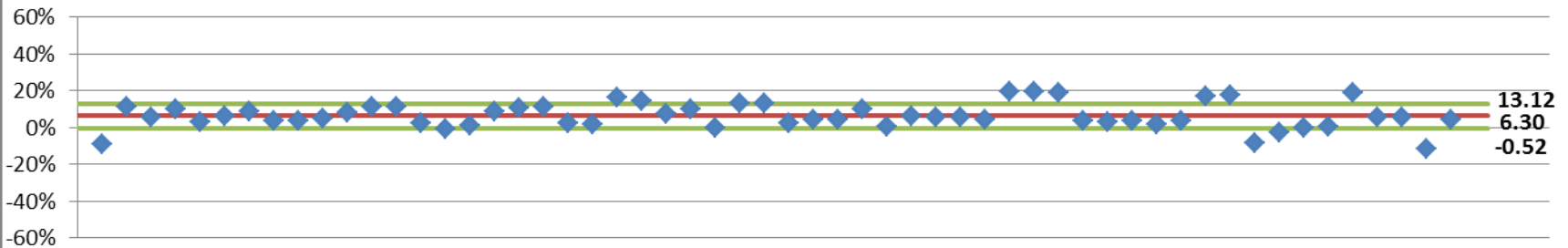
GAS Resource's Average Dispatch Discrepancy: 0-100MW Capacity

◆ Resource — Mean — Standard Deviation

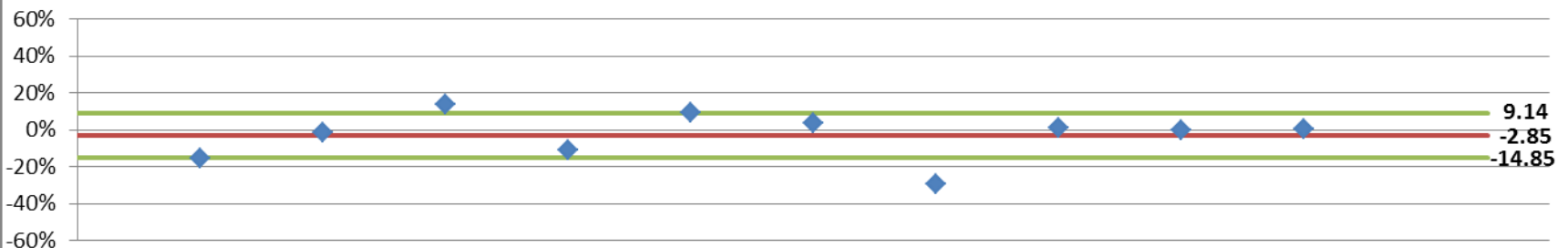
0-100 Hours Committed



100-1000 Hours Committed



1000+ Hours Committed

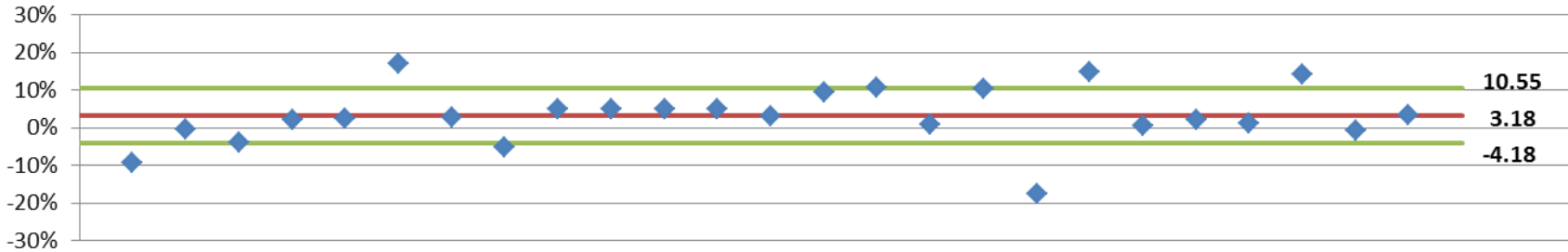


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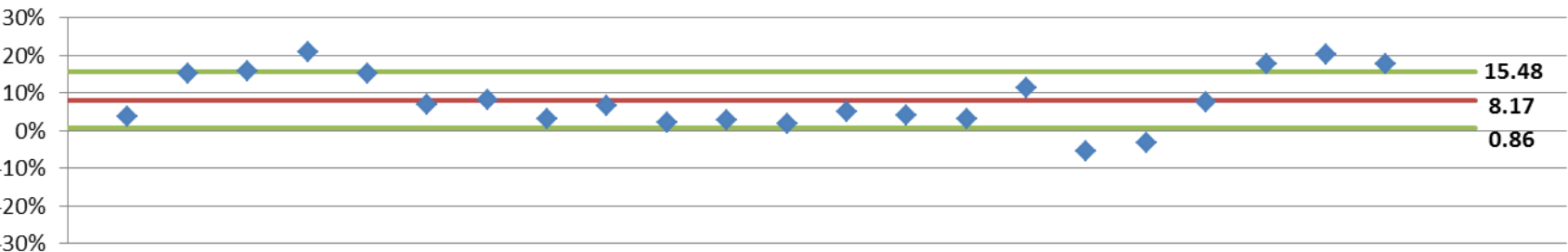
GAS Resource's Average Dispatch Discrepancy: 100-300MW Capacity

◆ Resource — Mean — Standard Deviation

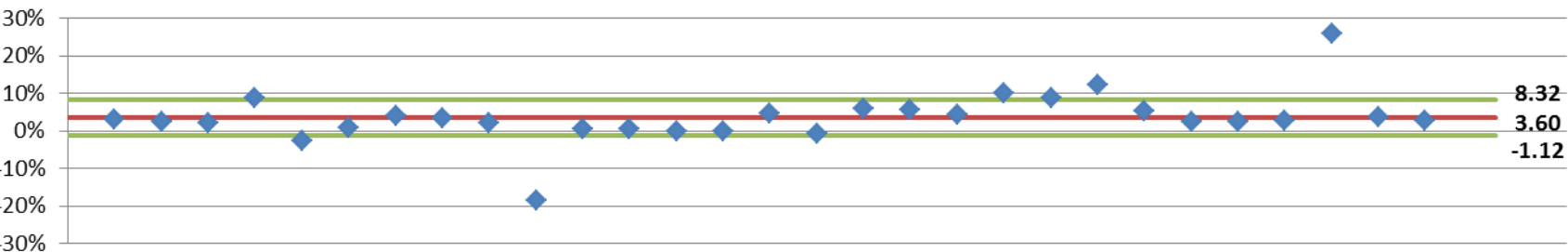
0-100 Hours Committed



100-1000 Hours Committed



1000+ Hours Committed



Standard Deviation:

GAS Resource's Average Dispatch Discrepancy: 300+MW Capacity

◆ Resource — Mean — Standard Deviation

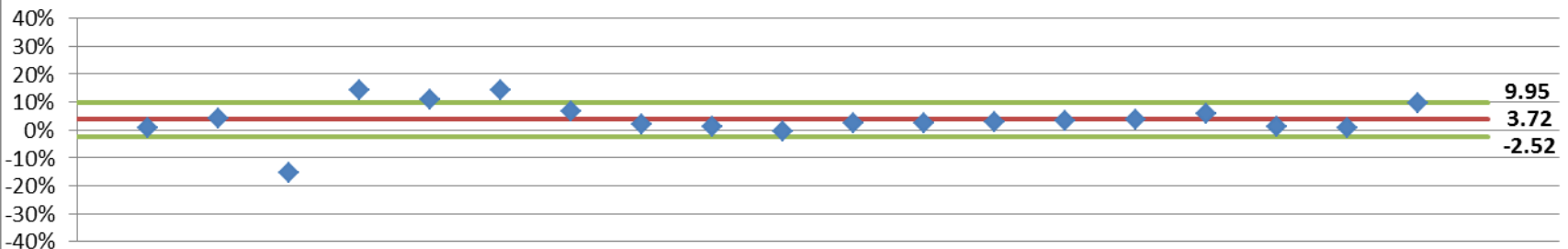
0-100 Hours Committed



100-1000 Hours Committed



1000+ Hours Committed

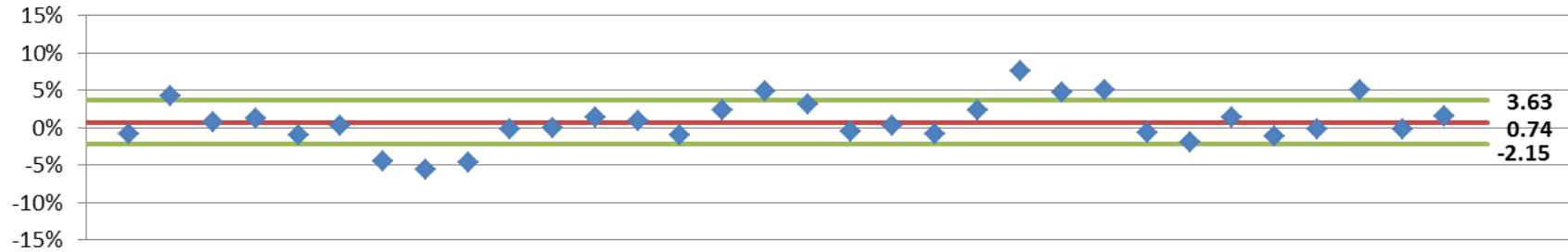


Standard Deviation:

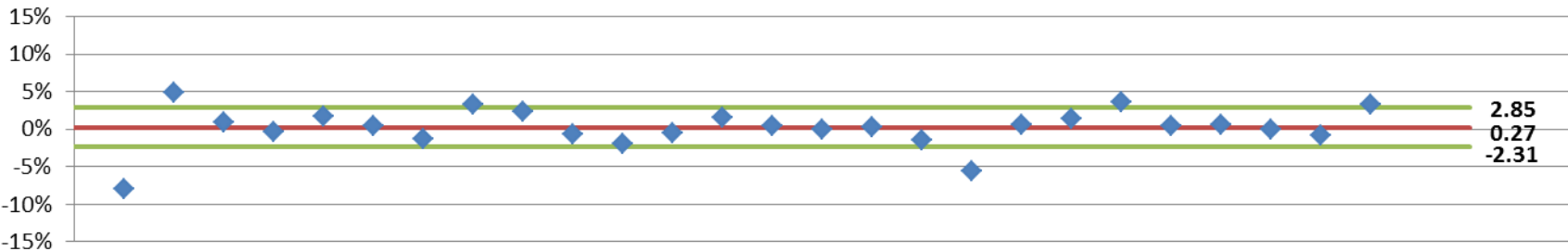
COAL Resource's Average Dispatch Discrepancy

◆ Resource — Mean — Standard Deviation

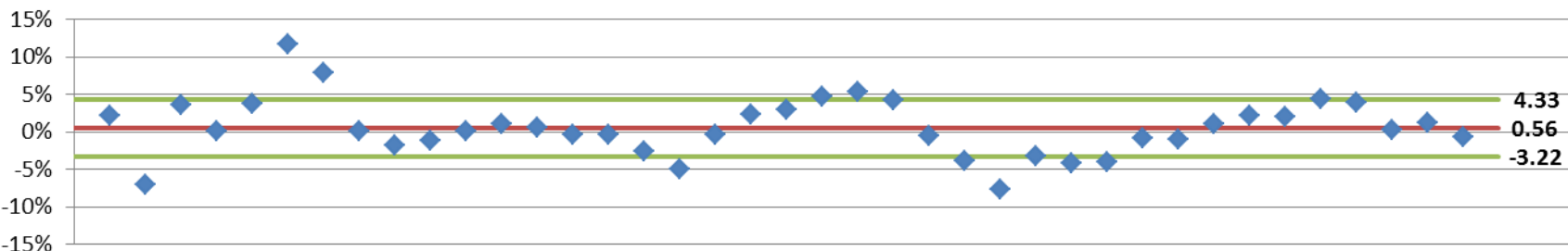
Resource Capacity: 0-100MW



Resource Capacity: 100-300MW



Resource Capacity: 300+MW



Agenda Item 5



North American Energy Standards Board

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NORTH AMERICAN ENERGY STANDARDS BOARD
2016 ANNUAL PLAN for the WHOLESale ELECTRIC QUADRANT
Adopted by the Board of Directors on April 7, 2016 [With Revisions Adopted Notationally on June 21, 2016](#)

Item Description	Completion ¹	Assignment ²
1. Develop business practices standards as needed to complement reliability standards		
Develop business practice standards to support and complement NERC reliability standards, NERC policies and NERC standards authorization requests (SARs) using the NERC/NAESB Coordination Joint Standards Development Process as appropriate. Current NAESB activities underway to develop business practice standards that are supportive of this annual plan item are:		
a) Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection – Permanent Solution Note: Consideration should be given to provisional item 2.a. Work is being coordinated with the IDC Association. Status: Full Staffing	TBD	BPS
b) Perform consistency review of WEQ-008 Transmission Loading Relief Business Practice Standards and develop recommendation. ¹ Status: Full Staffing	TBD	BPS
c) Revise TLR level 5 to be treated similarly to TLR Level 3 in terms of treating the next hour allocation separately from that of current hour. (R11020) Status: Full Staffing	TBD	BPS
d) Develop, modify or delete business practices standards to support NERC activities related to NERC Time Error Correction (BAL-004-0) Status: Monitor	TBD	BPS
e) Assess impact to NAESB Business Practices with FERC approval of removing the PSE (Order RR15-4-000) and LSE (Order RR15-4-001) from the NERC Compliance Registry Status: Not Started	TBD	BPS/CISS
f) Develop, modify or delete business practices standards to support NERC activities related to NERC Inadvertent Interchange BAL-006 Status: Not Started	TBD	BPS
2. Develop business practice standards in support of the FERC RM05-25-000 and RM05-17-000 (OATT Reform)²		
a) Develop version 3 business practice standards to better coordinate the use of the transmission system among neighboring transmission providers. Status: Underway Request R05004 was expanded to include the Order No. 890 (Docket Nos. RM05-17-000 and RM02-25-000) , (Order No. 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002)) , and Order No. 890-B (Docket Nos. RM05-17-03 and RM05-25-03) “Preventing Undue Discrimination and Preference in Transmission Services”		

¹ In some sections of WEQ-008 it appears that the standards are applicable to all of the Interconnections and other it appears that the standards are only applicable to the Eastern Interconnection. The title indicates the standards are applicable to the Eastern Interconnection.

² FERC Order No. 890, issued February 16, 2007, can be accessed from the following link: http://www.naesb.org/doc_view4.asp?doc=ferc021607.doc.



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Item Description	Completion ¹	Assignment ²
i) Group 4: Preemption; Request No. R05019 (Part of Preemption and Competition)		
1) Short-Term Firm Preemption and Competition (OATT Section 13.2 and 14.2)		
Status: Started	2016	OASIS
2) Long-Term Rollover Rights Competition (OATT Section 2.2)	2 nd Q, 2016	OASIS
Status: Started		
ii) Group 6: Miscellaneous (Paragraph 1627 ³ of FERC Order No. 890)		
1) Paragraphs 1627 of Order 890 – Posting of additional information on OASIS regarding firm transmission curtailments	TBD	OASIS/BPS
Status: Started		
2) Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services.	TBD	OASIS/BPS
Status: Started		
3. Develop business practices standards to improve the current operation of the wholesale electric market and develop and maintain business practice and communication standards for OASIS and Electronic Scheduling		
a) Make remaining incremental enhancements to OASIS as an outgrowth of the NAESB March 29, 2005 conference on the future of OASIS (R05026).	TBD	OASIS/BPS
Scoping statement completed by SRS. There were a number of assignments from the Standards Request. The outstanding item is Enhance the TSR result postings to allow showing of (i) limiting transmission elements and (ii) available generation dispatch options that would allow acceptance of reservation request.		
Status: Started		
b) Requirements for OASIS to use data in the Electric Industry Registry (R12001)	TBD	OASIS
Status: Not Started		

³ Paragraph 1627 of FERC Order No. 890, issued February 16, 2007: We agree with suggestions for the posting of additional curtailment information on OASIS and, therefore, require transmission providers, working through NAESB, to develop a detailed template for the posting of additional information on OASIS regarding firm transmission curtailments. Transmission providers need not implement this new OASIS functionality and any related business practices until NAESB develops appropriate standards. These postings must include all circumstances and events contributing to the need for a firm service curtailment, specific services and customers curtailed (including the transmission provider's own retail loads), and the duration of the curtailment. This information is in addition to the Commission's existing requirements: (1) when any transmission is curtailed or interrupted, the transmission provider must post notice of the curtailment or interruption on OASIS, and the transmission provider must state on OASIS the reason why the transaction could not be continued or completed; (2) information to support any such curtailment or interruption, including the operating status of facilities involved in the constraint or interruption, must be maintained for three years and made available upon request to the curtailed or interrupted customer, the Commission's Staff, and any other person who requests it; and, (3) any offer to adjust the operation of the transmission provider's system to restore a curtailed or interrupted transaction must be posted and made available to all curtailed and interrupted transmission customers at the same time.



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Item Description	Completion ¹	Assignment ²
4. Develop and/or maintain standard communication protocols and - cybersecurity business practices as needed.		
a) Review annually at a minimum, WEQ-012 and the accreditation requirements for Authorized Certification Authorities to determine if any changes are needed to meet market conditions. ⁴ Status: Not Started	2016	Cybersecurity Subcommittee
b) Evaluate and modify standards as needed to support and/or complement the current version of the NERC Critical Infrastructure Protection Standards ⁵ and any other activities of the FERC related to cybersecurity. Status: Not Started	2016	Cybersecurity Subcommittee
5. Maintain existing body of Version 3.x standards		
a) Add language to WEQ-001-4 Online Negotiation and Confirmation process to clarify Table 4-3 (R09003) Status: Started	2016	OASIS
b) Create a new OASIS mechanism that allows for the merger of like reservations without the use of the resale mechanism (R09015) Status: Started	2016	OASIS
c) Improve transparency to allow customers to determine whether they have been treated in a non-discriminatory manner by posting of additional information on OASIS when service is denied (i.e. refused or declined) by customer(s) using new SAMTS process across multiple transmission systems to serve their NITS load on multiple systems. (R12006) Status: Started	TBD	OASIS/BPS
d) Review and modify as necessary WEQ-004, EIR Business Practice Standards, e-Tag Specification, and e-Tag Schema to make the necessary modifications to recognize the Market Operator Role within the Electric Industry Registry Status: Started	2016	CISS
6. Develop and/or modify standards to support FERC Order Instituting Proceeding to Develop Electronic Filing Protocols for Commission Forms (Docket No. AD15-11-000)⁶		
a) Develop business practices as needed to support electronic filing protocols for submittal of FERC Forms Status: Started	TBD	Joint WEQ/WGQ FERC Forms Subcommittee

⁴ The "NAESB Accreditation Requirements for Authorized Certification Authorities" can be found at: http://www.naesb.org/member_login_check.asp?doc=certification_specifications.docx.

⁵ <http://www.nerc.com/pa/Stand/StandPages/CIPStandards.aspx>

⁶ The FERC Order Instituting Proceeding to Develop Electronic Filing Protocols for Commission Forms, issued on April 16, 2015, can be found through the following hyperlink: https://www.naesb.org/pdf4/ferc041615_electronic_filing_protocols_forms.pdf



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Item Description	Completion ¹	Assignment ²
7. Gas-Electric Coordination		
a) Review FERC Order No. 809 ¶ 107 issued in Docket No. RM14-2-000 ⁷ regarding computerized scheduling and provide recommended direction concerning the development of standards or modifications to existing standards as needed to support the request of the Commission ⁸ The recommended direction ⁹ will require board approval, for both the timeline to be pursued and the framework for standards development. ¹⁰ Status: Started	2016	Gas-Electric Harmonization Forum, NAESB Board of Directors, WEQ EC & WGQ EC

⁷FERC Order No. 809 can be found through the following hyperlink: <https://www.ferc.gov/whats-new/comm-meet/2015/041615/M-1.pdf>

⁸FERC Order No. 809 ¶107. While NAESB's modified standards represent an improvement over the currently effective standards, we continue to recognize that additional intraday nomination opportunities could promote more efficient use of existing pipeline infrastructure and provide additional operational flexibility to all pipeline shippers, including gas-fired generators. The modified NAESB standards reflect reduced intraday processing times from the current NAESB standards (i.e., three hours instead of the current four hours), and existing operational limitations, including the manual processes utilized by pipelines for processing nominations, may affect the ability of the gas industry to add additional standard nomination cycles applicable to all shippers. However, the use of computerized scheduling would appear to provide an opportunity for faster and more frequent scheduling of intraday nominations for those shippers and their confirming parties willing to commit to scheduling electronically. We request that gas and electric industries, through NAESB, explore the potential for faster, computerized scheduling when shippers and confirming parties all submit electronic nominations and confirmations, including a streamlined confirmation process if necessary. Providing such an option would enable those entities that need greater scheduling flexibility to have their requests processed expeditiously.

⁹ The steps for the GEH forum shall be:

- (1) Provide a forum for industry education from both the natural gas and electric industries regarding gas-electric coordination specific to computerized scheduling, and confirmations including a streamlined confirmation process, if necessary ([FERC Order No. 809 Order on Rehearing, Docket No. RM14-2-001](#))
- (2) Identify potential issues specific to computerized scheduling, and confirmations including a streamlined confirmation process, if necessary which could be based on the education provided in step 1
- (3) Identify potential solutions to the issues identified in step 2
- (4) Identify potential schedules for standards development including status and progress reports to the board

¹⁰FERC Order on Rehearing ¶1 – September 17, 2015 [Docket No. RM14-2-001] In Order No. 809, the Commission revised its regulations relating to the scheduling of transportation service on interstate natural gas pipelines to better coordinate the scheduling practices of the wholesale natural gas and electric industries, as well as to provide additional scheduling flexibility to all shippers on interstate natural gas pipelines.¹⁰ The Commission also requested that natural gas and electric industries, through the North American Energy Standards Board (NAESB), explore the potential for faster, computerized scheduling when shippers and confirming parties all submit electronic nominations and confirmations, including a streamlined confirmation process if necessary. On May 18, 2015, the Desert Southwest Pipeline Stakeholders (DSPS)¹⁰ filed a request for rehearing of Order No. 809. On August 4, 2015, NAESB filed a report indicating that due to the press of implementing the revised nomination standards by April 1, 2016, it would not begin the development of computerized scheduling standards until after that date. As discussed below, the Commission denies DSPS' request for rehearing and directs El Paso Natural Gas Company, L.L.C. (El Paso), Transwestern Pipeline Company, LLC (Transwestern), and TransCanada-North Baja Pipelines (TransCanada-North Baja) to make an informational filing within 90 days of the date of this order. In addition, while we recognize the time commitments in implementing the revised nomination timeline, the Commission requests that the natural gas and electric industries, through NAESB, begin considering the development of standards related to faster, computerized scheduling and file such standards or a report on the development of such standards with the Commission by October 17, 2016.



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Item Description	Completion ¹	Assignment ²
b) Resulting from the efforts of annual plan item 7(a), develop standards as needed and directed by the Board of Directors, which are specifically assigned to the WEQ <i>Status: Not Started, dependent on completion of item 7(a).</i>	TBD	WEQ EC and relevant subcommittees
i. GEH Forum Issue 22 ¹¹ : "It would be desirable to have a set of terminology agreed upon by participants to characterize shapes, profiles, ratable, non-ratable, and so forth to facilitate discussion"		
1. Consider and determine if WEQ standards are needed, and develop a recommendation and report to the Board of Directors	TBD	WEQ EC and related subcommittees
2. Develop WEQ standards according to the recommendation of item 7b(i)1.	TBD	WEQ EC and related subcommittees
ii. GEH Forum Issue 25 ¹² : "Communication protocols with LDCs, gas generator operators and natural gas marketing companies"		
1. Consider and determine if WEQ standards are needed, and develop a recommendation and report to the Board of Directors	TBD	WEQ EC and related subcommittees
2. Develop WEQ standards according to the recommendation of item 7b(ii)1.	TBD	WEQ EC and related subcommittees
iii. GEH Forum Issue 26 ¹³ : "Improve efficiency of critical information sharing (related to issues 22 and 25)"		
1. Consider and determine if WEQ standards are needed, and develop a recommendation and report to the Board of Directors	TBD	WEQ EC and related subcommittees
2. Develop WEQ standards according to the recommendation of item 7b(iii)1.	TBD	WEQ EC and related subcommittees
iv. GEH Forum Issue 33 ¹⁴ : "Use of multiple confirmation methods in addition to traditional confirmations for intraday nominations. There is currently a good definition of Confirmation by Exception (CBE) in NAESB standards. CBE however, may not be available everywhere but there may also be additional confirmation methods that could benefit from standardization"		

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¹¹ The GEH Forum Issues may be found in the GEH Survey Addendum: https://www.naesb.org/pdf4/geh_report_addendum_041816_clean051316.docx

¹² *Id.*

¹³ *Id.*

¹⁴ *Id.*



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1. Consider and determine if WEQ standards are needed, and develop a recommendation and report to the Board of Directors	TBD	WEQ EC and related subcommittees
2. Develop WEQ standards according to the recommendation of item 7b(iv)1	TBD	WEQ EC and related subcommittees
3. GEH Forum Issue 36 ¹⁵ : "Level of confirmations: there is a wide range of data elements that are exchanged, from a minimum amount to a very large set of data. In the "Art of Scheduling," pipelines confirm at different levels, with potential for disparities. Greater standardization could produce confirming efficiencies. (For example, confirm at the shipper-to-shipper level. Or, if there are confirmations at a lower level of detail, it would be driven by model type.) See issue 17 ¹⁶ in the first presentation."		
1. Consider and determine if WEQ standards are needed, and develop a recommendation and report to the Board of Directors	TBD	WEQ EC and related subcommittees
2. Develop WEQ standards according to the recommendation of item 7b(v)1	TBD	WEQ EC and related subcommittees
8. Demand Response		
a) Develop and/or modify Demand Response Standards as needed in response to the Supreme Court decisions regarding the final D.C. Circuit ruling on FERC Order No. 745 Status: Not Started	1 st Q, 2016	DSM-EE Subcommittee

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¹⁵ Id.

¹⁶ GEH Forum Issue 17 "Levels of Confirmation" can be found in the GEH Survey Addendum: https://www.naesb.org/pdf4/geh_report_addendum_041816_clean051316.docx

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NORTH AMERICAN ENERGY STANDARDS BOARD 2016 ANNUAL PLAN for the WHOLESale ELECTRIC QUADRANT Adopted by the Board of Directors on December 10, 2015

PROVISIONAL ITEMS

1. Optional Work to Extend Existing Standards

- a) Prepare recommendations for future path for TLR¹⁷ (Phase 2) in concert with NERC, which may include alternative congestion management procedures¹⁸. Work on this activity is dependent on completing 2016 WEQ Annual Plan 1.a (Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection - Phase 1).
- b) Develop needed business practice standards for organization/company codes for NAESB standards – and address current issues on the use of DUNs numbers. Common code usage is linked to the transition of the Registry from NERC to NAESB.

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2. Pending Regulatory or Legislative Action

- a) Determine NAESB action needed to support FERC Action Plan for Smart Grid Technology.
- b) Develop business practice standards for cap and trade programs for greenhouse gas.
- c) Develop standards as needed in support of Variable Energy Resources (VERs) final order (RM10-11-000). ([NAESB Comments 3-2-11](#), [FERC NOPR RM10-11-000](#), [FERC Final Order No. 764](#), [Docket No. RM10-11-000](#)¹⁹)
- d) Should the FERC determine to act in response to NAESB's report of the Version 003.1 Business Practice Standards, and should the FERC recommend specific action, develop and/or revise Business Practice Standards as needed.

¹⁷ Phase 2 of the Parallel Flow Visualization looks at developing options for and reporting of the most cost effective alternatives to achieve curtail obligations assigned during Phase 1.

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¹⁸ For additional information, please see comments submitted by PJM and Midwest ISO for this Annual Plan Item: http://www.naesb.org/pdf3/weq_aplan102907w1.pdf.

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¹⁹ For FERC Final Order No. 764, Docket No. RM10-11-000, specifically paragraph nos. 146 and 182 should be reviewed:

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146. The Commission concludes that an independent review of NERC standards and NAESB business practices is not necessary prior to the implementation of intra-hour scheduling. As noted by NERC, several entities currently offer intra-hour scheduling without any apparent conflict with Reliability Standards. NERC comments that it does not believe there are any existing standards that prohibit industry from implementing intra-hour scheduling, and no commenters have pointed to specific NAESB business practices that prevent industry from implementing intra-hour scheduling. The Commission therefore concludes that it is not necessary to delay adoption of the intra-hour scheduling requirements of this Final Rule pending further review of NERC Reliability Standards and NAESB business practices. To the extent industry believes it is beneficial to refine one or more existing NERC Reliability Standards or NAESB business practices to reflect intra-hour scheduling, stakeholders can use existing processes to pursue such refinements.

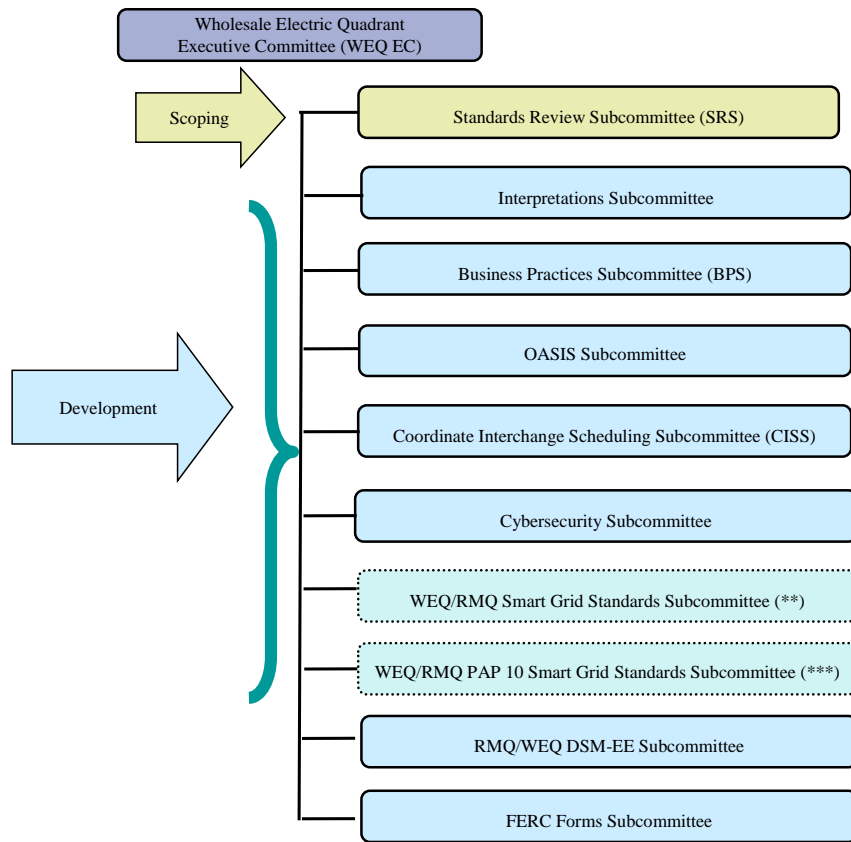
182. Some commenters request that the Commission standardize protocols for reporting meteorological or forced outage data required by this Final Rule. The Proposed Rule did not contain standard protocols for data reporting and, as a result, the merits of such a requirement have not been fully addressed in the record. Whether standardization of data communications would facilitate or hinder development of power production forecasting may implicate a variety of data and communications issues that would benefit from broad industry input through standards development processes such as those used by NAESB and other organizations.



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WHOLESALE ELECTRIC QUADRANT EXECUTIVE COMMITTEE AND SUBCOMMITTEE STRUCTURE





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NAESB WEQ EC and Active Subcommittee Leadership:

Executive Committee (EC): Kathy York (Chair) and Bob Harshbarger (Vice Chair)
Standards Review Subcommittee (SRS): Rebecca Berdahl
Interpretations Subcommittee: Ed Skiba
Business Practices Subcommittee (BPS): Jason Davis, Ross Kovacs, Narinder Saini
Open Access Same Time Information System (OASIS) Subcommittee: J.T. Wood, Alan Pritchard
Coordinate Interchange Scheduling Subcommittee (CISS): Bob Harshbarger, Joshua Phillips
Cybersecurity Subcommittee: Jim Buccigross
Demand Side Management-Energy Efficiency (DSM-EE) RMQ/WEQ Subcommittee: Roy True (WEQ), Paul Wattles (WEQ), and Eric Winkler (RMQ)
FERC Forms Subcommittee (WEQ/WGQ): Leigh Spangler (WGQ), Dick Brooks (WEQ)

Inactive Subcommittees:

e-Tariff Joint WEQ/WGQ Subcommittee (e-Tariff): Keith Sappenfield (WGQ)

- (**) The Smart Grid Standards Subcommittee is a joint group of the retail electric and wholesale electric quadrants with other standards development groups such as OASIS (Organization for the Advancement of Structured Information Standards, not Open Access Same Time Information Systems related to NAESB standards and FERC actions), CalConnect, FIX and UCAIug, among others. Direction may be given from NIST, DoE or FERC and the group reports jointly to the NAESB Board Smart Grid Strategic Steering Committee and the WEQ and RMQ ECs.
- (***) The PAP 10 Smart Grid Standards Subcommittee is a joint group of the retail electric and wholesale electric quadrants with other standards development groups such as OASIS, UCAIug, OpenADE, ZigBee, ASHRAE, EIS Alliance, NARUC and includes other groups. Direction may be given from NIST, DoE or FERC and the group reports jointly to the NAESB Board Smart Grid Strategic Steering Committee and the WEQ and RMQ ECs.

End Notes WEQ 2016 Annual Plan:

¹ Dates in the completion column are by end of the quarter for completion by the assigned committee, sub-committee or task force. The dates do not necessarily mean that the standards are fully staffed to be implementable by the industry, and/or ratified by membership. If one item is completed earlier than planned, another item can begin earlier and possibly complete earlier than planned. There are no begin dates on the plan.

² The assignments are abbreviated. The abbreviations and sub-committee structure can be found at the end of the annual plan document.