



NORTH AMERICAN ENERGY STANDARDS BOARD

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July 7, 2011

Filed Electronically

Ms. Kimberly Bose
Secretary
Federal Energy Regulatory Commission
888 First Street N.E., Room 1A
Washington, D.C. 20585

RE: Submittal of Smart Grid Related Standards (Docket No. RM05-5-000, et al)

Dear Ms. Bose:

The North American Energy Standards Board ("NAESB") submits this report to the Federal Energy Regulatory Commission ("FERC" or "Commission") regarding the NAESB smart grid standards developed at the request of the National Institute of Standards and Technology ("NIST") and the Smart Grid Interoperability Panel ("SGIP") in response to priority action plans 03, 04, 09 and 10. This report is voluntarily submitted by NAESB in Docket No. RM05-5-000. The NAESB smart grid standards related to Priority Action Plan 10 were ratified by NAESB membership on November 29, 2010 and the NAESB smart grid standards related to Priority Action Plans 03, 04 and 09 were ratified by NAESB membership on March 21, 2011. All NAESB smart grid standards are available as final actions. We very much appreciate the time, knowledge and industry leadership provided by all participants, both members and non-members, and look forward to the further development of smart grid related business practice standards, if directed to do so by the Commission, NIST, the SGIP or the industry.

The report is being filed electronically in Adobe Acrobat® Portable Document Format (.pdf). All of the documents are also available on the NAESB web site (www.naesb.org). Please feel free to call me at (713) 356-0060 or refer to the NAESB website (www.naesb.org) should you have any questions or need additional information regarding the NAESB smart grid standards or any other NAESB work products.

Respectfully submitted,

Rae McQuade

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



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Mr. William E. Murrell, Deputy Director, Division of Economic and Technical Analysis, Office of Energy Policy and Innovation, Federal Energy Regulatory Commission

Mr. George Arnold, National Coordinator for Smart Grid Interoperability, National Institute of Standards and Technology.

Mr. Dave Wollman, Leader, Electrical Metrology Groups, National Institute of Standards and Technology.

Ms. Valerie Crockett, Chairman and CEO, North American Energy Standards Board

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

Mr. J. Cade Burks, Vice Chairman – REQ, North American Energy Standards Board

Enclosures (all documents noted in the appendices are available publicly on the NAESB web site – www.naesb.org):

Appendix A Smart Grid Distribution Lists

Appendix B WEQ/REQ Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan 10 Standards Task Force Meeting Minutes Links

Appendix C Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts

Appendix D Ratification Ballots and Results Links

Appendix E 2009 Wholesale Electric Quadrant Annual Plan

Appendix F 2010 Wholesale Electric Quadrant Annual Plan

Appendix G NAESB Process for Standards Development

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

**Standards for Business Practice and)
Communication Protocols for Public Utilities)**

Docket No. RM05-5-000

REPORT OF THE NORTH AMERICAN ENERGY STANDARDS BOARD

The North American Energy Standards Board ("NAESB") is voluntarily submitting this report in accordance with the Commission's Orders in the above referenced docket.

I. NAESB Involvement in the Smart Grid

In the spring of 2009, at the request of the NAESB Advisory Council, NAESB leadership met with Dr. George Arnold, the National Coordinator for Smart Grid Interoperability for the National Institute of Standards and Technology ("NIST"), and offered to support NIST in its fulfillment of obligations under the Energy Independence and Security Act of 2007 ("EISA")¹. At the recommendation of NIST leadership, NAESB participated in the NIST hosted summer workshops of 2009 and received assignments related to priority action plan 03 (Common Price Communication Model)², priority action plan 04 (Common Scheduling Mechanism)³ and priority action plan 09 (Standardized Demand Response and Distributed Energy Resource Signals)⁴. Specifically, NAESB was asked to develop communication use cases and data requirement standards related to each priority action plan as well as ancillary tasks to leverage existing work products and encourage collaboration with other organizations. In response to these assignments and at the direction of the NAESB Board of Directors, the NAESB Wholesale Electric Quadrant ("WEQ") and Retail Electric Quadrant ("REQ") Executive Committees formed the joint WEQ and REQ Smart Grid Standards Development Subcommittees to address the assignments and solicited co-chairs for the joint subcommittee. Representatives from ISO New England, NRG Energy, Consumers Energy and Xtensible Solutions volunteered to serve as co-chairs and lead the NAESB effort.

The NAESB Board of Directors recommended that the standards development effort be addressed jointly between the REQ and WEQ, recognizing the multi-market impacts that may be realized as standards to support smart grid applications are developed. The NAESB Board of Directors, through a board resolution⁵, requested that the NAESB smart grid standards developed by the REQ and WEQ Executive Committees strive to be consistent across markets in all areas excepting where there are substantive jurisdictional differences. As such, the NAESB

¹ EISA § 1305(d), Public Law No. 110-140, 121 Stats. 1492, 1788 (2007) (to be codified at 15 U.S.C. § 1735(d))

² NIST Smart Grid Collaboration Wiki Smart Grid Interoperability Panel Site for Priority Action Plan 03 is available at <http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/PAP03PriceProduct>.

³ NIST Smart Grid Collaboration Wiki Smart Grid Interoperability Panel Site for Priority Action Plan 04 is available at <http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/PAP04Schedules>

⁴ NIST Smart Grid Collaboration Wiki Smart Grid Interoperability Panel Site for Priority Action Plan 09 is available at <http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/PAP09DRDER>.

⁵ The June 24, 2010 NAESB Board Meeting Final Minutes are available at <http://www.naesb.org/pdf4/bd062410fm.doc>

smart grid standards related to priority action plans 03, 04, 09 and 10 (Standard Energy Usage Information)⁶ have been developed by volunteers in both the retail and wholesale electric markets but have resulted in standards that are specific to each market respectively.

Working through the NIST priority action plan process NAESB was asked to coordinate with external standards setting organizations such as the Organization for the Advancement of Structured Information Standards (“OASIS”)⁷, the ZigBee Alliance⁸, the UCA International Users Group⁹, FIX Protocol¹⁰, CalConnect¹¹ and Lawrence Berkley National Laboratory¹², among others. Specific to priority action plans 03, 04 and 09, NAESB was asked by NIST to make the NAESB use case and data requirement standards available to the OASIS Technical Committees responsible for developing the specifications based upon the NAESB data requirements in fulfillment of their obligations under the priority action plans. As the NAESB effort and the effort of the OASIS Technical Committees to develop specifications based upon the NAESB data requirements were underway simultaneously, the two organizations took a waterfall approach to the standards development by encouraging overlap between the participants of the NAESB subcommittee and OASIS Technical Committees, while completing the work in phases. The NAESB subcommittee completed its obligations related to priority action plans 03, 04 and 09 through a two phase approach. NAESB developed an initial set of use cases and data requirements within the timeline originally specified in the priority action plans and made those recommendations available to the OASIS Technical Committees in an effort to initiate their work on the related specifications as quickly as possible. The NAESB Smart Grid Standards Development Subcommittee completed the phase two recommendations and satisfied its obligations under the priority action plans 03, 04 and 09 in November 2010.

In January 2010, as the NAESB Smart Grid Standards Development Subcommittee addressed phase one of priority action plans 03, 04 and 09, the Smart Grid Interoperability Panel (“SGIP”)¹³ asked NAESB to conduct an industry survey to determine the current energy usage communications between energy suppliers, consumers and third party service providers as part of priority action plan 10 (Standard Energy Usage Information). In May 2010, the assignments related to PAP10 were restructured by the SGIP in response to the urging of the Administration to produce a single standard information model for energy usage. NAESB was designated as the standards development organization to develop the standard and asked to complete it by year end 2010. The SGIP requested that NAESB leverage the work products of external standards setting organizations and strive to create an information model that is compatible with, or may be mapped to, the Open ADE 1.0 Specification, Smart Energy Profile 2.0, the EIS Alliance Requirements documents and the IEC TC57 Common Information Model. In response to this request, NAESB created the joint REQ and WEQ Smart Grid Standards Subcommittee and hosted its first conference call on June 22, 2010. In an effort to ensure that the standard developed by the subcommittee was

⁶ NIST Smart Grid Collaboration Wiki Smart Grid Interoperability Panel Site for Priority Action Plan 10 is available at <http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/PAP10EnergyUsagetoEMS>

⁷ The Organization for the Advancement of Structured Information Systems website is available at <http://www.oasis-open.org>

⁸ The ZigBee Alliance website is available at <http://www.zigbee.org>

⁹ The UCA International Users Group website is available at <http://www.ucaiug.org/default.aspx>

¹⁰ The FIX Protocol website is available at <http://www.fixprotocol.org>

¹¹ The CalConnect website is available at <http://www.calconnect.org>

¹² The Lawrence Berkley National Laboratory website is available at <http://www.lbl.gov>

¹³ The SGIP was formed in November of 2009 to act as a consensus body of industry participants and support NIST in the fulfillment of its obligations under EISA 2007

properly coordinated with the identified standards setting organizations, the NAESB REQ and WEQ Executive Committees provided leadership positions within the subcommittee for representatives from the various stakeholder organizations. The resulting NAESB Energy Usage Information Model was ratified by the NAESB membership on November 29, 2010 and is currently being considered for inclusion in the SGIP catalog of standards. The standards resulting from these NAESB efforts will be included in the future publication of the WEQ Version 2.2 NAESB Standards and have been included in the REQ Version 1.3 NAESB Standards.

II. Smart Grid Standards Development Subcommittee

a. Priority Action Plan 03 – Common Price Communication Model

As requested by NIST through priority action plan 03, the Smart Grid Standards Development Subcommittee held their first meeting jointly with FIX Protocol in September 2009. During this meeting, and subsequent meetings through October, the NAESB subcommittee and leadership from FIX Protocol developed a scope of work and seminal work papers from which a product definition for electrical energy and a price communication format could be developed. The seminal work papers, developed collaboratively, served as the base documentation for the development of the phase one requirements specification for a common electricity product and price definition recommendation developed by the Smart Grid Standards Development Subcommittee to support priority action plan 03. This work was completed through a phased approach in effort to comply with the NIST imposed deadlines and to provide an initial work product from which the OASIS technical committee responsible for the development of a specification based upon the NAESB data requirements could begin their work. The parallel work process in the NAESB subcommittee and the OASIS technical committee was only possible through the close coordination of the two standards organizations and a crossover participation in both the subcommittee and technical committee. Through the phase one of the effort, the subcommittee developed a set of use cases to describe price communication scenarios related to shifts in demand and environmental and economic changes. These use cases were then used to develop the price attributes and product identification information or data requirements necessary to communicate price. As a second phase, the subcommittee refined both the use cases and the data requirements in an effort to create a more complete robust standard.

Between September 1, 2009 and February 18, 2010, when the phase one recommendation was unanimously approved by the Smart Grid Standards Development Subcommittee and posted for a thirty-day formal comment period, the subcommittee held sixteen conference calls, two meetings and two informal comment periods. The recommendations were reviewed by the REQ and WEQ Executive Committees on June 7, 2010 in a single topic review session and then considered for vote on June 16, 2010, during which the REQ recommendation was approved and later ratified by the REQ membership on July 30, 2010. The WEQ recommendation was distributed for a notational ballot period which closed on June 25, 2010, but, as not enough votes were received to make a determination on the recommendation, a subsequent meeting was scheduled for July 7, 2010 to reconsider the recommendation and the modifications made during the June 16, 2010 single topic conference call. On July 7, 2010, the WEQ Executive Committee reconsidered the recommendation in light of the June 24, 2010 Board Resolution¹⁴ and once again voted on the recommendation. The recommendation passed the required super-majority

¹⁴ See *supra* note 5

voting threshold through a notational ballot on July 16, 2010 and was ratified by the membership on August 20, 2010.

On March 4, 2010, immediately after the phase one recommendation was voted out of subcommittee, the Smart Grid Standards Development Subcommittee began meeting to discuss the direction of the phase two effort and the process by which the phase one use cases and data requirements should be refined. The subcommittee held seventeen conference calls and one meeting before approving the recommendation and posting it for the formal comment period on October 14, 2010. The phase two REQ recommendation was reviewed and approved by the REQ Executive Committee on February 2, 2011 and ratified by the membership on March 21, 2011. The WEQ recommendation was considered by the by the WEQ Executive Committee on February 1, 2011 and approved through notational ballot on February 18, 2011. The WEQ final action was also ratified by the membership on March 21, 2011. Through the phase two process, the REQ and WEQ phase two recommendations have been made nearly identical as there are no substantive jurisdictional implications in the implementation of the data requirement standards.

On December 10, 2010, the NAESB Smart Grid Standards Development Subcommittee met with the OASIS Technical Committee responsible for developing the price communication specification based upon the data requirements included in the NAESB standards. During this meeting, leadership from the OASIS Technical Committee reviewed the eMIX specification¹⁵ and identified how the NAESB data requirement standards to support priority action plan 03 were incorporated into their work products. The eMIX specification is still under development but will be made available to the SGIP upon completion in satisfaction of the obligations required by priority action plan 03.

b. Priority Action Plan 04 – Common Scheduling Mechanism

The Smart Grid Standards Development Subcommittee initiated efforts to address the NAESB responsibilities related to priority action plan 04 on October 22, 2009. Through discussion, the subcommittee determined that the date and time based data requirements should be limited in scope to those used in demand response programs. This direction was communicated to NIST representatives and deemed appropriate and in compliance with the priority action plan 04 tasks assigned to NAESB. A draft recommendation describing date and time-based data elements and usage examples of those data elements was reviewed by the subcommittee on October 29, 2009 and distributed for an informal comment period the following week. The subcommittee held ten conference calls and an additional informal comment period and on January 28, 2010 the subcommittee unanimously approved the phase one requirements specification for a common scheduling mechanism recommendation developed to support priority action plan 04. The draft recommendations were immediately made available to the OASIS WS Calendar Technical Committee¹⁶ responsible for incorporating the data element requirements developed by the NAESB subcommittee and including them in their scheduling specification.

The phase one recommendations were reviewed by the REQ and WEQ Executive Committees on June 7, 2010 in a single topic review session and then considered for vote on June 16, 2010. During the June 16, 2010 meeting, the REQ recommendation was approved and subsequently ratified by the membership on July 30, 2010,

¹⁵ The OASIS eMIX Technical Committee website is available at <http://www.oasis-open.org/committees/emix>

¹⁶ The OASIS WS Calendar Technical Committee website is available at <http://www.oasis-open.org/committees/ws-calendar>

but due to a lack of determinative votes a notational ballot was distributed to adopt the WEQ recommendation. The WEQ recommendation was adopted by the Executive Committee on June 25, 2010, but was subsequently rescinded and reviewed by the Executive Committee in light of the June 24, 2010 board resolution¹⁷. The revised WEQ phase one recommendation was approved via notational ballot on July 16, 2010 and ratified by the membership on August 20, 2010.

As part of the phase two effort, very few modifications were made to the phase one requirements specification for a common scheduling mechanism recommendation. No modifications were made to the date and time-based data elements and usage examples of those data elements included in the original recommendation and only a few modifications to the clarifying language included in the recommendation were offered. The subcommittee held three conference calls to refine the language included in the phase two recommendations and voted the recommendations out of subcommittee on October 14, 2010. The REQ Executive Committee reviewed and approved the REQ recommendation on February 2, 2011, and the recommendation was ratified by the membership on March 21, 2011. The WEQ recommendation was considered by the WEQ Executive Committee on February 1, 2011 and approved through notational ballot on February 18, 2011. The WEQ final action was ratified by the membership on March 21, 2011. As with the requirements specification for a common electricity product and price definition standard to support priority action plan 03, the REQ and WEQ phase two recommendations to support priority action plan 04 have been made nearly identical as there are no substantive jurisdictional implications in the implementation of the standards.

c. Priority Action Plan 09 – Standardized Demand Response and Distributed Energy Resources Signals

As with priority action plan 03 and priority action plan 04, NAESB was given the task of developing use cases and data requirement standards to support priority action plan 09. The Smart Grid Standards Development Subcommittee held their first meeting to address the priority action plan 09 obligations on September 2, 2009 to discuss the current external efforts that have been initiated related to demand response and distributed energy resources signaling. Within a month of the first meeting, and through the collaboration of shared participants in the NAESB subcommittee, Open Automated Demand Response (Open ADR) participants and members of the UCAiug, the subcommittee developed a document that described the contextual framework for demand response and was used to guide and prioritize the use case and data requirements analysis¹⁸. The document served as a basis for the REQ phase one draft recommendation.

During this time, the subcommittee became aware that a parallel effort to develop standardized demand response signals within the wholesale markets was underway within the Independent System Operator / Regional Transmission Organizations Council (IRC). In effort to eliminate duplicative work products and to leverage the subcommittee's and IRC's work to date, the subcommittee held a three-day face-to-face meeting where the two groups reviewed each others work and discussed the process by which the IRC project could be incorporated into the NAESB effort. At this meeting, the subcommittee determined that, given the structural and operational differences between the retail and wholesale markets, the subcommittee should develop coordinated yet separate recommendations for the two markets. This approach was facilitated by the joint development of a shared entity

¹⁷ See *supra* note 5

relationship model, which has been included in all of the final actions to support priority action plan 03, 04 and 09 as an appendix, and through a common set of use case actors and definitions for both the retail and wholesale standards. A phased approach was used to develop the recommendations as described for priority action plan 03 and 04.

To develop the wholesale phase one recommendations the subcommittee held a total of twenty conference calls, two meetings and two informal comment periods between September 2009 and February 5, 2010 when the wholesale recommendation was unanimously voted out of the subcommittee and posted for the thirty-day formal comment period. As with the recommendations to support priority action plans 03 and 04, the phase one wholesale and retail recommendations were reviewed by the REQ and WEQ Executive Committees on June 7, 2010 in a single topic review session and considered for vote on June 16, 2010. The retail recommendation was adopted by the REQ Executive Committee during that meeting, and the wholesale recommendation was subsequently adopted via notational ballot on July 16, 2010, after reconsideration in light of the June 24, 2010 Board resolution¹⁹.

Upon adoption of the phase one recommendation by the subcommittee, the recommendation was made available to the members of the OASIS Energy Interoperation Technical Committee so that they could begin their work to address their responsibilities related to priority action plan 09. As with priority action plan 03, the subcommittee immediately began phase two of the effort to both expand the data requirements that had been developed during phase one and to more closely align the wholesale and retail recommendations. As part of the phase two effort, the subcommittee held 13 conference calls and one two-day meeting to develop the recommendation, which was unanimously approved on October 14, 2010. The REQ Executive Committee reviewed and approved the REQ recommendation on February 2, 2011, and the recommendation was ratified by the membership on March 21, 2011. The WEQ recommendation was considered by the WEQ Executive Committee on February 1, 2011 and approved through notational ballot on February 18, 2011. The WEQ final action was ratified by the membership on March 21, 2011. The wholesale final action describes, through the use of diagrams, the requirements for standardizing the information exchanged during interactions between the System Operator and various Market Participants for the administration and deployment of demand response resources. The final action contains common terminology from the NAESB Measurement and Verification Standards for Demand Response and has been coordinated with the retail final action.

d. Master Data Element List

During the development of the phase two recommendations to support priority action plans 03, 04 and 09, the subcommittee determined that it would be beneficial to create a matrix containing the data elements identified in the priority action plans 03 and 09 recommendations. The purpose of the matrix is to identify specific applications of the data elements to the use cases developed in the recommendations to support priority action plan 03 and 09. To develop the matrix, the subcommittee held 19 conference calls and one meeting between March and October 2010. The matrix was reviewed by the WEQ and REQ Executive Committees in conjunction with the phase two recommendations to support priority action plans 03, 04 and 09 on February 1, 2011 and February 2, 2011, respectively. The REQ recommendation was adopted by the REQ Executive Committee on February 2, and ratified

¹⁸ The Archived Framework for Integrated DR and DER Models is available at http://www.naesb.org/pdf4/smart_grid_ssd022510a1.doc

¹⁹ See *supra* note 5

by on March 21, 2011. The WEQ recommendation was adopted the WEQ Executive Committee through notational ballot on February 18, 2011 and ratified on March 21, 2011. The REQ and WEQ final actions are identical and included all retail and wholesale data elements.

III. Priority Action Plan 10 – NAESB Energy Usage Information Model (timeline, freely available)

In January 2010, NAESB was asked by the SGIP to develop a survey regarding the current practice of usage communications between energy suppliers and consumers, including providers of intermediary services to initiate the process of developing a standard to support priority action plan 10. The Smart Grid Standards Development Subcommittee responded to the request and developed a survey that was distributed to the NAESB membership, among other recipients, on April 12, 2010 and returned on April 30, 2010. The subcommittee processed the results of the survey and made them available to the SGIP on July 30, 2010²⁰.

In May 2010, while the Smart Grid Standards Subcommittee was working on the survey, the SGIP renewed focus on the development of a single standard information model for energy usage to support priority action plan 10, and, as a result, the tasks assigned to the various standards setting organizations involved in priority action plan 10 were restructured. Through meetings held in conjunction with the spring 2010 SGIP meeting, NAESB was approached and asked to serve as the standards development organization to develop the information model and was asked to have the standard adopted through the NAESB standards development process by the end of the year. In response, the joint REQ and WEQ Smart Grid Standards Subcommittee on Priority Action Plan 10 was created and held its first meeting on June 22, 2010. The subcommittee was co-chaired by eight representatives from the UCA International Users Group, American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), ZigBee Alliance, National Association of Regulatory Utility Commissioners, EIS Alliance, OASIS, and the NAESB Wholesale and Retail Electric Quadrants. As requested by the SGIP, the subcommittee leveraged the work of an SGIP-developed white paper that proposed a straw model based upon the requirements of several existing work products, including specifications related to Open ADE 1.0, Smart Energy Profile 2.0 and the EIS Alliance Requirements document.

Between June 22, 2010 and August 31, 2010, when both the REQ and WEQ Energy Usage Information Model were unanimously adopted, the subcommittee held a total of fifteen conference calls and a one week informal comment period. The recommendations were reviewed by the WEQ and REQ Executive Committees on October 15, 2010 and considered for vote on October 22, 2010. The REQ recommendation was adopted by the Executive Committee during the October 22, 2010 meeting, and the WEQ recommendation was adopted through notational ballot on October 29, 2010. Both recommendations were ratified by the membership on November 29, 2010 and presented at the fall 2010 SGIP meeting the same week.

The resulting information models contained in both the REQ and WEQ recommendations are identical and were developed jointly by the NAESB to ensure compatibility while respecting the regulatory structure of the energy markets. The energy usage information model serves as a “seed standard” and focuses on the representation of energy usage information, which includes historic, present and future projected usage and load for specific time periods. The standard defines a common data format of classes and attributes to communicate

²⁰ The NAESB Smart Grid PAP10 Survey Results are available at http://www.naesb.org/pdf4/naesb_smart_grid_pap10_survey_results.pdf

information between utilities, third parties, and energy use customers, via customer devices and/or third-party energy services providers and enables the exchange of detailed energy information in a consistent format for use by all parties. On January 28, 2011 the SGIP Governing Board voted to approve the standards and recommended that they be considered for inclusion in the SGIP Catalog of Standards.

Other Smart Grid Related Standards Development Efforts Currently Underway

As previously noted, the NAESB energy usage information Model was developed to serve as a “seed” standard from which other standards and schemas may be developed. Within NAESB, the REQ Energy Services Provider Interface Task Force is currently developing a standard for the exchange of energy usage information between designated parties and will build upon the energy usage information model. The specification is targeted to apply to communications between utility providers, third parties and consumers, based upon the use cases and requirements identified in the 3PDA and Open ADE 1.0 specifications. The request for standards development was submitted by the Open ADE Task Force within the UCA International Users Group and the task force is co-chaired by representatives from Tendril and Xtensible Solutions. The effort is scheduled to be complete, at the task force level, by the end of the third quarter 2011.

The REQ is also addressing NAESB request R10012 submitted by Reliant Energy in December 2010, which calls for the development of model business practices that will set forth standards for the release of consumer information to third parties and the privacy policies and practices those third parties should employ. In response to the request, the REQ created the Data Privacy Task Force, which approved a recommendation that is currently out for the thirty-day formal comment period. The recommendation offers model business practices that incorporate many of the recommendations included in published reports on the subject by state commissions, the Department of Energy, the Department of Commerce, NIST and the FCC, among others. The task force, co-chaired by NARUC and the Public Utility Commission of Texas, met once more in June to develop a set of late comments in response to the comments received during the formal comment period for REQ Executive Committee consideration in a review session on June 30, 2011 and vote on July 7, 2011.

IV. Participation

As with all NAESB meetings, participation within the subcommittees and task forces that developed the smart grid related standards was open to anyone wishing to participate regardless of membership status. The NAESB practice of allowing non-members to draft and vote on standards at the subcommittee and task force level is in place to ensure compliance with the NAESB principles of openness and inclusivity and forms an important part of NAESB’s American National Standards Institute accreditation. Participation in all NAESB meetings and conference calls is made freely available to anyone within the continental United States through telephone and web based participation in addition to the option to submit comments during the standards development process. These policies played a vital role in the development of the NAESB smart grid standards, as a majority of participation was from non-members and, in some cases, from those outside of the traditional energy industry.

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Rich Scholer, Ford Motor Company	Robert Uyeki, HRA/ASC/Honda
Camilo Sema, Northeast Utilities	Ron Vader, DTE Energy
Peter Sergejewich, IESO	Steve Van Ausdall, Xtensible Solutions
Kenneth C. Shiver, Southern Company Services	Chris Villarreal, California Public Utilities Commission
Allan Shub, Duke Energy	Dr. Kenneth P. Wacks, Gridwise Architecture Council
Tom Simchak, Alliance to Save Energy	Alice Walker, American Municipal Power, Inc.
Mark Simon, Exelon Corporation	Sue Walsh, Bonneville Power Administration
Robby Simpson, General Electric	Matt Wakefield, EPRI
Corey Singletary, Wisconsin Public Service Commission	Joseph G. Waligorski, FirstEnergy Technologies
Paul Skare, Siemens	Claude Warren, NREL
Ed Skiba, Midwest ISO Charles Smith, General Electric	Andrew Watson, Transaction Network Services Limited
Rick Smead, Navigant Consulting, Inc.	Dave Watson, Lawrence Berkeley National Laboratory
Brian P. Smith, EnerNex Corporation	Paul Wattles, ERCOT
Deke Smith, National Institute of Building Sciences	Greta Weathersby, Integrys Business Support, LLC
Aaron Snyder, EnerNex	Cathy Wesley, PJM
Isabelle B. Snyder, Oak Ridge National Laboratory	Mark Westendorf, Midwest ISO
Rodney Sobin, Alliance to Save Energy	Craig Whittle, Sharp Labs of America
Anan Sokker, Florida Power & Light	Tonja Wicks, Florida Power & Light Co.
Pornsak Songkakul, Siemens Building Technologies	Steve Widergren, Pacific Northwest National Laboratory
Paul Sorenson, OATI	Mark Williamson, DTE Energy
Manfred Staebler, BSH Home Appliances Corporation	Dave Wilson, Trane Commercial Systems
Debra Stephens, Dominion	Eric Winkler, ISO New England
Scott Sternfeld, FirstEnergy Corp.	Paul Wintrode, BSH Home Appliances Corporation
	Leighton Wolffe, Wolffe Technology Consultants

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NAESB Wholesale Electric Quadrant Smart Grid Standards

Appendix A-1: Smart Grid Distribution List
July 7, 2011

DISTRIBUTION LIST SORTED BY NAME

David A. Wollman, National Institute of Standards and
Technology
John Wood, Southwest Research Institute
Christine Wright, Public Utilities Commission of Texas
Charles Yeung, Southwest Power Pool
Kathy York, Tennessee Valley Authority

Tracy Yount, Pacific Northwest National Laboratory
Tim Zgonena, Underwriters Laboratories, Inc.
Joe Zhou, Xtensible Solutions
Mary Zientara, Reliant Energy
Jeremy Zins, Williston Basin Interstate Pipeline

Report of the North American Energy Standards Board – Enclosures
NAESB Wholesale Electric Quadrant Smart Grid Standards

Appendix A-2: Smart Grid PAP 10 Standards Task Force Distribution List
July 7, 2011

DISTRIBUTION LIST SORTED BY ORGANIZATION

Roy True, ACES Power Marketing
Randy Lowe, AEP
Edward Koch, Akuacom
Judy Ray, Alabama Power
Bill Swan, Alerton/Honeywell
Ray Phillips, AMEA
George Bjelovuk, American Electric Power
Nathan Mitchell, American Public Power Association
Tarie Hansen, Arizona Public Service Company
Dave Robin, Automated Logic Corporation
Leonard C. Tillman, Balch & Bingham LLP
Phil Precht, Baltimore Gas & Electric Co.
Phil Beecher, Beecher Comms Consultants Ltd
Frank Brown, Bonneville Power Administration
Rod Kelley, Bonneville Power Administration
Mark Symonds, Bonneville Power Administration
Joelle K. Ogg, Brunenkant & Cross, LLP
Matthew M. Burkmier, Calico Energy
Sean Crimmins, California ISO
Gerald R. Gray, CIMple Integrations
Jim Cargas, City of Houston
Matthew Laherty, CISCO
Wendell Miyaji, Comverge, Inc.
Mark Ortiz, Consumers Energy
William Cox, Cox Software Architects LLC
Dirk Mahling, CPower, Inc.
Robert Alvord, Diehl Controls NA
Jeff Kenward, DTE Energy
Derek Kirchner, DTE Energy
Sheila Hollis, Duane Morris, LLP
Alan Pritchard, Duke Energy
Gary Stuebing, Duke Energy
Gregory T. Obenchain, Edison Electric Institute
Kristin Brief, EnerNOC, Inc.
David Clarke, Energy Washington Week
Brian E. Green, Electric Power Research Institute
Elizabeth Marion, EPRI
Chuck Thomas, EPRI
Paul Wattles, ERCOT
Tim Spets, 4Home, Inc.
Avygdor Moise, Future DOS R&D Inc.
Robby Simpson, GE
Charles Smith, GE
Robert W. Gee, The Gee Strategies Group
Charles Spirakis, Google
Don Sturek, Grid2Home
James D. Holbery, GridMobility, LLC
Mike Coop, heyCoop, LLC
Steve Gabel, Honeywell
David Kaufman, Honeywell
Ludo Bertsch, Horizon Technologies
Martin Burns, Hypertek, Inc.
Lou Ann Westerfield, Idaho Public Utility Commission/NARUC
Peter Sergejewich, IESO
Robert B. Burke, ISO New England, Inc.
Scott Coe, ISO New England, Inc.
Matthew Goldberg, ISO New England, Inc.
Shannon Hann, ISO New England, Inc.
Eric Winkler, ISO New England, Inc.
Brent Cain, Itron, Inc.
Ed Eckert, Itron, Inc.
Dean van Gerrevink, Jemena Electricity Networks
Edward Hedges, KCP&L
John Lampe, Lampe Consulting/ SCE
Roger Levy, Levy Associates
KoonSeok Lee, LG Electronics USA, Inc.
William (Bill) Lawrence, Lockheed Martin Corporation
Bruce Kraemer, Marvell
Yoshimichi Okuno, Meidensha Corporation
John Calhoon, Microsoft Corp
Richard Kalisch, Midwest ISO
Ted Kuhn, Midwest ISO
Edgardo Luzcando, Midwest ISO
Bill Phillips, Midwest ISO
Ed Skiba, Midwest ISO
Bob Saint, National Rural Electric Cooperative Association (NRECA)
Scott Crowder, NREL
Jonathan Booe, NAESB
James Culliton, NAESB
Angela Gonzales, NAESB
Cory Galik Cummings, NAESB
Rae McQuade, NAESB
Denise Rager, NAESB
Veronica Thomason, NAESB
Brad Ramsay, NARUC
Erik Gilbert, Navigant Consulting
Steven Bushby, NIST
David Holmberg, NIST
Tom Nelson, NIST

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NAESB Wholesale Electric Quadrant Smart Grid Standards

Appendix A-2: Smart Grid PAP 10 Standards Task Force Distribution List
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DISTRIBUTION LIST SORTED BY ORGANIZATION

Evan K. Wallace, NIST
David A. Wollman, NIST
Ernie Cardone, New York Independent System Operator
Donna Pratt, New York Independent System Operator
Mark Patten, NH Electric Cooperative
Arthur Salwin, Noblis
Martin M. Bartel, Northeast Utilities
Paul McCurley, NRECA
Brent Hodges, NRG Energy, Inc.
Alan Johnson, NRG Energy, Inc.
Michehl R. Gent, OATI
Chellury (Ram) Sastry, Pacific Northwest National
Laboratory (PNNL)
Jim Reiley, PECO Energy Company
Annunciata Marino, Pennsylvania Public Utility
Commission
John Teeter, People Power Company
Vivek, People Power
Zahra Makoui, PG&E
K. Prasad Nair, Project Management Enterprises, Inc.
Chris Kotting, Public Utilities Commission of Ohio
Mary Zientara, Reliant Energy
Andrey Komissarov, San Diego Gas & Electric
Mick Grover, Sharp Labs of America
Craig Whittle, Sharp Labs of America
Margaret Goodrich, SISCO
Ryn Hamilton, Consultant: Southern California Edison
Jeff Gooding, Southern California Edison

Mark Martinez, Southern California Edison
Deborah Tillman, Southern California Edison
Larry Barto, Southern Company
John Ciza, Southern Company
Kenneth Shiver, Southern Company
Joshua Phillips, Southwest Power Pool
Mark Robinson, Southwest Power Pool
Jimmy Womack, Southwest Power Pool
Austin Zeller, Steffes Corp.
Christopher Behme, Sungard
Toby Considine, TC9
James Sample, Tennessee Valley Authority
David Mollerstuen, Tendril
Luis A. (Tony) Suarez, Tennessee Valley Authority
Sharon E. Dinges, TRANE Commercial Systems
Valerie Crockett, TVA
Kathy York, TVA
Gurcan, Gulen, University of Texas
Wayne Dennison, Xtensible Solutions
Shawn Hu, Xtensible Solutions
James Meyer, Xtensible Solutions
Greg Robinson, Xtensible Solutions
Steve Van Ausdall, Xtensible Solutions
Joe Zhou, Xtensible Solutions
Chad Maglaque, Xtreme Consulting Group, Inc.
Tobin Richardson, ZigBee

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Appendix A-2: Smart Grid PAP 10 Standards Task Force Distribution List
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DISTRIBUTION LIST SORTED BY NAME

Robert Alvord, Diehl Controls NA	Tarie Hansen, Arizona Public Service Company
Martin M. Bartel, Northeast Utilities	Edward Hedges, KCP&L
Larry Barto, Southern Company	Brent Hodges, NRG Energy, Inc.
Phil Beecher, Beecher Comms Consultants Ltd.	James D. Holbery, GridMobility, LLC
Christopher Behme, Sungard	Sheila Hollis, Duane Morris LLP
Ludo Bertsch, Horizon Technologies	David Holmberg, NIST
George Bjelovuk, American Electric Power	Shawn Hu, Xtensible Solutions
Jonathan Booe, NAESB	Alan Johnson, NRG Energy, Inc.
Kristin Brief, EnerNOC, Inc.	Richard Kalisch, Midwest ISO
Frank Brown, Bonneville Power Administration	David Kaufman, Honeywell
Robert B. Burke, ISO New England, Inc.	Rod Kelley, Bonneville Power Administration
Matthew M. Burkmier, Calico Energy	Jeff Kenward, DTE Energy
Martin Burns, Hypertek, Inc.	Derek Kirchner, DTE Energy
Steven Bushby, NIST	Edward Koch, Akuacom
Brent Cain, Itron, Inc.	Andrey Komissarov, San Diego Gas & Electric
John Calhoon, Microsoft Corp	Chris Kotting, Public Utilities Commission of Ohio
Ernie Cardone, New York Independent System Operator	Bruce Kraemer, Marvell
Jim Cargas, City of Houston	Ted Kuhn, Midwest ISO
John Ciza, Southern Company	Matthew Laherty, CISCO
David Clarke, Energy Washington Week	John Lampe, Lampe Consulting/ SCE
Scott Coe, ISO New England, Inc.	William (Bill) Lawrence, Lockheed Martin Corporation
Toby Considine, TC9	KoonSeok Lee, LG Electronics USA, Inc.
Mike Coop, heyCoop, LLC	Roger Levy, Levy Associates
William Cox, Cox Software Architects LLC	Randy Lowe, AEP
Sean Crimmins, California ISO	Edgardo Luzcando, Midwest ISO
Valerie Crockett, TVA	Rae McQuade, NAESB
Scott Crowder, NREL	Chad Maglaque, Xtreme Consulting Group, Inc.
James Culliton, NAESB	Dirk Mahling, CPower, Inc.
Wayne Dennison, Xtensible Solutions	Zahra Makoui, PG&E
Sharon E. Dinges, TRANE Commercial Systems	Annunciata Marino, Pennsylvania Public Utility Commission
Ed Eckert, Itron, Inc.	Elizabeth Marion, EPRI
Steve Gabel, Honeywell	Mark Martinez, Southern California Edison
Cory Galik Cummings, NAESB	Paul McCurley, NRECA
Robert W. Gee, The Gee Strategies Group	James Meyer, Xtensible Solutions
Michehl R. Gent, OATI	Nathan Mitchell, American Public Power Association
Erik Gilbert, Navigant Consulting	Wendell Miyaji, Comverge, Inc.
Matthew Goldberg, ISO New England	Avygdor Moise, Future DOS R&D Inc.
Angela Gonzales, NAESB	David Mollerstuen, Tendril
Jeff Gooding, Southern California Edison	K. Prasad Nair, Project Management Enterprises, Inc.
Margaret Goodrich, SISCO	Tom Nelson, NIST
Gerald R. Gray, CIMple Integrations	Gregory T. Obenchain, Edison Electric Institute
Brian E. Green, Electric Power Research Institute	Joelle K. Ogg, Brunenkant & Cross, LLP
Mick Grover, Sharp Labs of America	Yoshimichi Okuno, Meidensha Corporation
Gurcan, Gulen, University of Texas	Mark Ortiz, Consumers Energy
Ryn Hamilton, Consultant: Southern California Edison	Mark Patten, NH Electric Cooperative
Shannon Hann, ISO New England, Inc.	

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NAESB Wholesale Electric Quadrant Smart Grid Standards

Appendix A-2: Smart Grid PAP 10 Standards Task Force Distribution List
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DISTRIBUTION LIST SORTED BY NAME

Bill Phillips, Midwest ISO	Don Sturek, Grid2Home
Joshua Phillips, Southwest Power Pool	Luis A. (Tony) Suarez, Tennessee Valley Authority
Ray Phillips, AMEA	Bill Swan, Alerton/Honeywell
Donna Pratt, New York Independent System Operator	Mark Symonds, Bonneville Power Administration
Phil Precht, Baltimore Gas & Electric Co.	John Teeter, People Power Company
Alan Pritchard, Duke Energy	Leonard C. Tillman, Balch & Bingham LLP
Denise Rager, NAESB	Chuck Thomas, EPRI
Brad Ramsay, NARUC	Veronica Thomason, NAESB
Judy Ray, Alabama Power	Deborah Tillman, Southern California Edison
Jim Reiley, PECO Energy Company	Roy True, ACES Power Marketing
Tobin Richardson, ZigBee	Steve Van Ausdall, Xtensible Solutions
Dave Robin, Automated Logic Corporation	Dean van Gerrevink, Jemena Electricity Networks
Greg Robinson, Xtensible Solutions	Vivek, People Power
Mark Robinson, Southwest Power Pool	Evan K. Wallace, NIST
Bob Saint, National Rural Electric Cooperative Association (NRECA)	Paul Wattles, ERCOT
Arthur Salwin, Noblis	Lou Ann Westerfield, Idaho Public Utility Commission/NARUC
James Sample, Tennessee Valley Authority	Craig Whittle, Sharp Labs of America
Chellury (Ram) Sastry, Pacific Northwest National	Eric Winkler, ISO New England, Inc.
Peter Sergejewich, IESO	David A. Wollman, NIST
Kenneth Shiver, Southern Company	Jimmy Womack, Southwest Power Pool
Ed Skiba, Midwest ISO	Kathy York, TVA
Robby Simpson, GE	Austin Zeller, Steffes Corp.
Charles Smith, GE	Joe Zhou, Xtensible Solutions
Tim Spets, 4Home, Inc.	Mary Zientara, Reliant Energy
Charles Spirakis, Google	
Gary Stuebing, Duke Energy	

Appendix B: Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links
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Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
September 1, 2009	Joint Smart Grid Standards Development Subcommittee and Fix Protocol Conference Call	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd090109notes.doc Attachment to Notes: http://www.naesb.org/pdf4/smart_grid_ssd090109a1.ppt	39
September 2, 2009	Smart Grid Standards Development Subcommittee Meeting Dallas, TX – hosted by Oncor	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd090209notes.doc Attachments to Notes: http://www.naesb.org/pdf4/smart_grid_ssd090209a1.xls http://www.naesb.org/pdf4/smart_grid_ssd090209a2.doc	37
September 8, 2009	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd090809notes.doc	12
September 10, 2009	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd091009notes.doc	30
September 17, 2009	Joint Smart Grid Standards Development Subcommittee and Fix Protocol Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd091709notes.doc	56
October 1, 2009	Joint Smart Grid Standards Development Subcommittee and Fix Protocol Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd100109notes.doc	47
October 2, 2009	Joint Smart Grid Standards Development Subcommittee and Fix Protocol Request for Informal Comments on DR/DER Framework Document and Use Cases due October 11, 2009	Request for Informal Comments due October 11, 2009: http://www.naesb.org/pdf4/smart_grid_ssd100209reqcom_dr_der.doc Attachments to Informal Comments: http://www.naesb.org/pdf4/smart_grid_ssd100209reqcom_dr_der_atta_ch1.doc http://www.naesb.org/pdf4/index.htm Comments on DR/DER Framework Submitted by Entergy: http://www.naesb.org/pdf4/smart_grid_ssd100209_dr_der_entergy.doc Comments on DR/DER Framework Submitted by Midwest ISO: http://www.naesb.org/pdf4/smart_grid_ssd100209_dr_der_miso.doc Comments on DR/DER Framework Submitted by The Cazalet Group: http://www.naesb.org/pdf4/smart_grid_ssd100209_dr_der_cazalet.pdf	N/A

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Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
		<p>Comments on DR/DER Framework Submitted by Cox Software Architects: http://www.naesb.org/pdf4/smart_grid_ssd100209_dr_der_cox_software_architects.doc</p> <p>Comments on DR/DER Framework Submitted by Horizon Technologies: http://www.naesb.org/pdf4/smart_grid_ssd100209_dr_der_horizon_technologies.pdf</p> <p>Late Comments on DR/DER Framework Submitted by NIST: http://www.naesb.org/pdf4/smart_grid_ssd100209_dr_der_nist_late.doc</p>	
October 2, 2009	Joint Smart Grid Standards Development Subcommittee and Fix Protocol Request for Informal Comments on Common Price Communication Model (PAP 03) Use Cases due October 11, 2009	<p>Request for Informal Comments due October 11, 2009: http://www.naesb.org/pdf4/smart_grid_ssd100209reqcom_common_price.doc</p> <p>Attachment to Informal Comments: http://www.naesb.org/pdf4/smart_grid_ssd100209reqcom_common_price_attach1.doc</p> <p>Comments on Common Price Communication Model (PAP 03) Submitted by BPA: http://www.naesb.org/pdf4/smart_grid_ssd100209_common_price_bpa.doc</p> <p>Comments on Common Price Communication Model (PAP 03) Submitted by Entergy: http://www.naesb.org/pdf4/smart_grid_ssd100209_common_price_entergy.doc</p> <p>Comments on Common Price Communication Model (PAP 03) Submitted by Cox Software Architects: http://www.naesb.org/pdf4/smart_grid_ssd100209_common_price_cox_software_architects.doc</p> <p>Late Comments on Common Price Communication Model (PAP 03) Submitted by Horizon Technologies: http://www.naesb.org/pdf4/smart_grid_ssd100209_common_price_horizon_technologies_late.pdf</p>	N/A

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Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
October 13, 2009	Smart Grid Standards Development Subcommittee Sub-Group Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp	
October 15, 2009	Joint Smart Grid Standards Development Subcommittee and Fix Protocol Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp	
October 20, 2009	Smart Grid Standards Development Subcommittee Sub-Group Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp Attachment to Notes: http://www.naesb.org/pdf4/smart_grid_ssd102009a1.ppt	
October 22, 2009	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd102209notes.doc Attachment to Notes: http://www.naesb.org/pdf4/smart_grid_ssd102209a1.xls	35
October 27, 2009	Smart Grid Standards Development Subcommittee Sub-Group Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp	
October 29, 2009	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp	

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Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
October 30, 2009	Request for Informal Comments on Requirements Specifications for Common Scheduling Mechanism for Energy Transactions for NIST Priority Action Plan 04 (PAP 04) due November 4, 2009	Request for Informal Comments due November 4, 2009: http://www.naesb.org/pdf4/smart_grid_ssd103009reqcom.doc Attachment to Informal Comments: http://www.naesb.org/pdf4/smart_grid_ssd103009reqcom_a1.doc Comments Submitted by Southwest Research Institute: http://www.naesb.org/pdf4/smart_grid_ssd103009southwest_research_institute.doc Comments Submitted by EPAM Systems: http://www.naesb.org/pdf4/smart_grid_ssd103009epam.doc Comments Submitted by Baltimore Gas and Electric: http://www.naesb.org/pdf4/smart_grid_ssd103009bge.doc Comments Submitted by Horizon Technologies: http://www.naesb.org/pdf4/smart_grid_ssd103009horizon.doc	N/A
November 3, 2009	Smart Grid Standards Development Subcommittee Sub-Group Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.a.sp	
November 4-6, 2009	Smart Grid Standards Development Subcommittee Sub-Group Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.a.sp	
November 5, 2009	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.a.sp	
November 6, 2009	NAESB Comments to NIST on the Draft Smart Grid Interoperability Panel and Governing Board Charter	NAESB Comments: http://www.naesb.org/pdf4/smart_grid_NAESB_Comments_to_NIST_110609.pdf	
November 9, 2009	NAESB Comments to NIST on the Framework Document	NAESB Comments: http://www.naesb.org/pdf4/smart_grid_NAESB_Comments_to_NIST_110909.pdf	
November 10, 2009	Smart Grid Standards Development Subcommittee Sub-Group Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd111009notes.doc	17

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Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
November 13, 2009	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp	
November 17, 2009	Request for Informal Comments on Requirements Specifications for Wholesale Standard DR Signals for NIST Priority Action Plan 09 (PAP 09) due November 30, 2009	Request for Informal Comments due November 30, 2009: http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom.doc Attachments to Informal Comments: Recommendation: http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom_pap9_rec.doc A1: http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom_pap9_a1.doc A2: http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom_pap9_a2.doc A3: http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom_pap9_a3.doc Comments Submitted on Recommendation by Entergy: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap9_entergy1.doc Comments Submitted on A2 by Entergy: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap9_entergy2.doc Comments Submitted on A3 by Entergy: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap9_entergy3.doc Comments Submitted by Summit Blue: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap9_summitblue.doc Comments Submitted by Horizon Technologies: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap9_horizon.pdf Comments Submitted by BPA: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap9_bpa.doc Late Comments Submitted by California Public Utilities Commission: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap9_cpuc_late.doc	N/A

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Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
		Late Comments on A1 Submitted by Smart Grid Library: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap9_smart_grid_library1_late.doc Late Comments on A2 Submitted by Smart Grid Library: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap9_smart_grid_library2_late.doc Late Comments on A3 Submitted by Smart Grid Library: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap9_smart_grid_library3_late.doc Late Comments Submitted by Oak Ridge National Laboratory: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap9_ornl_late.doc Attachment to Late Comments Submitted by Oak Ridge National Laboratory: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap9_ornl_late_attachment.pdf Late Comments Submitted by IRC: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap9_irc_late.pdf	

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Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
November 17, 2009	Request for Informal Comments on Requirements Specifications for Common Electricity Product and Pricing Definition for NIST Priority Action Plan 03 (PAP 03) due November 30, 2009	Request for Informal Comments due November 30, 2009: http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom.doc Attachments to Formal Comments: Recommendation: http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom_pap3_rec.doc A1: http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom_pap3_a1.doc Comments on Recommendation Submitted by Entergy: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap3_entergy1.doc Comments on A1 Submitted by Entergy: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap3_entergy2.doc Comments Submitted by Summit Blue: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap3_summitblue.doc Comments Submitted by The Cazalet Group: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap3_cazalet.doc Comments Submitted by BPA: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap3_bpa.doc Comments Submitted on A1 by Smart Grid Library: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap3_smart_grid_library_late.doc	N/A

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Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
November 17, 2009	Request for Informal Comments on Requirements Specifications for Common Scheduling Mechanism for Energy Transactions for NIST Priority Action Plan 04 (PAP 04) due November 30, 2009	Request for Informal Comments due November 30, 2009: http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom.doc Attachments to Formal Comments: Recommendation: http://www.naesb.org/pdf4/smart_grid_ssd111709reqcom_pap4_rec.doc Comments Submitted by CalConnect: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap4_calconnect.doc Comments Submitted by Entergy: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap4_entergy.doc Comments Submitted by Summit Blue: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap4_summitblue.doc Comments Submitted by BPA: http://www.naesb.org/pdf4/smart_grid_ssd111709_pap4_bpa.doc	N/A
November 18, 2009	Grid Interop Week		
December 3, 2009	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp	
December 10, 2009	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Minutes: http://www.naesb.org/pdf4/smart_grid_ssd121009notes.doc	15
December 17, 2009	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd121709notes.doc	30
January 7, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd010710notes.doc	34
January 14 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp Attachment to Notes: http://www.naesb.org/pdf4/smart_grid_ssd011410a1.xls	

Appendix B: Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links
 July 7, 2011

Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
January 21, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Minutes: http://www.naesb.org/pdf4/smart_grid_ssd012110notes.doc	23
January 28, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd012810notes.doc Attachment to Notes: http://www.naesb.org/pdf4/smart_grid_ssd012810a1.xls	21
February 5, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd020510notes.doc	24
February 18, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd021810notes.doc Attachments to Notes: http://www.naesb.org/pdf4/smart_grid_ssd021810a1.doc http://www.naesb.org/pdf4/smart_grid_ssd021810a2.doc	20
February 25, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd022510notes.doc Attachments to Notes: http://www.naesb.org/pdf4/smart_grid_ssd022510a1.doc http://www.naesb.org/pdf4/smart_grid_ssd022510a2.doc	24
March 4, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp	
March 11, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp Attachments to Notes: http://www.naesb.org/pdf4/smart_grid_ssd031110a1.xls http://www.naesb.org/pdf4/smart_grid_ssd031110a2.doc	
March 18, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp	

Appendix B: Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links
 July 7, 2011

Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
March 22, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp Attachment to Notes: http://www.naesb.org/pdf4/smart_grid_ssd032210a1.doc	
March 25, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp Attachment to Notes; http://www.naesb.org/pdf4/smart_grid_ssd032510a1.xls http://www.naesb.org/pdf4/smart_grid_ssd032510a2.doc	
April 1, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp Attachment to Notes: http://www.naesb.org/pdf4/smart_grid_ssd040110a1.doc	
April 8, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp	
April 12, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing Energy Usage Survey due April 30, 2010	Energy Usage Survey due April 20, 2010 (Adobe Format): http://www.naesb.org/pdf4/pap_10_survey_040910.pdf Energy Usage Survey due April 20, 2010 (Word Format): http://www.naesb.org/pdf4/pap_10_survey_040910.doc	
April 15, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp	
April 29, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp	

Appendix B: Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links
 July 7, 2011

Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
May 13, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp Attachments to Notes: http://www.naesb.org/pdf4/smart_grid_ssd051310a1.doc http://www.naesb.org/pdf4/smart_grid_ssd051310a2.doc	
May 20, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp Attachments to Notes: http://www.naesb.org/pdf4/smart_grid_ssd052010a1.doc http://www.naesb.org/pdf4/smart_grid_ssd052010a2.doc	
June 3 and 4, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp Attachments to Notes: http://www.naesb.org/pdf4/smart_grid_ssd060310a1.doc http://www.naesb.org/pdf4/smart_grid_ssd060310a2.doc http://www.naesb.org/pdf4/smart_grid_ssd060310a3.doc http://www.naesb.org/pdf4/smart_grid_ssd060310a4.doc	
June 10, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp	
June 17, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd061710notes.doc	16
June 22, 2010	Smart Grid Standards Subcommittee on PAP10 Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_pap10_062210notes.doc	30
June 29, 2010	Smart Grid Standards Subcommittee on PAP10 Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_pap10_062910notes.doc	41

Appendix B: Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links
 July 7, 2011

Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
July 1, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd070110notes.doc Attachment to Notes: http://www.naesb.org/pdf4/smart_grid_ssd070110a1.ppt	23
July 13, 2010	Smart Grid Standards Subcommittee on PAP10 Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_pap10_071310notes.doc	28
July 13-14, 2010	Smart Grid Standards Development Subcommittee Houston, TX – held at the NAESB Offices	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp Attachment to Minutes: http://www.naesb.org/pdf4/smart_grid_ssd071310a1.xls	
July 20, 2010	Smart Grid Standards Subcommittee on PAP10 Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_pap10.asp	
July 22, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd072210notes.doc	13
July 26, 2010	Smart Grid Standards Subcommittee on PAP10 – Special Meeting, PAP10 WEQ Review Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_pap10.asp	
July 27, 2010	Smart Grid Standards Subcommittee on PAP10 Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_pap10.asp Attachment to Notes: http://www.naesb.org/pdf4/smart_grid_pap10_072710a1.doc	
July 30, 2010	Smart Grid Standards Subcommittee on PAP10 – Special Meeting, PAP10 WEQ Review Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_pap10.asp	

Appendix B: Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links
 July 7, 2011

Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
August 3, 2010	Smart Grid Standards Subcommittee on PAP10 Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_pap10_080310notes.doc Attachments to Notes: http://www.naesb.org/pdf4/smart_grid_pap10_080310a1.doc http://www.naesb.org/pdf4/smart_grid_pap10_080310a2.doc	29
August 5, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd080510notes.doc	12
August 6, 2010	Smart Grid Standards Subcommittee on PAP10 – Special Meeting, PAP10 WEQ Review Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_pap10.asp	
August 10, 2010	Smart Grid Standards Subcommittee on PAP10 Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_pap10_081010notes.doc	38

Appendix B: Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links
 July 7, 2011

Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
August 10, 2010	Smart Grid Standards Subcommittee on PAP10 Request for Informal Comments due August 16, 2010	Request for Informal Comments due August 16, 2010: http://www.naesb.org/pdf4/smart_grid_pap10_081010reqcom.doc Attachment WEQ PAP10 Recommendation: http://www.naesb.org/pdf4/smart_grid_pap10_081010reqcom_a1.doc Attachment REQ PAP10 Recommendation: http://www.naesb.org/pdf4/smart_grid_pap10_081010reqcom_a2.doc Comments Submitted by Honeywell: http://www.naesb.org/pdf4/smart_grid_pap10_081010_honeywell.doc Comments Submitted by University of North Carolina: http://www.naesb.org/pdf4/smart_grid_pap10_081010_univ_nc.pdf Comments Submitted by NRECA: http://www.naesb.org/pdf4/smart_grid_pap10_081010_nreca.doc Comments Submitted by Bonneville Power Administration: http://www.naesb.org/pdf4/smart_grid_pap10_081010_bpa.doc Comments Submitted by Reliant Energy: http://www.naesb.org/pdf4/smart_grid_pap10_081010_reliant.doc Comments Submitted by California ISO: http://www.naesb.org/pdf4/smart_grid_pap10_081010_caiso.doc Comments Submitted by Southern Company: http://www.naesb.org/pdf4/smart_grid_pap10_081010_southernco.doc Comments Submitted by Hypertek: http://www.naesb.org/pdf4/smart_grid_pap10_081010_hypertek.xls Comments Submitted by EIS Alliance: http://www.naesb.org/pdf4/smart_grid_pap10_081010_eis_alliance.pdf Comments Submitted by PJM Interconnection: http://www.naesb.org/pdf4/smart_grid_pap10_081010_pjm.doc	N/A

Appendix B: Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links
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Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
		<p>Comments Submitted by California Public Utilities Commission: http://www.naesb.org/pdf4/smart_grid_pap10_081010_california_puc.doc</p> <p>Comments Submitted by NIST: http://www.naesb.org/pdf4/smart_grid_pap10_081010_nist.doc Attachment - Model Modifications Submitted by NIST: http://www.naesb.org/pdf4/smart_grid_pap10_081010_nist_attach.EAP</p> <p>Cover Letter to Comments Submitted by Cox Software Architects: http://www.naesb.org/pdf4/smart_grid_pap10_081010_cox_coverletter.doc</p> <p>Editorial Comments Submitted by Cox Software Architects: http://www.naesb.org/pdf4/smart_grid_pap10_081010_cox_comment1.xls</p> <p>Technical Comments Submitted by Cox Software Architects: http://www.naesb.org/pdf4/smart_grid_pap10_081010_cox_comment2.xls</p> <p>PDF (with consistent line numbers) to Comments Submitted by Cox Software Architects: http://www.naesb.org/pdf4/smart_grid_pap10_081010_cox_attach.pdf</p> <p>Comments Submitted by Exelon Corporation: http://www.naesb.org/pdf4/smart_grid_pap10_081010_exelon_corp.doc</p> <p>Comments Submitted by Honeywell: http://www.naesb.org/pdf4/smart_grid_pap10_081010_honeywell_sg.pdf</p>	

Appendix B: Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links
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Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
		Cover Letter to Comments Submitted by Future DOS R&D Inc.: http://www.naesb.org/pdf4/smart_grid_pap10_081010_future_dos_r&dcoverletter.doc Comments Submitted by Future DOS R&D Inc.: http://www.naesb.org/pdf4/smart_grid_pap10_081010_future_dos_r&d_comments.xls Attachment – Draft ECMX.ORG Schema Graphic Submitted by Future DOS R&D Inc.: http://www.naesb.org/pdf4/smart_grid_pap10_081010_future_dos_r&d_attach1.PNG Attachment – ANSI C12-2008 Submitted by Future DOS R&D Inc.: http://www.naesb.org/pdf4/smart_grid_pap10_081010_future_dos_r&d_attach2.pdf Attachment – Draft ECMX.ORG Schema Submitted by Future DOS R & D Inc.: http://www.naesb.org/pdf4/smart_grid_pap10_081010_future_dos_r&d_attach3.txt Late Comments Submitted by EPA: http://www.naesb.org/pdf4/smart_grid_pap10_081010_epa.doc	
August 12, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd081210notes.doc Attachment to Notes: http://www.naesb.org/pdf4/smart_grid_ssd081210a1.doc	23
August 13, 2010	Smart Grid Standards Subcommittee on PAP10 – Special Meeting, PAP10 REQ Review Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_pap10.asp	
August 20, 2010	Smart Grid Standards Subcommittee on PAP10 Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_pap10.asp	

Appendix B: Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links
 July 7, 2011

Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
August 24, 2010	Smart Grid Standards Subcommittee on PAP10 Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_pap10_082410notes.doc Attachments to Notes: http://www.naesb.org/pdf4/smart_grid_pap10_082410a1.doc http://www.naesb.org/pdf4/smart_grid_pap10_082410a2.doc http://www.naesb.org/pdf4/smart_grid_pap10_082410a3.xls http://www.naesb.org/pdf4/smart_grid_pap10_082410a4.doc http://www.naesb.org/pdf4/smart_grid_pap10_082410a5.pdf	44
August 26, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Minutes: http://www.naesb.org/pdf4/smart_grid_ssd082610notes.doc Attachment to Minutes: http://www.naesb.org/pdf4/smart_grid_ssd082610a1.doc	10
August 27, 2010	Smart Grid Standards Subcommittee on PAP10 Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_pap10.asp	
August 31, 2010	Smart Grid Standards Subcommittee on PAP10 Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_pap10_083110notes.doc Attachments to Notes: http://www.naesb.org/pdf4/smart_grid_pap10_083110a1.doc http://www.naesb.org/pdf4/smart_grid_pap10_083110a2.doc http://www.naesb.org/pdf4/smart_grid_pap10_083110a3.doc	51
September 9, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Minutes: http://www.naesb.org/pdf4/smart_grid_ssd090910notes.doc Attachment to Minutes: http://www.naesb.org/pdf4/smart_grid_ssd090910a1.pdf	11
September 16, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd091610notes.doc	9
September 20, 2010	Smart Grid Standards Subcommittee on PAP10 – WEQ Review Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_pap10_092010notes.doc	13
September 23, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd092310notes.doc	14

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Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
October 4-5, 2010	Smart Grid Standards Subcommittee on PAP10 Meeting Houston, TX – held at the NAESB Offices	Meeting notes to be posted: http://www.naesb.org/smart_grid_pap10.asp Attachments to Minutes: http://www.naesb.org/pdf4/smart_grid_pap10_100410a1.doc http://www.naesb.org/pdf4/smart_grid_pap10_100410a2.xls http://www.naesb.org/pdf4/smart_grid_pap10_100410a3.xls http://www.naesb.org/pdf4/smart_grid_pap10_100410a4.doc http://www.naesb.org/pdf4/smart_grid_pap10_100410a5.xls http://www.naesb.org/pdf4/smart_grid_pap10_100410a6.xls http://www.naesb.org/pdf4/smart_grid_pap10_100410a7.doc http://www.naesb.org/pdf4/smart_grid_pap10_100410a8.doc http://www.naesb.org/pdf4/smart_grid_pap10_100410a9.doc http://www.naesb.org/pdf4/smart_grid_pap10_100410a10.xls http://www.naesb.org/pdf4/smart_grid_pap10_100410a11.doc	
October 7, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd100710notes.doc Attachments to Notes: http://www.naesb.org/pdf4/smart_grid_ssd100710a1.doc http://www.naesb.org/pdf4/smart_grid_ssd100710a2.doc http://www.naesb.org/pdf4/smart_grid_ssd100710a3.doc http://www.naesb.org/pdf4/smart_grid_ssd100710a4.doc http://www.naesb.org/pdf4/smart_grid_ssd100710a5.doc http://www.naesb.org/pdf4/smart_grid_ssd100710a6.doc http://www.naesb.org/pdf4/smart_grid_ssd100710a7.xls http://www.naesb.org/pdf4/smart_grid_ssd100710a8.doc	13
October 14, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp	
November 18, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting notes to be posted: http://www.naesb.org/smart_grid_standards_strategies_development.asp	
December 10, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd121010notes.doc	15

Appendix B: Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links
July 7, 2011

Appendix B – Smart Grid Standards Development Subcommittee and Smart Grid Standards Subcommittee on Priority Action Plan10 Meeting Minutes Links			
Date of Meeting	Meeting Location	Meeting Minutes	Number of Participants
December 16, 2010	Smart Grid Standards Development Subcommittee Conference Call with Web Conferencing	Meeting Notes: http://www.naesb.org/pdf4/smart_grid_ssd121610notes.doc	3

Appendix C: Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts
 July 7, 2011

Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
October 27, 2009	NAESB Executive Committee Meetings, Richmond, VA WEQ EC Minutes: http://www.naesb.org/pdf4/weq_ec102709fm.doc	No comments requested or provided relating to the Smart Grid standards	Jill Vaughn, CSR - 281-853-6807
December 3, 2009	NAESB Executive Committee Single Topic Conference Call with Web Conferencing Meeting Minutes: http://www.naesb.org/pdf4/weq_ec120309fm.doc	No comments requested or provided relating to the Smart Grid standards	Jill Vaughn, CSR - 281-853-6807
February 2, 2010	NAESB Executive Committee Meetings, Phoenix, AZ WEQ EC Minutes: http://www.naesb.org/pdf4/weq_ec020210fm.doc	No comments requested or provided relating to the Smart Grid standards	Jill Vaughn, CSR - 281-853-6807
May 4, 2010	NAESB Executive Committee Meetings, Harrisburg, PA WEQ EC Minutes: http://www.naesb.org/pdf4/weq_ec050410fm.doc	No comments requested or provided relating to the Smart Grid standards	Jill Vaughn, CSR – 281-853-6807
March 9, 2010	Request for Formal Comments on WEQ 2010 Annual Plan Item 6a – Requirements Specifications for Common Electricity Product and Pricing Definition for NIST Priority Action Plan 03 (PAP 03) due April 9, 2010 Recommendation: http://www.naesb.org/pdf4/weq_2010_ap6a_retail_2010_ap9a_rec.doc	Request for Formal Comments due April 9, 2010: http://www.naesb.org/pdf4/weq_030910_reqcom.doc Comments Submitted by the NAESB WEQ Standards Review Subcommittee: http://www.naesb.org/pdf4/weq_req_030910_pap_03_weq_srs.doc Comments Submitted by BPA: http://www.naesb.org/pdf4/weq_req_030910_pap_03_bpa.doc Comments Submitted by TVA: http://www.naesb.org/pdf4/weq_req_030910_pap_03_tva.doc	No transcripts provided as this was not a meeting – it was a request for formal comments.

¹ 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.

Appendix C: Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts
 July 7, 2011

Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
		Cover Letter to Comments Submitted by Honeywell: http://www.naesb.org/pdf4/weq_req_030910_pap_03_honeywell_cover.pdf Comments Submitted by Honeywell: http://www.naesb.org/pdf4/weq_req_030910_pap_03_honeywell.doc Comments Submitted by ISO/RTO Council: http://www.naesb.org/pdf4/weq_req_030910_pap_03_irc.doc Late Comments Submitted by Midwest ISO: http://www.naesb.org/pdf4/weq_req_030910_pap_03_miso_late.doc Late Comments Submitted by the NAESB Smart Grid Standards Task Force: http://www.naesb.org/pdf4/weq_req_030910_pap_03_sgstf_late.doc	

Appendix C: Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts
 July 7, 2011

Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
March 9, 2010	<p>Request for Formal Comments on WEQ 2010 Annual Plan Item 6b – Requirements Specifications for Common Scheduling Mechanism for Energy Transactions for NIST Priority Action Plan 04 (PAP 04) due April 9, 2010</p> <p>Recommendation: http://www.naesb.org/pdf4/weq_2010_ap6b_retail_2010_ap9b_rec.doc</p>	<p>Request for Formal Comments due April 9, 2010: http://www.naesb.org/pdf4/weq_030910_reqcom.doc</p> <p>Comments Submitted by the NAESB Standards Review Subcommittee: http://www.naesb.org/pdf4/weq_req_030910_pap_04_weq_srs.doc</p> <p>Comments Submitted by BPA: http://www.naesb.org/pdf4/weq_req_030910_pap_04_bpa.doc</p> <p>Comments Submitted by TVA: http://www.naesb.org/pdf4/weq_req_030910_pap_04_tva.doc</p> <p>Cover letter to Comments Submitted by Honeywell: http://www.naesb.org/pdf4/weq_req_030910_pap_04_honeywell_cover.pdf</p> <p>Comments Submitted by Honeywell: http://www.naesb.org/pdf4/weq_req_030910_pap_04_honeywell.doc</p> <p>Comments Submitted by the ISO/RTO Council: http://www.naesb.org/pdf4/weq_req_030910_pap_04_irc.doc</p> <p>Late Comments Submitted by Midwest ISO: http://www.naesb.org/pdf4/weq_req_030910_pap_04_miso_late.doc</p> <p>Late Comments Submitted by NAESB Smart Grid Standards Task Force: http://www.naesb.org/pdf4/weq_req_030910_pap_04_sgstf_late.doc</p>	<p>No transcripts provided as this was not a meeting – it was a request for formal comments.</p>

Appendix C: Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts
 July 7, 2011

Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
March 9, 2010	Request for Formal Comments on WEQ 2010 Annual Plan Item 6c – Requirements Specifications for Wholesale Standard DR Signals for NIST Priority Action Plan 09 (PAP 09) due April 9, 2010 Recommendation: http://www.naesb.org/pdf4/weq_2010_ap_6c_rec.doc	Request for Formal Comments due April 9, 2010: http://www.naesb.org/pdf4/weq_030910_reqcom.doc Comments Submitted by the NAESB Standards Review Subcommittee: http://www.naesb.org/pdf4/weq_030910_pap09_weq_srs.doc Comments Submitted by TVA: http://www.naesb.org/pdf4/weq_030910_pap09_tva.doc Comments Submitted by the ISO/RTO Council: http://www.naesb.org/pdf4/weq_030910_pap09_irc.doc Late Comments Submitted by Midwest ISO: http://www.naesb.org/pdf4/weq_030910_pap09_miso_late.doc Late Comments Submitted by the NAESB Smart Grid Standards Task Force: http://www.naesb.org/pdf4/weq_030910_pap09_sgstf_late.doc	No transcripts provided as this was not a meeting – it was a request for formal comments.
June 4, 2010	NAESB Joint WEQ/WGQ Executive Committee Single Topic Conference Call with Web Conferencing Meeting Minutes: http://www.naesb.org/pdf4/weq_wgq_ec060410fm.doc	Topic: Smart Grid PAPs 3, 4, and 9: 2010 WEQ Annual Plan Item 6(a)/2010 REQ Annual Plan Item 9(a), 2010 WEQ Annual Plan Item 6(b)/2010 REQ Annual Plan Item 9(b), 2010 WEQ Annual Plan Item 6(c) and 2010 REQ Annual Plan Item	Jill Vaughn, CSR – 281-853-6807

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Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
June 7, 2010	NAESB Joint WEQ/REQ Executive Committee Single Topic Review Session (Conference Call with Web Conferencing) Meeting Minutes: http://www.naesb.org/pdf4/weq_req_ec060710mn.doc	Recommendations: PAP03 WEQ 2010 Annual Plan Item 6a Revised by the WEQ EC 07/07/10 Redline: http://www.naesb.org/pdf4/weq_ec070710a1.doc PAP03 WEQ 2010 Annual Plan Item 6a Revised by the WEQ EC 07/07/10 Clean: http://www.naesb.org/pdf4/weq_ec070710a2.doc PAP04 WEQ 2010 Annual Plan Item 6b Revised by the WEQ EC 07/07/10 Redline: http://www.naesb.org/pdf4/weq_ec070710a3.doc PAP04 WEQ 2010 Annual Plan Item 6b Revised by the WEQ EC 07/07/10 Clean: http://www.naesb.org/pdf4/weq_ec070710a4.doc PAP09 WEQ 2010 Annual Plan Item 6c Revised by the WEQ EC 07/07/10 Redline: http://www.naesb.org/pdf4/weq_ec070710a5.doc PAP09 WEQ 2010 Annual Plan Item 6c Revised by the WEQ EC 07/07/10 Clean: http://www.naesb.org/pdf4/weq_ec070710a6.doc	No transcripts provided for review session
June 16, 2010	NAESB Joint WEQ/REQ Executive Committee Single Topic Conference Call with Web Conferencing Meeting Minutes: http://www.naesb.org/pdf4/weq_req_ec061610fm.doc	No comments requested or provided relating to the Smart Grid standards	Jill Vaughn, CSR – 281-853-6807
July 7, 2010	NAESB WEQ Executive Committee Meeting, Dallas, TX Meeting Minutes: http://www.naesb.org/pdf4/weq_ec070710fm.doc	No comments requested or provided relating to the Smart Grid standards	Jill Vaughn, CSR – 281-853-6807
August 17, 2010	NAESB Executive Committee Meetings, Colorado Springs, CO WEQ EC Minutes: http://www.naesb.org/pdf4/weq_ec081710fm.doc	No comments requested or provided relating to the Smart Grid	Agren Blando Court Reporting – 303-296-0017

Appendix C: Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts
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Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
September 1, 2010	<p>Request for Formal Comments on WEQ 2010 Annual Plan Item 6d – Business Practices and Information Models to Support Priority Action Plan 10 (PAP 10) – Standardized Energy Usage Information due September 30, 2010</p> <p>Recommendation: http://www.naesb.org/pdf4/weq_2010_ap_6d_rec.doc</p>	<p>Request for Formal Comments due September 30, 2010: http://www.naesb.org/pdf4/weq_req_090110_reqom.doc</p> <p>Comments Submitted by Schneider Electric: http://www.naesb.org/pdf4/req_weq_090110_schneider_electric.doc</p> <p>Comments Submitted by the NAESB Standards Review Subcommittee: http://www.naesb.org/pdf4/weq_090110_weq_srs_file1.doc</p> <p>Redlined Recommendation Submitted by the NAESB Standards Review Subcommittee: http://www.naesb.org/pdf4/weq_090110_weq_srs_file2.doc</p> <p>Comments Submitted by Edison Electric Institute: http://www.naesb.org/pdf4/req_weq_090110_eei.pdf</p> <p>Comments Submitted on behalf of the signing members of the IRC Standards Review Committee: http://www.naesb.org/pdf4/weq_090110 IRC_standards_review_committee_file1.doc</p> <p>Redlined Recommendation Submitted on behalf of the signing members of the IRC Standards Review Committee: http://www.naesb.org/pdf4/weq_090110 IRC_standards_review_committee_file2.doc</p> <p>Comments Submitted by the IEC 61968-9 Team: http://www.naesb.org/pdf4/req_weq_090110_iec_619689team_file1.xls</p> <p>UML Class Diagrams Submitted by the IEC 61968-9 Team: http://www.naesb.org/pdf4/req_weq_090110_iec_619689team_file2.jpg</p>	<p>No transcripts provided as this was not a meeting – it was a request for formal comments.</p>

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Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
		Comments Submitted by NRG: http://www.naesb.org/pdf4/weq_090110_nrg.pdf Comments Submitted by Exelon Corp: http://www.naesb.org/pdf4/weq_090110_exelon.doc Cover Letter to Comments Submitted by Southern Companies: http://www.naesb.org/pdf4/req_weq_090110_southern_cover_letter.pdf Comments Submitted by Southern Companies: http://www.naesb.org/pdf4/weq_090110_southern.doc Late Comments on WEQ PAP 10 Submitted by the Smart Grid Standards Subcommittee on Priority Action Plan 10: http://www.naesb.org/pdf4/weq_090110_sgss_late_comments.doc Late Comments Submitted by Midwest ISO in response to the Late Comments on WEQ PAP 10 Submitted by the Smart Grid Standards Subcommittee on Priority Action Plan 10: http://www.naesb.org/pdf4/weq_090110_miso_late.doc Additional Late Comments Submitted by Midwest ISO associated to the October 18 th WEQ PAP-10 Recommendation: http://www.naesb.org/pdf4/weq_090110_miso_additional_late.doc Late Comments Submitted by Southern Companies: http://www.naesb.org/pdf4/weq_090110_southern_late.doc	
October 15, 2010	NAESB Joint WEQ/REQ Executive Committee Single Topic Review Session (Conference Call with Web Conferencing)	Topic: Smart Grid PAPI0	No transcripts provided for review session

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Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
October 15, 2010	<p>Request for Formal Comments on WEQ 2010 Annual Plan Item 6a (Phase 2) – Requirements Specifications for Common Electricity Product and Pricing Definition for NIST Priority Action Plan 03 (PAP 03) due November 15, 2010</p> <p>Recommendation (Phase 2): http://www.naesb.org/pdf4/weq_2010_ap6a_rec_101510.doc</p>	<p>Request for Formal Comments due November 15, 2010: http://www.naesb.org/pdf4/weq_101510_reqcom.doc</p> <p>Comments Submitted by the NAESB Standards Review Subcommittee: http://www.naesb.org/pdf4/weq_111510_weq_srs.doc</p> <p>Comments Submitted by CAISO: http://www.naesb.org/pdf4/weq_111510_caiso.doc</p> <p>Comments Submitted by Trane-IngersollRand (Phase 2, PAP 03): http://www.naesb.org/pdf4/weq_111510_trane_ingersollrand_6a.xls</p> <p>Comments Submitted by California ISO, ERCOT, IESO, ISO New England, Midwest ISO, New York ISO, PJM and SPP (Phase 2 – PAP 03, PAP04, PAP09 and Data Requirements): http://www.naesb.org/pdf4/weq_111510_iso_rto.doc</p> <p>Comments Submitted by Southern Companies (Phase 2, PAP 03): http://www.naesb.org/pdf4/weq_111510_southern_co_6a.doc</p> <p>Comments Submitted by Cox Software Architects, LLC: http://www.naesb.org/pdf4/req_weq_111510_cox.xls</p> <p>Late Comments on Data Requirements Submitted by D. Pratt, J. Phillips and B. Bartell: http://www.naesb.org/pdf4/weq_111510_pratt_phillips_bartell_3_late.doc</p>	<p>No transcripts provided as this was not a meeting – it was a request for formal comments.</p>

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October 15, 2010	<p>Request for Formal Comments WEQ 2010 Annual Plan Item 6b (Phase 2) – Requirements Specifications for Common Scheduling Mechanism for Energy Transactions for NIST Priority Action Plan 04 (PAP 04) due November 15, 2010</p> <p>Recommendation (Phase 2): http://www.naesb.org/pdf4/weq_2010_ap6b_rec_101510.doc</p>	<p>Request for Formal Comments due November 15, 2010: http://www.naesb.org/pdf4/weq_101510_reqcom.doc</p> <p>Comments Submitted by the NAESB Standards Review Subcommittee: http://www.naesb.org/pdf4/weq_111510_weq_srs.doc</p> <p>Comments Submitted by CAISO: http://www.naesb.org/pdf4/weq_111510_caiso.doc</p> <p>Comments Submitted by Trane-IngersollRand (Phase 2, PAP 04): http://www.naesb.org/pdf4/weq_111510_trane_ingersollrand_6b.xls</p> <p>Comments Submitted by Trane-IngersollRand (Terms): http://www.naesb.org/pdf4/req_weq_111510_trane_ingersollrand_terms.xls</p> <p>Comments Submitted by California ISO, ERCOT, IESO, ISO New England, Midwest ISO, New York ISO, PJM and SPP (Phase 2 – PAP 03, PAP04, PAP09 and Data Requirements): http://www.naesb.org/pdf4/weq_111510_iso_rto.doc</p> <p>Comments Submitted by Southern Companies (Phase 2, PAP 04): http://www.naesb.org/pdf4/weq_111510_southern_co_6b.doc</p> <p>Comments Submitted by Cox Software Architects LLC: http://www.naesb.org/pdf4/req_weq_111510_cox.xls</p>	<p>No transcripts provided as this was not a meeting – it was a request for formal comments.</p>

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Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
		Late Comments on Data Requirements Submitted by D. Pratt, J. Phillips and B. Bartell: http://www.naesb.org/pdf4/weq_111510_pratt_phillips_bartell_4_late.doc	
October 15, 2010	Request for Formal Comments on WEQ 2010 Annual Plan Item 6c (Phase 2) – Requirements Specifications for Wholesale Standard DR Signals for NIST Priority Action Plan 09 (PAP 09) due November 15, 2010 Recommendation (Phase 2) : http://www.naesb.org/pdf4/weq_2010_ap_6c_rec_101510_clean.doc (Clean) http://www.naesb.org/pdf4/weq_2010_ap_6c_rec_101510_redline.pdf (Redline)	Request for Formal Comments due November 15, 2010: http://www.naesb.org/pdf4/weq_101510_reqcom.doc Comments Submitted by the NAESB Standards Review Subcommittee: http://www.naesb.org/pdf4/weq_111510_weq_srs.doc Comments Submitted by CAISO: http://www.naesb.org/pdf4/weq_111510_caiso.doc Comments Submitted by Trane-IngersollRand (Terms): http://www.naesb.org/pdf4/req_weq_111510_trane_ingersollrand_terms.xls Comments Submitted by California ISO, ERCOT, IESO, ISO New England, Midwest ISO, New York ISO, PJM and SPP (Phase 2 – PAP 03, PAP04, PAP09 and Data Requirements): http://www.naesb.org/pdf4/weq_111510_iso_rto.doc Comments Submitted by Southern Companies (Phase 2, PAP 09): http://www.naesb.org/pdf4/weq_111510_southern_co_6c.doc Comments Submitted by Cox Software Architects LLC: http://www.naesb.org/pdf4/req_weq_111510_cox.xls	No transcripts provided as this was not a meeting – it was a request for formal comments.

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Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
		Late Comments on Data Requirements Submitted by D. Pratt, J. Phillips and B. Bartell: http://www.naesb.org/pdf4/weq_111510_pratt_phillips_bartell_9_late.doc	
October 15, 2010	Request for Formal Comments on WEQ 2010 Annual Plan Item 6 – Master Data Requirements List for Standards associated with NIST Priority Action Plan 03(PAP 03) and Priority Action Plan (PAP 09) due November 15, 2010 Recommendation: http://www.naesb.org/pdf4/weq_2010_ap6_rec_101510.doc	Request for Formal Comments due November 15, 2010: http://www.naesb.org/pdf4/weq_101510_reqcom.doc Comments Submitted by the NAESB Standards Review Subcommittee: http://www.naesb.org/pdf4/weq_111510_weq_srs.doc Comments Submitted by CAISO: http://www.naesb.org/pdf4/weq_111510_caiso.doc Comments Submitted by Trane-IngersollRand (Terms): http://www.naesb.org/pdf4/req_weq_111510_trane_ingersollrand_terms.xls Comments Submitted by California ISO, ERCOT, IESO, ISO New England, Midwest ISO, New York ISO, PJM and SPP (Phase 2 – PAP 03, PAP04, PAP09 and Data Requirements): http://www.naesb.org/pdf4/weq_111510_iso_rto.doc Comments Submitted by Southern Companies (Phase 2, Data Requirements): http://www.naesb.org/pdf4/weq_111510_southern_co_6.doc Comments Submitted by Cox Software Architects LLC: http://www.naesb.org/pdf4/req_weq_111510_cox.xls	No transcripts provided as this was not a meeting – it was a request for formal comments.

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Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
		Late Comments on Data Requirements Submitted by D. Pratt, J. Phillips and B. Bartell: http://www.naesb.org/pdf4/weq_111510_pratt_phillips_bartell_data_requirements_late.doc	
October 22, 2010	NAESB Joint WEQ/REQ Executive Committee Single Topic Conference Call with Web Conferencing Meeting Minutes: http://www.naesb.org/pdf4/weq_req_ec102210fm.doc	Notational Ballot due October 29, 2010: http://www.naesb.org/pdf4/weq_ec102210ballot.doc Attachments to notational ballot: WEQ PAP10 Recommendation as revised by the WEQ EC on 10/22/2010 (redline): http://www.naesb.org/pdf4/weq_ec102210ballot_a1.doc WEQ PAP10 Recommendation as revised by the WEQ EC on 10/22/2010 (clean): http://www.naesb.org/pdf4/weq_ec102210ballot_a2.doc	Jill Vaughn, CSR – 281-853-6807
October 26, 2010	NAESB Executive Committee Meetings, Richmond, VA WEQ EC Minutes: http://www.naesb.org/pdf4/weq_ec102610fm.doc	No comments requested or provided relating to the Smart Grid standards	Jill Vaughn, CSR – 281-853-6807
December 6, 2010	NAESB WEQ Executive Committee Notational Ballot due December 20, 2010 Results: http://www.naesb.org/pdf4/weq_ec120610ballot_results.doc	Harmonization of Defined Terms	No transcripts provided as this was not a meeting – it was a notational ballot.

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February 1, 2011	NAESB Executive Committee Meetings, Phoenix, AZ WEQ EC Minutes: http://www.naesb.org/pdf4/weq_ec020111dm.doc	Notational Ballot due February 18, 2011: http://www.naesb.org/pdf4/weq_ec020111ballot.doc Recommendation WEQ 2010 Annual Plan Item 6(a-c) as revised by the WEQ EC on 02/01/2011: http://www.naesb.org/pdf4/weq_ec020111a2.doc Recommendation WEQ 2010 Annual Plan Item 6a(ii) as revised by the WEQ EC on 02/01/2011: http://www.naesb.org/pdf4/weq_ec020111a3.doc Recommendation WEQ 2010 Annual Plan Item 6b(ii) as revised by the WEQ EC on 02/01/2011: http://www.naesb.org/pdf4/weq_ec020111a4.doc Recommendation WEQ 2010 Annual Plan Item 6c(ii) as adopted by the WEQ EC on 02/01/2011: http://www.naesb.org/pdf4/weq_ec020111a5.doc	Jill Vaughn, CSR – 281-853-6807

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Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
NAESB Retail Electric Quadrant Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
October 28, 2009	NAESB Executive Committee Meetings, Richmond, VA Retail EC Minutes: http://www.naesb.org/pdf4/retail_ec102809fm.doc	No comments requested or provided relating to the REQ Smart Grid standards	Jill Vaughn, CSR - 281-853-6807
December 22, 2009	NAESB Retail Executive Committee Notational Ballot due January 15, 2010 Results: http://www.naesb.org/pdf4/retail_ec122209results.doc	No comments requested or provided relating to the REQ Smart Grid standards	No transcripts provided as this was not a meeting – it was a notational ballot.
February 3, 2010	NAESB Executive Committee Meetings, Phoenix, AZ Retail EC Minutes: http://www.naesb.org/pdf4/retail_ec020310fm.doc	No comments requested or provided relating to the REQ Smart Grid standards	Jill Vaughn, CSR - 281-853-6807
February 19, 2010	NAESB Retail Executive Committee Notational Ballot due March 5, 2010 Results: http://www.naesb.org/pdf4/wgq_req_rgq_ec021910results.doc	No comments requested or provided relating to the REQ Smart Grid standards	No transcripts provided as this was not a meeting – it was a notational ballot.

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Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
March 9, 2010	<p>Request for Formal Comments on 2010 Retail Annual Plan Item No. 9(a) – Requirements Specifications for Common Electricity Product and Pricing Definitions for NIST Priority Action Plan 03 (PAP 03) due April 9, 2010:</p> <p>Recommendation: http://www.naesb.org/pdf4/weq_2010_ap6a_retail_2010_ap9a_rec.doc</p>	<p>Request for Formal Comments due April 9, 2010: http://www.naesb.org/pdf4/req_030910_reqcom.doc</p> <p>Comments Submitted by the NAESB Standards Review Subcommittee: http://www.naesb.org/pdf4/weq_req_030910_pap_03_weq_srs.doc</p> <p>Comments Submitted by BPA: http://www.naesb.org/pdf4/weq_req_030910_pap_03_bpa.doc</p> <p>Comments Submitted by TVA: http://www.naesb.org/pdf4/weq_req_030910_pap_03_tva.doc</p> <p>Cover Letter to Comments Submitted by Honeywell: http://www.naesb.org/pdf4/weq_req_030910_pap_03_honeywell_cover.pdf</p> <p>Comments Submitted by Honeywell: http://www.naesb.org/pdf4/weq_req_030910_pap_03_honeywell.doc</p> <p>Comments Submitted by the ISO/RTO Council: http://www.naesb.org/pdf4/weq_req_030910_pap_03_irc.doc</p> <p>Late Comments Submitted by Midwest ISO: http://www.naesb.org/pdf4/weq_req_030910_pap_03_miso_late.doc</p> <p>Late Comments Submitted by the Smart Grid Standards Task Force: http://www.naesb.org/pdf4/weq_req_030910_pap_03_sgstf_late.doc</p>	<p>No transcripts provided as this was not a meeting – it was a request for formal comments.</p>

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Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
March 9, 2010	Request for Formal Comments on 2010 Retail Annual Plan Item No. 9(c) - Requirements Specifications for Retail Standard DR Signals for NIST Priority Action Plan 09 (PAP 09) due April 9, 2010: Recommendation: http://www.naesb.org/pdf4/retail_2010_ap_9c_rec.doc	Request for Formal Comments due April 9, 2010: http://www.naesb.org/pdf4/req_030910_reqcom.doc Comments Submitted by Oak Ridge National Laboratory: http://www.naesb.org/pdf4/retail_030910_9c_ornl.doc Cover Letter to Comments Submitted by Honeywell: http://www.naesb.org/pdf4/req_030910_pap09_honeywell_cover.pdf Comments Submitted by Honeywell: http://www.naesb.org/pdf4/req_030910_pap09_honeywell.doc Comments Submitted by the ISO/RTO Council: http://www.naesb.org/pdf4/req_030910_pap09_irc.doc Late Comments Submitted by the NAESB Smart Grid Standards Task Force: http://www.naesb.org/pdf4/req_030910_pap09_staff_late.doc	No transcripts provided as this was not a meeting – it was a request for formal comments.
May 5, 2010	NAESB Executive Committee Meetings, Harrisburg, PA Retail EC Minutes: http://www.naesb.org/pdf4/retail_ec050510fm.doc	No comments requested or provided relating to the REQ Smart Grid standards	Jill Vaughn, CSR – 281-853-6807
June 7, 2010	NAESB Joint WEQ/REQ Executive Committee Single Topic Review Session (Conference Call with Web Conferencing) Meeting Minutes: http://www.naesb.org/pdf4/weq_req_ec060710mn.doc	Topic: Smart Grid PAPs 3, 4, and 9: 2010 WEQ Annual Plan Item 6(a)/2010 REQ Annual Plan Item 9(a), 2010 WEQ Annual Plan Item 6(b)/2010 REQ Annual Plan Item 9(b), 2010 WEQ Annual Plan Item 6(c) and 2010 REQ Annual Plan Item 9(c)	No transcripts provided for review session

Appendix C: Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts
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Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
June 16, 2010	NAESB Joint WEQ/REQ Executive Committee Single Topic Conference Call with Web Conferencing Meeting Minutes: http://www.naesb.org/pdf4/weq_req_ec061610fm.doc	Recommendations: 2010 REQ Annual Plan Item 9(a) - PAP03 as Approved by the REQ EC on June 16, 2010: http://www.naesb.org/pdf4/weq_req_ec061610a4.doc 2010 Retail Annual Plan Item 9(b) - PAP04 as Approved by the REQ EC on June 16, 2010: http://www.naesb.org/pdf4/weq_req_ec061610a5.doc 2010 Retail Annual Plan Item 9(c) - PAP09 Retail as Approved by the REQ EC on June 16, 2010: http://www.naesb.org/pdf4/weq_req_ec061610a6.doc	Jill Vaughn, CSR – 281-853-6807
August 18, 2010	NAESB Executive Committee Meetings, Colorado Springs, CO Retail EC Minutes: http://www.naesb.org/pdf4/retail_ec081810fm.doc	No comments requested or provided relating to the REQ Smart Grid standards	Agren Blando Court Reporting – 303-296-0017
September 1, 2010	Request for Formal Comments on Retail 2010 Annual Plan Item 9d – Business Practices and Information Models to Support Priority Action Plan 10 (PAP 10) – Standardized Energy Usage Information due September 30, 2010 Recommendation: http://www.naesb.org/pdf4/req_2010_ap_9d_rec.doc	Request for Formal Comments due September 30, 2010: http://www.naesb.org/pdf4/weq_req_090110_reqom.doc Comments Submitted by Aclara-Power-Line Systems: http://www.naesb.org/pdf4/req_090110_aclara.xls Comments Submitted by BGE: http://www.naesb.org/pdf4/req_090110_bge.doc Comments Submitted by Schneider Electric: http://www.naesb.org/pdf4/req_weq_090110_schneider_electric.doc Comments Submitted by Edison Electric Institute: http://www.naesb.org/pdf4/req_weq_090110_eei.pdf Comments Submitted by the IEC 61968-9 Team: http://www.naesb.org/pdf4/req_weq_090110_iec_619689team_file1.xls	No transcripts provided as this was not a meeting – it was a request for formal comments.

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Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
		<p>UML Class Diagram Submitted by the IEC 61968-9 Team: http://www.naesb.org/pdf4/req_weq_090110_iec_619689team_file2.jpg</p> <p>Comments Submitted by Johnson Controls: http://www.naesb.org/pdf4/req_090110_johnson_controls.xls</p> <p>Comments Submitted by Exelon Corp: http://www.naesb.org/pdf4/req_090110_exelon.doc</p> <p>Comments Submitted by Cox Software Architects: http://www.naesb.org/pdf4/req_090110_cox_software_file1.xls</p> <p>Image Referred to in Comment 13 Submitted by Cox Software Architects: http://www.naesb.org/pdf4/req_090110_cox_software_file2.jpg</p> <p>Cover Letter to Comments Submitted by Southern Companies: http://www.naesb.org/pdf4/req_090110_cox_software_file2.jpg</p> <p>Comments Submitted by Southern Companies: http://www.naesb.org/pdf4/req_090110_southern.doc</p> <p>Comments Submitted by EIS Alliance: http://www.naesb.org/pdf4/req_090110_eis_alliance.xls</p> <p>Comments Submitted by Honeywell: http://www.naesb.org/pdf4/req_090110_honeywell.xls</p> <p>Comments Submitted by Xtensible Solutions: http://www.naesb.org/pdf4/req_090110_xtensible_solutions.doc</p>	

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Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
		Late Comments on REQ PAP 10 Submitted by the Smart Grid Standards Subcommittee on Priority Action Plan 10: http://www.naesb.org/pdf4/req_090110_sgss_late_comments.doc Late Comments Submitted by Southern Companies: http://www.naesb.org/pdf4/req_090110_southern_late.doc	
October 15, 2010	NAESB Joint WEQ/REQ Executive Committee Single Topic Review Session (Conference Call with Web Conferencing)	Topic: Smart Grid PAP 10	No transcripts provided for review session
October 15, 2010	Request for Formal Comments on 2010 Retail Annual Plan Item 9 – Master Data Requirements List for Standards Associated with NIST Priority Action Plan 03 (PAP 03) and Priority Action Plan 09 (PAP 09) due November 15, 2010 Recommendation: http://www.naesb.org/pdf4/req_2010_ap9_rec_101510.doc	Request for Formal Comments due November 15, 2010: http://www.naesb.org/pdf4/req_101510_reqcom.doc REQ and WEQ Comments Submitted by Trane-IngersollRand (Terms): http://www.naesb.org/pdf4/req_weq_111510_trane_ingersollrand_terms.xls WEQ Comments Submitted by Southern Company (Phase 2 Data Requirements): http://www.naesb.org/pdf4/req_111510_southernco_9.doc Late Comments Submitted by D. Pratt, J. Phillips and B. Bartell: http://www.naesb.org/pdf4/req_111510_pratt_phillips_bartell_data_requirements_late.doc Late Comments Submitted by Southern Companies: http://www.naesb.org/pdf4/req_111510_southern_data_requirements_late.doc	No transcripts provided as this was not a meeting – it was a request for formal comments.

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Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
October 15, 2010	<p>Request for Formal Comments on 2010 Retail Annual Plan Item 9(a) Phase 2 – Requirements Specifications for Common Electricity Product and Pricing Definitions for NIST Priority Action Plan 03 (PAP 03):</p> <p>Recommendation: http://www.naesb.org/pdf4/retail_2010_ap9a_rec_101510.doc</p>	<p>Request for Formal Comments due November 15, 2010: http://www.naesb.org/pdf4/req_101510_reqcom.doc</p> <p>Comments Submitted by Xtensible Solutions: http://www.naesb.org/pdf4/req_111510_xtensible_solutions.doc</p> <p>Comments Submitted by BGE: http://www.naesb.org/pdf4/req_111510_bge_9a.doc</p> <p>Comments Submitted by Trane-IngersollRand (Phase 2, PAP 03): http://www.naesb.org/pdf4/req_111510_trane_ingersollrand_9a.xls</p> <p>Comments Submitted by Trane-IngersollRand (Terms): http://www.naesb.org/pdf4/req_weq_111510_trane_ingersollrand_terms.xls</p> <p>WEQ Comments Submitted by Southern Companies: http://www.naesb.org/pdf4/req_111510_southern_o_9a.doc</p> <p>Comments Submitted by Cox Software Architects LLC: http://www.naesb.org/pdf4/req_weq_111510_cox.xls</p> <p>Late Comments Submitted by D. Pratt, J. Phillips and B. Bartell: http://www.naesb.org/pdf4/req_111510_pratt_phillips_bartell_3_late.doc</p> <p>Late Comments Submitted by Southern Companies: http://www.naesb.org/pdf4/req_111510_southern_3_late.doc</p>	<p>No transcripts provided as this was not a meeting – it was a request for formal comments.</p>

Appendix C: Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts
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Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
October 15, 2010	<p>Request for Formal Comments on 2010 Retail Annual Plan Item No. 9(b) Phase 2 – Requirements Specifications for Common Scheduling Mechanism for Energy Transactions for NIST Priority Action Plan 04 (PAP 04) due November 15, 2010:</p> <p>Recommendation: http://www.naesb.org/pdf4/retail_2010_ap9b_rec_101510.doc</p>	<p>Request for Formal Comments due November 15, 2010: http://www.naesb.org/pdf4/req_101510_reqcom.doc</p> <p>Comments Submitted by Xtensible Solutions: http://www.naesb.org/pdf4/req_111510_xtensible_solutions.doc</p> <p>Comments Submitted by BGE: http://www.naesb.org/pdf4/req_111510_bge_9b.doc</p> <p>REQ Comments Submitted by Trane-IngersollRand (Terms): http://www.naesb.org/pdf4/req_111510_trane_ingersollrand_9b.xls</p> <p>WEQ Comments Submitted by Southern Companies: http://www.naesb.org/pdf4/req_111510_southernco_9b.doc</p> <p>Comments Submitted by Cox Software Architects, LLC: http://www.naesb.org/pdf4/req_weq_111510_cox.xls</p> <p>Late Comments Submitted by D. Pratt, J. Phillips and B. Bartell: http://www.naesb.org/pdf4/req_111510_pratt_phillips_bartell_4_late.doc</p> <p>Late Comments Submitted by Southern Companies: http://www.naesb.org/pdf4/req_111510_southern_4_late.doc</p>	<p>No transcripts provided as this was not a meeting – it was a request for formal comments.</p>

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Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
October 15, 2010	<p>Request for Formal Comments on 2010 Retail Annual Plan Item No. 9(c) Phase 2 - Requirements Specifications for Retail Standard DR Signals for NIST Priority Action Plan 09 (PAP 09) due November 15, 2010:</p> <p>Recommendation: http://www.naesb.org/pdf4/retail_2010_ap_9c_rec_101510.doc</p>	<p>Request for Formal Comments due November 15, 2010: http://www.naesb.org/pdf4/req_101510_reqcom.doc</p> <p>Comments Submitted by Xtensible Solutions: http://www.naesb.org/pdf4/req_111510_xtensible_solutions.doc</p> <p>Comments Submitted by Lawrence Berkeley National Laboratory: http://www.naesb.org/pdf4/req_111510_drcc_lbnl.pdf</p> <p>Comments Submitted by BGE: http://www.naesb.org/pdf4/req_111510_bge_9c.doc</p> <p>REQ Comments Submitted by Trane-IngersollRand (Phase 2, PAP 09): http://www.naesb.org/pdf4/req_111510_trane_ingersollrand_9c.xls</p> <p>REQ and WEQ Comments Submitted by Trane-IngersollRand (Terms): http://www.naesb.org/pdf4/req_weq_111510_trane_ingersollrand_terms.xls</p> <p>WEQ Comments Submitted by Southern Companies: http://www.naesb.org/pdf4/req_111510_southernco_9c.doc</p> <p>Comments Submitted by Cox Software Architects, LLC: http://www.naesb.org/pdf4/req_weq_111510_cox.xls</p>	<p>No transcripts provided as this was not a meeting – it was a request for formal comments.</p>

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Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
		Late Comments Submitted by D. Pratt, J. Phillips and B. Bartell: http://www.naesb.org/pdf4/req_111510_pratt_phillips_bartell_9_late.doc Late Comments Submitted by Southern Companies: http://www.naesb.org/pdf4/req_111510_southern_9_late.doc	
October 22, 2010	NAESB Joint WEQ/REQ Executive Committee Single Topic Conference Call with Web Conferencing Meeting Minutes: http://www.naesb.org/pdf4/weq_req_ec102210fm.doc	Recommendations: REQ PAPI0 Recommendation as approved by the REQ EC on 10/22/2010 (clean): http://www.naesb.org/pdf4/weq_req_ec102210a1.doc REQ PAPI0 Recommendation as approved by the REQ EC on 10/22/2010 (redline): http://www.naesb.org/pdf4/weq_req_ec102210a2.doc	Jill Vaughn, CSR – 281-853-6807
October 27, 2010	NAESB Executive Committee Meetings, Richmond, VA Retail EC Minutes: http://www.naesb.org/pdf4/retail_ec102710fm.doc	No comments requested or provided relating to the REQ Smart Grid standards	Jill Vaughn, CSR – 281-853-6807

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Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
February 2, 2011	NAESB Executive Committee Meetings, Phoenix, AZ Retail EC Minutes: http://www.naesb.org/pdf4/retail_ec020211dm.doc	Recommendations: 2010 Retail Annual Plan Item 9(a) Phase Two Requirements Specification for Common Electricity Product and Pricing Definition – for NIST PAP03 as approved by the REQ Executive Committee on February 2, 2011: http://www.naesb.org/member_login_check.asp?doc=req_rat021811_2010_retail_api_9_a_rec.doc 2010 Retail Annual Plan Item 9(a-c) Master Data Elements List for Business Practice Standards associated with NIST PAP 03 and PAP 09 as approved by the REQ Executive Committee on February 2, 2011: http://www.naesb.org/member_login_check.asp?doc=req_rat021811_2010_retail_api_9_a-c_rec.doc 2010 Retail Annual Plan Item 9(b)(ii) Phase Two - Requirements Specifications for Common Schedule Communication Mechanism for Energy Transactions – for NIST PAP04 as approved by the REQ Executive Committee on February 2, 2011: http://www.naesb.org/member_login_check.asp?doc=req_rat021811_2010_retail_api_9_b_ii_rec.doc 2010 Retail Annual Plan Item 9(c) Phase Two Requirements Specification for Retail Standard DR Signals – for NIST PAP09 as approved by the REQ Executive Committee on February 2, 2011: http://www.naesb.org/member_login_check.asp?doc=req_rat021811_2010_retail_api_9_c_rec.doc	Jill Vaughn, CSR – 281-853-6807
March 25, 2011	NAESB REQ Executive Committee Notational Ballot due April 8, 2011 Results: http://www.naesb.org/pdf4/req_ec032511ballot_results.doc	No comments requested or provided relating to the REQ Smart Grid standards	No transcripts provided as this was not a meeting – it was a notational ballot.

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Appendix C – Executive Committee Meeting Minutes, Comments, Voting Records Links and Availability of Transcripts			
Date	Link to Executive Committee Minutes and Voting Records	Link to Comments	Availability of Transcripts ¹
April 13, 2011	NAESB Retail Executive Committee Notational Ballot due April 27, 2011	MC11012 - Minor Correction to Retail Books, Version 1.3, Business Definitions - updates reflect the most-recently approved definitions by the REQ Glossary Subcommittee: http://www.naesb.org/pdf4/retail_mc11012.doc	No transcripts provided as this was not a meeting – it was a notational ballot.

Appendix D – Ratification Ballot and Ratification Results

Date of Ratification	Ratification Ballot	Results	Final Actions
<p>July 21, 2010</p>	<p>Ratification Ballot Due August 20, 2011: http://www.naesb.org/member_login_form.asp?doc=weq_rat072110balot.doc</p> <p>Recommendation 2010 WEQ Annual Plan Item No. 6(a) - Requirements Specifications for Common Electricity Product and Pricing Definition – for NIST Priority Action Plan 03 (PAP 03) as revised by the WEQ EC on July 7, 2010: http://www.naesb.org/member_login_form.asp?doc=weq_rat072110_w eq_2010_api_6a_rec_redline.doc (Redline)</p> <p>Recommendation 2010 WEQ Annual Plan Item No. 6(a) - Requirements Specifications for Common Electricity Product and Pricing Definition – for NIST PAP 03 as revised by the WEQ EC on July 7, 2010: http://www.naesb.org/member_login_form.asp?doc=weq_rat072110_w eq_2010_api_6a_rec_clean.doc (Clean)</p> <p>Recommendation 2010 WEQ Annual Plan Item No. 6(b) - Requirements Specifications for Common Scheduling Mechanism for Energy Transactions – for NIST Priority Action Plan 04 (PAP 04) as revised by the WEQ EC on July 7, 2010: http://www.naesb.org/member_login_form.asp?doc=weq_rat072110_w eq_2010_api_6b_rec_redline.doc (Redline)</p> <p>Recommendation 2010 WEQ Annual Plan Item No. 6(b) - Requirements Specifications for Common Scheduling Mechanism for Energy Transactions – for NIST PAP 04 as revised by the WEQ EC on July 7, 2010: http://www.naesb.org/member_login_form.asp?doc=weq_rat072110_w eq_2010_api_6b_rec_clean.doc (Clean)</p> <p>Recommendation 2010 WEQ Annual Plan Item No. 6(c) - Requirements Specifications for Wholesale Standard DR Signals - for NIST Priority Action Plan 09 (PAP 09) as revised by the WEQ EC on July 7, 2010: http://www.naesb.org/member_login_form.asp?doc=weq_rat072110_w eq_2010_api_6c_rec_redline.doc (Redline)</p>	<p>Ratification Tally: http://www.naesb.org/member_login_form.asp?doc=rat_weq082010tally.xls</p> <p>Comments Submitted by Midwest ISO: http://www.naesb.org/pdf4/weq_rat082010_miso.pdf</p>	<p>2010 WEQ Annual Plan Item No. 6(a) Final Action - Requirements Specifications for Common Electricity Product and Pricing Definition – for NIST PAP 03: http://www.naesb.org/member_login_check.asp?doc=fa_weq_2010_api_6a.doc</p> <p>2010 WEQ Annual Plan Item No. 6(b) Final Action - Requirements Specifications for Common Scheduling Mechanism for Energy Transactions – for NIST PAP 04: http://www.naesb.org/member_login_check.asp?doc=fa_weq_2010_api_6b.doc</p> <p>2010 WEQ Annual Plan Item No. 6(c) Final Action - Requirements Specifications for Wholesale Standard DR Signals - for NIST PAP 09: http://www.naesb.org/member_login_check.asp?doc=fa_weq_2010_api_6c.doc</p>

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Date of Ratification	Ratification Ballot	Results	Final Actions
	Recommendation 2010 WEQ Annual Plan Item No. 6(c) - Requirements Specifications for Wholesale Standard DR Signals - for NIST PAP 09 as revised by the WEQ EC on July 7, 2010: http://www.naesb.org/member_login_form.asp?doc=weq_rat072110_weq_2010_api_6c_rec_clean.doc (Clean)		
October 29, 2010	Ratification Ballot due November 29, 2010: http://www.naesb.org/member_login_check.asp?doc=weq_rat102910b_allot.doc Recommendation 2010 WEQ Annual Plan Item 6(d) - Business Practices and Information Models to Support NIST Priority Action Plan 10 (PAP 10) – Standardized Energy Usage Information approved by the WEQ EC on October 29, 2010: http://www.naesb.org/member_login_check.asp?doc=weq_rat102910_weq_2010_ap_6d_rec.doc	Ratification Tally: http://www.naesb.org/member_login_check.asp?doc=rat_weq112910tally.xls Comments Submitted by Midwest ISO: http://www.naesb.org/pdf4/weq_rat112910_miso.pdf	2010 WEQ Annual Plan Item 6(d) Final Action - Business Practices and Information Models to Support NIST PAP 10 – Standardized Energy Usage Information:

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Date of Ratification	Ratification Ballot	Results	Final Actions
February 18, 2011	<p>Ratification Ballot Due March 21, 2011: http://www.naesb.org/member_login_form.asp?doc=weq_rat021811ballot.doc</p> <p>Recommendation 2010 WEQ Annual Plan Item 6(a)(ii) Phase Two - Requirements Specification for Common Electricity Product and Pricing Definition – for NIST Priority Action Plan 03 (PAP 03) as approved by the WEQ Executive Committee on February 18, 2011: http://www.naesb.org/member_login_form.asp?doc=weq_rat021811_2010_weq_api_6_a_ii_rec.doc</p> <p>Recommendation 2010 WEQ Annual Plan Item 6(a-c) - Master Data Elements List for Business Practice Standards associated with NIST Priority Action Plan 03 (PAP 03) and Priority Action Plan 09 (PAP 09) as approved by the WEQ Executive Committee on February 18, 2011: http://www.naesb.org/member_login_form.asp?doc=weq_rat021811_2010_weq_api_6_a-c_rec.doc</p> <p>Recommendation 2010 WEQ Annual Plan Item 6(b)(ii) Phase Two - Requirements Specifications for Common Schedule Communication Mechanism for Energy Transactions – for NIST Priority Action Plan 04 (PAP 04) as approved by the WEQ Executive Committee on February 18, 2011: http://www.naesb.org/member_login_form.asp?doc=weq_rat021811_2010_weq_api_6_b_ii_rec.doc</p> <p>Recommendation: 2010 WEQ Annual Plan Item 6(c)(ii) Phase Two - Requirements Specification for Wholesale Standard DR Signals – for NIST Priority Action Plan 09 (PAP09) as approved by the WEQ Executive Committee on February 18, 2011: http://www.naesb.org/member_login_form.asp?doc=weq_rat021811_2010_weq_api_6_c_ii_rec.doc</p>	<p>Ratification Tally: http://www.naesb.org/member_login_check.asp?doc=rat_weq032111tally.xls</p>	<p>2010 WEQ Annual Plan Item 6(a)(ii) Phase Two Final Action - Requirements Specification for Common Electricity Product and Pricing Definition – for NIST PAP 03: http://www.naesb.org/member_login_check.asp?doc=fa_2010_weq_api_6_a_ii.doc</p> <p>2010 WEQ Annual Plan Item 6(a-c) Final Action - Master Data Elements List for Business Practice Standards associated with NIST PAP 03 and PAP 09: http://www.naesb.org/member_login_check.asp?doc=fa_2010_weq_api_6_a-c.doc</p> <p>2010 WEQ Annual Plan Item 6(b)(ii) Phase Two Final Action - Requirements Specifications for Common Schedule Communication Mechanism for Energy Transactions – for NIST PAP 04: http://www.naesb.org/member_login_check.asp?doc=fa_2010_weq_api_6_b_ii.doc</p> <p>2010 WEQ Annual Plan Item 6(c)(ii) Phase Two Final Action - Requirements Specification for Wholesale Standard DR Signals – for NIST PAP 09: http://www.naesb.org/member_login_check.asp?doc=fa_2010_weq_api_6_c_ii.doc</p>

Appendix D – Ratification Ballot and Ratification Results

Date of Ratification	Ratification Ballot	Results	Final Actions
NAESB Retail Electric Quadrant Ratification Ballot and Ratification Results			
June 30, 2010	Ratification Ballot Due July 30, 2010: http://www.naesb.org/member_login_form.asp?doc=req_rat063010ballot.doc Recommendation 2010 REQ Annual Plan Item No. 9(a) - Requirements Specifications for Common Electricity Product and Pricing Definition – for NIST Priority Action Plan 03 (PAP 03) as approved by the REQ EC on June 16, 2010: http://www.naesb.org/member_login_form.asp?doc=req_rat063010_req_2010_api_9a_rec.doc Recommendation 2010 REQ Annual Plan Item No. 9(b) - Requirements Specifications for Common Scheduling Mechanism for Energy Transactions – for NIST Priority Action Plan 04 (PAP 04) as approved by the REQ EC on June 16, 2010: http://www.naesb.org/member_login_form.asp?doc=req_rat063010_req_2010_api_9b_rec.doc Recommendation 2010 REQ Annual Plan Item No. 9(c) - Requirements Specifications for Retail Standard DR Signals - for NIST Priority Action Plan 09 (PAP 09) as approved by the REQ EC on June 16, 2010: http://www.naesb.org/member_login_form.asp?doc=req_rat063010_req_2010_api_9c_rec.doc	Ratification Tally: http://www.naesb.org/member_login_form.asp?doc=rat_req073010tally.xls	2010 REQ Annual Plan Item No. 9(a) Final Action - Requirements Specifications for Common Electricity Product and Pricing Definition – for NIST PAP03: http://www.naesb.org/member_login_check.asp?doc=fa_req_2010_retail_api_9a.doc 2010 REQ Annual Plan Item No. 9(b) Final Action - Requirements Specifications for Common Scheduling Mechanism for Energy Transactions – for NIST PAP 04: http://www.naesb.org/member_login_check.asp?doc=fa_req_2010_retail_api_9b.doc 2010 REQ Annual Plan Item No. 9(c) Final Action - Requirements Specifications for Retail Standard DR Signals - for NIST PAP 09: http://www.naesb.org/member_login_check.asp?doc=fa_req_2010_retail_api_9c.doc
October 29, 2010	Ratification Ballot due November 29, 2010: http://www.naesb.org/member_login_check.asp?doc=req_rat102910ballot.doc Recommendation: 2010 Retail Annual Plan Item 9(d) - Business Practices and Information Models to Support NIST Priority Action Plan 10 (PAP 10)– Standardized Energy Usage Information approved by the REQ EC on October 22, 2010: http://www.naesb.org/member_login_check.asp?doc=req_rat102910_req_2010_ap_9d_rec.doc	Ratification Tally: http://www.naesb.org/member_login_check.asp?doc=rat_req112910tally.xls	2010 Retail Annual Plan Item 9(d) Final Action - Business Practices and Information Models to Support NIST PAP 10– Standardized Energy Usage Information: http://www.naesb.org/member_login_check.asp?doc=fa_req_2010_retail_ap_9d.doc

Appendix D – Ratification Ballot and Ratification Results

Date of Ratification	Ratification Ballot	Results	Final Actions
February 18, 2011	<p>Ratification Ballot Due March 21, 2011: http://www.naesb.org/member_login_check.asp?doc=req_rat021811ballot.doc</p> <p>Recommendation 2010 Retail Annual Plan Item No. 9(a) Phase Two - Requirements Specification for Common Electricity Product and Pricing Definition – for NIST Priority Action Plan 03 (PAP 03) as approved by the REQ Executive Committee on February 2, 2011: http://www.naesb.org/member_login_form.asp?doc=req_rat021811_2010_retail_api_9_a_rec.doc</p> <p>Recommendation 2010 Retail Annual Plan Item Nos. 9(a-c) - Master Data Elements List for Business Practice Standards associated with NIST Priority Action Plan 03 (PAP 03) and Priority Action Plan 09 (PAP 09) as approved by the REQ Executive Committee on February 2, 2011: http://www.naesb.org/member_login_form.asp?doc=req_rat021811_2010_retail_api_9_a-c_rec.doc</p> <p>Recommendation 2010 Retail Annual Plan Item No. 9(b)(ii) Phase Two - Requirements Specifications for Common Schedule Communication Mechanism for Energy Transactions – for NIST Priority Action Plan 04 (PAP 04) as approved by the REQ Executive Committee on February 2, 2011: http://www.naesb.org/member_login_form.asp?doc=req_rat021811_2010_retail_api_9_b_ii_rec.doc</p> <p>Recommendation 2010 Retail Annual Plan Item No. 9(c) Phase Two - Requirements Specification for Retail Standard DR Signals – for NIST Priority Action Plan 09 (PAP 09) as approved by the REQ Executive Committee on February 2, 2011: http://www.naesb.org/member_login_form.asp?doc=req_rat021811_2010_retail_api_9_c_rec.doc</p>	<p>Ratification Tally: http://www.naesb.org/member_login_form.asp?doc=rat_req032111tally.xls</p>	<p>2010 Retail Annual Plan Item 9(a) Phase Two Final Action -Requirements Specification for Common Electricity Product and Pricing Definition – for NIST PAP 03: http://www.naesb.org/member_login_check.asp?doc=fa_2010_retail_api_9_a.doc</p> <p>2010 Retail Annual Plan Item 9(a-c) Final Action - Master Data Elements List for Business Practice Standards associated with NIST PAP 03 and PAP 09: http://www.naesb.org/member_login_check.asp?doc=fa_2010_retail_api_9_a-c.doc</p> <p>2010 Retail Annual Plan Item 9(b)(ii) Phase Two Final Action - Requirements Specifications for Common Schedule Communication Mechanism for Energy Transactions – for NIST PAP 04: http://www.naesb.org/member_login_check.asp?doc=fa_2010_retail_api_9_b_ii.doc</p> <p>2010 Retail Annual Plan Item 9(c) Phase Two Final Action - Requirements Specification for Retail Standard DR Signals – for NIST PAP 09: http://www.naesb.org/member_login_check.asp?doc=fa_2010_retail_api_9_c.doc</p>

NORTH AMERICAN ENERGY STANDARDS BOARD
NAESB 2009 WEQ Annual Plan as Approved by the Board on December 10, 2009

Item Description	Completion ¹	Assignment ^{2,3}
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) Develop business practices to support Coordinate Interchange – R05020 “Include a guideline for rounding schedules with partial MWh’s in the coordinate interchange business practice WEQ BPS-002-000” the rounding standard recommendation	3 rd Q, 2009	JESS
Status: Completed. Recommendation was voted out of the JESS on September 2, 2009. Formal comment period closed on October 8, 2009.		
b) Continuous support of TLR Procedure in alignment with NERC efforts on TLR Phase II and Phase III development.		
i) Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection.	2010	BPS
Note: Activity is dependent on NERC approval of SAR expected in 2 nd Q, 2009. Upon approval of the SAR and NAESB action on this item, consideration should be given to provisional item 4.		
Status: Started		
ii) Update WEQ-008 Appendix D to include the Market Flow Threshold Percentage recommended by NERC working group/task force	3 rd Q, 2009	BPS
Status: Completed. The WEQ BPS voted a minor correction out of subcommittee on August 12, 2009		
c) Conduct analysis as to whether standards can be developed which outline a standardized process for the coordination and execution of emergency energy schedules. These would be complementary standards to EOP-002-2 Requirements R4 and R6 (SRS Analysis of EOP-002-2 R4 & R6)	1 st Q, 2009	JESS
Status: Completed and as a result item (3)(a)(viii) has been added to the plan		
d) Time Error and Inadvertent (BAL-004 and BAL-006) Coordination with NERC	TBD	TIMTF
Status: Monitor. (Upon initiation of this item by NAESB, a completion date will be determined. Based on discussions with NERC staff regarding the Balancing Authority Controls Standards Drafting Team’s timeline the completion date has been changed to TBD.)		
e) DCS and AGC (BAL-002 and BAL-005) Coordination with NERC	TBD	TIMTF
Status Monitor. (Upon initiation of this item by NAESB, a completion date will be determined. Based on discussions with NERC staff regarding the Balancing Authority Controls Standards Drafting Team’s timeline the completion date has been changed to TBD.)		

NORTH AMERICAN ENERGY STANDARDS BOARD
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Item Description	Completion ¹	Assignment ^{2,3}
2 Develop business practice standards in support of the FERC RM05-25-000 and RM05-17-000 (OATT Reform)		
a) Develop version 2 business practice standards to better coordinate the use of the transmission system among neighboring transmission providers. Such business practice standards would be based on recommendations from NERC's Long Term ATC/AFC Task Force and would involve revised procedures for the ATC calculation and/or revised protocols as determined by the final order. Status: Underway Development is using joint standards development process with NERC. Request R050004 was expanded to include the Order No. 890 (Docket Nos. RM05-25-000 and RM05-17-000) and Order No. 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002), "Preventing Undue Discrimination and Preference in Transmission Services," issued April 11, 2007).		
i) Group 3: Network Service On OASIS		
1. Use of OASIS to Make Electronic Requests to Designate and Terminate Network Resource	1 st Q, 2010	OASIS
Status: Underway		
2. Ability to Query Requests to Designate and Terminate Network Resources and Allow for Queries of All Information Provided with Designation Requests	1 st Q, 2010	OASIS
Status: Underway		
3. Masking of Designated Network Resource Operating Restrictions and Generating Cost Information	1 st Q, 2010	OASIS
Status: Underway		
4. Procedural Requirements for Submitting Designations over new OASIS Functionality	1 st Q, 2010	OASIS
Status: Underway		
5. Specify How Designated Network Service Informational Postings are Posted on OASIS	1 st Q, 2010	OASIS
Status: Underway		
6. Develop standards for the treatment of OASIS Requests when the Customer Fails to Provide the Necessary Attestation	1 st Q, 2010	OASIS
Status: Underway		
7. Procedural Requirements for Submitting Both Temporary and Indefinite Terminations of Network Resources	1 st Q, 2010	OASIS
Status: Underway		
8. Procedures for Submitting and Processing Requests for Concomitant Evaluations of Transmission Requests and Temporary Terminations	1 st Q, 2010	OASIS
Status: Underway		

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	Item Description	Completion¹	Assignment^{2,3}
ii)	Group 4: Pre-Emption; Request No. R05019; and Revisions to Standard 9.7		
	1. Pre-Emption Status: Not Started	3rd Q, 2010	OASIS
	2. Request No. R05019 Status: Not Started	3rd Q, 2010	OASIS
	3. Modify WEQ-001-9.7 Rollover Rights for Redirect on a Firm Basis Status: Completed	2 nd Q, 2009	OASIS
iii)	Group 5: Paragraph 1377 – Group 5 work should precede group 4 work		
	1. Paragraph 1377 Status: Not Started	2nd Q, 2010	OASIS
	2. Re-Bid Of Partial Service across Multiple Transmission Providers' Systems Status: Not Started	2nd Q, 2010	OASIS
	3. Group DNR requests from a system with point-to-point requests on other systems for synchronization Status: Not Started	2nd Q, 2010	OASIS
iv)	Group 6: Miscellaneous (Paragraphs 1390 and 1627 of Order 890)		
	1. Paragraph 1390 of Order 890 Status: Not Started	4 th Q, 2010	OASIS
	2. Paragraphs 1627 of Order 890 Status: Not Started	4 th Q, 2010	OASIS
	3. Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services. Status: Not Started	4 th Q, 2010	OASIS
b)	Develop the needed business practices as companion to the NERC standards for ATC related efforts		
i)	Develop standards to support existing Request No. R05004 .		
	1. The processing of transmission service requests, which use TTC/ATC/AFC, in coordination with NERC changes to MOD 001 where the allocation of flowgate capability based on historical Network Native Load impacts the evaluation of transmission service requests, requiring the posting of those allocation values in conjunction with queries of service offerings on OASIS Status: Underway	1 st Q, 2010	OASIS

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	Item Description	Completion¹	Assignment^{2,3}
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)	Develop and/or maintain business practice standards as needed for OASIS and electronic scheduling. Specific items to address include:		
i)	Network Services: Determine and develop needed business practice standards or other support is needed to support use of OASIS for Network Service transactions (R04006E). (Related to AP 2(a)(iii)) Status: Underway	1 st Q, 2010	OASIS
ii)	Registry (TSIN): Determine and develop needed business practice standards to support the registry functions currently supported by NERC (R04037 , R06027).		
	1. Work with the NAESB counsel to develop a confidentiality agreement, (R07013) Status: Completed	4 th Q, 2009	JESS
	2. Transition the TSIN Registry from NERC to NAESB as the enhanced Electric Industry Registry (EIR), (R06027). Status: Underway	2010	NAESB/NERC Administration, JESS
iii)	Document procedures used to implement the displacement/interruption terms of the Pro Forma tariff (R05019). Status: Deleted as a duplicate of 2009 AP item 2.a.ii.2	2011	OASIS
iv)	Make remaining incremental enhancements to OASIS as an outgrowth of the NAESB March 29, 2005 conference on the future of OASIS (R05026). Scoping statement completed by SRS and assignments made to BPS and OASIS.		
	1. Eliminate Masking of TSR tag source and sink when requested status is denied, withdrawn refused, displaced, invalid, declined, annulled or retracted Status: Not Started	2011	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: Underway (upon further development of this item by NAESB, a completion date will be determined)	2011	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: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2011	OASIS

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	Item Description	Completion¹	Assignment^{2,3}
v)	Develop, coordinate interoperability testing, and implement e-Tag version 1.8.1 Status: Underway – 20090716 discussed rough time frames laid out needs test plans drafted	1 st Q, 2010	JESS
vi)	Transition e-Tag Specification and schema to NAESB Status: Complete. Version 1.8.1 will be identified as the NAESB Electronic Tagging Functional Specification	1 st Q, 2009	JESS
vii)	Review and correct the WEQ-004 Coordinate interchange Business Practice Standard as noted during the development of the e-Tag 1.8 development process. Status: Completed. Recommendation was voted out of the JESS on September 2, 2009. Formal comment period closed on October 8, 2009.	3 rd Q, 2009	JESS
viii)	Review and correct WEQ-004 Coordinate Interchange Business Practice Standard as needed based on activities in NERC Project 2008-12, Coordinate Interchange Standards Revisions and supporting EOP-002-2 R4 and R6. [note: this is a new item] Status: Not started – dependent on NERC activity (upon initiation of this item by NAESB, a completion date will be determined)	2010	JESS
b)	Develop and/or maintain standard communication protocols and cyber-security business practices as needed.		
i)	Develop PKI certification program for e-Tag and OASIS Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2010	Board Certification Program Committee
ii)	Develop PKI standards for OASIS. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2011	OASIS
iii)	Develop Industry Implementation Plan for meeting PKI Standard requirements for e-tagging. Status: Underway. Full e-Tag implementation (server & client side) is linked to the transition of the Registry from NERC to NAESB and NAESB implementation. 20090716 – server-side certificate underway – change TSIN to accept https URLs with a September 2009 target.	TBD – dependent on item above (i) and EIR	JESS
c)	Develop needed business practice standards for organization/company codes for NAESB standards – and address current issues on the use of DUNs numbers. Status: Underway (upon further development of this item by NAESB, a completion date will be determined) Common code usage is linked to the transition of the Registry from NERC to NAESB	2009	NAESB Staff with WEQ support
d)	Develop business practice standards in support of FERC Order No. 717 Status: Completed	1 st Q, 2009	BPS

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	Item Description	Completion ¹	Assignment ^{2,3}
4	Review and develop business practices standards to Demand Response, Demand Side Management and Energy Efficiency Programs		
	Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program.		
	a) Develop matrix and business practice standards for measurement and verification for demand response products and services in ISO/RTO footprint areas. Status: Completed	4 th Q, 2008	WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee
	b) Develop more detailed technical standards for the measurement and verification of demand response products and services in ISO-RTO footprint areas, including examples to be developed to support item 4(a) above. Status: In Progress	2010	WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee
	c) Develop preamble for business practice standards for measurement and verification for demand response and energy efficiency programs. Status: Completed	3 rd Q, 2009	Joint WEQ/REQ DSM-EE Subcommittee
	d) Develop glossary for business practice standards Status: Ongoing	Ongoing	Joint WEQ/REQ DSM-EE Subcommittee
	e) Support retail development of matrix and model business practice standards for measurement and verification for demand response programs Status: Completed	3 rd Q, 2009	Retail Section of Joint WEQ/REQ DSM-EE Subcommittee
	f) Develop business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status: Upon further review, the task force has determined this work will be completed under Annual Plan Item 4g.	Combined with 4g	WEQ Section/Joint WEQ/REQ DSM-EE Subcommittee
	g) Develop business practice standards used to measure and verify reductions in energy and demand from energy efficiency in wholesale and retail markets. ¹ Status: Underway (An estimated completion date will be established in 4 th Q after the new working group has been formalized)	2010	WEQ Section/Joint WEQ/REQ DSM-EE Subcommittee

¹ Energy efficiency may be a wholesale product, such as capacity. Energy efficiency in retail markets may be from individual energy efficiency measures at the project level or a portfolio of projects that make up an energy efficiency program.

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Item Description	Completion ¹	Assignment ^{2,3}
<p>h) Develop business practice standards for cap and trade programs for green house gas Status: Moved to Provisional Item 8. This item will not be addressed until Congress has addressed pending legislation.</p>	<p>Moved to Provisional Item 8</p>	<p>Joint WEQ/REQ DSM-EE Subcommittee</p>
5 Maintain existing body of Version 2 standards		
<p>a) Make consistency changes to Version 1.0 standards as directed by the WEQ Leadership Committee on December 12, 2007 (R08001 – BPS, OASIS, R08002 - OASIS, R08003 - OASIS - BPS, R08004, R08005 - OASIS)</p>		
<p>1. OASIS Consistency Changes (R08001, R08002, R08003, R08005) Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)</p>	<p>2011</p>	<p>OASIS</p>
<p>2. Gas / Electric Communication Consistency Changes (R08004) Status: Completed. WEQ BPS coordinated recommendation with WGQ BPS. WEQ BPS voted recommendation out of subcommittee on September 28, 2009.</p>	<p>3rd Q, 2009</p>	<p>WEQ BPS / WGQ BPS</p>
<p>b) Modify NAESB definitions to address internal inconsistencies and inconsistencies with the NERC glossary. Revise existing NAESB glossary/definition of terms to be applicable to entire set of WEQ Business Practices. (http://www.naesb.org/pdf3/weq_ec051308w3.doc) Status: Completed Subcommittee co-chairs are developing WEQ-000 Definition of Terms/Acronyms to replace definitions being included in each NAESB Business Practice.</p>	<p>4th Q, 2009</p>	<p>BPS/OASIS/RS/JESS Co-chairs</p>
<p>c) Develop standards to allow for registered Market Operators to request changes to the Market Level profile of Implemented Interchange (R06006) Status: Complete</p>	<p>1st Q, 2009</p>	<p>JESS</p>
<p>d) 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. (R08011) Status: Not Started This Standards Request was assigned to the OASIS in May 2008.</p>	<p>2011</p>	<p>OASIS</p>
<p>e) Provide for Enhanced Granularity for Public Utilities in Identifying Critical Operational Flow Orders. (R08020) Status: WEQ Complete/WGQ In Progress. This Standards Request was assigned to the BPS in August 2008 (upon initiation of this item by NAESB, a completion date will be determined)</p>	<p>2nd Q, 2009</p>	<p>BPS jointly with WGQ BPS</p>

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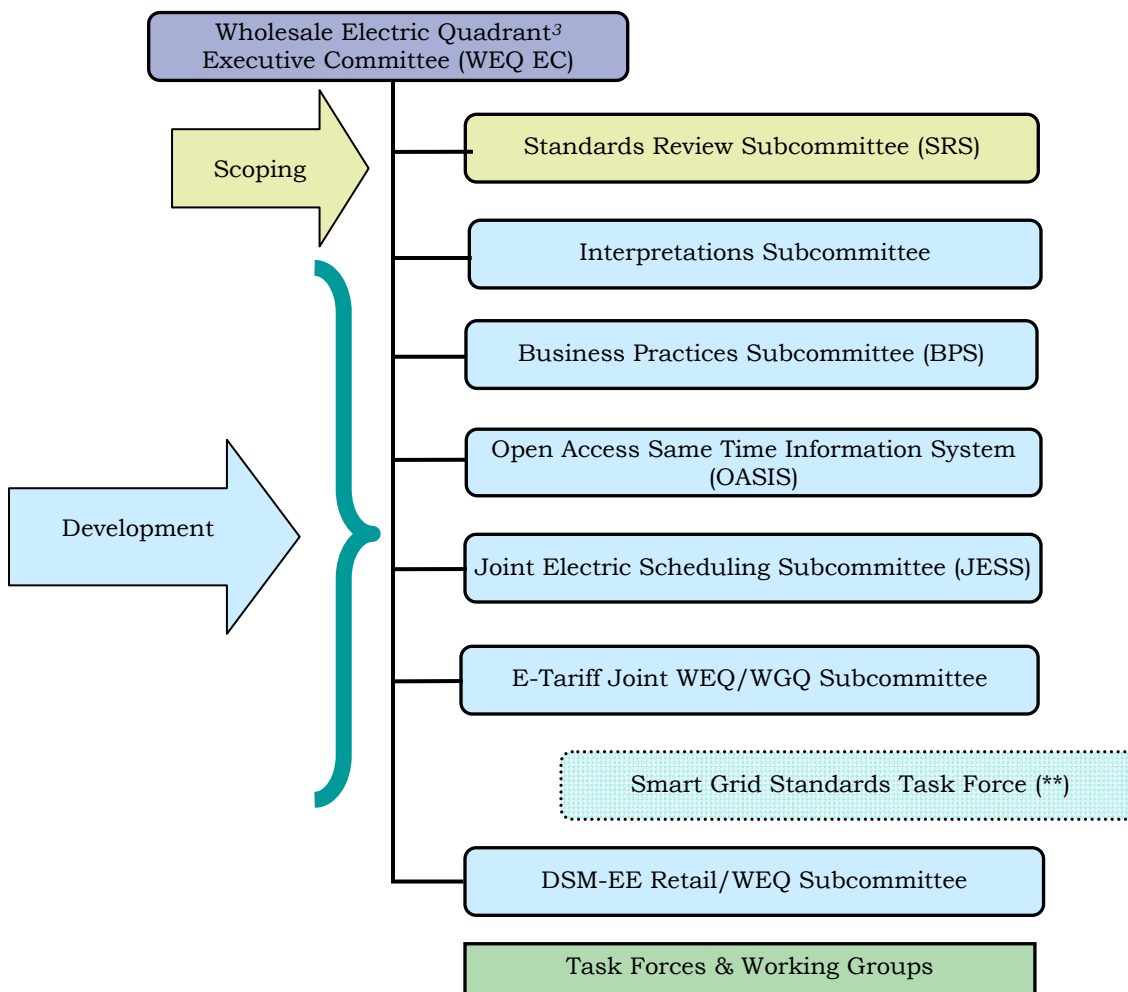
	Item Description	Completion¹	Assignment^{2,3}
f)	<p>Synchronize Bidding Credit Requirements for FTR, TCC and CRR (R08025) Posting of collateral is an important issue for financial marketers. Most financial marketers and smaller entities are required to post cash for FTR transactions, while most utilities post unsecured credit. Therefore, the timing for posting collateral is especially crucial to financial marketers. There are two posting periods for FTRs:</p> <p>1. The Bidding Requirement: Credit must be posted with FTR bids and these monies are held until bids are cleared.</p> <p>2. The Holding Requirement: After bids are cleared and FTRs awarded, collateral is required for the amount of time the FTR is active.</p> <p>Status: Withdrawn by requester</p>	4 th Q, 2009	SRS (Scoping)
g)	<p>Correct WEQ 013-2.6.7.2. – Resale off OASIS (R08027) Status: Not Started</p>	TBD	OASIS
h)	<p>Add language to WEQ-001-4 Online Negotiation and Confirmation process to clarify Table 4-3 (R09003) Status: Not Started</p>	TBD	OASIS
i)	<p>Change Power Plant Operator to Power Plant Gas Coordinator (R09011) Status: Completed. WEQ BPS coordinated recommendation with WGQ BPS. WEQ BPS voted recommendation out of subcommittee on September 28, 2009.</p>	4 th Q, 2009	WEQ BPS/WGQ BPS

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PROVISIONAL ITEMS

- 1 Develop and or modify business practices related to support of NERC effort on the NERC Resources and Transmission Adequacy (Project 2009-05 Resource Adequacy Assessment).
- 2 Develop business practices for allocating capacity among requests received during a submittal window Order 890-A ([Docket Nos. RM05-17-001, 002 and RM05-25-001, 002](#) - Paragraph 805).
- 3 Determine any needed NAESB action in support of the Interchange Distribution Calculator (IDC) and develop any necessary standards.
- 4 Prepare recommendations for future path for TLR (equity concerns) in concert with NERC, which may include alternative congestion management procedures⁴. Work on this activity is dependent on completing 2009 WEQ Annual Plan 1.c.i (Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection).
- 5 Develop complementary standards that align with NERC Project 2008-01 Voltage and Reactive Control, for which a white paper is expected after the 2009 SAR is processed.
- 6 Develop NAESB business practices as needed to complement NERC reliability standards for FAC-012 and FAC-013.
- 7 Determine NAESB action needed to support FERC Action Plan for Smart Grid Technology.
- 8 Develop business practice standards for cap and trade programs for green house gas (See action item 4h).
- 9 Conduct assessment to determine if Electric Industry Requirements documented in WEQ-011 Gas / Electric Coordination should be considered reliability requirements and transition to NERC.

WHOLESALE ELECTRIC QUADRANT EXECUTIVE COMMITTEE AND SUBCOMMITTEE STRUCTURE



NAESB WEQ EC and Subcommittee Leadership:

Executive Committee: Kathy York (WEQ EC Chair) and Matthew Goldberg (WEQ EC Vice Chair)

Standards Review Subcommittee: Narinder Saini, Ed Skiba

Interpretations Subcommittee: Robert Schwermann

Business Practices Subcommittee & Task Forces: Jim Busbin (TLR), Ed Skiba

Open Access Same Time Information System (OASIS): Paul Sorenson, J.T. Wood, Marcie Otondo

Joint Electric Scheduling Subcommittee (JESS): Bob Harshbarger (NAESB), Jim Hansen (NERC)

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

DSM-EE Joint Retail/WEQ Subcommittee: Ruth Kiselewich and David Koogler (Retail), Roy True and Paul Wattles (WEQ)

(**) The Smart Grid Task Force is a joint group of the retail electric and wholesale electric quadrant with other standards development groups such as OASIS, CalConnect, FIX and UCAIug, and includes other groups. Direction may be given from NIST, DoE or FERC and the group reports to the NAESB Board Smart Grid Strategic Steering Committee. The group is chaired by Brent Hodges, Wayne Longcore, Joe Zhou and Robert Burke.

NORTH AMERICAN ENERGY STANDARDS BOARD
2010 ANNUAL PLAN for the WHOLESALE ELECTRIC QUADRANT

As Approved by NAESB Board of Directors on September 23, 2010 With Suggested Changes From the WEQ Executive Committee and Leadership

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.		
Note: Consideration should be given to provisional item 4. Work is being coordinated with the NERC IDC Working Group.		
i) Interim solution for Parallel Flow Visualization Status: Completed Interim solution is needed to support November 1, 2010 NERC implementation of IDC Change Order 283 into the IDC Staging Environment.	3 rd Q, 2011	BPS
ii) Permanent solution for Parallel Flow Visualization Status: Started	2nd Q, 2011	BPS
b) Time Error and Inadvertent (BAL-004 and BAL-006) Coordination with NERC Status: Monitor. (Will require coordination with Balancing Authority Reliability Based Controls Standards Drafting Team (BARCSDT) created in July 2010) – Moved to provisional item 13	Transferred to Provisional Items ¹	TIMTF
c) DCS and AGC (BAL-002 and BAL-005) Coordination with NERC Status: Monitor. (Will require coordination with Balancing Authority Reliability Based Controls Group created in July 2010) – Moved to provisional item 14	Transferred to Provisional Items ¹	TIMTF
d) Monitor and develop NAESB business practices as needed to complement NERC reliability standards for FAC-012 and FAC-013. Status: Completed	3 rd Q, 2010	SRS

¹ The activities for the WEQ 2010 Annual Plan Item Nos. 1b, 1c, and 1d are dependent on NERC standards development efforts. It is probable that this item will not start until 2012 when the field test from NERC is completed.

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2010 ANNUAL PLAN for the WHOLESALE ELECTRIC QUADRANT

As Approved by NAESB Board of Directors on September 23, 2010 With Suggested Changes From the WEQ Executive Committee and Leadership

Item Description	Completion ¹	Assignment ²
2 Develop business practice standards in support of the FERC RM05-25-000 and RM05-17-000 (OATT Reform)²		
a) Develop version 2 business practice standards to better coordinate the use of the transmission system among neighboring transmission providers.		
Status: Underway		
Request R050004 was expanded to include the Order No. 890 (Docket Nos. RM05-25-000 and RM05-17-000) and 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”).		
i) Group 3: Network Service On OASIS		
1) Use of OASIS to Make Electronic Requests to Designate and Terminate Network Resource	1 st Q, 2011	OASIS
Status: Underway		
2) Ability to Query Requests to Designate and Terminate Network Resources and Allow for Queries of All Information Provided with Designation Requests	1 st Q, 2011	OASIS
Status: Underway		
3) Masking of Designated Network Resource Operating Restrictions and Generating Cost Information	1 st Q, 2011	OASIS
Status: Underway		
4) Procedural Requirements for Submitting Designations over new OASIS Functionality	1 st Q, 2011	OASIS
Status: Underway		
5) Specify How Designated Network Service Informational Postings are Posted on OASIS	1 st Q, 2011	OASIS
Status: Underway		
6) Develop standards for the treatment of OASIS Requests when the Customer Fails to Provide the Necessary Attestation	1 st Q, 2011	OASIS
Status: Underway		
7) Procedural Requirements for Submitting Both Temporary and Indefinite Terminations of Network Resources	1 st Q, 2011	OASIS
Status: Underway		
8) Procedures for Submitting and Processing Requests for Concomitant Evaluations of Transmission Requests and Temporary Terminations	1 st Q, 2011	OASIS
Status: Underway		

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

**NORTH AMERICAN ENERGY STANDARDS BOARD
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As Approved by NAESB Board of Directors on September 23, 2010 With Suggested Changes From the WEQ Executive Committee and Leadership

	Item Description	Completion¹	Assignment²
ii)	Group 4: Pre-Emption; Request No. R05019		
	4. Pre-Emption Status: Not Started	2011	OASIS
	5. Request No. R05019 Status: Not Started	2011	OASIS
iii)	Group 5: Paragraph 1377 ³ – Group 5 work should precede group 4 work ³		
	1) Paragraph 1377-Coordination of Requests Across Multiple Transmission Systems Status: Underway, Scoping Group work product approved by the WEQ EC and sent to the OASIS Subcommittee.	1 st Q, 2011	OASIS
	2) Re-Bid Of Partial Service across Multiple Transmission Providers' Systems Status: Underway, Scoping Group work product approved by the WEQ EC and sent to the OASIS Subcommittee	1 st Q, 2011	OASIS
	3) Group DNR requests from a system with point-to-point requests on other systems for synchronization Status: Underway, Scoping Group work product approved by the WEQ EC and sent to the OASIS Subcommittee	1 st Q, 2011	OASIS

³ Paragraph 1377 of FERC Order No. 890, issued February 16, 2007: The Commission agrees that transmission requests across multiple transmission systems should be coordinated by the relevant transmission providers. We will not, however, amend the pro forma OATT to require such coordination. Rather, we require transmission providers working through NAESB to develop business practice standards related to coordination of requests across multiple transmission systems. In order to provide guidance to NAESB, we will articulate the principles that should govern processing across multiple systems. All the transmission providers involved in a request across multiple systems should consider a request that requires studies across multiple systems to be a single application for purposes of establishing the deadlines for rendering an agreement for service, revising queue status, eliciting deposits and commencing service. In order to preserve the rights of other transmission customers with studies in the queue, the priority for the single application should be based on the latest priority across the transmission providers involved in the multiple system request. We note that regional entities like wesTTrans are already coordinating requests across multiple transmission systems and we believe such coordination is an acceptable solution to this issue.

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	Item Description	Completion¹	Assignment²
iv)	Group 6: Miscellaneous (Paragraphs 1390 ⁴ and 1627 ⁵ of FERC Order No. 890)		
	1) Paragraph 1390 of Order 890 – Terminations related to: deficient requests, customer failure to pay required annual reservation fee, and customer modifications to applications which are meaningfully different. Status: Not Started	2011	OASIS
	2) Paragraphs 1627 of Order 890 – Posting of additional information on OASIS regarding firm transmission curtailments Status: Not Started	2011	OASIS
	3) Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services. Status: Not Started	2011	OASIS
b)	Develop the needed business practices as companion to the NERC standards for ATC related efforts ³		
i)	Develop standards to support existing Request No. R05004 .		

⁴ Paragraph 1390 of FERC Order No. 890, issued February 16, 2007: We will not modify the pro forma OATT to address requests to allow the transmission provider to terminate idle transmission service requests. NAESB’s business practice 001-4.11 allows the transmission provider to retract a request if the transmission customer does not respond to an acceptance within the time established in NAESB business practice standard 001-4.13. Therefore, we interpret TDU Systems comments to refer to circumstances when a transmission customer fails to respond to the transmission provider’s request for additional information during the course of a request study. As discussed above, by the time the transmission provider offers a system impact study agreement, it should have all of the information that it needs to complete the study. Pursuant to section 17.4 of the pro forma OATT, the transmission provider can deem a transmission service request deficient if the transmission customer does not provide all of the information the transmission provider needs to evaluate the request for service. We will revise section 17.7 of the pro forma OATT so that the transmission provider is able to terminate a request for transmission service if a transmission customer that is extending the commencement of service does not pay the required annual reservation fee within 15 days of notifying the transmission provider that it would like to extend the commencement of service. We will not change the pro forma OATT to allow the transmission provider to terminate a transmission service request if the transmission customer changes its application for service. We believe the existing pro forma OATT is sufficient to allow a transmission provider to manage situations where the transmission customer modifies its application for service to the point that the customer is requesting transmission service that is meaningfully different than its initial request.

⁵ 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
1) The processing of transmission service requests, which use TTC/ATC/AFC, in coordination with NERC changes to MOD 001 where the allocation of flowgate capability based on historical Network Native Load impacts the evaluation of transmission service requests, requiring the posting of those allocation values in conjunction with queries of service offerings on OASIS Status: Underway	1 st Q, 2011	OASIS
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) Develop and/or maintain business practice standards as needed for OASIS and electronic scheduling. Specific items to address include:		
i) Network Services: Determine and develop needed business practice standards or other support is needed to support use of OASIS for Network Service transactions (R04006E). (Related to AP 2(a)(iii)) ³ Status: Underway	1 st Q, 2011	OASIS
ii) Registry (TSIN): Determine and develop needed business practice standards to support the registry functions currently supported by NERC (R04037 , R06027).		
1) Transition the TSIN Registry from NERC to NAESB as the enhanced Electric Industry Registry (EIR), (R06027). Status: Underway, contract signed.	2 nd Q, 2011	NAESB/NERC Administration, JESS
iii) Document procedures used to implement the displacement/interruption terms of the Pro Forma tariff (R05019). Status: Deleted as a duplicate of 2009 AP item 2.a.ii.2		
iv) Make remaining incremental enhancements to OASIS as an outgrowth of the NAESB March 29, 2005 conference on the future of OASIS (R05026). Scoping statement 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: Not Started	2012	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: Underway (upon further development of this item by NAESB, a completion date will be determined)	2012	OASIS

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	Item Description	Completion¹	Assignment²
	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: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2012	OASIS
v)	Develop, coordinate interoperability testing, and implement e-Tag version 1.8.1 Status: Completed.	1 st Q, 2010	JESS
vi)	Review and correct WEQ-004 Coordinate Interchange Business Practice Standard as needed based on activities in NERC Project 2008-12, Coordinate Interchange Standards Revisions and supporting EOP-002-2 R4 and R6. [note: this is a new item] Status: Underway. Completion date dependent upon coordination activities with NERC.	2011	JESS
b)	Develop and/or maintain standard communication protocols and cyber-security business practices as needed.		
i)	Develop PKI certification program for e-Tag and OASIS Status: Underway	3 rd Q 2011	Board Certification Program Committee
ii)	Develop PKI standards for OASIS. Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	2012	OASIS
iii)	Develop Industry Implementation Plan for meeting PKI Standard requirements for e-tagging. Status: Underway. Full e-Tag implementation (server & client side) is linked to the transition of the Registry from NERC to NAESB and NAESB implementation.	TBD – dependent on item above (i) and EIR	JESS

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Item Description	Completion ¹	Assignment ²
<p>4 Review and develop business practices standards to Demand Response, Demand Side Management and Energy Efficiency Programs</p>		
<p>Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program.</p>		
<p>a) Review the NAESB Business Practices for Measurement and Verification of Wholesale Electricity Demand Response (WEQ-015) in conjunction with the IRC developed Demand Response Matrix and identify business practice requirements that could be improved or made clearer through the addition of specific technical detail. The wholesale and retail demand response work groups and the Smart Grid Standards Subcommittees should actively and timely communicate and coordinate work products to ensure consistency between the three work groups. Each work group should take into account the work products developed by the other.</p>	Phase 2 – 4 th Q 2010	WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee
<p>Status: Completed</p>		
<p>b) For each performance evaluation type/service type combination identified in WEQ-015, using the IRC matrix as a starting point, assess and determine what standards or guidelines, if any, should be developed to aid all participants in the use of measurement and verification methods for demand response programs in organized wholesale electric markets. If the determination is made that standards or guidelines will be developed, those items will be added as sub-items to 4(b).</p>	Phase 2 – 4 th Q 2010	WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee
<p>Status: Completed</p>		
<p>c) Develop glossary for business practice standards</p>	Ongoing	Joint WEQ/REQ DSM Subcommittee
<p>Status: Ongoing</p>		
<p>d) Develop business practice standards used to measure and verify reductions in energy and demand from energy efficiency in wholesale and retail markets.³ This includes developing business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard.</p>	4 th Q, 2010	Joint WEQ/REQ DSM-EE Subcommittee
<p>Status: Completed</p>		
<p>e) Create common interfaces and data structures necessary for enrolling DR sites into a DR program (Request No. R10002)</p>	4 th Q, 2010	REQ portion of the Joint WEQ/REQ DSM-EE Subcommittee with coordination with Smart Grid Standards Task Force and REQ BPS
<p>Status: Reassigned to Retail Electric Quadrant Only</p>		

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Item Description	Completion ¹	Assignment ²
5 Maintain existing body of Version 2.x standards		
a) Make consistency changes to Version 2.2 standards as directed by the WEQ Leadership Committee on December 12, 2007 OASIS Consistency Changes (R08001, R08002, R08003, R08005) Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)	TBD	OASIS
b) 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. (R08011) Status: Not Started. This Standards Request was assigned to the OASIS in May 2008.	TBD	OASIS
c) Correct WEQ 013-2.6.7.2. – Resale off OASIS (R08027) Status: Not Started	TBD	OASIS
d) Add language to WEQ-001-4 Online Negotiation and Confirmation process to clarify Table 4-3 (R09003) Status: Not Started	TBD	OASIS
e) Create a new OASIS mechanism that allows for the merger of like reservations without the use of the resale mechanism (R09015) Status: Not Started	TBD	OASIS
6. Develop Smart Grid Wholesale and Retail Electric Standards - The wholesale and retail demand response work groups and the Smart Grid task force should actively and timely communicate and coordinate work products to ensure consistency between the three work groups. Each work group should take into account the work products developed by the other.		
a) Develop requirements and use cases for PAP 03 – Pricing Model		
i). Phase 1 Status: Completed	1 st Q, 2010	Joint WEQ/REQ SGS Subcommittee
ii) Phase 2 Status: Completed	4 th Q, 2010	Joint WEQ/REQ SGS Subcommittee
b) Develop requirements and use cases for PAP 04 – Scheduling Model		
i) Phase 1 Status: Completed	1 st Q, 2010	Joint WEQ/REQ SGS Subcommittee
ii) Phase 2 Status: Completed	4 th Q, 2010	Joint WEQ/REQ SGS Subcommittee
c) Develop requirements and use cases for PAP 09 – Demand Response/Distributed Energy Resources		

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	Item Description	Completion¹	Assignment²
i)	Phase 1 Status: Completed	1 st Q, 2010	WEQ Section of the Joint WEQ/REQ SGS Subcommittee
ii)	Phase 2 Status: Completed	4 th Q, 2010	WEQ Section of the Joint WEQ/REQ SGS Subcommittee
d)	Develop standards to support PAP 10 – Standards Energy Usage Information		
i)	Act as a convener (develop and implement a plan to expedite harmonized standards development and adoption within the associated standards bodies) and develop business practice standards as needed and assigned to NAESB for PAP 10 – Standard Energy Usage Information Status: Completed	2 nd Q, 2010	Joint WEQ/REQ PAP 10 SGS Subcommittee
ii)	Develop Information Model and related business practices Status: Complete	4 th Q, 2010	Joint WEQ/REQ PAP 10 SGS Subcommittee
e)	Develop standards to support inclusion of OpenADE requirements document into the NAESB Smart Grid standards (R10008), specifically to standardize the exchange of Energy Usage Information. Status: Reassigned to REQ only.	4 th Q, 2010	REQ section of the Joint WEQ/REQ PAP 10 SGS Subcommittee Task Force
7.	Develop or modify standards to Support FERC Order No. 676-E, (Docket No. RM 05-5-013)		
a)	Review standards 001-14.1.3 and 001-15.1.2 based on FERC Order No. 676-E (See ¶ 39 ⁶) Status: Not Started	2 nd Q, 2011	OASIS
b)	Develop standards to support the Transmission Provider right to reassess the availability of conditional firm (See ¶ 72 ⁷) Status: Not Started	2 nd Q, 2011	OASIS

⁶ 39. In regards to Entergy’s question of whether the transmission provider’s calculated and posted available flowgate capability values should be used to fulfill the posting requirements set forth in Standard 001-14 and 001-15 in instances where there is no requirement to convert this calculation to available transfer capability values, we agree with Entergy that this requirement can be met by the transmission provider posting its available flowgate capability values. As to EPSA’s argument that Standard 001-15 falls short of the goals of Order No. 890, we find that, with the exception of Standard 001-15.1.2, compliance with Standard 001-15 provides all of the information required by Order No. 890. However, Standards 001-14.1.3 and 001-15.1.2 permit transmission providers to post an available transfer capability change narrative within five business days of meeting the criteria under which a narrative is required to be posted. In Order No. 890, the Commission rejected calls for delays prior to posting data and required posting as soon as possible. We do not find the NAESB standard meets this criterion and therefore decline to incorporate Standards 001-14.1.3 and 001-15.1.2 by reference. Transmission providers must post their narratives as soon as feasibly possible. Posting within one day would appear in most cases to be reasonable.

⁷ 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

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Item Description	Completion¹	Assignment²
c) Prepare status reports every six months regarding the development of standards for the coordination of transmission service requests across multiple transmission systems (See ¶ 105 ⁸). This annual plan item is tied to Annual Plan Item 2(a)(iii) Status: Underway – first report filed.	Ongoing	NAESB Office

address this issue, we would ask the 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

⁸ 105. We agree that insufficient progress has been made on this issue. While we acknowledge that development of standards addressing this issue is included in NAESB's 2009 WEQ Annual Plan, we nevertheless urge NAESB to address this issue as soon as possible. Accordingly, we request that NAESB provide the Commission with a status report concerning its progress on this issue every six months, counting from the date this final rule is published in the Federal Register, until NAESB's adoption of the applicable standard(s).

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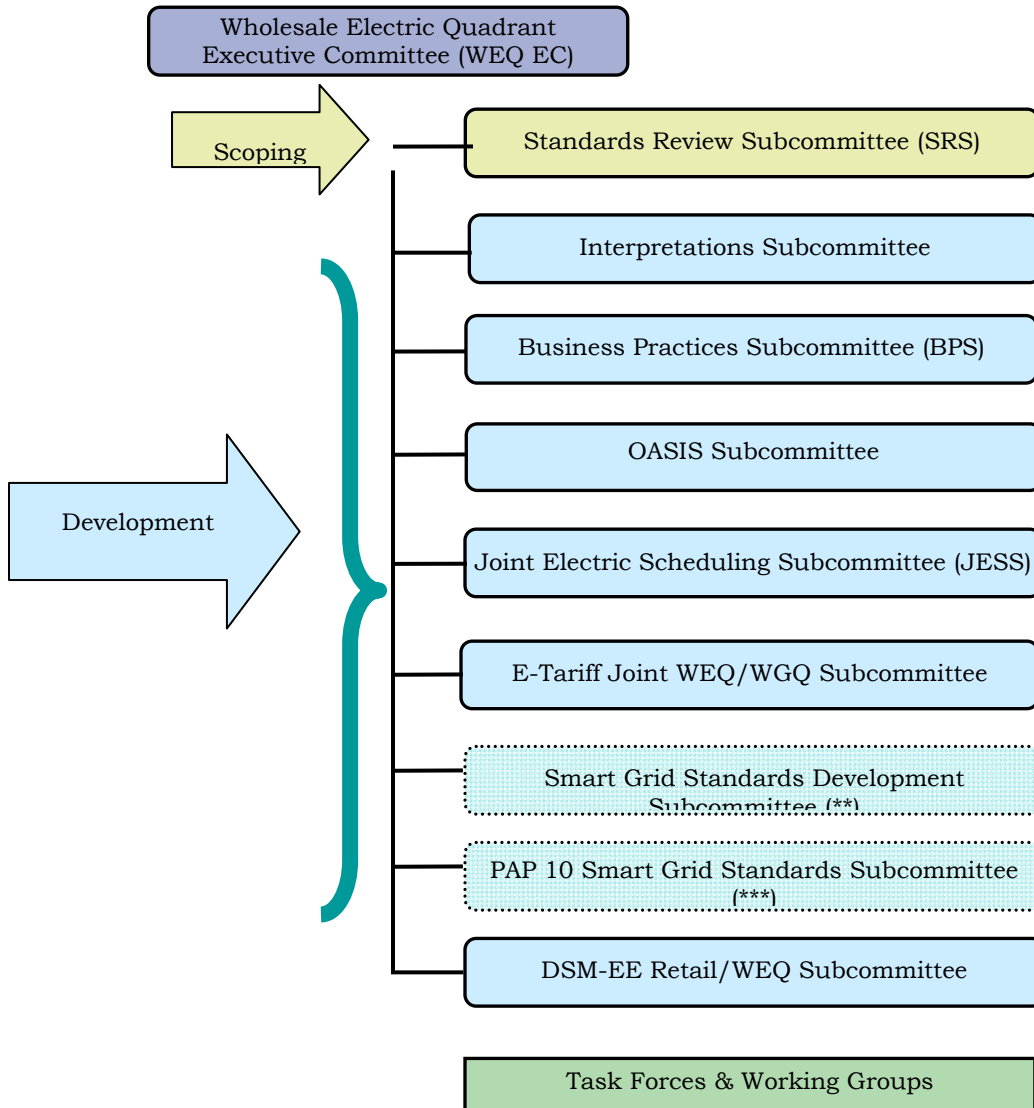
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PROVISIONAL ITEMS

- 1 Develop and or modify business practices related to support of NERC effort on the NERC Resources and Transmission Adequacy (Project 2009-05 Resource Adequacy Assessment).
- 2 Develop business practices for allocating capacity among requests received during a submittal window Order 890-A ([Docket Nos. RM05-17-001, 002 and RM05-25-001, 002](#) - Paragraph 805).⁹
- 3 Determine any needed NAESB action in support of the Interchange Distribution Calculator (IDC) and develop any necessary standards.
- 4 Prepare recommendations for future path for TLR (equity concerns) in concert with NERC, which may include alternative congestion management procedures⁴. 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).
- 5 Develop complementary standards that align with NERC Project 2008-01 Voltage and Reactive Control, for which a white paper is expected after the SAR is authorized to proceed by the NERC Standards Committee.
- 6 *Provisional Item No. 6 was added to the 2010 Annual Plan as Item No. 1(d)*
- 7 Determine NAESB action needed to support FERC Action Plan for Smart Grid Technology.
- 8 Develop business practice standards for cap and trade programs for green house gas
- 9 Conduct assessment to determine if Electric Industry Requirements documented in WEQ-011 Gas / Electric Coordination should be considered reliability requirements and transition to NERC.
- 10 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.
- 11 *Provisional Item No. 11 was determined to only affect the REQ, and as such was added to the 2010 Retail Annual Plan as Item No. 3e.*
- 12 Review the need for, and develop standards where appropriate, in response to issues raised by FERC’s National Action Plan on Demand Response.
- 13 Coordinate standards development with the NERC Balancing Authority Reliability Based Controls Standards Drafting Team (BARCSDT- created in July 2010) regarding Time Error and Inadvertent (BAL-004 and BAL-006), which may require changes to NAESB WEQ standards. (Previously WEQ 2010 Annual Plan Item 1b).
- 14 Coordinate standards development with the NERC Balancing Authority Reliability Based Controls Standards Drafting Team (BARCSDT- created in July 2010) regarding DCS and AGC (BAL-002 and BAL-005) which may require changes to NAESB WEQ standards. (Previously WEQ 2010 Annual Plan Item 1c).

⁹ 805. The Commission recognizes that developing methods to allocate capacity among requests received during a submittal window may require detailed procedures, particularly when transmission requests received simultaneously exceed available capacity. As the Commission explained in Order No. 890, however, we believe that each transmission provider is in the best position to develop allocation procedures that are suitable for its system. This does not preclude transmission providers from working through NAESB to develop standardized practices, as suggested by Southern. For example, as we pointed out in Order No. 890, allocation methods such as that used by PJM to allocate monthly firm point-to-point transmission service could provide useful guidance in developing general allocation procedures.

WHOLESALE ELECTRIC QUADRANT EXECUTIVE COMMITTEE AND SUBCOMMITTEE STRUCTURE



NAESB WEQ EC and Subcommittee Leadership:

Executive Committee: Kathy York (WEQ EC Chair) and Alan Johnson (WEQ EC Vice Chair)

Standards Review Subcommittee: Narinder Saini, Ed Skiba

Interpretations Subcommittee: Ed Skiba

Business Practices Subcommittee & Task Forces: Jim Busbin (TLR), Ed Skiba

Open Access Same Time Information System (OASIS): Paul Sorenson, J.T. Wood, Marcie Otondo

Joint Electric Scheduling Subcommittee (JESS): Bob Harshbarger (NAESB), Clint Aymond (NERC)

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

DSM-EE REQ/WEQ Subcommittee: Ruth Kiselewich and David Koogler (Retail), Roy True and Paul Wattles (WEQ)

(**) 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 REQ ECs. The group is chaired by Brent Hodges, Joe Zhou, Wayne Longcore

and Robert Burke.

(***) 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 REQ ECs. The group is chaired by Brent Hodges, Phil Precht, Cathy Wesley, Sharon Dinges, David Kaufman, Brad Ramsay, Tobin Richardson and Ed Koch.

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Item Number & Description ¹	Completion ²	Assignment ³⁴
1. Electronic Retail Billing. Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 9: Customer Billing and Payment Notification via Uniform Electronic Transactions, (R05016 and Attachment , submitted by Wal-Mart/J.C. Penney) Status: Complete	2 nd Q, 2009	TEIS
2. Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 8: Customer Information Status: Complete	2 nd Q, 2009	TEIS
3. Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 10: Customer Enrollment, Drop and Account Information Change (Non Texas Model) Status: Complete	2 nd Q, 2009	TEIS
4. Customer Inquiries		
a. Develop Model Business Practices and procedures for responding to customer inquiries directed to Distributors and/or Suppliers and for notification of the other party. Status: Complete	2 nd Q, 2009	BPS
b. Develop Technical Electronic Implementation Standards to support MBPs for customer inquiries directed to Distributors and/or Suppliers and for notification of the other party. Status: Complete – no standards needed	3 rd Q, 2009	IR/TEIS/Texas Task Force
5. Develop NAESB Certification checklist criteria for Retail Quadrants to be used in the NAESB Certification Program. Status: Not Started. Dependent upon publication of Version 1.1 at a minimum, but more dependent upon completion of Customer Choice efforts.	2 nd Q, 2010	Ad Hoc EC Certification Group
6. Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program. Status: Underway	Dates of individual tasks shown below	Joint WEQ/REQ DSM Subcommittee
a. Develop matrix and business practice standards for measurement and verification for demand response products and services in ISO/RTO footprint areas. Status: Completed	4 th Q, 2008	WEQ Section of the Joint WEQ/REQ DSM Subcommittee
b. Develop more detailed technical standards for the measurement and verification of demand response products and services in ISO-RTO footprint areas. Status: Underway	2010	WEQ Section of the Joint WEQ/REQ DSM Subcommittee
c. Develop preamble for business practice standards for measurement and verification for demand response and energy efficiency programs.	3 rd Q, 2009	Joint WEQ/REQ DSM

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Item Number & Description ¹	Completion ²	Assignment ³⁴
Status: Completed		Subcommittee
d. Develop glossary for business practice standards Status: Ongoing	Ongoing	Joint WEQ/REQ DSM Subcommittee
e. Support retail development of matrix and model business practice standards for measurement and verification for demand response programs Status: Completed	3 rd Q, 2009	Retail Section of the Joint WEQ/REQ DSM Subcommittee
f. Develop business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status: Upon further review, the task force has determined this work will be completed under Annual Plan Item 6g.	Combined with 6g	WEQ Section of the Joint WEQ/REQ DSM Subcommittee
g. Develop business practice standards to factor Demand Control and Energy Efficiency programs into reliability / supply decisions at the wholesale level for generation and transmission planning and operations. Status Underway (An estimated completion date will be established in 4 th Q after the new working group has been formalized)	2010	WEQ Section of the Joint WEQ/REQ DSM Subcommittee
h. Develop business practice standards to support cap and trade programs for green house gas. Status: Moved to Provisional Items. This item will not be addressed until Congress has addressed pending legislation.	Moved to Provision Items	Joint WEQ/REQ DSM Subcommittee
i. Support the second phase of retail development of model business practice standards for demand response programs Status: Not started	2010	Joint WEQ/REQ DSM Subcommittee
7. Revise the Trading Partner Agreement TPA by removing the Exhibits from the agreement and relegate such information as contained in the Exhibits to operational worksheet(s), (R08015). Status: Complete	2 nd Q, 2009	Joint Retail/WGQ Contracts
8. Billing and Payments		
a. Develop Process Flows to be included as models in book 3 – billing and payments Status: Underway	2 nd Q, 2010	BPS
b. If the development of Process Flows indicate a gap in the model business practices, then develop new model business practices to address the gap. Status: Underway	2 nd Q, 2010	BPS

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Item Number & Description ¹	Completion ²	Assignment ³⁴
9. Model Business Practices User Guide Add a new section to Book 0 to describe what Books have been developed, how the Books are laid out, and revised the title of the Book to reflect the additions Status: Started	3 rd Q, 2010	BPS
10. Additional Registration Agent Processes		
a. Review all existing Model Business Practices to determine if the Service Request process is already covered, and if necessary develop any new Model Business Practices required Status: Underway	4 th Q, 2009	BPS
b. Review all existing Model Business Practices to determine if the update Customer Information process is already covered, and if necessary develop any new Model Business Practices required Status: Underway	1 st Q, 2010	BPS
c. Review all existing Model Business Practices to determine if the disconnection and reconnection process is already covered, and if necessary develop any new Model Business Practices required. Status: Underway		
i. Create MBPs for disconnection/reconnection initiated by the supplier Status: Underway	4 th Q, 2009	BPS
ii. Create MBPs for disconnection/reconnection initiated by the distribution company Status: Underway	2 nd Q, 2010	BPS
d. Review all existing Model Business Practices to determine if the billing & payment process is already covered, and if necessary develop any new Model Business Practices required Status: Included in item 8	4 th Q, 2009	BPS
11. Supplier Certification Review Book 1 – Market Participant Interactions to determine if Supplier Certification is fully covered, and if necessary develop any new Model Business Practices required with the potential of moving all related Model Business Practices to a new Book Status: Not Started	4 th Q, 2010	BPS
12. Supplier Marketing Practices Develop Model Business Practices providing for a “Consumer Disclosure Statement” to be presented to residential and small commercial customers describing the Supplier’s service offering and related contract provisions. This statement would also identify how certain Supplier-Customer interactions are conducted. Amongst the topics to be considered for inclusion on the statement would be the following: • the most important terms of the Supplier agreement, such as the contract’s term and termination fee provisions;	4 th Q, 2010	BPS

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Item Number & Description ¹	Completion ²	Assignment ³⁴
<ul style="list-style-type: none"> • training and identification of Supplier marketing representatives; • protocols for Supplier in-person and telephone contacts with customers; • added measures for protecting non-English speaking customers; and • Processes for handling customer complaints and resolving disputes arising from Supplier marketing activities. <p>Status: Not Started</p>		
Program of Standards Maintenance & Fully Staffed Standards Work⁵		
Business Practice Requests	Ongoing	Assigned by the EC
Information Requirements and Technical Mapping of Business Practices	Ongoing	Assigned by the EC
Ongoing Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC
Ongoing Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC
Ongoing Development and Maintenance of Definitions	Ongoing	Glossary

Provisional Activities

Joint Effort:

Supplier Certification: Develop practices for Distribution Companies to register/certify new Suppliers when they seek to begin doing business in the Distribution Company's service area.

Modify TPA as necessary.

Review security standards as may be deemed necessary, such as Public Key Infrastructure (PKI).

Review existing body of model business practices for consistency and develop or modify model business practices as needed.

Retail Electric Quadrant Effort Only:

Retail Meter Data Validation, Editing & Estimating: Develop procedures for insuring the integrity and validity of retail customer metering data that is needed by utilities and suppliers for billing, etc. Issues related to unbundled or competitive metering are not to be considered.

Settlement Process: Reconcile energy schedules and energy delivered by suppliers within a given market. Note: will need to be coordinated with the WEQ for the REQ.

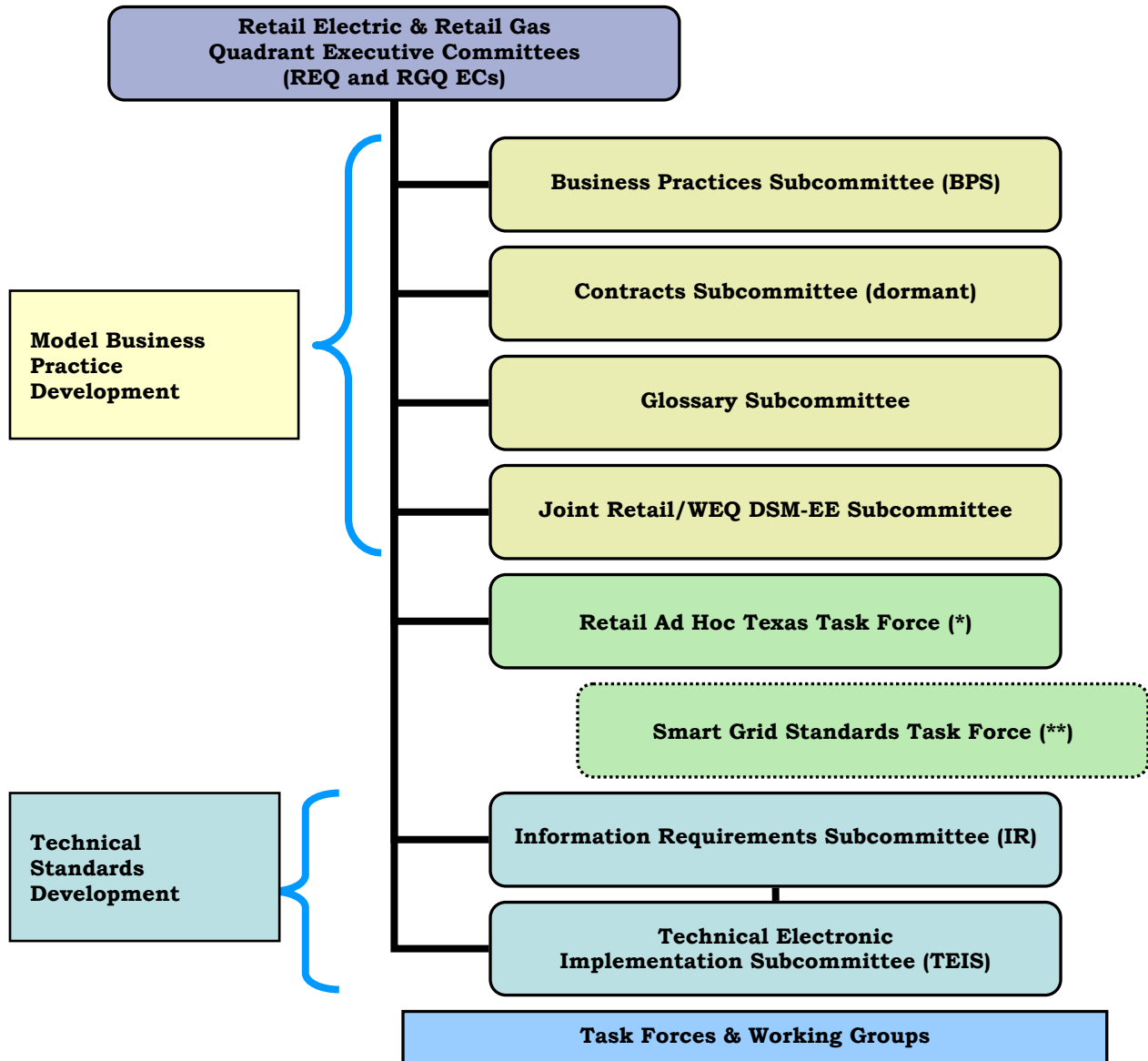
Develop business practice standards for cap and trade programs for green house gas (See action item 6h).

Retail Gas Quadrant Effort Only:

Examine Wholesale Gas Quadrant Non-EDM Standards for applicability to retail business practices.

Settlement Process: Reconcile energy schedules and energy delivered by suppliers within a given market.

RETAIL ELECTRIC & RETAIL GAS QUADRANT EXECUTIVE COMMITTEES AND SUBCOMMITTEES STRUCTURE



NAESB Retail Subcommittee Leadership: ⁶

- Executive Committee: Mike Novak, Chair (RGQ), Ruth Kiselewich, Chair (REQ)
- Business Practices Subcommittee: Phil Precht (RGQ), Mary Edwards and Dan Jones (REQ)
- Information Requirements Subcommittee: Jennifer Teel (REQ)
- Technical Electronic Implementation Subcommittee: TBD
- Glossary Subcommittee: Don Sytsma (RGQ), Mary Edwards and Patrick Eynon (REQ)
- DSM-EE Subcommittee: Ruth Kiselewich, David Koogler (REQ), Roy True (WEQ), and Paul Wattles (WEQ)
- Retail Ad Hoc Texas Task Force: Debbie McKeever (REQ) and Susan Munson (REQ)

(*) The Retail Ad Hoc Texas Task Force may draft MBPs, process flows, implementation guides and technical standards supportive of the Registration Agent. The group is chaired by Debbie McKeever and Susan Munson.

(**) The Smart Grid Task Force is a joint group of the retail electric and wholesale electric quadrant with other standards development groups such as OASIS, CalConnect, FIX and UCAIug, and includes other groups. Direction may be given from NIST, DoE or FERC and the group reports to the NAESB Board Smart Grid Strategic Steering Committee. The group is chaired by Brent Hodges, Wayne Longcore, Joe Zhou and Robert Burke.

¹ As outlined in the NAESB Bylaws, the REQ and RGQ will also address requests submitted by members and assigned to the REQ and RGQ through the Triage Process.

¹ 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.

¹ The assignments are abbreviated. The abbreviations and committee structure can be found at the end of the annual plan document.

¹ The DSM-EE subcommittee is expected to be split into several separate subcommittees to support concurrent development of separate standards sets. The split is to take place at the end of May after which the assignments will be modified.

¹ This work is considered routine maintenance and thus the items are not separately numbered. The REQ and RGQ ECs will assign maintenance efforts on a request-by-request basis.

¹ The ECs and the subcommittees can create task forces and working groups to support their development activities for development of model business practices and technical standards.

NORTH AMERICAN ENERGY STANDARDS BOARD
2010 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS
As Approved by the NAESB Board of Directors on September 23, 2010 With Proposed Changes from the Retail ECs

Item Number & Description ¹	Completion ²	Assignment ^{3,4}
1. Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 10: Customer Enrollment, Drop and Account Information Change		
a.. For the Distribution Company Registration Model Registration Agent Model Status: Not Started	2011	TEIS
2. Develop NAESB Certification checklist criteria for Retail Quadrants to be used in the NAESB Certification Program. The certification checklist may address test scripts, a checklist of items to be tested, data connectivity for test scripts and EDM testing. Status: Not Started. Dependent upon publication of Version 2.0 at a minimum, but more dependent upon completion of Customer Choice efforts, expected 1 st Q 2011 at the earliest.	2011	Ad Hoc EC Certification Group
3. Review and develop business practices standards to Demand Response, Demand Side Management and Energy Efficiency Programs Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program. The wholesale and retail demand response work groups and the Smart Grid Standards Subcommittees should actively and timely communicate and coordinate work products to ensure consistency between the three work groups. Each work group should take into account the work products developed by the other.		
a. Develop glossary for business practice standards Status: Ongoing	Ongoing	Joint WEQ/REQ DSM Subcommittee
b. Develop business practice standards used to measure and verify reductions in energy and demand from energy efficiency in wholesale and retail markets. ⁵ This includes developing business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard. Status: Underway	1stQ, 2011	Joint WEQ/REQ DSM-EE Subcommittee
c. Support the second phase of retail development of model business practice standards for demand response programs Status: Complete	4th Q, 2010	REQ Section of the Joint WEQ/REQ DSM Subcommittee
d. Create common interfaces and data structures necessary for enrolling DR sites into a DR program (Request No. R10002) Status: Underway	4 th Q, 2010	REQ Section of the Joint WEQ/REQ DSM Subcommittee with coordination with Smart Grid Standards Task Force and REQ BPS
4. Billing and Payments		
a. Develop Process Flows to be included as models in Book 3 – Billing and Payments Status: Completed	2 nd Q, 2010	BPS

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Item Number & Description ¹	Completion ²	Assignment ^{3,4}
b. If the development of Process Flows indicate a gap in the model business practices, then develop new model business practices to address the gap. Status: Completed	2 nd Q, 2010	BPS
5. Model Business Practices User Guide		
a. Add a new section to Book 0 to describe what Books have been developed, how the Books are laid out, and revised the title of the Book to reflect the additions Status: Completed	4 th Q, 2010	BPS
b. Develop process flows to support the user's guide Status: Not Started	2011	BPS
6. Additional Registration Agent Processes		
a. Review all existing Model Business Practices to determine if the Customer Information process is already covered, and if necessary develop any new Model Business Practices required Status: Completed	1 st Q, 2010	BPS
b. Review all existing Model Business Practices to determine if the disconnection and reconnection process is already covered, and if necessary develop any new Model Business Practices required. Status: Completed		
i. Create MBPs for disconnection/reconnection initiated by the supplier Status: Completed	4 th Q, 2009	BPS
ii. Create MBPs for disconnection/reconnection initiated by the distribution company Status: Completed	4 th Q, 2009	BPS
c. Review all existing Model Business Practices to determine if there are other Registration Agent Model processes not covered, and develop a prioritized list of those processes, if any. Status: Underway	2011	BPS
d. Develop Model Business Practices and Process Flows for those Registration Agent Model processes on the prioritized list developed in (c) above, if any. Status: Underway	2011	BPS
e. Develop Technical Electronic Implementation Standards and Data Dictionaries to support Model Business Practices of Book 14 – Service Requests, Disconnections and Reconnections in the registration Agent Model Status: Underway	2011	IR/TEIS
f. Develop Technical Electronic Implementation Standards and Data Dictionaries to support any Model Business Practices developed in (d) above Status: Underway	2011	IR/TEIS

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Item Number & Description ¹	Completion ²	Assignment ^{3,4}
7. Supplier Certification Develop practices to register/certify new Suppliers. Status: Underway	2011	BPS
8. Supplier Marketing Practices Develop Model Business Practices providing for a “Consumer Disclosure Statement” to be presented to residential and small commercial customers describing the Supplier’s service offering and related contract provisions. This statement would also identify how certain Supplier-Customer interactions are conducted. Amongst the topics to be considered for inclusion on the statement would be the following: <ul style="list-style-type: none"> • the most important terms of the Supplier agreement, such as the contract’s term and termination fee provisions; • training and identification of Supplier marketing representatives; • protocols for Supplier in-person and telephone contacts with customers; • added measures for protecting non-English speaking customers; and • Processes for handling customer complaints and resolving disputes arising from Supplier marketing activities. Status: Underway	1 st Q, 2011	BPS
9. Develop Smart Grid Wholesale and Retail Electric Standards		
a. Develop Requirements and Use Cases for PAP 03 – Pricing Model		
i. Phase 1 Status: Completed	1 st Q, 2010	Joint WEQ/REQ SGS Subcommittee
ii. Phase 2 Status: Completed	4 th Q, 2010	Joint WEQ/REQ SGS Subcommittee
b. Develop Requirements and Use Cases for PAP 04 – Scheduling Model		
i. Phase 1 Status: Completed	1 st Q, 2010	Joint WEQ/REQ SGS Subcommittee
ii. Phase 2 Status: Completed	4 th Q, 2010	Joint WEQ/REQ SGS Subcommittee
c. Develop Requirements and Use Cases for PAP 09 – Demand Response/Distributed Energy Resources		
i. Phase 1 Status: Completed	1 st Q, 2010	REQ Section of the Joint WEQ/REQ SGS Subcommittee
ii. Phase 2 Status: Completed	4 th Q, 2010	REQ Section of the Joint WEQ/REQ SGS Subcommittee

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Item Number & Description ¹	Completion ²	Assignment ^{3,4}
d. Develop standards to support PAP 10 – Standards Energy Usage Information		
i. Act as a convener (develop and implement a plan to expedite harmonized standards development and adoption within the associated standards bodies) and develop business practice standards as needed and assigned to NAESB for PAP 10 – Standard Energy Usage Information Status: Completed	2 nd Q, 2010	Joint WEQ/REQ PAP 10 SGS Subcommittee
ii. Develop Information Model and related business practices Status: Complete	4 th Q, 2010	Joint WEQ/REQ PAP 10 SGS Subcommittee
e. Develop standards to support inclusion of OpenADE requirements document into the NAESB Smart Grid standards (R10008), specifically to standardize the exchange of Energy Usage Information. Status: Underway	1st Q, 2011	REQ PAP 10 SGS Subcommittee Energy Services Provider Interface Task Force
10. Reserved (Items added under action item 6)		
11. Master List of Defined Terms: Review the definitions of all Defined Terms in Book 0 – Master List of Defined Terms, including other Ratified Terms not yet published, and revise the definitions of all Defined Terms not specifically related solely to the competitive marketplace to broaden their applicability to conform to NAESB’s expanded scope. Status: Completed	3 rd Q, 2010	Glossary

Program of Standards Maintenance & Fully Staffed Standards Work⁶

Business Practice Requests	Ongoing	Assigned by the EC
Information Requirements and Technical Mapping of Business Practices	Ongoing	Assigned by the EC
Ongoing Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC
Ongoing Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC
Ongoing Development and Maintenance of Definitions	Ongoing	Glossary

Provisional Activities

Joint Effort:

Modify TPA as necessary.

Review security standards as may be deemed necessary, such as Public Key Infrastructure (PKI).

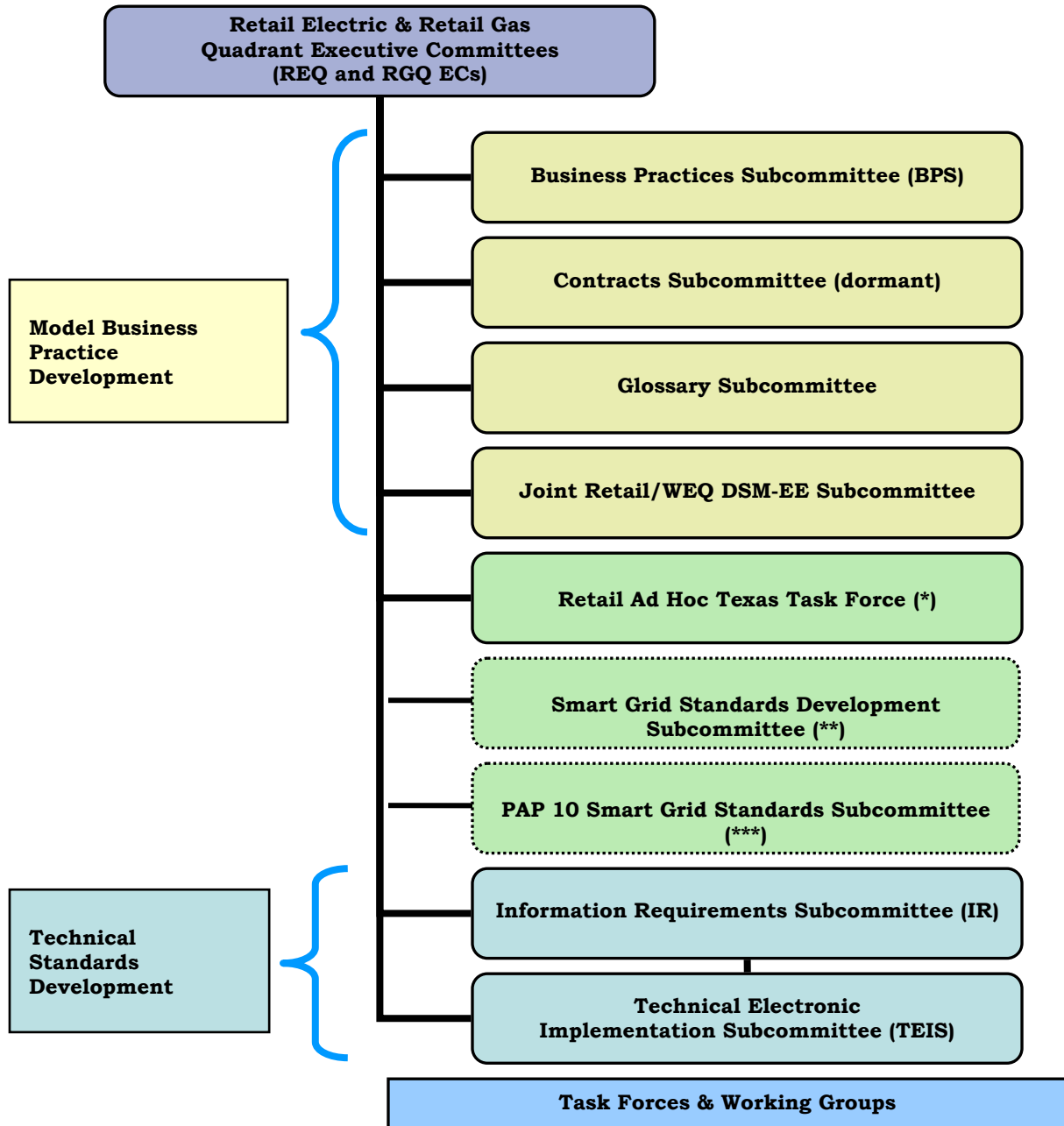
Review existing body of model business practices for consistency and develop or modify model business practices as needed.

Review and update the technical implementation of Book 3 – Billing and Payment

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Item Number & Description¹	Completion²	Assignment^{3,4}
Retail Electric Quadrant Effort Only:		
Retail Meter Data Validation, Editing & Estimating: Develop procedures for insuring the integrity and validity of retail customer metering data that is needed by utilities and suppliers for billing, etc. Issues related to unbundled or competitive metering are not to be considered.		
Settlement Process: Reconcile energy schedules and energy delivered by suppliers within a given market. Note: will need to be coordinated with the WEQ for the REQ.		
Develop business practice standards for cap and trade programs for green house gas (See action item 6h).		
Retail Gas Quadrant Effort Only:		
Examine Wholesale Gas Quadrant Non-EDM Standards for applicability to retail business practices.		
Settlement Process: Reconcile energy schedules and energy delivered by suppliers within a given market.		

RETAIL ELECTRIC & RETAIL GAS QUADRANT EXECUTIVE COMMITTEES AND SUBCOMMITTEES STRUCTURE



NAESB Retail Subcommittee Leadership: ⁷

Executive Committee: Mike Novak, Chair (RGQ), Phil Precht, Chair (REQ)

Business Practices Subcommittee: Phil Precht (RGQ), Dan Jones (REQ)

Information Requirements Subcommittee: Jennifer Teel (REQ)

Technical Electronic Implementation Subcommittee: TBD

Glossary Subcommittee: Patrick Eynon (REQ)

DSM-EE Subcommittee: Ruth Kiselewich, David Koogler (REQ), Roy True (WEQ), and Paul Wattles (WEQ)

Retail Ad Hoc Texas Task Force: Debbie McKeever (REQ) and Susan Munson (REQ)

(*) The Retail Ad Hoc Texas Task Force may draft MBPs, process flows, implementation guides and technical standards supportive of the Registration Agent. The group is chaired by Debbie McKeever and Susan Munson.

(**) 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, CalConnect, FIX and UCAIug, 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 REQ EC. The group is chaired by Brent Hodges, Wayne Longcore, Joe Zhou and Robert Burke.

(***) 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 REQ EC. The group is chaired by Brent Hodges, Phil Precht, Cathy Wesley/Heather Sanders, Sharon Dinges, David Kaufman, Brad Ramsay, Tobin Richardson and Ed Koch.

The PAP 10 Smart Grid Standards Subcommittee has created a Energy Services Providers Interface Task Force led by Dave Mollerstuen of Tendril, Steve Van Ausdall of Xtensible and Chad Maglaque of Xtreme Consulting Group to address the OpenADE request R10008.

The NAESB Standards Development Process

NAESB is focused on proposing, considering, and adopting voluntary standards and model business practices that will have a significant and lasting impact on all aspects of the natural gas and electricity marketplaces. As a result of the standards NAESB adopts, it is expected that the industry will operate more efficiently and effectively, benefiting both the industry and its customers. At the same time, it must be acknowledged that NAESB standards may constitute a change in the way parties do business, with an accompanying effect on the use and allocation of resources.

NAESB's policy is to move at a deliberate pace, consistent with its annual plan(s), thus permitting those affected by its standards, especially those standards adopted as regulations by the Federal Energy Regulatory Commission (FERC) or other regulatory bodies, to assimilate them as part of their business practices. To this end, NAESB will carefully consider whether proposed standards are both timely and necessary. In particular, it will try to avoid adopting and implementing new standards, however beneficial, before the industry is able to reasonably make use of them.

The standards development process is governed by the annual plan, and items can be included in the plan or modified only with Board approval. The plan typically reflects requests from NAESB members, government agencies, and other interested parties. In approving the annual plan, the Board considers the availability of resources, including the NAESB budget and staff and the availability of industry volunteers. New requests received throughout the year are either considered part of the existing annual plan or as new items that require Board approval.

The standards development process begins with an annual plan item or a triaged and approved request. Triage is a process used by each quadrant of the Executive Committee (EC) to determine whether a request is within scope, which quadrant(s) it applies to, which subcommittee(s) it should be referred to, and what priority it should be assigned. Triage is carried out by EC members appointed by the EC chair. Triage recommendations are submitted to the en banc EC and require EC approval, and may also require Board approval if there are scope questions or if a modification of the annual plan is required.

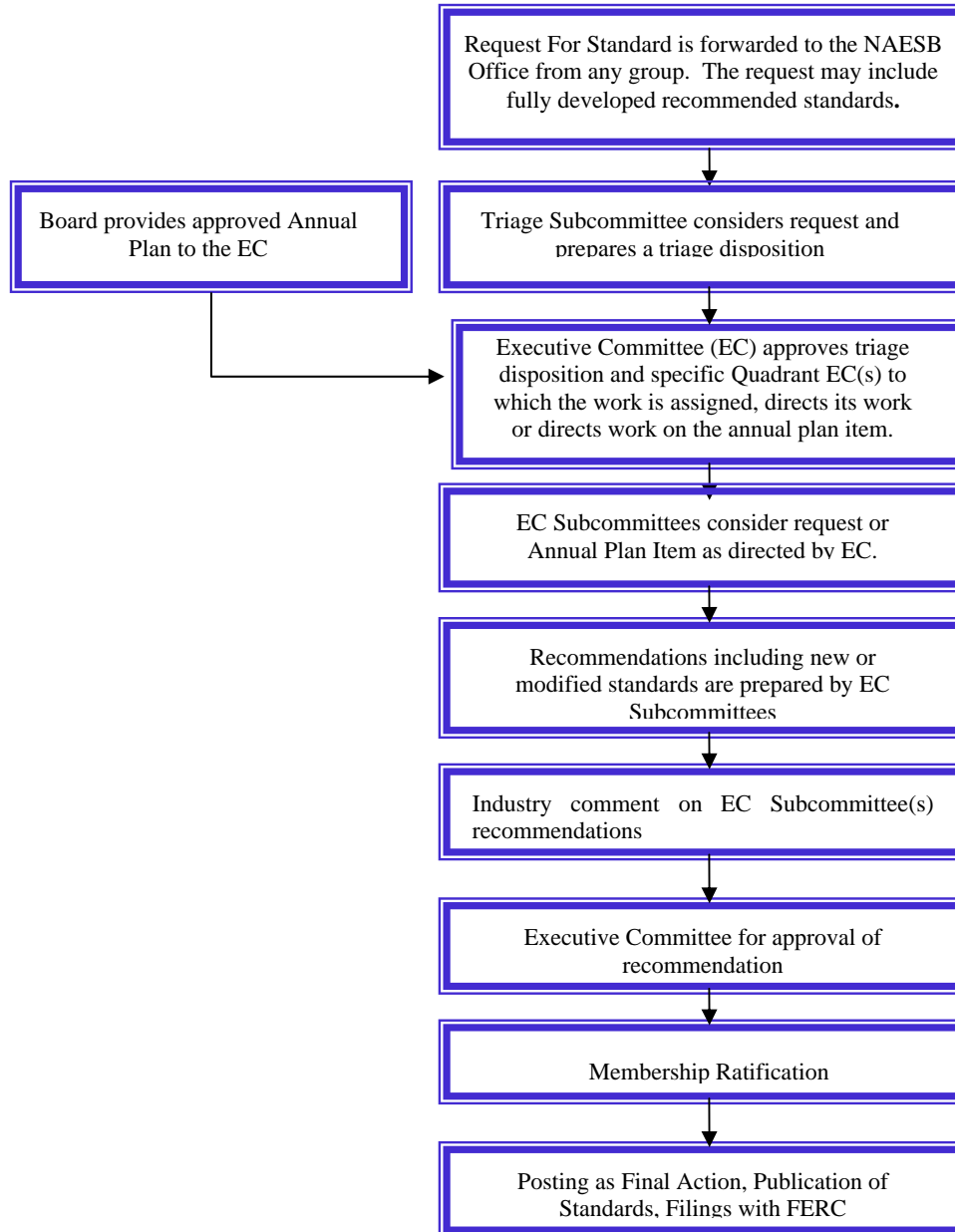
Once the triage process is completed, the subcommittees—more than one are normally involved in standards recommendations—review the request, compare it to existing standards, and prepare recommendations that may take the form of new or modified standards or interpretations. Participation in EC subcommittees is open to any interested party regardless of membership status. All subcommittee participants may vote; voting is balanced by segment and quadrant. All votes are public.

When the recommendation is complete, it is made available for a thirty-day industry comment period. The recommendation and comments are then forwarded to the EC, which considers the recommendation, makes any changes it deems necessary, and takes a vote. A recommendation must receive an affirmative vote of at least 67 percent from each applicable quadrant EC and 40 percent from each of the segments of the applicable quadrant(s).

After passage by the EC, the recommendation must be ratified by the NAESB members. An affirmative vote of 67 percent of the members of the applicable quadrant(s) is required for ratification. After ratification, standards and modifications are considered final actions and will be published in the next version of NAESB standards.

All NAESB quadrants follow the same development process described herein. The process has been followed by the WGQ since 1994 and has been used to develop more than five hundred standards that have been incorporated by reference into federal regulations.

North American Energy Standards Board
Standards Development Process Flow Chart



Flexibility

NAESB recognizes that flexibility is necessary as standards are developed to address regional concerns or to incorporate variances to accommodate operational or structural differences. Several WEQ standards incorporate regional or operational differences for both Version 0 and Version 1. There is a high threshold for incorporating such variances in a standard; the subcommittee(s) in drafting the standard, the EC in approving the subcommittee recommendation, and the membership in approving the standard must all agree that such variance is necessary. Nonetheless, NAESB procedures are well suited to take into account operational and regional differences.

Transparency

All NAESB meetings are open for attendance and participation by any interested party, with the exception of executive sessions of the Board or Managing Committee for purposes of discussing personnel, compensation or legal issues. Meeting announcements and agendas are posted in advance to permit the widest possible participation. Conference-calling capability is available for all meetings and web casting is available for most. Those intending to attend a meeting in person or by telephone are asked to notify NAESB by a specific date to permit adequate meeting planning.

Transcripts are made of all Board of Directors and EC meetings, and may also be made of other meetings that are expected to be controversial. Transcripts are maintained in the NAESB office and are provided to regulatory agencies for their internal use. All other interested parties can purchase transcripts from the relevant transcription service.

Coordination with NERC

For business practice standards development for the WEQ, if it is determined by NERC and NAESB Executive Management that joint development is needed by NERC and NAESB, the NERC-NAESB Coordination Joint Development Process is implemented.¹ This process requires that the appropriate NAESB Subcommittee and NERC Standards drafting team work together to develop reliability standards and business practices.

The Joint Interface Committee of NAESB, NERC and the ISO-RTO Council (“JIC”) was dissolved as part of the agreement to create the Independent Grid Operator segment of the WEQ. The joint development process between NAESB and NERC is being used to ensure appropriate coordination. The ISOs and RTOs have strong decision-making roles in both NERC and NAESB, and thus with the use of the joint development process, the JIC was no longer necessary.

Accessibility of Standards and Work Products

The NAESB standards and protected work products are accessible to members at no cost as a benefit of their membership. Non-members can purchase the standards as a full version, or they can purchase individual final actions. Non-members can also access the standards at no cost by requesting an evaluation copy. NAESB standards and protected work products are copyrighted. Non-members can download a NAESB materials order form from the NAESB web site for ordering standards or for instructions on accessing standards for evaluation.

¹ The NERC-NAESB Coordination Joint Development Process was submitted to the Commission on February 17, 2006 in Attachment C of the Progress Report on NAESB Activities impacting Docket No. RM05-5-000, “Standards for Business Practices and Communication Protocols for Public Utilities”: http://www.naesb.org/doc_view2.asp?doc=ferc021706.pdf.

End Notes WEQ 2009 Annual Plan:

¹ 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.

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

³ The Electronic Scheduling Subcommittee and Information Technology Subcommittee (ESS/ITS) were merged together through a decision made at the May 12, 2009 WEQ EC meeting. The new subcommittee is named Open Access Same Time Information System Subcommittee (OASIS) and is now shown for assignments in this and future annual plans as OASIS. Similarly the Joint Interchange Scheduling Working Group (JISWG) was renamed the Joint Electric Scheduling Subcommittee and now reports to the WEQ EC. JESS is now shown for assignments in this and future annual plans rather than JISWG. The changes took effect on August 1, 2009.

⁴ For additional information, please see comments submitted by PJM and MISO for this Annual Plan Item: http://www.naesb.org/pdf3/weq_aplan102907w1.pdf.

End Notes WEQ 2010 Annual Plan:

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³ Energy efficiency may be a wholesale product, such as capacity. Energy efficiency in retail markets may be from individual energy efficiency measures at the project level or a portfolio of projects that make up an energy efficiency program.

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Retail 2009 Annual Plan End Notes:

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