



## North American Energy Standards Board

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via posting & email

**TO:** NAESB Board of Directors  
**cc:** NAESB Retail Structure Review Committee (RSRC)  
**RE:** Report from the NAESB RSRC for Board Consideration  
**DATE:** March 1, 2013

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Dear NAESB Board of Directors,

Attached please find the report of the RSRC to the NAESB Board of Directors regarding the structure of the retail quadrants and the requirement detailed in the bylaws that each quadrant have a minimum of forty members, at least four segments and at least five members per segment – as approved by the NAESB Board of Directors on December 6, 2012. The report is part two of a two -part report. The first part was presented and approved by the Board of Directors at its December 6, 2012 meeting. The Board of Directors on December 6 approved:

- 1) the RSRC to begin the process of merging the quadrants and adjusting the segments such that the merged retail quadrants meet the requirements in the bylaws and takes into consideration preserving existing members and leadership,
- 2) the RSRC to bring the full recommendation with implementation to the board for its approval in April 2013, and
- 3) the structural change to be put in place through a motion of the board for a period of a minimum of two years, after which the board will review its success and determine if this interim solution should be codified in the NAESB Operating Practices, Bylaws and Certificate.

With this report, the RSRC asks the Board to approve the implementation of the direction noted above, including the segment definitions, assignments to segments of existing members, and other structural changes that may arise during the discussions on implementation. The RSRC also reconfirms with the board that the implementation be considered an interim step for a minimum of two years, to provide time to determine if the structure in place is supportive of the requirements of the bylaws. As such, a retail membership progress report will be presented at each Board meeting during the two year interim period, and will include any issues that arise as part of the restructured quadrant and segments.

***The NAESB Board of Directors on April 4, 2013 accepted the report and its recommendations.***



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## North American Energy Standards Board Retail Structure Review Committee (RSRC) Report

*To be Presented to the NAESB Board of Directors on April 4, 2013*

### *Report Components:*

<i>1. Background</i>	<i>2</i>
<i>2. Membership Profile and Work Products</i>	<i>3</i>
<i>3. Direction for Merging Quadrants</i>	<i>6</i>
<i>4. Options for Retail Structure</i>	<i>7</i>
<i>5. Actions to be Taken and Considerations</i>	<i>9</i>

### *Appendices:*

<i>A. RSRC Committee Members</i>	<i>12</i>
<i>B. RSRC Meeting Notes</i>	<i>13</i>
<i>C. Current NAESB Membership Profile</i>	<i>14</i>
<i>D. Proposed Structure – Membership, Board of Directors and Executive Committee</i>	<i>26</i>
<i>E. NAESB Governance Documents Excerpts</i>	<i>30</i>
<i>F. Retail 2013 Annual Plan</i>	<i>31</i>



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### **BACKGROUND:**

The Retail Structure Review Committee was formed in December 2004 by Michael Desselle, Chairman of the NAESB Board of Directors, to address the issue of membership in the retail quadrants and the thresholds set for membership in quadrants and segments, and the number of segments. Periodic reports are made to the Board of Directors on progress made toward meeting the membership thresholds and structural changes in support of the quadrants.

The mission of the group is: “The Retail Structure Review Committee functions solely at the pleasure of the NAESB Board of Directors and reports to the NAESB Board of Directors through the NAESB Board Managing Committee. The committee will make recommendations to the full board to address the membership levels in the retail electric and retail gas quadrants through possible changes to NAESB Bylaws, structural changes to the quadrants or their segments including merger of the two quadrants.”

The committee has typically discussed issues as part of the retail quadrants leadership meetings held the day before the board meetings. However on September 18, 2012, the committee held a meeting to begin discussing in earnest the changes that may be needed to the structure to address the inability of the retail quadrants to meet the membership thresholds outlined in the bylaws.

The bylaws specify that a quadrant should have at least forty members, and at least four segments with five members per segment. The board has waived these requirements in the past, with the expectation that the quadrants would grow based on the relevance of their work products. While the quadrants have produced a significant body of work, they have not been able to meet the thresholds outlined in the bylaws, since the inception of NAESB in 2002. In 2009, structural changes were made to the retail quadrants which resulted in an increase in members in the retail electric quadrant, but not in the retail gas quadrant.

In response to the discussions at the Board of Directors meeting on September 20, and the discussions at the Retail Executive Committees meeting on October 24, a conference call and web cast meeting was held on October 31 with follow up calls held on November 6, November 15 and November 30 to draft the first part of a two-part recommendation to the board for its consideration on December 6, 2012. The board adopted the recommendation and asked that the second part of the recommendation be presented for consideration at its April 4, 2013 meeting.

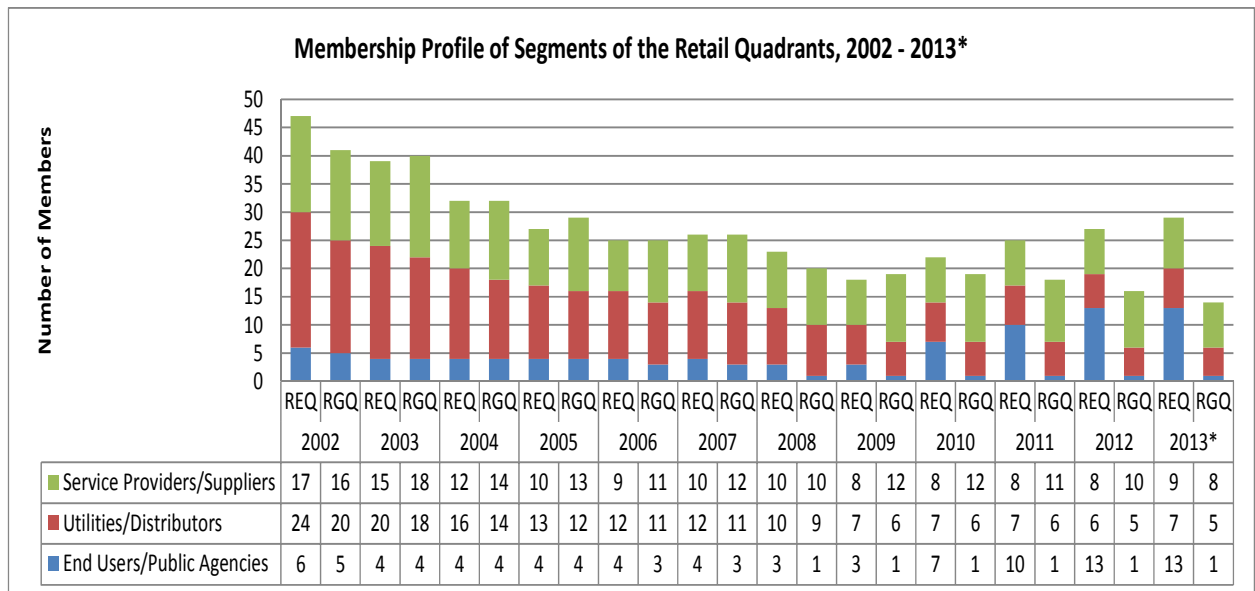
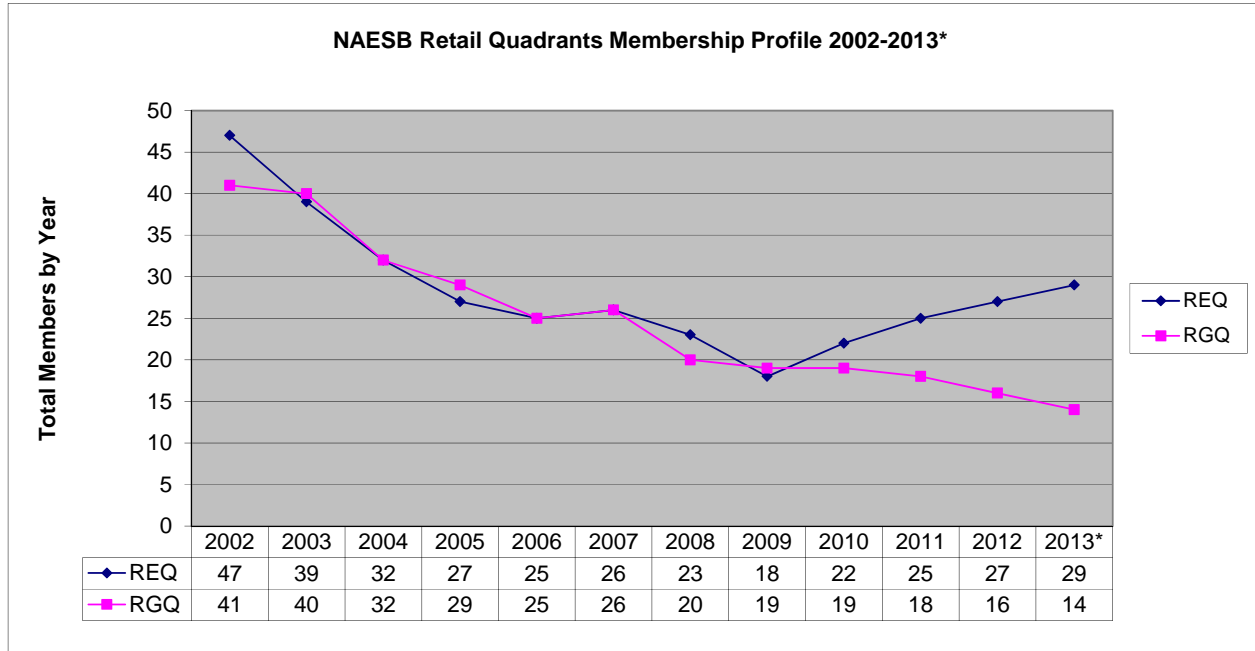


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## MEMBERSHIP PROFILE AND WORK PRODUCTS:

The membership in the retail quadrants began in 2002 meeting the threshold of forty members per quadrant, but declined quickly thereafter as can be seen in the charts below.



\* The data for 2013 is as of February 2013



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This decline in membership in the retail quadrants should not be seen as a disinterest in the benefit of using energy industry best practices or uniform telecommunication protocols at the state level. There are other groups and trade associations that have developed practices and guidelines, many under the direction of state regulatory agencies, and as such, those groups have not seen the need for a more rigorous ANSI-accredited process of standards development, such as is provided by NAESB, or in using NAESB as a balanced industry resource to support state regulatory policies. The decline in membership of the utility companies and local distribution companies can be explained through their reliance on key individuals to represent their interests and development of best practices and guidelines through trade associations and other regional groups. Industry consolidation can also be seen as a reason for the decline in membership. While this is true for all quadrants, it is proportionally more of an impact to the quadrants and segments with fewer members. Moreover, the consolidations shrink the pool of potential members for the quadrants.

The work products of the two quadrants can be seen below:

Retail Electric Quadrant		Retail Gas Quadrant	
Reference	Description	Reference	Description
RXQ.0	Overview of Model Business Practices and Master List of Defined Business Terms	RXQ.0	Overview of Model Business Practices and Master List of Defined Business Terms
RXQ.1	Market Participant Interactions Model Business Practices MBPs	RXQ.1	Market Participant Interactions Model Business Practices MBPs
RXQ.2	Creditworthiness MBPs	RXQ.2	Creditworthiness MBPs
RXQ.3	Billing and Payment MBPs	RXQ.3	Billing and Payment MBPs
RXQ.4	Distribution Company-Supplier Disputes MBPs	RXQ.4	Distribution Company-Supplier Disputes MBPs
RXQ.5	Quadrant-Specific Electronic Delivery Mechanism MBPs	RXQ.5	Quadrant-Specific Electronic Delivery Mechanism MBPs
RXQ.6	Contracts Related MBPs	RXQ.6	Contracts Related MBPs
	RXQ.6.1 - Electronic Data Interchange Trading Partner Agreement (TPA)		RXQ.6.1 - Electronic Data Interchange Trading Partner Agreement (TPA)
	RXQ.6.2 - Outline of a Non-Disclosure Agreement		RXQ.6.2 - Outline of a Non-Disclosure Agreement
	RXQ.6.3 - Distribution Company-Supplier Service Agreement Outline		RXQ.6.3 - Distribution Company-Supplier Service Agreement Outline
	RXQ.6.4 - Billing Services Agreement Outline for Consolidated Billing		RXQ.6.4 - Billing Services Agreement Outline for Consolidated Billing
	RXQ.6.5 - Base Contract for Retail Sale and Purchase of Natural Gas or Electricity		RXQ.6.5 - Base Contract for Retail Sale and Purchase of Natural Gas or Electricity
	REQ.6.6 - Production Connectivity Worksheet for Use in Markets Supporting the Registration Agent Model		
	REQ.6.7 - Distribution Company – Supplier Service Agreement for Use in the Markets Supporting the Registration Agent Model		
	REQ.6.8 - Standard Form Agreement Between a Market Participant and Registration Agent		



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Retail Electric Quadrant		Retail Gas Quadrant	
Reference	Description	Reference	Description
	REQ.6.9 - Load Serving Entity Application for Registering with Registration Agent		
RXQ.7	Internet Electronic Transport MBPs	RXQ.7	Internet Electronic Transport MBPs
RXQ.8	Retail Customer Information MBPs	RXQ.8	Retail Customer Information MBPs
RXQ.9	Retail Customer Billing and Payment Notification via Uniform Electronic Transactions MBPs	RXQ.9	Retail Customer Billing and Payment Notification via Uniform Electronic Transactions MBPs
RXQ.10	Retail Customer Enrollment, Drop, and Account Information Change MBPs	RXQ.10	Retail Customer Enrollment, Drop, and Account Information Change MBPs
RXQ.11	Retail Customer Enrollment, Drop, and Account Information Change Using a Registration Agent MBPs	RXQ.11	Retail Customer Enrollment, Drop, and Account Information Change Using a Registration Agent MBPs
RXQ.12	Retail Customer Inquiries MBPs	RXQ.12	Retail Customer Inquiries MBPs
REQ.13	Measurement and Verification (M&V) of Demand Response Programs MBPs		
RXQ.14	Service Request, Disconnection and Reconnection in the Registration Agent Model MBPs	RXQ.14	Service Request, Disconnection and Reconnection in the Registration Agent MBPs
REQ.15	Specifications for Common Electricity Product and Pricing Definition MBPs		
REQ.16	Specifications for Common Schedule Communication Mechanism for Energy Transactions MBPs		
REQ.17	Specifications for Retail Standard Demand Response Signals MBPs		
REQ.18	Retail Customer Energy Usage Information Communication MBPs		
REQ.19	Measurement & Verification of Energy Efficiency Programs MBPs		
REQ.20	Smart Grid Standards Data Elements Table MBPs		
REQ.21	Energy Services Provider Interface MBPs - Green Button Initiative		
REQ.22	Third Party Access to Smart Meter-based Information MBPs		
RXQ.23	Supplier Marketing Practices MBPs	RXQ.23	Supplier Marketing Practices MBPs
REQ.24	Enrollment, Drop and Account Information Change in Demand Response Programs MBPs		
RXQ.25	Supplier Certification MBPs	RXQ.25	Supplier Certification MBPs



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There are 25 different topics and business functions addressed by NAESB for retail standards. Of the 25 business functions addressed, 10 functions (40%) are retail electric market specific. The other 15 business functions are market neutral – i.e., they provide both retail natural gas and retail electricity functionality. This can be easily determined in the chart above, as if there are no corresponding development items shown under the columns for retail gas, then the development was retail electric specific. Although energy efficiency and data privacy could be extended to retail gas and drafted as commodity neutral standards, it was determined by the retail gas interests that NAESB would not undertake such development for retail gas at this time. The ability to draft commodity neutral standards for smart grid applications and for demand response is not so clear cut, and the work products developed were for retail electric market applications only.

The standards developed are governed via the annual plans for the retail gas and retail electric quadrants and can be found in Appendix E. The 2013 annual plan for the retail interests is quite aggressive and continued efforts will be made to reach out to all interested parties, regardless of membership. As an example of the reach-out efforts, for demand response, energy efficiency, data privacy and smart grid related standards development, the retail electric quadrant has recently seen an increase in participation and membership, which we expect to continue. Should the retail gas market show interest in development of standards for other than customer choice programs, or if state regulators determine that NAESB is a resource that they can use to implement retail gas policies, we may also see an increase in retail gas membership, but to date, that has not been the case.

Contributing to the potential for growth in membership, the recent actions by the board to approve a meeting attendance fee for non-members and changes to the web site to delineate member from non-member benefits, we may see more interest in membership – particularly for those participants that follow the development of demand response, energy efficiency, data privacy and smart grid related standards – as these efforts have a high percentage of non-member participation. As there are more pressures brought to bear to introduce cost efficiencies in the retail markets, the need for and awareness of the benefits of standards development will be realized – which could result in an increase in participation and membership in NAESB.

Therefore, while the membership profile does not meet the threshold requirements of the bylaws, there are promising signs of membership increases based on board actions to delineate membership benefits from non-member participation and from development areas such as smart grid that attract interest.

### **DIRECTION FOR MERGING QUADRANTS APPROVED BY THE BOARD OF DIRECTORS ON DECEMBER 6, 2012:**

The Board of Directors on December 6, 2012 approved:

- 1) the RSRC to begin the process of merging the quadrants and adjusting the segments such that the merged retail quadrants meet the requirements in the bylaws and takes into consideration preserving existing members and leadership,
- 2) the RSRC to bring the full recommendation with implementation to the board for its approval in April 2013, and
- 3) the structural change to be put in place through a motion of the board for a period of a minimum of two years, after which the board will review its success and determine if this interim solution should be codified in the NAESB Operating Practices, Bylaws and Certificate.



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## OPTIONS DISCUSSED FOR RETAIL QUADRANT STRUCTURE:

Our current retail quadrant structure can be seen in the chart below:

<b>Retail Electric Quadrant</b>	<b>TOTAL</b>	<b>29</b>
	End Users/Public Agencies	13
	Utilities	7
	Service Providers/Suppliers	9
<b>Retail Gas Quadrant</b>	<b>TOTAL</b>	<b>14</b>
	End Users/Public Agencies	1
	Distributors	5
	Service Providers/Suppliers	8

As February 2013, the current quadrants do not meet the threshold of 40 members, and neither quadrant has the minimum four segments required, and for the retail gas quadrant, the end user segment does not have the requisite minimum of five members. The board and EC seats for the retail gas quadrant have a significant number of vacancies.

Three options were discussed as recommendations for a single structure merging the membership of the retail gas and electric quadrants:

- 1) Merge the retail quadrants and adjust segments such that there are five segments: three specific to retail electric interests (utilities, service providers/suppliers, end users/public agencies) and two specific to retail gas interests (distributors, retail gas market interests other than distributors).

<b>Proposal 1 -- Merged Quadrant</b>	<b>TOTAL</b>	<b>43</b>
	Utilities	7
	Distributors	5
	Retail Gas Market Interests Other than Distribution	9
	Retail Electric Service Providers/Suppliers	9
	Retail Electric End Users/Public Agencies	13

The distribution segment is at the five member minimum threshold presenting a risk that this proposal would not in the future meet the bylaws requirements. In addition, with this structure, there would be a number of vacancies in the Board and EC seats for the two segments representing the retail gas interests.

In favor of this approach, the thresholds established in the bylaws would be met and the existing members of retail quadrants would have their membership remain intact through the restructure of the segments.





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Also, the commodity-neutral development work and maintenance of commodity-neutral standards would not be disrupted.

The committee did not support this approach.

- 2) Merge the retail quadrants and adjust segments such that there are five segments: three specific to retail electric interests (utilities, service providers/suppliers, end users/public agencies) and two specific to retail gas interests (distributors, service providers/suppliers).

<b>Proposal 2 -- Merged Quadrant</b>	<b>TOTAL</b>	<b>42</b>
	Utilities	7
	Distributors	5
	Retail Gas Service Providers/Suppliers	8
	Retail Electric Service Providers/Suppliers	9
	Retail Electric End Users/Public Agencies	13

As with the first proposal, the distribution segment is at the five member minimum threshold presenting a risk that this proposal would not in the future meet the bylaws requirements. In addition, with this structure, there would be a number of vacancies in the Board and EC seats for the two segments representing the retail gas interests. Also, this proposal does not account for one retail gas quadrant end user member. The segments are clearly defined and as retail gas interests build support from end users and public agencies, either another segment could be added or they could be accommodated in the retail electric end users and public agencies segment by simply dropping the description that the segment is specific to the retail electric market interests.

In favor of this approach, the thresholds established in the bylaws would be met. Also, the commodity-neutral development work and maintenance of commodity-neutral standards would not be disrupted.

The committee did not support this approach.

- 3) Merge the retail quadrants and adjust segments such that there are four segments: three specific to retail electric interests (utilities, service providers/suppliers, end users/public agencies) and one specific to retail gas interests (retail gas). The board and executive committee would each have six seats per segment to have at least one vacancy available for future leadership growth.

<b>Proposal 3 -- Merged Quadrant</b>	<b>TOTAL</b>	<b>43</b>
	Utilities	7
	Retail Electric Service Providers/Suppliers	9
	Retail Electric End Users/Public Agencies	13
	Retail Gas Market Interests	14



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This approach does on the surface, give the impression of minimizing the retail gas market interests. However, as much of the standards work is developed through the efforts of combination companies, it is unlikely that the interests of retail gas markets would be overlooked or dismissed.

The structure does not present the immediate risks with respect to segment thresholds seen in proposals 1 and 2 – that we could soon be faced with a segment that does not meet the bylaws requirements. In addition, with this structure, there are fewer vacancies for the Board and EC seats. In favor of this approach, the thresholds established in the bylaws would be met and the existing members of retail quadrants would have their membership remain intact through the restructure of the segments. Also, the commodity-neutral development work and maintenance of commodity-neutral standards would not be disrupted.

The committee does support this approach.

### **ACTIONS TO BE TAKEN AND CONSIDERATIONS:**

If the recommendation is approved by the board, the following actions should be taken by the committee within the timeframe established by the board, presumably before the next board meeting on September 5, 2013:

- Communicate the board decision to the retail gas and electric quadrant membership, trade associations and Advisory Council
- Confirm that the existing retail gas and electric quadrant board and executive committee members will continue to maintain their seats in the new structure
- Update the membership rosters with the resulting new structure
- Make minor conforming changes to the web site

There are considerations of which we should be mindful, and if these considerations have adverse effects on the organization, they should be included in reports to the board so that corrective actions can be taken:

- With the new structure, retail gas interests would now be required to vote on items that are retail electric specific – such as demand response, energy efficiency, data privacy and smart grid related standards. There is a slight risk associated with this option. The retail quadrants have essentially worked jointly since the inception of NAESB with the exception of development that is retail electric market specific, and that this option maintains that strong and cohesive working relationship
- Combination companies may decide that only one membership is necessary, resulting in a possible loss of membership – initially, this may impact the companies in the retail gas market, as more projects are underway specific to the retail electric market. However, this loss would be minimal for current membership since there are only two companies with memberships in both retail quadrants. The risk could also be minimized by emphasizing that double membership would allow for expanded decision making.
- While there is a clear path to development and maintenance of the retail electric standards and work products as three of the four segments are retail electric market specific, the focus should remain broad enough to accommodate the interests of retail gas standards development.
- The committee recognizes that under the restructuring, there would be, at least for the interim period, only three active quadrants, which is not technically correct. However, the committee recommends retaining the term in the hope that after an interim period, the quadrants will grow sufficiently to allow for a retail gas and a retail electric quadrant meeting the bylaws membership threshold provisions.



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- A final point should be noted. The retail quadrants have essentially worked jointly since the inception of NAESB with the exception of development that is retail electric market specific, and that this restructuring not only maintains the cohesive working relationship, but strengthens it as all members of the merged quadrant will have decision making authority for all retail market related work products.



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## Appendices

*Appendices:*

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## Appendix A – RSRC Committee Members

### NAESB Board Retail Structure Review Committee

Named Members	Organization
Jim Buccigross	8760 Inc.
J. Cade Burks	Big Data Energy Services
Valerie Crockett	Tennessee Valley Authority
Michael Desselle	Southwest Power Pool
Dan Jones*	Duke Energy Corp.
Ruth Kiselewich	Baltimore Gas & Electric Company
Debbie McKeever	Oncor Electric Delivery
Jim Minneman	PPL Solutions
Mike Novak	National Fuel Gas Distribution
Phil Precht*	Baltimore Gas & Electric Company
Keith Sappenfield	Encana Oil and Gas (USA) Inc.

\* *Not a Board member*



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Appendix B – RSRC Meeting Notes

## NAESB Board Retail Structure Review Committee Meeting Notes

Meeting Date	Meeting Notes
January 10, 2013	Meeting Notes: <a href="http://www.naesb.org/pdf4/rsrc011013mn.doc">http://www.naesb.org/pdf4/rsrc011013mn.doc</a>
January 24, 2013	Meeting Notes: <a href="http://www.naesb.org/pdf4/rsrc012413mn.doc">http://www.naesb.org/pdf4/rsrc012413mn.doc</a>
February 22, 2013	Meeting Notes: <a href="http://www.naesb.org/pdf4/rsrc022213mn.docx">http://www.naesb.org/pdf4/rsrc022213mn.docx</a>



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## Appendix C – Current NAESB Membership Profile

### NAESB Membership Statistics – Changes by Quadrant for 2013 as of February 15, 2013

NAESB Membership Report - Quadrant/Segment Membership Analysis		Number of Members
<b>WGQ Segments</b>	<b>TOTAL</b>	<b>115</b>
	End Users	14
	Distributors	17
	Pipelines	43
	Producers	12
	Services	29
<b>REQ Segments</b>	<b>TOTAL</b>	<b>29</b>
	End Users/Public Agencies	13
	Utilities	7
	Service Providers/Suppliers	9
<b>RGQ Segments</b>	<b>TOTAL</b>	<b>14</b>
	End Users/Public Agencies	1
	Distributors	5
	Service Providers/Suppliers	8
<b>WEQ Segments</b>	<b>TOTAL</b>	<b>129</b>
	End Users	7
	Distributors	20
	Transmission	41
	Generation	21
	Marketers	23
	None Specified	1
	Independent Grid Operators/Planners	9
	Technology /Services	7



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## Appendix C – Current NAESB Membership Profile

Quadrant	New and Resigning Members	Number of Members
WEQ	New Members: 1-Clark Public Utilities (Distribution/LSE, Muni/Coop)	1
	Member Resignations: 1-Lincoln Electric System (Generation, Muni/Coop); 2-First Energy Service Company	2
WGQ	New Members:	0
	Member Resignations:	0
REQ	New Members: 1-CenterPoint Energy Houston Electric, LLC (Utilities)	1
	Member Resignations:	0
RGQ	New Members:	0
	Member Resignations: 1-Exelon Energy (Service Providers/Suppliers), 2-Vectren Retail, LLC (Service Providers/Suppliers)	2
TOTAL	New Members:	2
	Member Resignations:	4





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## Appendix C – Current NAESB Membership Profile

	Organization	Seg <sup>1</sup>	Contact	Sub-Seg <sup>2</sup>
Retail Electric Quadrant Members:				
1	ABB Ventyx	s	Robert Pulcini, Karen Wei	
2	Alabama Power	u	Judy W. Ray	
3	Ameren Services Company	u	Patrick Eynon	
4	Baltimore Gas & Electric Co.	u	Ruth Kiselewich, Phil Precht	
5	Big Data Energy Services	s	J. Cade Burks, Jennifer Teel	
6	CenterPoint Energy Houston Electric, LLC	u	John Hudson	
7	City of Houston	e	James P. Cargas	
8	Converge, Inc.	s	Wendell Miyaji	
9	Dominion Retail	s	William Barkas	
10	Dominion Virginia Power	u	Brandon Stites	
11	Electric Reliability Council of Texas (ERCOT)	e	Susan Munson	
12	Energy Information Standards Alliance	e	Christopher Kotting	
13	Intelometry, Inc.	s	Raymond W. Anderson	
14	ISO New England	e	Dennis Robinson, Douglas Smith, Eric Winkler	
15	ista	s	Judy Bailey	
16	Maryland Public Service Commission	e	Steven Theroux	
17	National Association of Regulatory Utility Commissioners	e	James Bradford Ramsay	
18	New Jersey Board of Public Utilities	e	Kristi Izzo	
19	Oncor	u	Debbie McKeever, Debra Anderson, Mark Carpenter	
20	Pennsylvania Office Of Consumer Advocate	e	Tanya J. McCloskey	
21	Pennsylvania Public Utility Commission	e	Annunciata E. Marino	
22	PPL Solutions, LLC	s	James M. Minneman, Kim Wall	
23	Public Utilities Commission of Ohio	e	Amanda Stallings	
24	Public Utility Commission of Texas	e	Christine Wright	
25	Southern Company Services	s	H. Neal Allen	

<sup>1</sup> The segment abbreviations are: **REQ**: u – utilities, e – end users/public agencies, s – service providers/suppliers. **RGQ**: d – distributors, e – end users/public agencies, s – service providers/suppliers. **WEQ**: m – marketer/broker, d – distribution, i – independent grid operators/planners, t – transmission owner, e – end user, g – generator, ts – technology/services. **WGO**: s – services, pl – pipeline, l – LDC, pr – producer, e – end user.

<sup>2</sup> The sub-segment apply only to the WEQ and the abbreviations are – muni – municipal/cooperative, iou – investor owned utility, itc – independent transmission company, fed – federal/state/provincial facility/agency, lind – large industrial, sgen – self generation, end use – end user that may be represented in other segments, merc – merchant, N – no designation, reg – regulatory agency, niou – not investor owned utility. To get a full description of the subsegment, please reference the WEQ Procedures: [http://www.naesb.org/pdf/weq\\_quadrant\\_procedures.doc](http://www.naesb.org/pdf/weq_quadrant_procedures.doc)



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## Appendix C – Current NAESB Membership Profile

	Organization	Seg <sup>1</sup>	Contact	Sub-Seg <sup>2</sup>
26	SunGard Consulting Services, LLC	s	Austin Morris	
27	Vermont Public Service Board	e	Mary Jo Krolewski	
28	Wisconsin Public Service Corporation	u	Dennis Derricks, Ken Thiry	
29	ZigBee Alliance	e	Tobin Richardson	

### Wholesale Gas Quadrant Members:

1	8760, Inc.	s	Jim Buccigross	
2	Accenture, LLP	s	Shelley Hurley	
3	AGL Resources Inc	l	Tim Sherwood	
4	Alliance Pipeline LP	pl	Cathie Legge, Brian Troicuk	
5	American Gas Association	l	Andrew K. Soto, Sr., Pete Connor	
6	American Midstream Partners, LP	s	Marty Patterson	
7	ANR Pipeline Company	s	Sandy Meyers, Joseph E. Pollard, Rene Staeb, Debbie Forth, Carol Wehlmann, Radha Raman, Mary Doss	
8	Arizona Public Service Company	e	Tom Carlson	
9	Atmos Energy	pl	Steve Easley	
10	Baltimore Gas & Electric Co.	l	Phil Precht	
11	Barclays Bank PLC	s	Guy Kern-Martin, Michelle Hiley	
12	Bentek Energy, LLC	s	Jack Weixel	
13	BG Energy Merchants, LLC	s	Martha Thalman, Susan Bailey, David Buckley, Victoria Versen	
14	Blackstone Technology Group	s	Rakesh Agrawal	
15	Boardwalk Pipeline Partners, LP	pl	Randy Young, Kim Van Pelt	
16	Boeing Co., The	e	Tina Burnett	
17	BP Energy	pr	Mark Stultz, Rhonda Denton	
18	Calpine Energy Services, LP	e	Shonnie Daniel, Jay Dibble	
19	Cargill Incorporated	s	Lester Welch	
20	Carolina Gas Transmission Corporation	pl	Rae Davis, Dana B. Randall	
21	Castleton Commodities Merchant Trading L.P.	s	Tara Liscombe	
22	CenterPoint Energy Services, Inc.	s	Mickey Moon, Larry Kunkle	
23	CenterPoint Energy Gas Transmission Company	pl	Cindy Suarez, Larry Thomas	
24	CenterPoint Energy Mississippi River Transmission Corporation	pl	Cindy Suarez, Mike Stoll	
25	Cheniere Pipeline Company	pl	Whit Scott	
26	Chevron Natural Gas	pr	Charles (Chuck) Cook	
27	Chevron Pipe Line Company	pl	Mary Anne Collins, Deborah Plattsmier, Jeff Kirk	



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28	Cimarex Energy Co.	pr	Charlotte Baker	
29	Citigroup Energy Inc.	s	Carrie Southard, Angela Davis	
30	Colorado Springs Utilities	l	Joe M. Holmes	
31	Columbia Gas Transmission	pl	Claire Burum	
32	ConocoPhillips Gas and Power	pr	Catherine R. Abercrombie, Pete Frost	
33	Consolidated Edison Company of NY	l	Scott Butler	
34	Constellation Energy Commodities Group Inc.	s	Lisa Simpkins, Joseph Kirwan, Andrea Kullman, Jennifer Scott, Stephen C. Knapp	
35	Dauphin Island Gathering Partners	pl	Katie Rice	
36	DB Energy Trading	s	William Donnelly, Travis McCullough	
37	DCP Midstream, LLC	pl	Katrina E. White	
38	Defense Logistics Agency Energy	e	Veronica Jones, Kevin Ahern	
39	Department of Energy	e	Christopher Freitas	
40	Devon Energy Corporation	pr	Bill Green, Josephina Nguyen, Mike Dionisio	
41	Dominion Resources	l	Craig Colombo	
42	Dominion Transmission, Inc.	pl	Becky Miller, Ron Tomlinson	
43	DTE Energy Trading, Inc.	s	Gregory V. Staton, James Buck, Dena Crawford, Marcia L. Hissong, Ann Marie Jambor, Cynthia Klots, Shelley Greene	
44	Eastern Shore Natural Gas Company	pl	Elaine B. Bittner	
45	El Paso Natural Gas Company, L.L.C.	pl	William Griffith	
46	Enbridge (U.S.) Inc.	pl	Elise Cort	
47	Encana Marketing (USA) Inc.	s	Keith Sappenfield, Jeff Jarvis	
48	Encana Oil & Gas (USA) Inc.	pr	Keith Sappenfield, Jeff Jarvis	
49	Energy Transfer Partners, L.P.	pl	Josie Castrejana, Miki Kolobara	
50	Enogex Energy Resources LLC	s	Cary Metz	
51	Entergy Services, Inc.	e	Laura Berryman, Terry Shields	
52	Enterprise Products Partners L.P.	pl	Jeff Molinaro	
53	EP Energy E&P Company, L.P.	pr	Stephanie Karm	
54	Equitrans, LP	pl	Paul W. Diehl	
55	ExxonMobil Gas & Power Marketing Company a division of Exxon Mobil Corporation	pr	Randy E. Parker, John W. Poe	
56	Florida Power & Light Company	e	Tim Gerrish, Art Morris	
57	Gas Transmission Northwest Corp.	pl	Joseph Pollard	
58	Golden Pass Pipeline, LLC	pl	Vickie Long	
59	Great Lakes Gas Transmission	pl	Joseph Pollard	



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60	Iberdrola USA Management Corporation	l	Mark Marini	
61	Imperial Irrigation District	e	Susie Carrillo	
62	Integrus Energy Group, Inc.	l	David E. Wear	
63	Iroquois Gas Transmission System	pl	Tom Gwilliam	
64	JP Morgan Ventures Energy Corp	s	Paul Tramonte	
65	Kern River Gas Transmission Co	pl	Brenda Martin	
66	Latitude Technologies	s	Leigh Spangler	
67	Macquarie Energy LLC	s	Darlene Volker, Michele McLendon	
68	Marathon Oil Company	pr	Robin Perrine	
69	Mewbourne Oil Company	pr	Michael F. Shepard	
70	National Fuel Gas Supply Corp.	pl	Deborah Kupczyk	
71	Natural Gas Pipeline Co of America	pl	Paul Love, Gene Nowak	
72	National Grid	l	James A. Stanzione	
73	New Mexico Gas Company Inc.	l	Ericka DeCoursey	
74	Nexen Marketing	s	Deb Strang, Sharron Roberts	
75	NextEra Energy Power Marketing, LLC	e	Marty Jo Rogers	
76	NiSource, Inc.	l	Deepak Raval, Michael D. Watson	
77	Noble Americas Corp	pl	Joseph Limone, Marisa Scuzillo, Vanessa R. Mathieu	
78	Noble Energy, Inc.	pr	Richard Smith, Tammy M. Stevens	
79	Northern Border Pipeline Company	pl	Joseph Pollard	
80	Northern Natural Gas	pl	Nancy A. Hetrick	
81	Northwest Natural Gas Company	l	Randolph Friedman	
82	NOVA Gas Transmission Ltd.	pl	Sherry Hill, Bob Jones	
83	ONEOK	l	Larry Dykes	
84	ONEOK Partners GP, LLC	pl	Teri Tingle, Lisa Nishimuta	
85	PAA Natural Gas Storage, LLC	s	Eileen W. Kisluk	
86	Panhandle Eastern Pipe Line	pl	Michael Langston, Larry Biediger	
87	Peoples Gas System (A division of Tampa Electric Co)	l	Wraye Grimard	
88	Portland Natural Gas Transmission System	pl	Sherry Hill, Bob Jones	
89	PPL EnergyPlus, LLC	e	Anne Lovett	
90	QEP Resources, Inc.	pr	Steve Stanton	
91	Questar Pipeline Co.	pl	Jerry H. Gross	
92	Quorum Business Solutions Inc.	s	Cleve Hogarth, Seth Peters	
93	Salt River Project Agricultural Improvement & Power	e	Lori-Lynn C. Pennock	



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	District			
94	Sempra Energy - Southern California Gas Co.	l	Lee Stewart, Rodger Schwecke	
95	Sempra U.S. Gas & Power	pl	Bill Rapp, Elizabeth Peters	
96	Sequent Energy Management, L.P.	s	Pat Metteauer	
97	Shell Energy North America (US), L.P.	s	Eric Gillaspie	
98	SNL Financial	s	Katrina Sumey	
99	Southern California Edison Company	e	Roman Bakke, Rob Grimm	
100	Southern Company Services, Inc.	e	Alan Kilpatrick, Travis DeJuan Law	
101	Southern Star Central Gas Pipeline	pl	Philip Rullman, Doug Field	
102	Southwest Gas Corporation	l	Larry Black, Mark Anderson, Mark Litwin, John Olenick	
103	Spectra Energy Transmission	pl	Richard Kruse, Kathryn Burch	
104	SunGard	s	Sylvia Munson	
105	Tennessee Gas Pipeline Company	pl	Mark Gracey	
106	Tennessee Valley Authority	e	Valerie Crockett	
107	Tiger Natural Gas	s	R.F. (Bob) Smith	
108	TransCanada Pipelines	pl	Sherry Hill, Bob Jones	
109	Transwestern Pipeline Company, LLC	pl	Blair V. Lichtenwalter, Mary Draemer	
110	Vector Pipeline L.P.	pl	Amy Bruhn	
111	Vectren Corporation	l	Elizabeth Beck	
112	WBI Energy Transmission, Inc.	pl	Keith Tiggelaar, Gwen Schoepp, Kelly Brooks, Lori Myerchin	
113	Williams Energy Resources, LLC	s	Tina Still, Cindy Bottomley, Kelly Knopp	
114	Williams Gas Pipeline	pl	Dale Davis, Christopher Burden	
115	WPX Energy Marketing, LLC	s	Rich Ficken	
<b>Wholesale Electric Quadrant Members:</b>				
1	8760, Inc.	ts	Jim Buccigross	
2	Alabama Municipal Electric Authority	d	Ray Phillips	muni
3	Alberta Electric System Operator	i	Diana Pommen	
4	Alliance for Cooperative Energy Services Power Marketing LLC (ACES)	m	Roy J. True, Amadou Fall	muni
5	American Electric Power Service Corp.	g	Joanne Goza, Joseph Hartsoe, Phil Cox	iou
6	American Municipal Power, Inc.	m	Chris Norton, Alice Walker	muni
7	American Public Power Association	d	Allen Mosher	muni
8	Arizona Public Service Company	t	Robert Bean	iou
9	Arkansas Electric Cooperative Corporation	g	Ricky Bittle	muni



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10	Associated Electric Cooperative, Inc.	t	Jeff Johns	muni
11	Avista Corporation	t	Jeff Schlect, Kenneth Dillon	iou
12	Basin Electric Power Cooperative	t	Dan Klempel	muni
13	Basin Electric Power Cooperative	m	David Raatz	muni
14	Basin Electric Power Cooperative	g	Jason Doerr	muni
15	BC Hydro	t	Al Woodruff, Brenda Ambrosi	fed
16	Black Hills Corporation	g	Kenna Hagan	iou
17	Bonneville Power Administration	d	Richard Gillman	other
18	Bonneville Power Administration	g	Francis Halpin, Erika Doot	fed
19	Bonneville Power Administration	m	Brenda Anderson, Ann Shintani	fed
20	Bonneville Power Administration	t	Russ Mantifel, Chris Jones	fed
21	California Department of Water Resources	g	Glenn Solberg, Chi Doan	fed
22	California ISO	i	Brian Jacobsen	
23	Central Electric Power Cooperative	d	Arthur Fusco	muni
24	Clark Public Utilities	d	Brenna Moore	muni
25	Cleco Power, LLC	t	Cindy Guillot	iou
26	Consolidated Edison Company of New York, Inc.	t	Scott Butler	iou
27	Deseret Power Electric Co-op	g	Curt Winterfeld	muni
28	Dominion Energy Marketing, Inc.	g	Lou Oberski	iou
29	Duke Energy Corp.	d	Alan Pritchard	iou
30	Duke Energy Corp.	m	John Sturgeon	iou
31	Duke Energy Corp.	t	Jack Armstrong, Michael Anthony, Lee Schuster	iou
32	Dynegy Marketing and Trade, LLC	g	Contracts – Legal Department	merc
33	Edison Electric Institute	n	David Owens, Dave Dworzak, James P. Fama	n
34	Electric Reliability Council of Texas (ERCOT)	i	John Dumas, Paul Wattles, Joel Mickey	
35	Empire District Electric Company, The	t	Bary K. Warren	iou
36	Entergy Services, Inc.	t	Yarrow Etheredge, Narinder Saini	iou
37	Exelon Generation - Power Team	m	Jack Crowley	iou
38	Florida Municipal Power Agency	g	Frank Gaffney, Dan O'Hagan, Susan Schumann	muni
39	Florida Municipal Power Agency	d	Frank Gaffney, Dan O'Hagan, Susan Schumann	muni
40	Florida Power & Light Company	m	Jim Drake, Tom Hartman	iou
41	Florida Power & Light Company	t	Bob Birch	iou
42	Georgia Transmission Corporation	t	Patrick McGovern	muni
43	GMO GlobalSign, Inc.	e	Lila Kee	at large
44	Hydro – Quebec Transenergie	t	Michel Prevost	fed



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	Organization	Seg <sup>1</sup>	Contact	Sub-Seg <sup>2</sup>
45	Iberdrola USA Management Corporation	t	Mark Marini	iou
46	Idaho Power Company	t	Kathy Anderson	iou
47	Independent Electricity System Operator (IESO)	i	Scott Berry, Mike Yealland	
48	Indiana Municipal Power Agency	g	Scott Berry	muni
49	ISO New England, Inc.	i	Matthew F. Goldberg, Douglas Smith, Eric Winkler	
50	LG&E and KU Services Company	t	Derek A. Rahn, Larry Monday	iou
51	Los Angeles Department of Water and Power	t	Mohammed Johar Beshir	muni
52	Los Angeles Department of Water and Power	m	Bradford L. Packer, Joel F. Cordero	muni
53	Maine Public Utilities Commission	e	Denis Bergeron	reg
54	Manitoba Hydro	t	Robin Smyrski	fed
55	Manitoba Hydro	m	Audrey Penner	fed
56	Michigan Public Power Agency	d	Peter J. Schimpke	muni
57	MidAmerican Energy Company	m	Dennis Kimm	iou
58	Midwest Independent Transmission System Operator	i	William (Bill) Phillips, Ed Skiba	
59	Midwest Reliability Organization	t	Dan Schoenecker	at large
60	Missouri River Energy Services	d	Thomas J. Heller	muni
61	Nalcor Energy	m	Brad Coady	fed
62	National Association of Regulatory Utility Commissioners	e	Lou Ann Westerfield	reg
63	National Grid	t	Edward M. Kremzier	iou
64	National Institute of Standards and Technology	ts	David A. Wollman	
65	National Rural Electric Cooperative Assoc.	d	Paul McCurley	muni
66	Nebraska Public Power District	t	Don Schmit	muni
67	New Jersey Board of Public Utilities	g	Kristi Izzo	fed
68	New York Independent System Operator (NYISO)	i	Wesley Yeomans, Donna Pratt	
69	New York State Reliability Council	d	P. Donald Raymond	at large
70	North American Electric Reliability Corporation	d	David Taylor	at large
71	North Carolina Electric Membership Corporation	d	David Beam, Diane Huis, Richard McCall, James R. Manning	muni
72	Northeast Utilities Service Company	t	David Boguslawski, Calvin A. Bowie	iou
73	Northwestern Corporation	t	Mike Cashell	iou
74	NRG Energy, Inc.	g	Alan Johnson, Jennifer J. Vosburg, Elizabeth Killinger	merc
75	NV Energy	m	Sheryl Torrey	iou
76	NV Energy, Inc.	t	Patricia Englin	iou
77	Open Access Technology International, Inc.	e	Michehl Gent	at large



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78	Open Access Technology International, Inc.	t	Paul R. Sorenson	at large
79	Organization for the Advancement of Structured Information Standards (OASIS)	ts	Laurent M. Liscia	
80	PacifiCorp	m	John Apperson	iou
81	PacifiCorp	t	Sarah E. Edmonds	iou
82	PJM Interconnection	i	Frank Koza, Cathy Wesley	
83	Portland General Electric	t	Frank Afranji, John Walker, Johnny Useldinger	iou
84	Power Costs, Inc. (PCI)	ts	TJ Ferreira	
85	Powerex Corp	m	Michael L McWilliams, Sharole Tylor	fed
86	PowerSouth Energy Cooperative	d	William Ronald Graham	muni
87	Public Service Company of New Mexico	m	Steven Maestas, Darren Wilkins, Roger Vaughn	iou
88	Public Utilities Commission of Ohio	e	Amanda Stallings	reg
89	Public Utility District No. 2 of Grant County, Washington	m	Casey Sprouse	muni
90	Puget Sound Energy, Inc.	t	George Marshall, Bob Harshbarger	iou
91	Sacramento Municipal Utility District	d	Steve Sorey	muni
92	Salt River Project Agricultural Improvement and Power District	t	Michael J. Pfeister	fed
93	Salt River Project Agricultural improvement and Power District	m	Richard Lehman	fed
94	San Diego Gas & Electric Company	t	Patricia vanMidde	iou
95	Santee Cooper	t	Tom Abrams	fed
96	Seattle City Light	d	Evelyn Hagar	muni
97	Seminole Electric Cooperative, Inc.	m	Steve Wallace	muni
98	Shell Energy America (US), L.P.	m	Robert Reilley, Paul Kerr	niou
99	Shift Systems	e	Jesse D. Hurley	at large
100	Snohomish County PUD No. 1	d	Kim Haugen	muni
101	South Carolina Electric & Gas Company	t	S. Porcher Stoney, James T. Starling, Jr. , Sonya Green-Sumpter, Matt Bullard, Kevin Spitzform	iou
102	Southern Company Services, Inc.	g	John Ciza	iou
103	Southern Company Services, Inc.	m	Joel Dison	iou
104	Southern Company Services, Inc.	t	Terry Coggins, JT Wood, James Y. Busbin, Corey Sellers, Antonio Grayson	iou
105	Southwest Power Pool	i	Carl Monroe, Michael Desselle, Charles Yeung	
106	Southwest Transmission Cooperative, Inc.	t	Shane Sanders, James Burson	muni
107	Stryve Advisors, LLC	ts	Bill Hunter	
108	SunGard	ts	Andrew Tritch	





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109	Tacoma Power	d	Rick Applegate	mui
110	Tenaska, Inc.	g	Scott Helyer, William Simpson	merc
111	Tennessee Valley Authority	g	Kathy York	fed
112	Tennessee Valley Authority	m	Luis A. (Tony) Suarez, Valerie Crockett	fed
113	Tennessee Valley Authority	t	Chuck Feagans	fed
114	Tri-State Generation and Transmission Association, Inc.	t	Doug Reese	muni
115	Tri-State G&T Association, Inc.	g	Janelle Marriott	muni
116	Tucson Electric Power Company	t	Raquel Aguilar, Ed Beck, Amy Welander	iou
117	United Illuminating Company, The	t	Jim Clemente, Laurie Lombardi	iou
118	Vermont Public Power Supply Authority	g	William J. Gallagher	muni
119	Vermont Public Service Board	e	Mary Jo Krolewski	reg
120	We Energies (Wisconsin Electric)	d	Linda Horn	iou
121	We Energies (Wisconsin Electric)	g	James R. Keller	iou
122	Westar Energy, Inc.	g	Grant Wilkerson	iou
123	Western Area Power Administration	t	JB Hite	fed
124	Western Area Power Administration	m	Jeffrey Ackerman	fed
125	Western Electricity Coordinating Council	t	Michelle Mizumori, Craig L. Williams	at large
126	White & Case LLP	ts	Richard Cousins	
127	Wisconsin Public Service Corporation	g	Christopher Plante, Charles W. Severance, Neal Balu	iou
128	WPPI Energy	d	Todd Komplin	muni
129	Xcel Energy Inc.	m	David Lemmons	iou

### Retail Gas Quadrant Members:

1	Allegro Development	s	Kimberly Page	
2	American Public Gas Association (APGA)	d	Alonzo Weaver, Joe Stengel	
3	Capacity Center	s	Greg Lander	
4	Dominion Retail, Inc.	s	Richard A. Zollars	
5	Duke Energy Corp	d	Dan Jones	
6	Integrus Energy Group, Inc.	d	Tom Aridas, Ken Thiry	
7	Latitude Technologies	s	Leigh Spangler	
8	National Fuel Gas Distribution Corporation	d	Mike Novak	
9	Pennsylvania Office of Consumer Advocate	e	Tanya J. McCloskey	
10	SouthStar Energy Corp	s	Michael Braswell, Joseph C. Monroe	
11	Sprague Operating Resources LLC	s	Paul Scoff	



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	<b>Organization</b>	<b>Seg<sup>1</sup></b>	<b>Contact</b>	<b>Sub-Seg<sup>2</sup></b>
12	Systrends USA	s	Dave Darnell	
13	UGI Utilities, Inc.	d	Paul Szykman	
14	World Alliance for Decentralized Energy	s	David Sweet	



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## Appendix D – Proposed Structure – Membership, Board of Directors and Executive Committee

Proposal:

There are four segments and all members are accounted for, with one segment specific to retail gas market interests and three segments specific to retail electric market interests.

<b>Proposal 3 -- Merged Quadrant</b>	<b>TOTAL</b>	<b>43</b>
Utilities		7
Retail Electric Service Providers/Suppliers		9
Retail Electric End Users/Public Agencies		13
Retail Gas Market Interests		14

Members of the New Segments for Proposal 3:

<b>Proposal 3 -- Merged Quadrant</b>	<b>TOTAL</b>	<b>43</b>
<b>Utilities</b>		<b>7</b>
REQ Utility	Alabama Power	
REQ Utility	Ameren Services Company	
REQ Utility	Baltimore Gas & Electric Co.	
REQ Utility	CenterPoint Energy Houston Electric, LLC	
REQ Utility	Dominion Virginia Power	
REQ Utility	Oncor	
REQ Utility	Wisconsin Public Service Corporation	
<b>Retail Gas Market Interests</b>		<b>14</b>
RGQ Services/Suppliers	Allegro Development	
RGQ Distribution	American Public Gas Association (APGA)	
RGQ Services/Suppliers	Capacity Center	
RGQ Services/Suppliers	Dominion Retail, Inc.	
RGQ Distribution	Duke Energy Corp	
RGQ Distribution	IntegrYS Energy Group, Inc.	
RGQ Services/Suppliers	Latitude Technologies	
RGQ Distribution	National Fuel Gas Distribution Corporation	
RGQ End User/Public Agencies	Pennsylvania Office of Consumer Advocate	
RGQ Services/Suppliers	SouthStar Energy Corp	
RGQ Services/Suppliers	Sprague Operating Resources LLC	
RGQ Services/Suppliers	Systrends USA	
RGQ Distribution	UGI Utilities, Inc.	
RGQ Services/Suppliers	World Alliance for Decentralized Energy	
<b>Retail Electric Service Providers/Suppliers</b>		<b>9</b>
REQ Services/Suppliers	ABB Ventyx	
REQ Services/Suppliers	Big Data Energy Services	



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## Appendix D – Proposed Structure – Membership, Board of Directors and Executive Committee

REQ	Services/Suppliers	Comverge, Inc.
REQ	Services/Suppliers	Dominion Retail
REQ	Services/Suppliers	Intelometry, Inc.
REQ	Services/Suppliers	ista
REQ	Services/Suppliers	PPL Solutions, LLC
REQ	Services/Suppliers	Southern Company Services
REQ	Services/Suppliers	SunGard Consulting Services, LLC

### **Retail Electric End Users/Public Agencies**

13

REQ	End Users/Public Agencies	City of Houston
REQ	End Users/Public Agencies	Electric Reliability Council of Texas (ERCOT)
REQ	End Users/Public Agencies	Energy Information Standards Alliance
REQ	End Users/Public Agencies	ISO New England
REQ	End Users/Public Agencies	Maryland Public Service Commission
REQ	End Users/Public Agencies	National Association of Regulatory Utility Commissioners
REQ	End Users/Public Agencies	New Jersey Board of Public Utilities
REQ	End Users/Public Agencies	Pennsylvania Office Of Consumer Advocate
REQ	End Users/Public Agencies	Pennsylvania Public Utility Commission
REQ	End Users/Public Agencies	Public Utilities Commission of Ohio
REQ	End Users/Public Agencies	Public Utility Commission of Texas
REQ	End Users/Public Agencies	Vermont Public Service Board
REQ	End Users/Public Agencies	ZigBee Alliance



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## Appendix D – Proposed Structure – Membership, Board of Directors and Executive Committee

### Proposal 3 -- Merged Quadrant Board Seats

Total of 24 seats, 19 filled

<b>Utilities – 2 vacancies</b>			6
REQ	Brandon Stites	Director – Energy Conservation & Advanced Metering, Dominion Virginia Power	
REQ	Dennis Derricks	Director Regulatory Policy and Analysis, Wisconsin Public Service Corporation	
REQ	Ruth Kiselewich	Director - Demand Side Management Programs, Baltimore Gas & Electric Company	
REQ	Debbie McKeever	Market Advocate, Oncor	
<b>Retail Gas Market Interests - 2 vacancies</b>			3
RGQ	Leigh Spangler	President, Latitude Technologies Inc.	
RGQ	Joseph C. Monroe	Vice President – External Affairs, SouthStar Energy Services, LLC	
RGQ	Dave Darnell	President & CEO, Systrends USA	
RGQ	Alonzo Weaver	Vice President of Engineering and Operations, Memphis Light, Gas & Water Division (APGA)	
<b>Retail Electric Service Providers/Suppliers – 3 vacancies</b>			3
REQ	Wendell Miyaji	Vice President - Energy Sciences, Comverge, Inc.	
REQ	Jim Minneman	Controller, PPL Solutions, LLC	
REQ	J. Cade Burks	President, Big Data Energy Services	
<b>Retail Electric End Users/Public Agencies – 2 vacancies</b>			4
REQ	Tobin Richardson	Director – Smart Energy, ZigBee Alliance	
REQ	Chris Kotting	Executive Director, Energy Information Standards Alliance	
REQ	James P. Cargas	Senior Assistant City Attorney, City of Houston	
REQ	Susan Munson	Retail Market Liaison, Electric Reliability Council of Texas, Inc. (ERCOT)	



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## Appendix D – Proposed Structure – Membership, Board of Directors and Executive Committee

### Proposal 3 -- Merged Quadrant Executive Committee Seats

Total of 24 seats, 13 filled

<b>Utilities – 2 vacancies</b>			4
REQ	Phil Precht	Management Consultant - Pricing and Regulatory Services Department, Baltimore Gas & Electric Company	
REQ	Patrick Eynon	Supervisor – Retail Access, Ameren Services	
REQ	Judy Ray	Industrial Segment Manager – Contract Administrator, Alabama Power Company	
REQ	Debbie McKeever	Market Advocate, Oncor	
<b>Retail Gas Market Interests - 4 vacancies</b>			2
RGQ	Dan Jones	Senior Account Manager – Customer Choice, Duke Energy	
RGQ	Richard Zollars	Director - Data and Billing, Dominion Retail, Inc.	
<b>Retail Electric Service Providers/Suppliers – 3 vacancies</b>			3
REQ	Bill Barkas	Manager of Retail State Government Relations, Dominion Retail, Inc.	
REQ	Jim Minneman	Controller, PPL Solutions, LLC	
REQ	Wendell Miyaji	Vice President – Energy Sciences, Comverge, Inc.	
<b>Retail Electric End Users/Public Agencies – 2 vacancies</b>			4
REQ	James Bradford Ramsay	General Counsel – Supervisor/Director – NARUC Policy Department, National Association of Regulatory Utility Commissioners (NARUC)	
REQ	Dennis Robinson	Director – Market & Resource Administration, ISO New England	
REQ	Christine Wright	Senior Policy Analyst, Public Utility Commission of Texas	
REQ	Susan Munson	Retail Market Liaison, Electric Reliability Council of Texas (ERCOT)	



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## Appendix E – NAESB Governance Documents Excerpts

### Certificate Excerpt Regarding Segment Structure:

Article 3: Organization and Management

Section 2: The Board of Directors and Executive Committee members shall be elected for such terms as provided in the By-Laws. **The number of members of the Board of Directors and Executive Committee shall as provided in the By-Laws.** There may be as many as four Quadrants and each Quadrant shall be composed of industry Segments. The members of each Segment shall vote separately for the election of Directors and Executive Committee members for such Segment pursuant to procedures set forth in the By-Laws.

### Bylaws Excerpts Regarding Segment Structure:

Article 1: Definitions

Section 1.1 Definitions

Q. "Segment" means one of the **co-equal member groupings** of a given Quadrant, as defined by that Quadrant and approved by the Board as an Exhibit to these Bylaws.

Article 2: Purposes, Scope, Activities and Policies

Section 2.3 Quadrants and Segments

In order to have representation on the Board or the EC, a Quadrant shall have at least forty Voting Members and at least four Segments. **Each Segment shall have at least five Voting Members.** This minimum representation requirement shall be reconsidered by the Board biannually. Without limitation, and in addition to the other options it may choose, the Board may combine Quadrants, either for operational purposes or administrative purposes (including voting at the Board or the EC), or both, and may add new Quadrants.

### NAESB Operating Practices

III. Description of the Organization

**Each quadrant determines the number and composition of its segments and how many representatives it will have on the Board of Directors and Executive Committee.**



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Appendix F – Retail 2013 Annual Plan

**NORTH AMERICAN ENERGY STANDARDS BOARD**  
**Proposed 2013 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS**  
**As Adopted by the Retail EC on October 24, 2012**

Item Number & Description <sup>i</sup>	Completion <sup>ii</sup>	Assignment <sup>iiiiv</sup>
1. Develop Technical Electronic Implementation Standards and Data Dictionaries		
a. Book 10: Retail Customer Enrollment, Drop and Account Information Change Status: Underway	1 <sup>st</sup> Q, 2013	IR/TEIS
b. Review and update the technical implementation of Book 3 – Billing and Payment. Status: Underway	1 <sup>st</sup> Q, 2013	IR/TEIS
2. Additional Registration Agent Processes		
a. 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: Not Started	2014, date dependent on completion of items 5(f)	IR/TEIS
b. Modify as needed the NAESB EDM Version 1.6 as the data transport mechanism for ERCOT TX SET EDI transactions. Status: Underway	2013	Retail Electric part of the BPS/Retail Electric Texas Task Force
3. Develop Smart Grid Wholesale and Retail Electric Standards		
a. Harmonize Smart Grid glossary with Retail Glossary Status: Ongoing	Ongoing	REQ/RGQ Glossary Subcommittee
4. Customer Information - Develop Model Business Practices and Process Flows to enable a Retail Customer, or a third party acting on behalf of the Retail Customer, to obtain the Retail Customer's energy usage information on an on-going basis outside of a Smart Grid environment Status: Not Started, this development is tied to the development for item 5(a)	2013, date may be dependent on item 5(a).	BPS
5. Update Existing Model Business Practices – Review and update all existing Model Business Practices, filling in any gaps that may exist and making the language consistent throughout all Books. <sup>v</sup>		
a. Book 3 – Billing and Payments Status: Underway	1 <sup>st</sup> Q, 2013	BPS
b. Book 8 – Customer Information Status: Not Started	2 <sup>nd</sup> Q, 2013	BPS
c. Book 9 – Customer Billing and Payment Notification via Uniform Electronic Transactions Status: Not Started	4 <sup>th</sup> Q, 2013	BPS





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<b>Item Number &amp; Description<sup>i</sup></b>	<b>Completion<sup>ii</sup></b>	<b>Assignment<sup>iiiiv</sup></b>
d. Book 10 – Customer Enrollment, Drop, and Account Information Change Status: Not Started	2014	BPS
e. Book 11 - Customer Enrollment, Drop, and Account Information Change Using a Registration Agent Status: Not Started	2014	BPS
f. Book 13 – Measurement and Verification (M&V) of Demand Response Programs <sup>vi</sup> Status: Not Started	2014	BPS
g. Book 14 – Service Request, Disconnection and Reconnection in the Registration Agent Model Status: Not Started	2014	BPS
h. Book 15 – Specifications for Common Electricity Product and Pricing Definition <sup>8</sup> Status: Not Started	2014	BPS
i. Book 16 – Specifications for Common Schedule Communication Mechanism for Energy Transactions <sup>8</sup> Status: Not Started	2014	BPS
j. Book 17 – Specifications for Retail Standard Demand Response Signals <sup>8</sup> Status: Not Started	2014	BPS
k. Book 18 – Retail Customer Energy Usage Information Communication <sup>8</sup> Status: Not Started	2014	BPS
l. Book 21 – Energy Services Provider Interface <sup>8</sup> Status: Not Started	2014	BPS
m. Book 22 – Third Party Access to Retail Customer Information <sup>8</sup> Status: Not Started	2015	BPS
n. Book 23 – Supplier Marketing Practices Status: Not Started	2015	BPS
o. Book 24 – Enrollment, Drop, Account Information Change in Demand Response Programs <sup>8</sup> Status: Not Started	2015	BPS



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Item Number & Description <sup>i</sup>	Completion <sup>ii</sup>	Assignment <sup>iiiiv</sup>
6. Create common interfaces and data structures necessary for enrolling DR sites into a DR program		
a. Develop a new standardized form to obtain the Retail Customer's Authorization for the release of their information to a third party Status: Underway	1 <sup>st</sup> Q, 2013	REQ BPS, REQ DSM-EE Subcommittee, REQ Smart Grid PAP 10 Subcommittee Data Privacy Task Force
7. Session Encryption		
a. Investigate and determine if changes to standards are needed to support adequate session encryption (SSL/TLS issues <a href="#">US-Cert Vulnerability Note VU#864643</a> ) Status: Underway	1 <sup>st</sup> Q, 2013	IR/TEIS
b. Modify or develop standards as needed to apply the analysis of the above item (7(a)) Status: Not Started	1 <sup>st</sup> Q, 2013	IR/TEIS
8. Data Privacy		
a. Review and consider changes to the existing Privacy and Cyber Security Requirements NAESB REQ.22 as requested by Smart Grid Interoperability Panel Cyber Security Working Group ( <a href="#">R12008</a> ) Status: Underway	2013	REQ Data Privacy Task Force

**Program of Standards Maintenance & Fully Staffed Standards Work<sup>vii</sup>**

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
Ongoing Development and Maintenance of Model Business Practices	Ongoing	BPS

**Provisional Activities**

**Joint Effort:**

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



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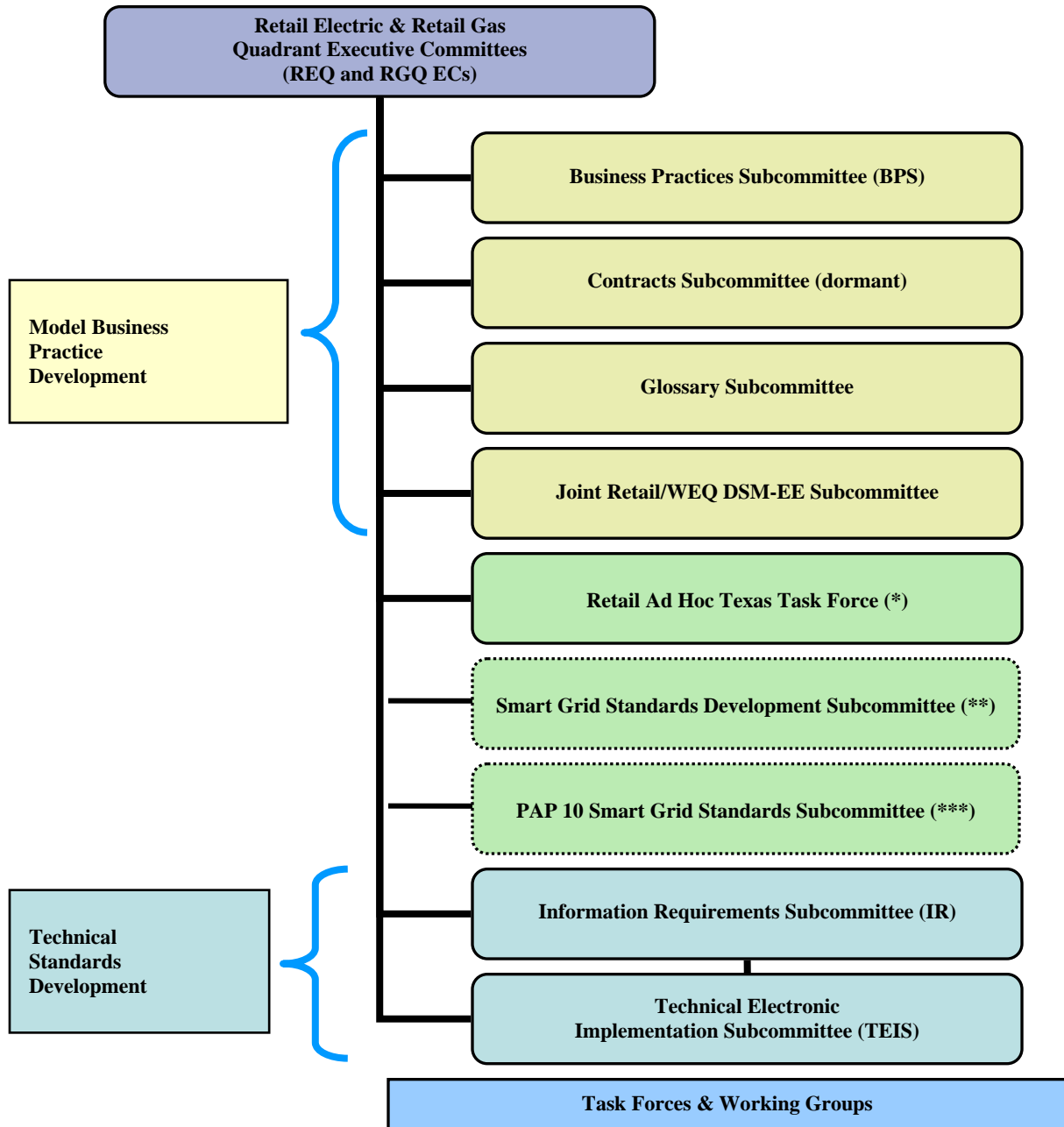
<b>Item Number &amp; Description<sup>i</sup></b>	<b>Completion<sup>ii</sup></b>	<b>Assignment<sup>iiiiv</sup></b>
3. Consider development of business practices to support use of mobile devices.		
4. Review RXQ.6 pending results of 2013 WGQ Annual Plan Item 7a - Review Final Rules published by the Commodity Futures Trading Commission (CFTC) to determine if new rules on various definitions will impact any of the NAESB contracts, specifically their General Terms and Conditions.		
5. Consider development of business practices to support the use of software applications for customer authorizations.		
<b>Retail Electric Quadrant Effort Only:</b>		
6. 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.		
7. Review and develop model business practices to support renewable portfolio programs		



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## Appendix F – Retail 2013 Annual Plan

### NAESB Retail Subcommittee Leadership: <sup>viii</sup>

Executive Committee: Dan Jones, Chair (RGQ), Phil Precht, Chair (REQ)  
Business Practices Subcommittee: Phil Precht (REQ), Dan Jones (RGQ)  
Information Requirements Subcommittee/Technical Electronic Implementation Subcommittee: Judy Ray (REQ)  
Glossary Subcommittee: Patrick Eynon (REQ)  
DSM-EE Subcommittee: Ruth Kiselewich (Retail), 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 and submit them to the BPS. 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 and WEQ ECs. The group is chaired by 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 and WEQ ECs. The group is chaired by Phil Precht, Cathy Wesley, 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.

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### Retail 2013 Annual Plan End Notes:

<sup>i</sup> 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.

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

<sup>iii</sup> The assignments are abbreviated. The abbreviations and committee structure can be found at the end of the Annual Plan document.

<sup>iv</sup> The DSM-EE subcommittee has split into several separate groups to support concurrent development of separate standards sets.

<sup>v</sup> Note: BPS will not review Book 5 (Quadrant Specific Electronic Delivery Mechanism), Book7 (Internet Electronic Transport), or Book 20 (Smart Grid Standards Data Element Table)

<sup>vi</sup> Note: This will be for language and format only, BPS will not edit for content.

<sup>vii</sup> 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.

<sup>viii</sup> 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.