



## NORTH AMERICAN ENERGY STANDARDS BOARD

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December 22, 2015  
Filed Electronically

The Honorable Kimberly D. Bose  
Secretary  
Federal Energy Regulatory Commission  
888 First Street N.E., Room 1A  
Washington, D.C. 20426

RE: NAESB Status Report for Submittal to the Commission Concerning FERC Order No. 809, *Coordination of the Scheduling Processes of Interstate Natural Gas Pipelines and Public Utilities* (Docket No. RM14-2-000)

Dear Ms. Bose:

The North American Energy Standards Board ("NAESB") is voluntarily submitting this report to the Federal Energy Regulatory Commission ("FERC" or "Commission") to supplement a prior status report submitted to the Commission on August 4, 2015<sup>1</sup> in Docket No. RM14-2-000 related to the April 16, 2015 FERC Final Order No. 809, *Coordination of the Scheduling Processes of Interstate Natural Gas Pipelines and Public Utilities*.<sup>2</sup> The purpose of this report is to inform the Commission of action taken by the NAESB Board of Directors in response to FERC Order No. 809 since the submission of the August 4, 2015 report and to describe the action NAESB intends to take to address the Commission's requests related to electronic scheduling of electronic nominations and confirmations in paragraph 107 of the Order.

The cover letter, report and enclosures are being filed electronically in Adobe Acrobat® Portable Document Format (.pdf), with each enclosure bookmarked separately. The entire filing is also available on the NAESB website ([www.naesb.org](http://www.naesb.org)). Please feel free to call the office at (713) 356-0060 or refer to the NAESB website ([www.naesb.org](http://www.naesb.org)) should you have any questions or need additional information regarding the report.

Respectfully submitted,  
Rae McQuade  
Ms. Rae McQuade  
President & COO, North American Energy Standards Board

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<sup>1</sup> The August 4, 2015 NAESB Update Report Concerning FERC Order No. 809 may be accessed at the following link: [https://www.naesb.org/pdf4/ferc080415\\_naesb\\_update\\_report\\_order809.pdf](https://www.naesb.org/pdf4/ferc080415_naesb_update_report_order809.pdf).

<sup>2</sup> Order No. 809, *Coordination of the Scheduling Processes of Interstate Natural Gas Pipelines and Public Utilities*, 151 FERC ¶ 61,049, 80 Fed. Reg. 23,197 (2015) (to be codified at 18 CFR pt. 284).



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cc:

Chairman Norman C. Bay, Federal Energy Regulatory Commission  
Commissioner Tony Clark, Federal Energy Regulatory Commission  
Commissioner Collette Honorable, Federal Energy Regulatory Commission  
Commissioner Cheryl LaFleur, Federal Energy Regulatory Commission

Mr. Michael Bardee, Director, Office of Electric Reliability, Federal Energy Regulatory Commission

Ms. Jamie L. Simler, Director, Office of Energy Market Regulation, Federal Energy Regulatory Commission

Mr. Max Minzner, General Counsel, Office of the General Counsel, Federal Energy Regulatory Commission

Mr. J. Arnold Quinn, Director, Office of Energy Policy and Innovation, Federal Energy Regulatory Commission

Mr. J. Cade Burks, Chairman and CEO, North American Energy Standards Board

Ms. Valerie Crockett, Vice Chairman WGQ, North American Energy Standards Board

Mr. Michael Desselle, Vice Chairman WEQ, North American Energy Standards Board

Mr. William P. Boswell, General Counsel, North American Energy Standards Board

Mr. Jonathan Booe, Executive Vice President & CAO, North American Energy Standards Board

Terry Thorn, Advisory Council, North American Energy Standards Board

Sue Tierney, Advisory Council, North American Energy Standards Board

Enclosures (all documents noted in the appendices are available publicly on the NAESB website – <http://www.naesb.org>):

Appendix A	Links to Board of Directors Agenda, Meeting Minutes, and Work Papers September 11, 2015 Board of Directors Agenda, Meeting Minutes, and Work Papers November 5, 2015 Board of Directors Agenda, Meeting Minutes, and Work Papers November 6, 2015 Notational Ballot, Comments, and Notational Ballot Results December 10, 2015 Board of Directors Agenda, Meeting Minutes, and Work Papers
Appendix B	List of Available Transcripts
Appendix C	NAESB 2015 WEQ Annual Plan
Appendix D	NAESB 2015 WGQ Annual Plan
Appendix E	NAESB 2016 WEQ Annual Plan
Appendix F	NAESB 2016 WGQ Annual Plan
Appendix G	Annual Plan End Notes

**UNITED STATES OF AMERICA  
FEDERAL ENERGY REGULATORY COMMISSION**

**Coordination of the Scheduling Processes of  
Interstate Natural Gas Pipelines and Public Utilities** )

**Docket No. RM 14-2-000**

**REPORT OF THE NORTH AMERICAN ENERGY STANDARDS BOARD**

The North American Energy Standards Board (“NAESB”) is voluntarily submitting this status report to the Federal Energy Regulatory Commission (“FERC or Commission”) to inform the Commission of action taken by the NAESB Board of Directors in response to FERC Order No. 809 (“Order”)<sup>1</sup> and supplement the previous status report submitted to the Commission on August 4, 2015.<sup>2</sup>

To support the status report, seven enclosures are attached to this submittal.

1. Appendix A provides links to the agenda, minutes, work papers and voting records from the NAESB Board of Directors meetings that have taken place since the August 4, 2015 status report
2. Appendix B provides links to the available transcripts from the NAESB Board of Directors meetings that have taken place since the August 4, 2015 status report
3. Appendix C provides the 2015 WGQ Annual Plan adopted by the Board of Directors on December 10, 2015
4. Appendix D provides the 2015 WEQ Annual Plan adopted by the Board of Directors on December 10, 2015
5. Appendix E provides the 2016 WGQ Annual Plan adopted by the Board of Directors on December 10, 2015
6. Appendix F provides the 2016 WEQ Annual Plan adopted by the Board of Directors on December 10, 2015
7. Appendix G provides the Annual Plan end notes

This report is intended solely as a status report from NAESB regarding activities to respond to the FERC Order. NAESB does not advocate that the Commission take a particular position on any of the issues presented.

Throughout the latter half of 2015, the NAESB Board of Directors has continued discussions and planning related to the requests of the Commission in paragraph 107 of the Order. Supporting the coordination of the natural gas and electric industries, specifically related to the scheduling of transportation for electric generation, has been a priority of the organization since the development of the NAESB WEQ/WGQ gas-electric coordination standards in 2004. The request from the Commission for the exploration of faster, computerized scheduling when shippers and confirming parties all submit electronic nominations and confirmations represents the next evolution in harmonization of the industries as viewed by the Commission, and NAESB will work to convene the relevant and interested parties to determine how standards may further the Commission’s goals.

**Action Taken by the NAESB Board of Directors to Support ¶107 of FERC Order No. 809**

Following the submission of the August 4, 2015 status report to the Commission, the NAESB Board of Directors held its second meeting of the year on September 11, 2015. During the meeting, the Board of Directors held a

<sup>1</sup> Order No. 809, *Coordination of the Scheduling Processes of Interstate Natural Gas Pipelines and Public Utilities*, 151 FERC ¶ 61,049, 80 Fed. Reg. 23,197 (2015) (to be codified at 18 CFR pt. 284).

<sup>2</sup> The August 4, 2015 NAESB Update Report Concerning FERC Order No. 809 may be accessed at the following link:  
[https://www.naesb.org/pdf4/ferc080415\\_naesb\\_update\\_report\\_order809.pdf](https://www.naesb.org/pdf4/ferc080415_naesb_update_report_order809.pdf).

strategic planning discussion and conducted its regular business, including the review and approval of the WEQ and WGQ 2015 annual plan items related to the Order. Subsequent to the board meeting, on September 17, 2015, the Commission issued an Order on Rehearing in response to the May 18, 2015 request of the Desert Southwest Pipeline Stakeholders (“DSPS”).<sup>3</sup> In the Order on Rehearing, the Commission denied the DSPS request for rehearing, and asked NAESB to begin work in response to the Commission’s request made in the Order. Specifically, the Commission requested 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. As noted by the Commission, this request was made with the recognition of the time commitments required for the implementation of the revised nomination timeline. Given the clarity in direction provided by the Commission in the Order on Rehearing, the Board of Directors revisited the June 2015 decision, as reported to the Commission in August 2015, to delay action on Order 809 until after the implementation of the revised nomination timeline in 2016. The NAESB Managing Committee and Chairman of the Board of Directors requested that a special meeting be held to reconsider the 2015 and proposed 2016 WEQ and WGQ annual plans and make any necessary modifications in light of the Commission’s request in the Order on Rehearing.

This meeting was held on November 5, 2015. Due to a lack of quorum, the meeting was deemed a working session and no action could be taken by the participants; however, there was robust discussion concerning a path forward for the organization in order to be responsive to the Commission. In addition to the alternatives discussed, the participants identified the need for education and communication between the gas and electric industries, the need for frequent formal communication with the Commission on the progress of the effort, and the need to act quickly while respecting other committed deadlines as tenets the organization should observe when determining how best to proceed. All participants agreed that comprehensive business practices, if developed, will require engagement by both industries. Based upon the discussion and general support for modifying the completion date of the relevant annual plan items from “to be determined” to 2016 and initiating activities of the NAESB Gas-Electric Harmonization (“GEH”) Forum, the Chairman of the Board of Directors requested that the NAESB office distribute a notational ballot proposing modifications to the 2015 WEQ Annual Plan Item 9.a and 2015 WGQ Annual Plan Item 3.b and proposed 2016 WEQ Annual Plan Item 7.a and proposed 2016 WGQ Annual Plan Item 3.a. This ballot was distributed on November 6, 2015 and returned on November 13, 2015. In response, the NAESB office received fifty-three votes and the notational ballot passed the requisite simple majority support required for modifications to the annual plans.

The NAESB Board of Directors held its last meeting of the year on December 10, 2015 and once again discussed how the proposed WEQ and WGQ 2016 annual plans should be shaped to accurately describe NAESB’s effort to address the request of the Commission in response to the Order. Based on discussions prior to the meeting, a scoping directive was offered as an amendment to the proposed 2016 WEQ and WGQ plans to guide the GEH Forum as it begins its activities in 2016. The following language was added as a footnote to item 7.a of the 2016 WEQ Annual Plan and item 3.a of the 2016 WGQ Annual Plan.

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

With the inclusion of the footnote, the 2016 WEQ and WGQ annual plans were adopted without opposition by the Board of Directors on December 10, 2016.

### **Next Steps**

As a result of the board vote in support of the annual plan items, the NAESB GEH Forum will reconvene in early 2016 to begin work on the education and information gathering assignments they have been given that will

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<sup>3</sup> Order on Rehearing, *Coordination of the Scheduling Processes of Interstate Natural Gas Pipelines and Public Utilities*, 152 ¶ 61,212, 80 Fed. Reg. 46,979 (2015).

eventually lead to future standards development by the applicable NAESB executive committees. NAESB Advisory Council members Terry Thorn and Sue Tierney have agreed to lead the GEH Forum as co-chairs, and a kickoff meeting will be scheduled after the first of the year. It is anticipated that the GEH Forum will provide its work product or a status report to the NAESB Board of Directors at the April 2016 board meeting. We will then provide a status report to the Commission of the steps taken by the board. In addition, as NAESB makes progress towards reaching its goal of submitting standards or a report on standards development by October 17, 2016, the organization will also provide status updates to the Commission to ensure that it is meeting the expectations of the Commission. As always, NAESB appreciates the guidance of the Commission and the leadership of the Board of Directors, and looks forward to working with the industry to develop standards which support the wholesale and retail natural gas and electricity markets.

Appendices:

- A..... Links to Board of Directors Agenda, Meeting Minutes and Work Papers
  - September 11, 2015 Board of Directors Agenda, Meeting Minutes, and Work Papers
  - November 5, 2015 Board of Directors Agenda, Meeting Minutes, and Work Papers
  - November 6, 2015 Notational Ballot, Comments, and Notational Ballot Results
  - December 10, 2015 Board of Directors Agenda, Meeting Minutes, and Work Papers
- B..... List of Available Transcripts
- C..... NAESB 2015 WGQ Annual Plan
- D..... NAESB 2015 WEQ Annual Plan
- E..... NAESB 2016 WGQ Annual Plan
- F..... NAESB 2016 WEQ Annual Plan
- G..... Annual Plan End Notes

Appendix A: Links to Board of Directors Agenda, Meeting Minutes and Work Papers

Appendix A – Links to Board of Directors Agenda, Meeting Minutes and Work Papers		
Date	Links to Minutes and Voting Records	Links to Agenda and Work Papers
09-03-15	NAESB Board of Directors Meeting Minutes: <a href="https://www.naesb.org/pdf4/bd090315fm.docx">https://www.naesb.org/pdf4/bd090315fm.docx</a>	Agenda with Meeting Materials Linked: <a href="https://www.naesb.org/pdf4/bd090315a.docx">https://www.naesb.org/pdf4/bd090315a.docx</a>
11-05-15	NAESB Board of Directors Conference Call w/ Web Cast Meeting Minutes: <a href="https://www.naesb.org/pdf4/bd110515fm.docx">https://www.naesb.org/pdf4/bd110515fm.docx</a>	Agenda with Meeting Materials Linked: <a href="https://www.naesb.org/pdf4/bd110515a.docx">https://www.naesb.org/pdf4/bd110515a.docx</a> Board Comment Results - October 14, 2015: <a href="https://www.naesb.org/pdf4/bd110515w1.doc">https://www.naesb.org/pdf4/bd110515w1.doc</a> Work Paper Submitted by S. Munson, SunGard Energy: <a href="https://www.naesb.org/pdf4/bd110515w2.docx">https://www.naesb.org/pdf4/bd110515w2.docx</a>
11-06-15	Board of Directors Notational Ballot on Proposed Modifications to the 2015 and Proposed 2016 WEQ and WGQ Annual Plans due November 13, 2015: <a href="https://www.naesb.org/pdf4/bd110515ballot.doc">https://www.naesb.org/pdf4/bd110515ballot.doc</a> Results: <a href="https://www.naesb.org/pdf4/bd110515ballot_results.doc">https://www.naesb.org/pdf4/bd110515ballot_results.doc</a>	
12-10-15	NAESB Board of Directors Meeting Minutes: <a href="https://www.naesb.org/pdf4/bd121015dm.docx">https://www.naesb.org/pdf4/bd121015dm.docx</a>	Agenda with Meeting Materials Linked: <a href="https://www.naesb.org/pdf4/bd121015a.docx">https://www.naesb.org/pdf4/bd121015a.docx</a> Supplemental: Work Paper Submitted by S. Munson, SunGard Energy: <a href="https://www.naesb.org/pdf4/bd110515w2.docx">https://www.naesb.org/pdf4/bd110515w2.docx</a>

Appendix B: List of Available Transcripts

Appendix B – List of Available Transcripts			
Date of Meeting	Meeting and Minutes	Transcription Service	How To obtain transcripts <sup>1</sup>
09-03-15	NAESB Board of Directors Meeting: <a href="https://www.naesb.org/pdf4/bd090315fm.docx">https://www.naesb.org/pdf4/bd090315fm.docx</a>	Jill Vaughan, CSR	Call Jill Vaughan, CSR at 281-853-6807
11-05-15	NAESB Board of Directors Conference Call w/ Web Cast Meeting: <a href="https://www.naesb.org/pdf4/bd110515fm.docx">https://www.naesb.org/pdf4/bd110515fm.docx</a>	Jill Vaughan, CSR	Call Jill Vaughan, CSR at 281-853-6807
12-10-15	NAESB Board of Directors Meeting: <a href="https://www.naesb.org/pdf4/bd121015dm.docx">https://www.naesb.org/pdf4/bd121015dm.docx</a>	Jill Vaughan, CSR	Call Jill Vaughan, CSR at 281-853-6807

<sup>1</sup> The Federal Energy Regulatory Commission and other regulatory agencies may contact the NAESB office to obtain electronic copies of the transcripts. All others can contact the transcription service and order the transcripts for a nominal fee.



**NORTH AMERICAN ENERGY STANDARDS BOARD  
 2015 Annual Plan for the Wholesale Gas Quadrant  
 Adopted by the Board of Directors on December 10, 2015**

Item Description	Completion <sup>i</sup>	Assignment <sup>ii</sup>
<b>1. Update Standards Matrix Tool for Ease of Use<sup>iii</sup></b>		
a. Update the reference tool developed for Version 2.1 to reflect modifications applicable to Version 3.0 Status: Not Started	1 <sup>st</sup> Q, 2016	IR/Technical
<b>2. Electronic Delivery Mechanisms</b>		
a. Review minimum technical characteristics in Appendices B, C, and D of the WGQ QEDM Manual, and make changes as appropriate. Status: Not Started	2016	EDM
<b>3. Gas-Electric Coordination</b>		
a. Develop new standards and modify existing standards, as necessary, to support FERC order(s) issued in Docket No. RM14-2-000. Status: Complete	2 <sup>nd</sup> Q, 2015	Executive Committee
b. Review FERC Order No. 809 ¶ 107 issued in Docket No. RM14-2-000 <sup>1</sup> 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 <sup>2</sup> The recommended direction will require two-step board approval, for both the timeline to be pursued and the framework for standards development Status: Not Started	2016	Gas-Electric Harmonization Forum, NAESB Board of Directors, WEQ EC & WGQ EC
c. Resulting from the efforts of annual plan item 3(b), develop standards as needed and directed by the Board of Directors, which are specifically assigned to the WGQ. Status: Not Started, dependent on completion of item 3(b).	TBD	WGQ EC and relevant subcommittees
<b>4. Develop and/or modify standards to support FERC Order Instituting Proceeding to Develop Electronic Filing Protocols for Commission Forms (Docket No. AD15-11-000)<sup>3</sup></b>		
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
<b>5. Develop possible revisions to Base Contract in response to NAESB request R15007 submitted from TVA. Concurrently review recent CFTC Final Rules issued on Forward Contracts and Trade Option and update NAESB CFTC Whitepaper and associated Forward Contract Matrix</b>		
a. Develop recommendation on revisions to Base Contract per NAESB Request R15007 Status: Underway	4 <sup>th</sup> Q, 2015	WGQ Contracts

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

<sup>2</sup>FERC 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.

<sup>3</sup>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](https://www.naesb.org/pdf4/ferc041615_electronic_filing_protocols_forms.pdf)

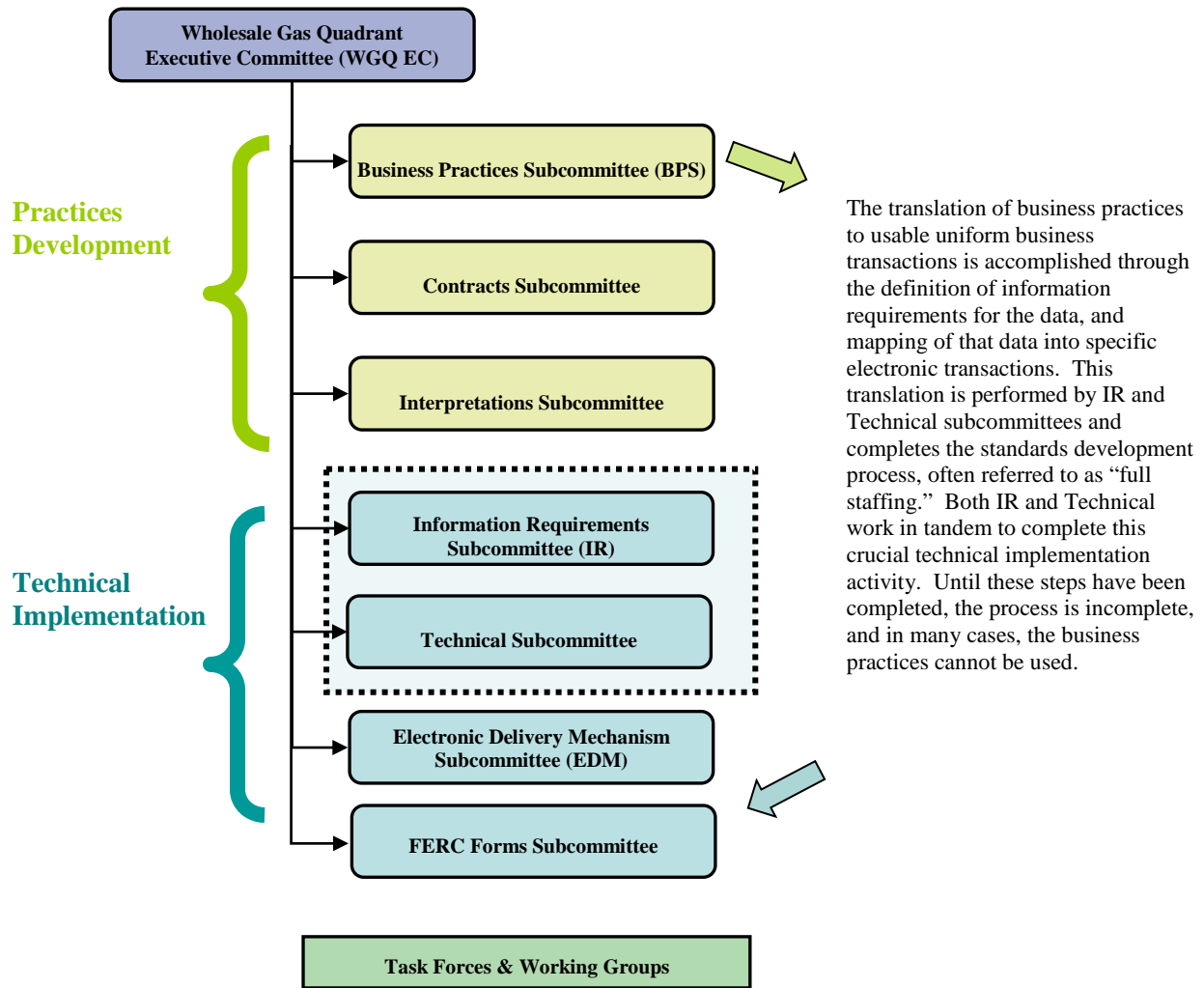
**NORTH AMERICAN ENERGY STANDARDS BOARD  
 2015 Annual Plan for the Wholesale Gas Quadrant  
 Adopted by the Board of Directors on December 10, 2015**

Item Description	Completion <sup>i</sup>	Assignment <sup>ii</sup>
b. Concurrently with item 4.a. work, review and update prior NAESB <i>White Paper on CFTC Final Rule Impact on NAESB Contracts</i> and associated <i>Exhibit "C" SWAP Decision Tree Tool</i> matrix issued in August 2014. Status: Underway	4 <sup>th</sup> Q, 2015	WGQ Contracts
<b>Program of Standards Maintenance &amp; Fully Staffed Standards Work</b>		
Business Practice Requests	Ongoing	Assigned by the EC <sup>iv</sup>
Continue review against plan for migration to ANSI ASC X12 new versions as needed and coordinate such activities with DISA.	Ongoing	Assigned by the EC <sup>3</sup>
Information Requirements and Technical Mapping of Business Practices	Ongoing	Assigned by the EC <sup>3</sup>
Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC <sup>4</sup>
Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC <sup>3</sup>
Maintenance of eTariff Standards	As Requested	Assigned by the EC <sup>4</sup>
<b>Provisional Activities</b>		
1. Develop standards as needed in support of Variable Energy Resources (VERs) final order (RM10-11-000). ( <a href="#">NAESB Comments 3-2-11</a> , <a href="#">FERC NOPR RM10-11-000</a> , <a href="#">FERC Final Order RM10-11-000<sup>4</sup></a> ) In review of the NAESB standards, the Gas/Electric Operational Communications Standards may require changes, and other standards may be required or modified to support gas-electric coordination.		

<sup>4</sup> For FERC Final Order, Docket No. RM10-11-000, specifically paragraph nos. 146 and 182 should be reviewed:

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.



**NAESB 2015 WGQ EC and Subcommittee Leadership:**

- Executive Committee: Jim Buccigross, Chair and Dale Davis, Vice-Chair
- Business Practices Subcommittee: Kim Van Pelt, Sylvia Munson, Willis McCluskey, Phil Precht, Ben Schoene
- Information Requirements Subcommittee: Dale Davis, Rachel Hogge
- Technical Subcommittee: Kim Van Pelt
- Contracts Subcommittee: Keith Sappenfield
- Electronic Delivery Mechanism Subcommittee: Leigh Spangler
- FERC Forms Subcommittee (WEQ/WGQ): Leigh Spangler, Dick Brooks

Appendix C: NAESB 2015 Wholesale Gas Quadrant Annual Plan

Appendix A – GEH Timeline

Time Shifts -- All times CT		Current NAESB Standards	NOPR	No Gas Day Start Time Specified
Timely	Timely day-ahead Nom Deadline	11:30 AM	1:00 PM	1:00 PM
	Confirmations			4:30 PM
	Schedule Issued	4:30 PM	4:30 PM	5:00 PM
	Start of Gas Flow	9:00 AM	4:00 AM	
Evening	Evening Day-ahead Nom Deadline	6:00 PM	6:00 PM	6:00 PM
	Confirmations	9:00 PM	9:00 PM	8:30 PM
	Schedule Issued	10:00 PM	10:00 PM	9:00 PM
	Start of Gas Flow	9:00 AM	4:00 AM	
ID1	ID1 Nom Deadline	10:00 AM	8:00 AM	10:00 AM
	Confirmations	1:00 PM	10:00 AM	12:30 PM
	Schedule Issued	2:00 PM	11:00 AM	1:00 PM
	Start of Gas Flow	5:00 PM	12:00 Noon	2:00 PM
	Hours of Flow	16 hours	16 hours	
	IT Bump Rights	bumpable	bumpable	bumpable
	EPSQ	33%	33%	
ID2	ID2 Nom Deadline	5:00 PM	10:30 AM	2:30 PM
	Confirmations	8:00 PM	1:00 PM	5:00 PM
	Schedule Issued	9:00 PM	2:00 PM	5:30 PM
	Start of Gas Flow	9:00 PM	4:00 PM	6:00 PM
	Hours of Flow	12 hours	12 hours	
	IT Bump Rights	no bump	bumpable	bumpable
	EPSQ	50%	50%	
ID3	ID3 Nom Deadline		4:00 PM	7:00 PM
	Confirmations		5:00 PM	9:30 PM
	Schedule Issued		6:00 PM	10:00 PM
	Start of Gas Flow		7:00 PM	10:00 PM
	Hours of Flow		9 hours	
	IT Bump Rights		bumpable	<b>no bump</b>
	EPSQ		63%	

Appendix C: NAESB 2015 Wholesale Gas Quadrant Annual Plan

Appendix A – GEH Timeline

Time Shifts -- All times CT		Current NAESB Standards	NOPR	No Gas Day Start Time Specified
ID4	ID4 Nom Deadline		7:00 PM	
	Confirmations		8:00 PM	
	Schedule Issued		9:00 PM	
	Start of Gas Flow		9:00 PM	
	Hours of Flow		7 hours	
	IT Bump Rights		no bump	
	EPSQ		71%	

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

Item Description	Completion <sup>i</sup>	Assignment <sup>ii</sup>
<b>1. Develop business practices standards as needed to complement reliability standards</b>		
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. <sup>1</sup> Status: Full Staffing	TBD	BPS
c) Disturbance Control Standard (DCS) (BAL-002) Coordination with NERC <a href="#">Project 2010-14.1 Phase 1 of Balancing Authority Reliability-based Controls: Reserves</a> Status: Complete	4th Q, 2015	BPS
d) 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. ( <a href="#">R11020</a> ) Status: Full Staffing	TBD	BPS
e) Develop, modify or delete business practice standards to support request <a href="#">R14002</a> (NERC <a href="#">Project 2012-05 ATC Revisions (MOD A)</a> ). <sup>2</sup> Status: Completed	2 <sup>nd</sup> Q, 2015	BPS
f) Develop, modify or delete business practices standards to support NERC activities related to NERC Time Error Correction (BAL-004-0) Status: Monitor	TBD	BPS/TIMTF
<b>2. Develop business practice standards in support of the FERC RM05-25-000 and RM05-17-000 (OATT Reform)<sup>3</sup></b>		
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 <a href="#">Order No. 890 (Docket Nos. RM05-17-000 and RM02-25-000)</a> , ( <a href="#">Order No. 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002)</a> ), and <a href="#">Order No. 890-B (Docket Nos. RM05-17-03 and RM05-25-03)</a> “Preventing Undue Discrimination and Preference in Transmission Services”		

<sup>1</sup> 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.

<sup>2</sup>The FERC NOPR issued June 19, 2014, available at the following link: <http://www.ferc.gov/whats-new/comm-meet/2014/061914/E-17.pdf>.

<sup>3</sup> 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](http://www.naesb.org/doc_view4.asp?doc=ferc021607.doc).

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

	<b>Item Description</b>	<b>Completion<sup>i</sup></b>	<b>Assignment<sup>ii</sup></b>
i)	Group 4: Preemption; Request No. <a href="#">R05019 (Part of Preemption and Competition)</a>		
	1) Short-Term Firm Preemption and Competition (OATT Sections 13.2 and 14.2) Status: Started	2016	OASIS
	2) Long-Term Firm Rollover Rights Competition (OATT Section 2.2) Status: Complete	4 <sup>th</sup> Q, 2015	OASIS
ii)	Group 6: Miscellaneous (Paragraph 1627 <sup>4</sup> of FERC Order No. 890)		
	1) Paragraphs 1627 of Order 890 – Posting of additional information on OASIS regarding firm transmission curtailments Status: Started	TBD	OASIS/BPS
	2) Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services. Status: Started	TBD	OASIS/BPS
<b>3.</b>	<b>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</b>		
a)	Develop and/or maintain business practice standards as needed for OASIS and electronic scheduling. Specific items to address include:		
i)	Make remaining incremental enhancements to OASIS as an outgrowth of the NAESB March 29, 2005 conference on the future of OASIS ( <a href="#">R05026</a> ). Scoping <a href="#">statement</a> completed by SRS. There were a number of assignments from the Standards Request. The outstanding items are included below:		
	1) Eliminate Masking of TSR tag source and sink when requested status is denied, withdrawn refused, displaced, invalid, declined, annulled or retracted Status: Completed	2 <sup>nd</sup> Q, 2015	OASIS
	2) Initiate standard that eliminates the disparity of posting “sensitive” information. This standard should also include procedures of user certification that allows access to this class of information. Status: Completed	2 <sup>nd</sup> Q, 2015	OASIS
	3) 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	TBD	OASIS/BPS

<sup>4</sup> 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 <sup>i</sup>	Assignment <sup>ii</sup>
b) Requirements for OASIS to use data in the Electric Industry Registry ( <a href="#">R12001</a> ) Status: Not Started	TBD	OASIS
<b>4. Develop and/or maintain standard communication protocols and - cybersecurity business practices as needed.</b>		
a) Develop modifications for WEQ-012 as needed to reflect current market conditions		
i) Review annually at a minimum, the accreditation requirements for Authorized Certification Authorities to determine if any changes are needed to meet market conditions. <sup>5</sup> Status: Started	2015	Cybersecurity Subcommittee
b) Review WEQ standards for impact of XML vulnerability exploits and make modifications as needed to standards and functional specifications Status: Completed	2 <sup>nd</sup> Q, 2015	Cybersecurity Subcommittee/ CISS
<b>5 Maintain existing body of Version 3.x standards</b>		
a) Consistent with ¶51 of FERC Order No. 890-A, add AFC and TFC values to the “System_Attribute” data element of the NAESB Standard WEQ-003: OASIS S&CP Data Dictionaries. ( <a href="#">R08011</a> ) Status: Completed	2 <sup>nd</sup> Q, 2015	OASIS
b) Correct WEQ 013-2.6.7.2. – Resale off OASIS ( <a href="#">R08027</a> ) Status: Completed	2 <sup>nd</sup> Q, 2015	OASIS
c) Add language to WEQ-001-4 Online Negotiation and Confirmation process to clarify Table 4-3 ( <a href="#">R09003</a> ) Status: Started	2016	OASIS
d) Create a new OASIS mechanism that allows for the merger of like reservations without the use of the resale mechanism ( <a href="#">R09015</a> ) Status: Started	2016	OASIS
e) 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. ( <a href="#">R12006</a> ) Status: Started	TBD	OASIS/BPS
f) 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	2015	CISS
<b>6. Develop or modify standards to Support <a href="#">FERC Order No. 676-E</a>, (Docket No. RM 05-5-013)</b>		
a) Develop standards to support the Transmission Provider right to reassess the availability of conditional firm (See ¶ 72 <sup>6</sup> ) Status: Completed	2 <sup>nd</sup> Q, 2015	OASIS

<sup>5</sup> The “NAESB Accreditation Requirements for Authorized Certification Authorities” can be found at: [http://www.naesb.org/member\\_login\\_check.asp?doc=certification\\_specifications.docx](http://www.naesb.org/member_login_check.asp?doc=certification_specifications.docx).

<sup>6</sup> 72. However, we reiterate here the Commission’s finding in Order No. 890 that a transmission provider is permitted to extend its right to reassess the availability of conditional firm service. Since the Version 002.1 Standards do not specifically address this issue, we would ask the



Appendix D: NAESB 2015 Wholesale Electric Quadrant Annual Plan

**NORTH AMERICAN ENERGY STANDARDS BOARD  
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 Adopted by the Board of Directors on December 10, 2015**

Item Description	Completion <sup>i</sup>	Assignment <sup>ii</sup>
<b>7. Develop or modify standards to Support <a href="#">FERC Order No. 676-H</a> (Docket No. RM05-5-022)</b>		
a) Consistent with FERC Order Nos. 890 and 676-H, modify NAESB standards WEQ-001-14.1.3 and WEQ-001-15.1.2 to provide for a one-day requirement for posting Available Transfer Capability narratives. (See ¶ 29). Status: Completed	1 <sup>st</sup> Q, 2015	OASIS
b) Modify NAESB standards WEQ-001-9.5, WEQ-001-10.5, and related standards to be consistent with the Commission’s policy in <i>Dynegy Power Marketing, Inc.</i> , 99 FERC ¶ 61,054 (2002) and <i>Entergy Services, Inc.</i> , 137 FERC ¶ 61,199 (2011), <i>order on reh’g and compliance</i> , 143 FERC ¶ 61,143 (2013), 148 FERC ¶ 61,209 (2014). (See ¶ 49). Status: Completed	1 <sup>st</sup> Q, 2015	OASIS
c) Revise NAESB standard WEQ-001-106.2.5 to clarify when Transmission Providers may refuse a request for terminating secondary network service based on the availability of capacity. (See ¶ 59). Status: Completed	1 <sup>st</sup> Q, 2015	OASIS
d) Consider Bonneville Power Administration comment concerning the treatment of a conditional point-to-point reservation included in a coordinated group when displaced through preemption. (See ¶ 65). Status: Completed	1 <sup>st</sup> Q, 2015	OASIS
<b>8. Develop and/or modify standards to support FERC Order Instituting Proceeding to Develop Electronic Filing Protocols for Commission Forms (Docket No. AD15-11-000)<sup>7</sup></b>		
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

industry, working through NAESB, to continue to look at additional business practice standards facilitating a transmission provider’s extension of its right to perform a reassessment.

<sup>7</sup> 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](https://www.naesb.org/pdf4/ferc041615_electronic_filing_protocols_forms.pdf)

Appendix D: NAESB 2015 Wholesale Electric Quadrant Annual Plan

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

Item Description	Completion <sup>i</sup>	Assignment <sup>ii</sup>
<b>9. Gas-Electric Coordination</b>		
a) Review FERC Order No. 809 ¶ 107 issued in Docket No. RM14-2-000 <sup>8</sup> 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 <sup>9</sup> The recommended direction will require board approval, for both the timeline to be pursued and the framework for standards development Status: Not Started	2016	Gas-Electric Harmonization Forum, NAESB Board of Directors, WEQ EC & WGQ EC
b) Resulting from the efforts of annual plan item 9(a), develop standards as needed and directed by the Board of Directors, which are specifically assigned to the WEQ Status: Not Started, dependent on completion of item 9(a).	2016	WEQ EC and relevant subcommittees

<sup>8</sup>FERC Order No. 809 can be found through the following hyperlink: <https://www.ferc.gov/whats-new/comm-meet/2015/041615/M-1.pdf>

<sup>9</sup>FERC 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.

**NORTH AMERICAN ENERGY STANDARDS BOARD  
2015 ANNUAL PLAN for the WHOLESale ELECTRIC QUADRANT  
As Proposed by the WEQ Annual Plan Subcommittee**

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**PROVISIONAL ITEMS**

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1. **Gas/Electric Coordination**
    - a) Conduct assessment to determine if Electric Industry Requirements documented in WEQ-011 Gas / Electric Coordination should be considered reliability requirements and transition to NERC.
  
  2. **Optional Work to Extend Existing Standards**
    - a) Prepare recommendations for future path for TLR<sup>20</sup> (Phase 2) in concert with NERC, which may include alternative congestion management procedures<sup>21</sup>. Work on this activity is dependent on completing 2010 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.
  
  3. **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 based on FERC Order No. 1000. ([NAESB Analysis of FERC Order No. 1000](#))
    - d) 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](#)<sup>22</sup>)
    - e) 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
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<sup>20</sup> 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.

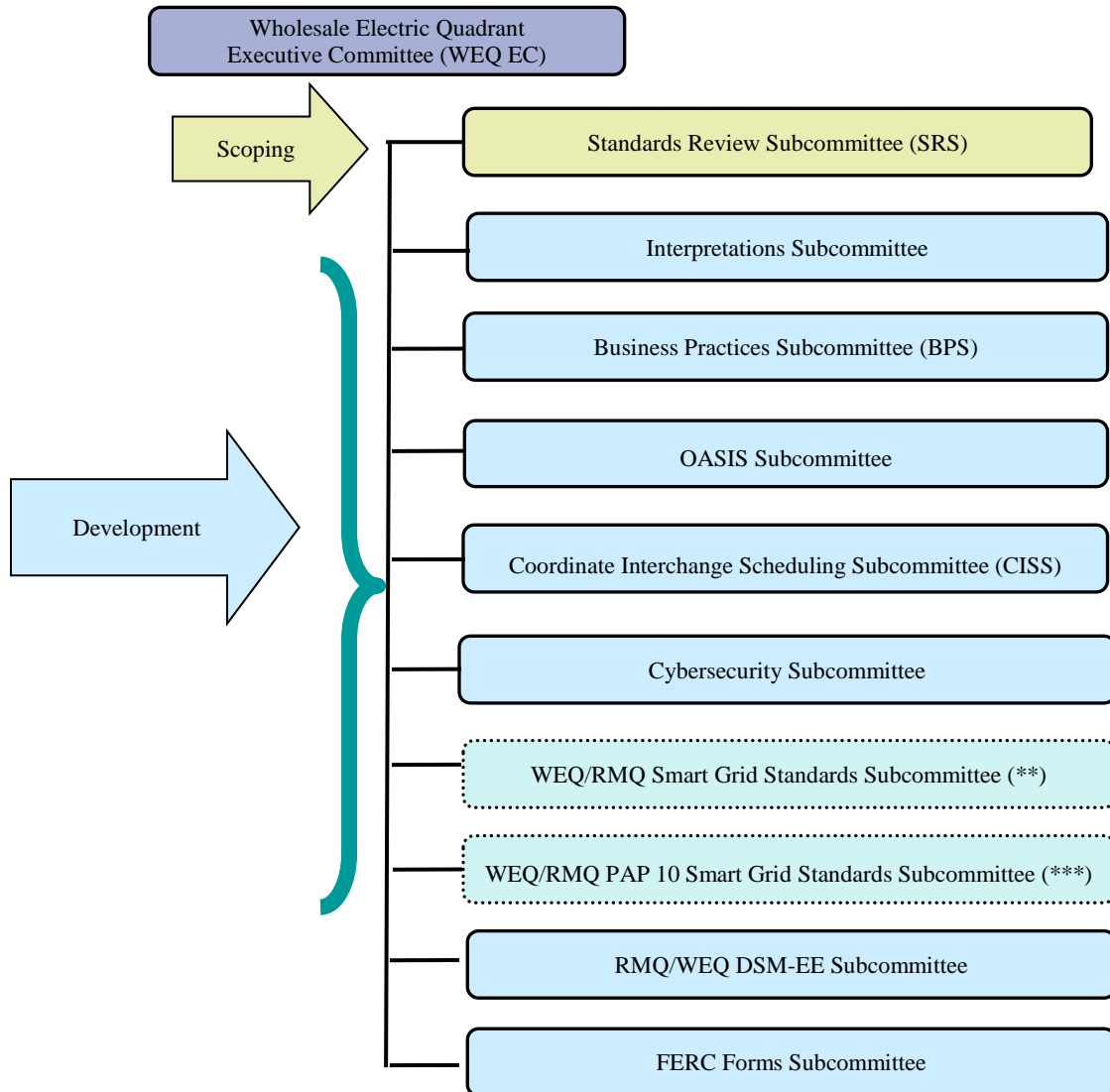
<sup>21</sup> For additional information, please see comments submitted by PJM and Midwest ISO for this Annual Plan Item: [http://www.naesb.org/pdf3/weq\\_aplan102907w1.pdf](http://www.naesb.org/pdf3/weq_aplan102907w1.pdf).

<sup>22</sup> For FERC Final Order No. 764, Docket No. RM10-11-000, specifically paragraph nos. 146 and 182 should be reviewed:

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.

**WHOLESALE ELECTRIC QUADRANT EXECUTIVE COMMITTEE AND SUBCOMMITTEE STRUCTURE**



**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) & Time and Inadvertent Management Task Force (TIMTF): 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) REQ/WEQ Subcommittee: Roy True (WEQ), Paul Wattles (WEQ), and Eric Winkler (RMQ)

FERC Forms Subcommittee (WEQ/WGQ): Leigh Spangler (WGQ), Dick Brooks (WEQ)

Appendix D: NAESB 2015 Wholesale Electric Quadrant Annual Plan

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.

**NORTH AMERICAN ENERGY STANDARDS BOARD  
 2016 Annual Plan for the Wholesale Gas Quadrant  
 Adopted by the Board of Directors on December 10, 2015**

Item Description	Completion <sup>i</sup>	Assignment <sup>ii</sup>
<b>1. Update Standards Matrix Tool for Ease of Use<sup>iii</sup></b>		
a. Update the reference tool developed for Version 2.1 to reflect modifications applicable to Version 3.0 Status: Not Started	1 <sup>st</sup> Q, 2016	IR/Technical
<b>2. Electronic Delivery Mechanisms</b>		
a. Review minimum technical characteristics in Appendices B, C, and D of the WGQ QEDM Manual, and make changes as appropriate. Status: Not Started	2016	EDM
<b>3. Gas-Electric Coordination</b>		
a. Review FERC Order No. 809 ¶ 107 issued in Docket No. RM14-2-000 <sup>1</sup> 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 <sup>2</sup> The recommended direction <sup>3</sup> will require two-step board approval, for both the timeline to be pursued and the framework for standards development. <sup>4</sup> Status: Not Started	2016	Gas-Electric Harmonization Forum, NAESB Board of Directors, WEQ EC & WGQ EC

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

<sup>2</sup>FERC 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.

<sup>3</sup> 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

<sup>4</sup> FERC 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.<sup>4</sup> 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)<sup>4</sup> 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.

**NORTH AMERICAN ENERGY STANDARDS BOARD  
 2016 Annual Plan for the Wholesale Gas Quadrant  
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<b>Item Description</b>	<b>Completion<sup>i</sup></b>	<b>Assignment<sup>ii</sup></b>
b. Resulting from the efforts of annual plan item 3(a), develop standards as needed and directed by the Board of Directors, which are specifically assigned to the WGQ. Status: Not Started, dependent on completion of item 3(a).	TBD	WGQ EC and relevant subcommittees
<b>4. Develop and/or modify standards to support FERC Order Instituting Proceeding to Develop Electronic Filing Protocols for Commission Forms (Docket No. AD15-11-000)<sup>5</sup></b>		
a. Develop business practices as needed to support electronic filing protocols for submittal of FERC Forms Status: Underway	TBD	Joint WEQ/WGQ FERC Forms Subcommittee
<b>5. Liquefied Natural Gas Master Agreement</b>		
a. Consider and determine if a NAESB Liquefied Natural Gas (LNG) Master Agreement is needed Status: Not Started	2016	WGQ Contracts
b. Develop the LNG Master Agreement according to the analysis completed in item 6.a. Status: Not Started, dependent on completion 5(a)	TBD	WGQ Contracts
<b>Program of Standards Maintenance &amp; Fully Staffed Standards Work</b>		
Business Practice Requests	Ongoing	Assigned by the EC <sup>iv</sup>
Continue review against plan for migration to ANSI ASC X12 new versions as needed and coordinate such activities with DISA.	Ongoing	Assigned by the EC <sup>3</sup>
Information Requirements and Technical Mapping of Business Practices	Ongoing	Assigned by the EC <sup>3</sup>
Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC <sup>4</sup>
Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC <sup>3</sup>
Maintenance of eTariff Standards	As Requested	Assigned by the EC <sup>4</sup>

**Provisional Activities**

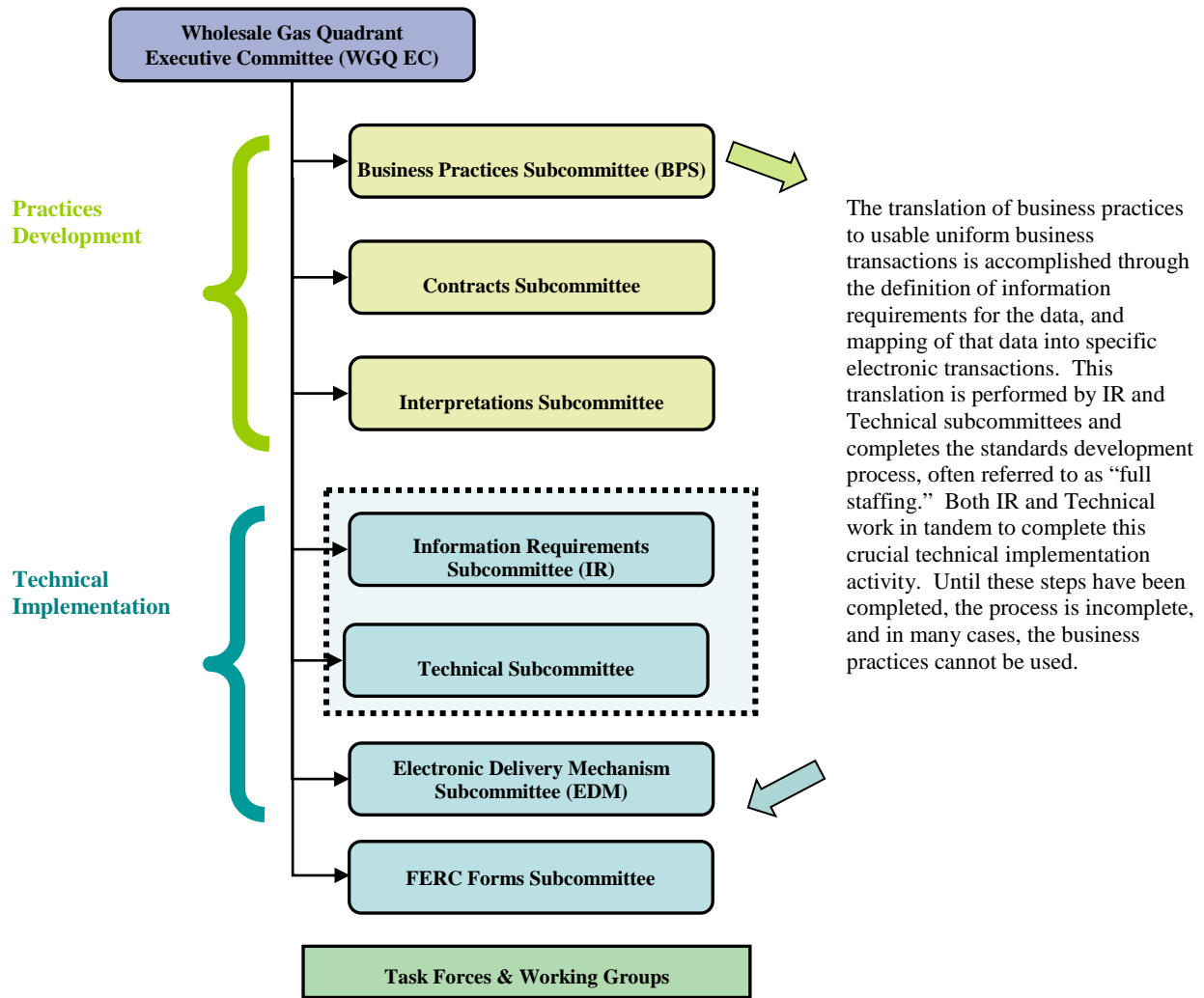
1. Develop standards as needed in support of Variable Energy Resources (VERs) final order (RM10-11-000). ([NAESB Comments 3-2-11](#), [FERC NOPR RM10-11-000](#), [FERC Final Order RM10-11-000](#)<sup>6</sup>) In review of the NAESB standards, the Gas/Electric Operational Communications Standards may require changes, and other standards may be required or modified to support gas-electric coordination.

<sup>5</sup>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](https://www.naesb.org/pdf4/ferc041615_electronic_filing_protocols_forms.pdf)

<sup>6</sup> For FERC Final Order, Docket No. RM10-11-000, specifically paragraph nos. 146 and 182 should be reviewed:

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.



**NAESB 2016 WGQ EC and Subcommittee Leadership:**

- Executive Committee: Jim Buccigross, Chair and Dale Davis, Vice-Chair
- Business Practices Subcommittee: Kim Van Pelt, Sylvia Munson, Willis McCluskey, Phil Precht, Ben Schoene
- Information Requirements Subcommittee: Dale Davis, Rachel Hogge
- Technical Subcommittee: Kim Van Pelt
- Contracts Subcommittee: Keith Sappenfield
- Electronic Delivery Mechanism Subcommittee: Leigh Spangler
- FERC Forms Subcommittee: Leigh Spangler, Dick Brooks



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

Item Description	Completion <sup>i</sup>	Assignment <sup>ii</sup>
<b>1. Develop business practices standards as needed to complement reliability standards</b>		
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. <sup>1</sup> 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. ( <a href="#">R11020</a> ) Status: Full Staffing	TBD	BPS
c) 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
<b>2. Develop business practice standards in support of the FERC RM05-25-000 and RM05-17-000 (OATT Reform)<sup>2</sup></b>		
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 <a href="#">Order No. 890 (Docket Nos. RM05-17-000 and RM02-25-000)</a> , ( <a href="#">Order No. 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002)</a> ), and <a href="#">Order No. 890-B (Docket Nos. RM05-17-03 and RM05-25-03)</a> “Preventing Undue Discrimination and Preference in Transmission Services”		

<sup>1</sup> 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.

<sup>2</sup> 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](http://www.naesb.org/doc_view4.asp?doc=ferc021607.doc).

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	<b>Item Description</b>	<b>Completion<sup>i</sup></b>	<b>Assignment<sup>ii</sup></b>
i)	Group 4: Preemption; Request No. <a href="#">R05019 (Part of Preemption and Competition)</a>		
	3) Short-Term Firm Preemption and Competition (OATT Section 13.2 and 14.2)		
	Status: Started	2016	OASIS
ii)	Group 6: Miscellaneous (Paragraph 1627 <sup>3</sup> of FERC Order No. 890)		
	3) Paragraphs 1627 of Order 890 – Posting of additional information on OASIS regarding firm transmission curtailments	TBD	OASIS/BPS
	Status: Started		
	4) Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services.	TBD	OASIS/BPS
	Status: Started		
<b>3.</b>	<b>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</b>		
a)	Make remaining incremental enhancements to OASIS as an outgrowth of the NAESB March 29, 2005 conference on the future of OASIS ( <a href="#">R05026</a> ). Scoping <a href="#">statement</a> 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.	TBD	OASIS/BPS
	Status: Started		
b)	Requirements for OASIS to use data in the Electric Industry Registry ( <a href="#">R12001</a> )	TBD	OASIS
	Status: Not Started		
<b>4.</b>	<b>Develop and/or maintain standard communication protocols and - cybersecurity business practices as needed.</b>		
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. <sup>4</sup>	2016	Cybersecurity Subcommittee
	Status: Not Started		
b)	Evaluate and modify standards as needed to support and/or complement the current version of the NERC Critical Infrastructure Protection Standards <sup>5</sup> and any other activities of the FERC related to cybersecurity.	2016	Cybersecurity Subcommittee
	Status: Not Started		

<sup>3</sup> 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.

<sup>4</sup> The "NAESB Accreditation Requirements for Authorized Certification Authorities" can be found at: [http://www.naesb.org/member\\_login\\_check.asp?doc=certification\\_specifications.docx](http://www.naesb.org/member_login_check.asp?doc=certification_specifications.docx).

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

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	<b>Item Description</b>	<b>Completion<sup>i</sup></b>	<b>Assignment<sup>ii</sup></b>
<b>5</b>	<b>Maintain existing body of Version 3.x standards</b>		
	a) Add language to WEQ-001-4 Online Negotiation and Confirmation process to clarify Table 4-3 ( <a href="#">R09003</a> ) 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 ( <a href="#">R09015</a> ) 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. ( <a href="#">R12006</a> ) 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
<b>6.</b>	<b>Develop and/or modify standards to support FERC Order Instituting Proceeding to Develop Electronic Filing Protocols for Commission Forms (Docket No. AD15-11-000)<sup>6</sup></b>		
	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
<b>7.</b>	<b>Gas-Electric Coordination</b>		
	a) Review FERC Order No. 809 ¶ 107 issued in Docket No. RM14-2-000 <sup>7</sup> 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 <sup>8</sup> The recommended direction <sup>9</sup> will require board approval, for both the timeline to be pursued and the framework for standards development. <sup>10</sup> Status: Not Started	2016	Gas-Electric Harmonization Forum, NAESB Board of Directors, WEQ EC & WGQ EC

<sup>6</sup> 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](https://www.naesb.org/pdf4/ferc041615_electronic_filing_protocols_forms.pdf)

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

<sup>8</sup> FERC 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.

<sup>9</sup> The steps for the GEH forum shall be:

(5) 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](#))

Appendix F: NAESB 2016 Wholesale Electric Quadrant Annual Plan

**NORTH AMERICAN ENERGY STANDARDS BOARD  
 2016 ANNUAL PLAN for the WHOLESale ELECTRIC QUADRANT  
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Item Description	Completion <sup>i</sup>	Assignment <sup>ii</sup>
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 Status: Not Started, dependent on completion of item 7(a).	TBD	WEQ EC and relevant subcommittees
<b>8. Demand Response</b>		
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	2016	DSM-EE Subcommittee

(6) 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

(7) Identify potential solutions to the issues identified in step 2

(8) Identify potential schedules for standards development including status and progress reports to the board

<sup>10</sup>FERC 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.<sup>10</sup> 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)<sup>10</sup> 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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**PROVISIONAL ITEMS**

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**1. Optional Work to Extend Existing Standards**

- a) Prepare recommendations for future path for TLR<sup>39</sup> (Phase 2) in concert with NERC, which may include alternative congestion management procedures<sup>40</sup>. 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.

**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<sup>41</sup>](#))
  - 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.
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<sup>39</sup> 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.

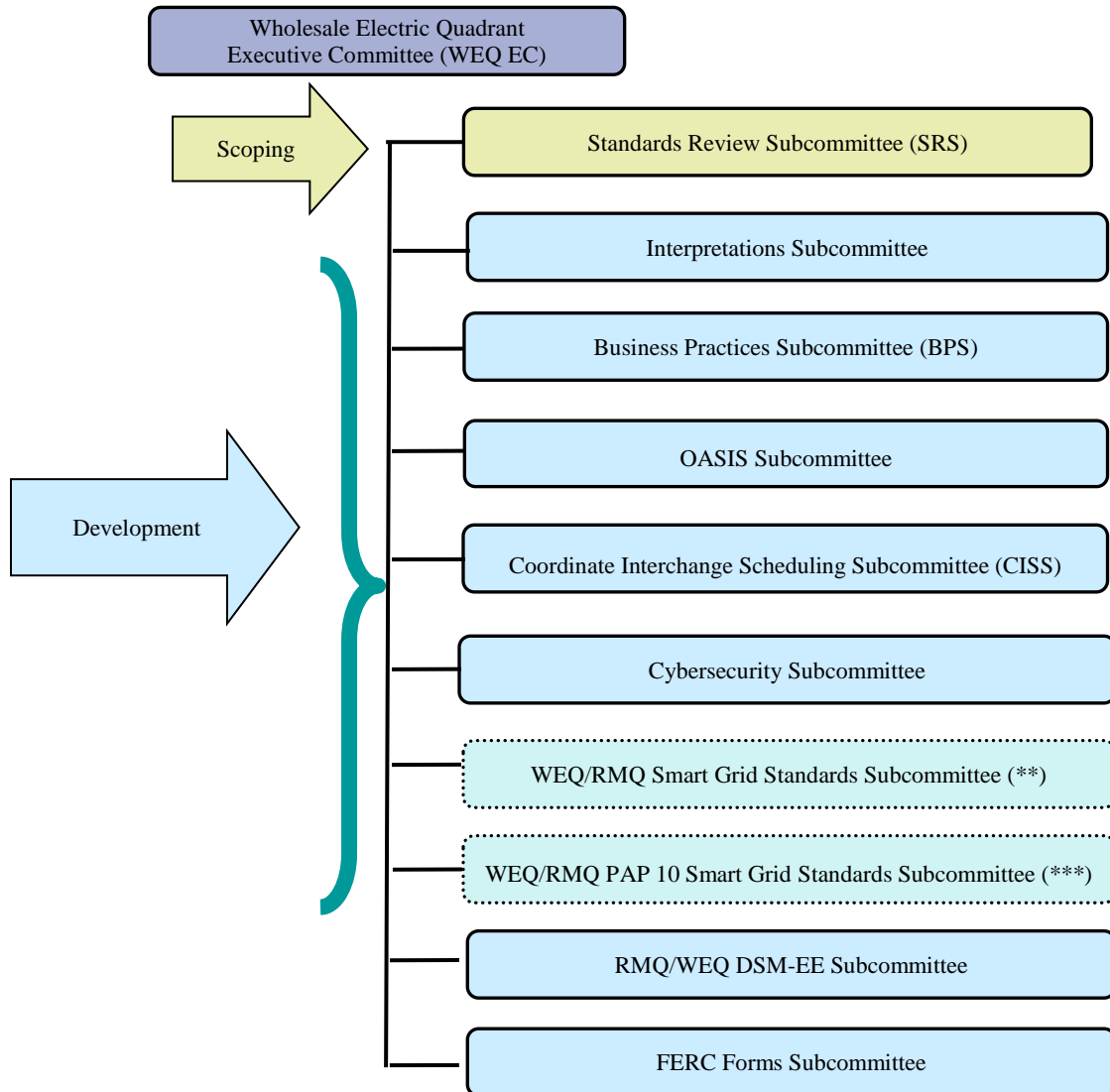
<sup>40</sup> For additional information, please see comments submitted by PJM and Midwest ISO for this Annual Plan Item: [http://www.naesb.org/pdf3/weq\\_aplan102907w1.pdf](http://www.naesb.org/pdf3/weq_aplan102907w1.pdf).

<sup>41</sup> For FERC Final Order No. 764, Docket No. RM10-11-000, specifically paragraph nos. 146 and 182 should be reviewed:

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.

**WHOLESALE ELECTRIC QUADRANT EXECUTIVE COMMITTEE AND SUBCOMMITTEE STRUCTURE**



**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)

Appendix F: NAESB 2016 Wholesale Electric Quadrant Annual Plan

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.

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**End Notes, WGQ 2015 Annual Plan:**

<sup>i</sup> Dates in the completion column are by end of the quarter for completion by the assigned committee. 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.

<sup>ii</sup> The assignments are abbreviated. The abbreviations and committee structure can be found at the end of the annual plan document.

<sup>iii</sup> As implementation of business issues are presented to the Information Requirements Subcommittee and Technical Subcommittee, those issues will be given precedence over WGQ 2015 Annual Plan Item No. 1.

<sup>iv</sup> The EC assigns maintenance of existing standards on a request-by-request basis.

**End Notes WEQ 2015 Annual Plan:**

<sup>i</sup> 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.

<sup>ii</sup> The assignments are abbreviated. The abbreviations and sub-committee structure can be found at the end of the annual plan document.

**End Notes, WGQ 2016 Annual Plan:**

<sup>i</sup> Dates in the completion column are by end of the quarter for completion by the assigned committee. 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.

<sup>ii</sup> The assignments are abbreviated. The abbreviations and committee structure can be found at the end of the annual plan document.

<sup>iii</sup> As implementation of business issues are presented to the Information Requirements Subcommittee and Technical Subcommittee, those issues will be given precedence over WGQ 2016 Annual Plan Item No. 1.

<sup>iv</sup> The EC assigns maintenance of existing standards on a request-by-request basis.

**End Notes WEQ 2016 Annual Plan:**

<sup>i</sup> 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.

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