**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

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.***

North American Energy Standards Board

Retail Structure Review Committee (RSRC) Report

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

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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.

**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*

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 |  |  |
|  | 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 |

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.

**OPTIONS DISCUSSED FOR RETAIL QUADRANT STRUCTURE:**

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

|  |  |  |
| --- | --- | --- |
| **Retail Electric Quadrant** | **TOTAL** | **29** |
|  | End Users/Public Agencies | 13 |
|  | Utilities | 7 |
|  | Service Providers/Suppliers | 9 |
| **Retail Gas Quadrant** | **TOTAL** | **14** |
|  | 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).

|  |  |  |
| --- | --- | --- |
| **Proposal 1 -- Merged Quadrant** | **TOTAL** | **43** |
| 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. Also, the commodity-neutral development work and maintenance of commodity-neutral standards would not be disrupted.

The committee did not support this approach.

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, service providers/suppliers).

|  |  |  |
| --- | --- | --- |
| **Proposal 2 -- Merged Quadrant** | **TOTAL** | **42** |
| 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.

1. 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.

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

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.
* 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.

Appendices

*Appendices:*

*A. RSRC Committee Members 12*

*B. RSRC Meeting Notes 13*

*C. Current NAESB Membership Profile 14*

*D. Proposed Structure – Membership, Board of Directors and Executive Committee 26*

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*F. Retail 2013 Annual Plan 31*

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*

Appendix B – RSRC Meeting Notes

|  |  |
| --- | --- |
| **NAESB Board Retail Structure Review Committee Meeting Notes** | |
| **Meeting Date** | **Meeting Notes** |
| January 10, 2013 | Meeting Notes: <http://www.naesb.org/pdf4/rsrc011013mn.doc> |
| January 24, 2013 | Meeting Notes: <http://www.naesb.org/pdf4/rsrc012413mn.doc> |
| February 22, 2013 | Meeting Notes: <http://www.naesb.org/pdf4/rsrc022213mn.docx> |

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

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

|  |  |  |
| --- | --- | --- |
| **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 |

|  |  | **Organization** | **Seg[[1]](#footnote-1)** | **Contact** | **Sub-Seg[[2]](#footnote-2)** |
| --- | --- | --- | --- | --- | --- |
| 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 |  | Comverge, 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 |  |
| 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 |  |
| 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 |  |
| 60 |  | Iberdrola USA Management Corporation | l | Mark Marini |  |
| 61 |  | Imperial Irrigation District | e | Susie Carrillo |  |
| 62 |  | Integrys 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 DeCourcey |  |
| 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 Scauzillo, 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 Tingler, 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 District | e | Lori-Lynn C. Pennock |  |
| 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 |  |
| Wholesale Electric Quadrant Members: | | | | | |
| 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 |
| 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 |
| 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 |
| 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 |  |
| 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 |  | Integrys 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 |  |
| 12 |  | Systrends USA | s | Dave Darnell |  |
| 13 |  | UGI Utilities, Inc. | d | Paul Szykman |  |
| 14 |  | World Alliance for Decentralized Energy | s | David Sweet |  |

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.

|  |  |  |
| --- | --- | --- |
| **Proposal 3 -- Merged Quadrant** | **TOTAL** | **43** |
|  | 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:

|  |  |  |  |
| --- | --- | --- | --- |
| **Proposal 3 -- Merged Quadrant** | | **TOTAL** | **43** |
| **Utilities** | |  | 7 |
| 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 |  |
| **Retail Gas Market Interests** | | | 14 |
| 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 |  |
| **Retail Electric Service Providers/Suppliers** | | | 9 |
| REQ | Services/Suppliers | ABB Ventyx |  |
| REQ | Services/Suppliers | Big Data Energy Services |  |
| 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 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Proposal 3 -- Merged Quadrant Board Seats**  **Total of 24 seats, 19 filled** | | | |
| **Utilities – 2 vacancies** | |  | 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 |  |
| **Retail Gas Market Interests - 2 vacancies** | | | 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) |  |
| **Retail Electric Service Providers/Suppliers – 3 vacancies** | | | 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 |  |
| **Retail Electric End Users/Public Agencies – 2 vacancies** | | | 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) |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Proposal 3 -- Merged Quadrant Executive Committee Seats**  **Total of 24 seats, 13 filled** | | | |
| **Utilities – 2 vacancies** | |  | 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 |  |
| **Retail Gas Market Interests - 4 vacancies** | | | 2 |
| RGQ | Dan Jones | Senior Account Manager – Customer Choice, Duke Energy |  |
| RGQ | Richard Zollars | Director - Data and Billing, Dominion Retail, Inc. |  |
| **Retail Electric Service Providers/Suppliers – 3 vacancies** | | | 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. |  |
| **Retail Electric End Users/Public Agencies – 2 vacancies** | | | 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) |  |

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.

| **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[[3]](#endnote-1)** | | | **Completion[[4]](#endnote-2)** | **Assignment[[5]](#endnote-3)[[6]](#endnote-4)** |
| 1. | | Develop Technical Electronic Implementation Standards and Data Dictionaries | | |  |  |
|  | | a. | Book 10: Retail Customer Enrollment, Drop and Account Information Change  Status: Underway | | 1st Q, 2013 | IR/TEIS |
|  | | b. | Review and update the technical implementation of Book 3 – Billing and Payment.  Status: Underway | | 1st 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.[[7]](#endnote-5) | | | |  |  |
|  | a. | | Book 3 – Billing and Payments  Status: Underway | | 1st Q, 2013 | BPS |
|  | b. | | Book 8 – Customer Information  Status: Not Started | | 2nd Q, 2013 | BPS |
|  | c. | | Book 9 – Customer Billing and Payment Notification via Uniform Electronic Transactions  Status: Not Started | | 4th Q, 2013 | BPS |
|  | 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[[8]](#endnote-6)  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 Definition8  Status: Not Started | | 2014 | BPS |
|  | i. | | Book 16 – Specifications for Common Schedule Communication Mechanism for Energy Transactions8  Status: Not Started | | 2014 | BPS |
|  | j. | | Book 17 – Specifications for Retail Standard Demand Response Signals8  Status: Not Started | | 2014 | BPS |
|  | k. | | Book 18 – Retail Customer Energy Usage Information Communication8  Status: Not Started | | 2014 | BPS |
|  | l. | | Book 21 – Energy Services Provider Interface8  Status: Not Started | | 2014 | BPS |
|  | m. | | Book 22 – Third Party Access to Retail Customer Information8  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 Programs8  Status: Not Started | | 2015 | BPS |
| 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 | | 1st 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 [**US-Cert Vulnerability Note VU#864643**](http://www.kb.cert.org/vuls/id/864643)**)**  Status: Underway | | 1st Q, 2013 | IR/TEIS |
|  | b. | | Modify or develop standards as needed to apply the analysis of the above item (7(a))  Status: Not Started | | 1st 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 ([R12008](http://www.naesb.org/pdf4/r12008.doc))  Status: Underway | | 2013 | REQ Data Privacy Task Force |
| **Program of Standards Maintenance & Fully Staffed Standards Work[[9]](#endnote-7)** | | | | | | |
|  | | 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. | | |
|  | | 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. | | |
| **Retail Electric Quadrant Effort Only:** | | | | | | |
|  | | 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 | | |

**Retail Electric & Retail Gas**

**Quadrant Executive Committees**

**(REQ and RGQ ECs)**

**Business Practices Subcommittee (BPS)**

**Contracts Subcommittee (dormant)**

**Glossary Subcommittee**

**Retail Ad Hoc Texas Task Force (\*)**

**Technical Electronic**

**Implementation Subcommittee (TEIS)**

**Model Business**

**Practice**

**Development**

**Task Forces & Working Groups**

**Technical**

**Standards**

**Development**

**Joint Retail/WEQ DSM-EE Subcommittee**

**Information Requirements Subcommittee (IR)**

**PAP 10 Smart Grid Standards Subcommittee (\*\*\*)**

**Smart Grid Standards Development Subcommittee (\*\*)**

NAESB Retail Subcommittee Leadership: [[10]](#endnote-8)

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.

1. 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. **WGQ**: s – services, pl – pipeline, l – LDC, pr – producer, e – end user. [↑](#footnote-ref-1)
2. 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> [↑](#footnote-ref-2)
3. **Retail 2013 Annual Plan End Notes:**

   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. [↑](#endnote-ref-1)
4. 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. [↑](#endnote-ref-2)
5. The assignments are abbreviated. The abbreviations and committee structure can be found at the end of the Annual Plan document. [↑](#endnote-ref-3)
6. The DSM-EE subcommittee has split into several separate groups to support concurrent development of separate standards sets. [↑](#endnote-ref-4)
7. 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) [↑](#endnote-ref-5)
8. Note: This will be for language and format only, BPS will not edit for content. [↑](#endnote-ref-6)
9. 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. [↑](#endnote-ref-7)
10. 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. [↑](#endnote-ref-8)