



## **North American Energy Standards Board**

801 Travis, Suite 1675, Houston, Texas 77002  
Phone: (713) 356-0060, Fax: (713) 356-0067, E-mail: [naesb@naesb.org](mailto:naesb@naesb.org)  
Home Page: [www.naesb.org](http://www.naesb.org)

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### **NAESB BOARD OF DIRECTORS MEETING ASSEMBLED MEETING MATERIALS**

**MARCH 24, 2011**



# North American Energy Standards Board

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**NAESB BOARD OF DIRECTORS MEETING**  
**Houston Marriott North Hotel, Houston, Texas - Salon D/E/F**  
**Thursday, March 24 -- 9:00 a.m. to 1:00 pm Central**

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|--------|---|-------------------|
| 8:00 A | Resources Committee Meeting   |                   |
| 8:30 A | Continental Breakfast   |                   |
| 9:00 A | 1. Welcome  |                   |
|        | a) Welcome to Board members, guests and convene the March 24, 2011 Board meeting  |                   |
|        | b) Antitrust Guidelines <a href="http://www.naesb.org/misc/antitrust_guidance.doc">http://www.naesb.org/misc/antitrust_guidance.doc</a> (Guidance)  | 4                 |
|        | c) Establish quorum – <a href="http://www.naesb.org/pdf4/bod_terms.pdf">http://www.naesb.org/pdf4/bod_terms.pdf</a> (Board Roster)  | 5                 |
|        | 2. Consent Agenda   |                   |
|        | a) Agenda Adoption - <a href="http://www.naesb.org/pdf4/bd032411a.doc">http://www.naesb.org/pdf4/bd032411a.doc</a> (Agenda)   | 11                |
|        | b) Adoption of Draft Minutes - <a href="http://www.naesb.org/pdf4/bd120910dm.doc">http://www.naesb.org/pdf4/bd120910dm.doc</a> (minutes)  | 21                |
|        | c) Adoption of Revised 2011 WGQ Annual Plan<br><a href="http://www.naesb.org/misc/wgq_2011_annual_plan_020311.doc">http://www.naesb.org/misc/wgq_2011_annual_plan_020311.doc</a> (plan)   | 32                |
|        | d) Adoption of Revised 2011 Retail Annual Plan<br><a href="http://www.naesb.org/misc/retail_2011_annual_plan_020211.doc">http://www.naesb.org/misc/retail_2011_annual_plan_020211.doc</a> (plan with redlined changes)  | 36                |
|        | e) Adoption of Revised 2011 WEQ Annual Plan<br><a href="http://www.naesb.org/misc/weq_2011_annual_plan_020111.doc">http://www.naesb.org/misc/weq_2011_annual_plan_020111.doc</a> (plan with redlined changes)   | 43                |
|        | 3. Membership and Financial Report  |                   |
|        | a) Membership Report <a href="http://www.naesb.org/misc/board_membership_slide_031011.ppt">http://www.naesb.org/misc/board_membership_slide_031011.ppt</a><br>(Profile), <a href="http://www.naesb.org/misc/board_membership_report_031011.doc">http://www.naesb.org/misc/board_membership_report_031011.doc</a> (Report)   | 56<br>57          |
|        | b) Financial Year End Report 2010 & Financial Year to Date Report 2011:<br><a href="http://www.naesb.org/misc/financial_report_032411.doc">http://www.naesb.org/misc/financial_report_032411.doc</a> (Report),<br><a href="http://www.naesb.org/misc/financial_profile_032411.ppt">http://www.naesb.org/misc/financial_profile_032411.ppt</a> (Profile)   | 67<br>82          |
|        | 4. Reports from Board Committees  |                   |
|        | a) Resources <a href="http://www.naesb.org/pdf4/board_resource032411w1.pdf">http://www.naesb.org/pdf4/board_resource032411w1.pdf</a> (Resources Report)   | 84                |
|        | b) Critical Infrastructure Committee: <a href="http://www.naesb.org/pdf4/bd_cic_021711notes.doc">http://www.naesb.org/pdf4/bd_cic_021711notes.doc</a><br>(Notes)  | 122               |
|        | c) Retail Restructuring Committee: see information on Agenda item 4(a) from the Resources<br>Committee, motion to extend the membership requirement waiver for the retail quadrants,<br>with quarterly reporting at each Board meeting:<br><a href="http://www.naesb.org/misc/rsr_waiver_031611.doc">http://www.naesb.org/misc/rsr_waiver_031611.doc</a> (Previous motions and Bylaws Excerpt)  | 126               |
|        | d) Parliamentary Committee: <a href="http://www.naesb.org/pdf4/parliamentary010511dm.doc">http://www.naesb.org/pdf4/parliamentary010511dm.doc</a> (Draft<br>Minutes 1-5-11), <a href="http://www.naesb.org/pdf4/parliamentary021211notes.doc">http://www.naesb.org/pdf4/parliamentary021211notes.doc</a> (Notes 2-12-11<br>via email), <a href="http://www.naesb.org/pdf4/parliamentary021811notes.doc">http://www.naesb.org/pdf4/parliamentary021811notes.doc</a> (Notes 2-18-11 via<br>email), and motion to adopt work products of the Parliamentary Committee:<br><a href="http://www.naesb.org/pdf4/managing031611a1.pdf">http://www.naesb.org/pdf4/managing031611a1.pdf</a> (PC Actions approved by the MC) | 127<br>133<br>135 |
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| e)         | Managing Committee: <a href="http://www.naesb.org/pdf4/managing031611a1.pdf">http://www.naesb.org/pdf4/managing031611a1.pdf</a> (MC Approval of PC Actions)   | 137                      |
| 5.         | Update on Advisory Council Meeting and discussion of possible development efforts highlighted in the Advisory Council meeting: <a href="http://www.naesb.org/pdf4/advisory021211notes.doc">http://www.naesb.org/pdf4/advisory021211notes.doc</a> (2-12-11 Notes), <a href="http://www.naesb.org/misc/icf_geic_primer062206.pdf">http://www.naesb.org/misc/icf_geic_primer062206.pdf</a> (Gas Electric Coordination ICF Report)  | 141<br>144               |
| 6.         | Discussion on Data Privacy Model Business Practices for the Retail Electric Market – Christine Wright, Public Utility Commission of Texas   |                          |
| 7.         | Updates on specific efforts:  |                          |
| a)         | <ul style="list-style-type: none"><li>• Publications: WGQ Publication Schedule (Version 2.1): <a href="http://www.naesb.org/misc/wgq_publication_schedule_ver2_1.doc">http://www.naesb.org/misc/wgq_publication_schedule_ver2_1.doc</a></li><li>• WEQ Publication Schedule (Version 2.2): <a href="http://www.naesb.org/misc/weq_publication_schedule_ver2_2.doc">http://www.naesb.org/misc/weq_publication_schedule_ver2_2.doc</a></li><li>• Retail Publication Schedule (Version 1.3): <a href="http://www.naesb.org/misc/retail_publication_schedule_ver1_3.doc">http://www.naesb.org/misc/retail_publication_schedule_ver1_3.doc</a></li><li>• Retail Publication Schedule (Version 1.4): <a href="http://www.naesb.org/misc/retail_publication_schedule_ver1_4.doc">http://www.naesb.org/misc/retail_publication_schedule_ver1_4.doc</a></li></ul> | 156<br>158<br>162<br>165 |
| b)         | Update on Order 890 efforts   |                          |
| c)         | Update on Demand Response and Demand Side Management  |                          |
| d)         | Status for the Electric Industry Registry   |                          |
| e)         | Update on Smart Grid Priority Action Plans 3, 4 and 9 for Phase 2, Priority Action Plan 10, Open ADE Energy Service Provider Interface Task Force, Data Privacy Task Force  |                          |
| f)         | Update on Parallel Flow Visualization   |                          |
| g)         | Update on Common Codes  |                          |
| 8.         | Old and New Business  |                          |
| a)         | Liaisons with external groups: FERC, NARUC, NERC, NPC, NSTC, Other Groups   |                          |
| b)         | Comments from Board Members, Invited Guests and Speakers, and Attendees   |                          |
| c)         | Board Meeting Schedule 2011: <a href="http://www.naesb.org/misc/2011_schedule.doc">http://www.naesb.org/misc/2011_schedule.doc</a>  | 166                      |
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| 1:00 pm 9. | Adjourn   |                          |



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### NAESB ANTITRUST GUIDELINES STATEMENT

#### ANTITRUST GUIDELINES

- The following guidelines will be reviewed by counsel at the meeting. The meeting will be monitored, transcribed, and minutes will be taken. The guidelines are as follows:

Antitrust guidelines direct meeting participants to avoid discussion of topics or behavior that would result in anticompetitive behavior including: restraint of trade and conspiracies to monopolize, unfair or deceptive business acts or practices, price discriminations, division of markets, allocation of production, imposition of boycotts, and exclusive dealing arrangements.

Any views, opinions or positions presented or discussed by meeting participants are the views of the individual meeting participants and their organizations. Any such views, opinions or positions are not the views, positions or opinions of NAESB, the NAESB Board of Directors, or any NAESB Committee or Subcommittee, unless specifically noted otherwise.

As it is not the purpose of the meeting to discuss any antitrust topics, if anyone believes we are straying into improper areas, please let us know and we will redirect the conversation.



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### NORTH AMERICAN ENERGY STANDARDS BOARD 2011 BOARD TERMS – Wholesale Gas Quadrant

| <b>PRODUCERS SEGMENT</b>                        |  | <b>TERM END:</b> |
|---|--|------------------|
| Richard D. Smith                                | Regulatory & Compliance Manager, Noble Energy, Inc.  | 12-31-2012       |
| Mark Stultz                                     | Vice President - Policy and Regulatory Affairs, US America Gas and Power, BP Energy Company                  | 12-31-2011       |
| Keith Sappenfield                               | Regional Director – US Regulatory Affairs, EnCana Oil & Gas (USA), Inc.                                      | 12-31-2011       |
| Randy E. Parker                                 | Global Regulatory Advisor, ExxonMobil Gas and Power Marketing Company (a division of ExxonMobil Corporation) | 12-31-2012       |
| Catherine Abercrombie                           | Regulatory Affairs, ConocoPhillips Gas and Power Marketing   | 12-31-2011       |
| <b>PIPELINE SEGMENT</b>                         |  |                  |
| Douglas Field                                   | Manager – Compliance, Southern Star Central Gas Pipeline   | 12-31-2012       |
| Bill Grygar                                     | Vice President, Panhandle Eastern Pipe Line  | 12-31-2012       |
| Susanna B. Barry                                | Vice President – Commercial Operations, Tennessee Gas Pipeline Company                                       | 12-31-2012       |
| Randy Young                                     | Vice President - Regulatory Compliance and Corporate Services, Boardwalk Pipeline Partners, LP               | 12-31-2011       |
| Richard Kruse                                   | Senior Vice President, Spectra Energy Transmission   | 12-31-2011       |
| <b>LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT</b> |  |                  |
| Craig Colombo                                   | Energy Trader III, Dominion Resources  | 12-31-2012       |
| Tim Sherwood                                    | Managing Director of Gas Ops and Capacity Planning, AGL Resources  | 12-31-2012       |
| David W. Hadley                                 | Senior Vice President – Regulatory Affairs, NiSource, Inc.   | 12-31-2011       |
| V A C A N C Y                                   |  | 12-31-2011       |
| V A C A N C Y                                   |  | 12-31-2011       |
| <b>END USERS SEGMENT</b>                        |  |                  |
| Valerie Crockett                                | Senior Program Manager - Energy Markets & Policy, Tennessee Valley Authority                                 | 12-31-2012       |
| Timothy W. Gerrish                              | Director of Origination-Energy Marketing and Trading, Florida Power & Light                                  | 12-31-2012       |
| Tina Burnett                                    | Natural Gas Resources Administrator, The Boeing Company  | 12-31-2012       |
| Lori-Lynn C. Pennock                            | Senior Fuel Supply Analyst, Salt River Project   | 12-31-2011       |
| Jim Templeton                                   | Principal, Comprehensive Energy Services   | 12-31-2011       |
| <b>SERVICES SEGMENT</b>                         |  |                  |
| Darilyn Jones                                   | Senior Vice President and Chief Process Officer, Sequent Energy Management                                   | 12-31-2012       |
| Rusty Braziel                                   | Managing Director, Bentek Energy, LLC  | 12-31-2012       |
| Marty Patterson                                 | Senior Vice President Commercial Services, American Midstream Partners, LP                                   | 12-31-2011       |
| Paul Kahler                                     | Midstream Regulatory Advisor, Cenovus Energy Inc.  | 12-31-2011       |
| Jeff T. Miers                                   | Senior Executive (Partner), Accenture LLP  | 12-31-2012       |



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### NORTH AMERICAN ENERGY STANDARDS BOARD 2011 BOARD TERMS – Retail Electric Quadrant

| <b>SERVICE PROVIDERS/SUPPLIERS SEGMENT</b> |   | <b>TERM END:</b> |
|--|---|------------------|
| Wendell Miyaji                             | Vice President - Energy Sciences, Comverge, Inc.                              | 12-31-2011       |
| Jim Minneman                               | Controller, PPL Solutions, LLC  | 12-31-2011       |
| J. Cade Burks                              | Executive Vice President of ista  | 12-31-2012       |
| Austin Morris                              | Managing Partner – Energy, SunGard Consulting Services, LLC                   | 12-31-2012       |
| <b>UTILITIES SEGMENT</b>                   |   |                  |
| Brandon Stites                             | Director – Energy Conservation & Advanced Metering, Dominion Virginia Power   | 12-31-2011       |
| Dennis Derricks                            | Director Regulatory Policy and Analysis, Wisconsin Public Service Corporation | 12-31-2011       |
| Ruth Kiselewich                            | Director - Demand Side Management Programs, Baltimore Gas & Electric Company  | 12-31-2012       |
| Debbie McKeever                            | Market Advocate, Oncor  | 12-31-2012       |
| <b>END USERS/PUBLIC AGENCIES SEGMENT</b>   |   |                  |
| Kevin Cooney                               | Managing Director – Energy, Navigant Consulting, Inc.                         | 12-31-2011       |
| V A C A N C Y                              |   | 12-31-2011       |
| James P. Cargas                            | Senior Assistant City Attorney, City of Houston                               | 12-31-2012       |
| V A C A N C Y                              |   | 12-31-2012       |



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### NORTH AMERICAN ENERGY STANDARDS BOARD 2011 BOARD TERMS – Wholesale Electric Quadrant

| TRANSMISSION SEGMENT      |  | TERM END:  | SUBSEGMENT:     |
|---------------------------|--|------------|-----------------|
| Dan Klempel               | Director Transmission Regulatory Compliance, Basin Electric Power Cooperative                                      | 12-31-2011 | Muni/Coop       |
| Chuck Feagans             | Senior Manager, Reliability Policy, Tennessee Valley Authority   | 12-31-2012 | Fed/State/Prov. |
| Terry J. Coggins          | Manager – Transmission Policy, Southern Company  | 12-31-2012 | IOU             |
| V A C A N C Y             |  | 12-31-2011 | at large        |
| Mike R. Montoya           | Director of Grid Advancement, Southern California Edison   | 12-31-2012 | at large        |
| Edward J. Davis           | Policy Consultant, Entergy Services, Inc.  | 12-31-2011 | at large        |
| V A C A N C Y             |  | 12-31-2011 | at large        |
| GENERATION SEGMENT        |  |            |                 |
| Douglas L. Curry          | Administrator and CEO, Lincoln Electric System   | 12-31-2011 | Muni/Coop       |
| Kathy York                | Senior Program Manager - Energy Markets, Policy, and Compliance Reporting, Tennessee Valley Authority              | 12-31-2012 | Fed/State/Prov. |
| Lou Oberski               | Director – Electric Market Policy, Dominion Resources Services, Inc.   | 12-31-2012 | IOU             |
| Wayne Moore               | Regulatory Affairs & Energy Policy Director and Compliance Officer – Generation, Southern Company Services, Inc.   | 12-31-2011 | IOU             |
| Elizabeth Killinger       | Senior Vice President – Customer Operations, NRG Energy, Inc.  | 12-31-2011 | at large        |
| V A C A N C Y             |  | 12-31-2012 | Merchant        |
| Shah Hossain              | Senior Regulatory Specialist, Westar Energy, Inc.  | 12-31-2011 | at large        |
| MARKETERS/BROKERS SEGMENT |  |            |                 |
| Roy True                  | Manager of Regulatory and Market Affairs, ACES Power Marketing   | 12-31-2012 | Muni/Coop       |
| Jeff Ackerman             | Manager - Colorado River Storage Project Energy Management and Marketing Office, Western Area Power Administration | 12-31-2011 | Fed/State/Prov. |
| Gavin Cunningham          | Manager – FirstEnergy Solutions Corp.  | 12-31-2012 | at large        |
| V A C A N C Y             |  | 12-31-2011 | at large        |
| Jim Drake                 | Trading Desk Head - Power, Florida Power & Light   | 12-31-2012 | IOU             |
| R. Scott Brown            | Vice President and Director, Exelon Generation Power Team  | 12-31-2011 | IOU             |
| V A C A N C Y             |  | 12-31-2011 | at large        |



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| <b>DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT</b> |   | <b>TERM END:</b> | <b>SUBSEGMENT:</b> |
|---|---|------------------|--------------------|
| Arthur G. Fusco   | Vice President and General Counsel, Central Electric Power Cooperative Inc.   | 12-31-2012       | Muni/Coop          |
| Paul McCurley   | Manager – Power Supply, National Rural Electric Cooperative Association   | 12-31-2011       | Muni/Coop          |
| Andy Rodriquez  | Director of Standards Development, North American Electric Reliability Corporation (NERC)   | 12-31-2012       | at large           |
| Nelson Peeler   | Vice President System Operations, Duke Energy   | 12-31-2011       | IOU                |
| V A C A N C Y   |   | 12-31-2011       | at large           |
| Joe Hartsoe   | Managing Director – Federal Policy, American Electric Power Service Corp.   | 12-31-2012       | at large           |
| Bruce Ellsworth   | New York State Reliability Council  | 12-31-2011       | At-Large           |
| <b>END USERS SEGMENT</b>                                |   |                  |                    |
| Jesse D. Hurley   | Chief Executive Officer, Shift Research, LLC  | 12-31-2011       | at large           |
| Aaron Breidenbaugh                                      | Senior Manager - Regulatory Affairs and Public Policy - New York, EnerNOC, Inc.   | 12-31-2012       | at large           |
| Thomas G. Dvorsky                                       | Director of the Office of Electricity, Gas, and Water at the New York State Department of Public Service, rep. National Association of Regulatory Utility Commissioners | 12-31-2012       | Regulator          |
| Marie Pieniazek   | Consultant, Rep: Energy Curtailment Specialists, Inc.   | 12-31-2011       | at large           |
| V A C A N C Y   |   | 12-31-2012       | Large Industrial   |
| V A C A N C Y   |   | 12-31-2011       | at large           |
| Michehl Gent  | Open Access Technology International, Inc.  | 12-31-2011       | At-Large           |
| <b>INDEPENDENT GRID OPERATORS/PLANNERS</b>              |   |                  |                    |
| Michael Desselle  | Vice President Process Integrity, Southwest Power Pool  | 12-31-2012       |                    |
| Mike Cleary   | Senior Vice President and COO, Electric Reliability Council of Texas (ERCOT)  | 12-31-2012       |                    |
| Kevin Kirby   | Vice President Market Operations, ISO New England, Inc.   | 12-31-2012       |                    |
| Rana Mukerji  | Senior Vice President Market Structures, New York Independent System Operator, Inc. (NYISO)   | 12-31-2012       |                    |
| Andy Ott  | Senior Vice President Marketing, PJM Interconnection, LLC   | 12-31-2011       |                    |
| Bill Phillips   | Vice President Standards Compliance & Strategy, Midwest ISO (MISO)  | 12-31-2011       |                    |
| Mark Wilson   | Director of Corporate Planning, Independent Electricity System Operator (IESO)  | 12-31-2011       |                    |



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### TECHNOLOGY AND SERVICES

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|                   |  |            |
|-------------------|--|------------|
| Jim Buccigross    | Vice President Energy Industry Practice, 8760 Inc.   | 12-31-2012 |
| Laurent M. Liscia | Executive Director, Organization for the Advancement of Structured Information Standards (OASIS)                           | 12-31-2012 |
| David A. Wollman  | Leader, Smart Grid Team – Standards and Electrical Metrology Groups, National Institute of Standards and Technology (NIST) | 12-31-2012 |
| Sylvia Munson     | Director - Product Management and Regulatory Compliance, SunGard Energy and Commodities                                    | 12-31-2012 |
| Dr. Scott Coe     | Vice President, Utility Integration Solutions, Inc. (UISOL)  | 12-31-2011 |
| V A C A N C Y     |  | 12-31-2011 |
| V A C A N C Y     |  | 12-31-2011 |

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The subsegments noted in the above roster are:

At-Large -- Regional reliability organizations, regional transmission organizations, consultants, service companies, information services and software companies, law firms, and other such organizations that are not specifically encompassed in the other subsegments for a given segment.

Competitive Retailer (not available to MUNI/COOP, IOU or IOU affiliates)

End Use (also in another segment)

Federal/State/Provincial

IOU – Investor Owned Utility or IOU Affiliated

ITC – Independent Transmission Company

Large Industrials (not in other segments)

Merchant

Muni/Coop – Municipals, Cooperatives

Not IOU Affiliated

OTHER -- (not available to MUNI/COOP, IOU or IOU affiliates)

Regulator

Residential/Commercial

End Use (Self Generation)

The number of seats within each segment that are allotted to sub-segments are controlled through the WEQ Procedures.



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| <b>SERVICE PROVIDERS/SUPPLIERS SEGMENT</b> |  | <b>TERM END:</b> |
|--|--|------------------|
| Leigh Spangler                             | President, Latitude Technologies Inc.  | 12-31-2012       |
| Joseph C. Monroe                           | Vice President – External Affairs, SouthStar Energy Services, LLC                                  | 12-31-2012       |
| Dave Darnell                               | President & CEO, Systrends USA   | 12-31-2011       |
| Greg Lander                                | President, Capacity Center   | 12-31-2011       |
| <b>DISTRIBUTORS SEGMENT</b>                |  |                  |
| Alonzo Weaver                              | Vice President of Engineering and Operations, Memphis Light, Gas & Water Division (APGA)           | 12-31-2011       |
| Ralph Cleveland                            | Executive Vice President – Engineering and Operations, AGL Resources, Inc.                         | 12-31-2011       |
| Mike Novak                                 | Assistant General Manager – Federal Regulatory Affairs, National Fuel Gas Distribution Corporation | 12-31-2012       |
| V A C A N C Y                              |  | 12-31-2012       |
| <b>END USERS/PUBLIC AGENCIES SEGMENT</b>   |  |                  |
| V A C A N C Y                              |  | 12-31-2012       |
| V A C A N C Y                              |  | 12-31-2012       |
| V A C A N C Y                              |  | 12-31-2011       |
| V A C A N C Y                              |  | 12-31-2011       |



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Via email and posting  
March 15, 2011

**TO:** NAESB Board of Directors, Executive Committee (EC) Members, EC Alternates, NAESB Members, NAESB Advisory Council, and Invited Guests

**FROM:** Rae McQuade, NAESB President

**RE:** Packet of Agendas with Supporting Document Links for the March 24 Board of Directors Meeting and Related Meetings – **Additional Materials Provided**

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Dear Board members, EC members, EC alternates, NAESB members, NAESB Advisory Council and invited guests,

As noted in other communications, we are pleased to announce the upcoming Board meeting to be held March 24 in Houston, Texas at the Houston Marriott North Hotel ([this is not the Marriott IAH Airport Hotel, but is close to the IAH Airport](#)). I hope you are able to travel to Houston for our upcoming Board meeting, related committee meetings and our Board dinner. In this Board meeting, we will discuss the progress made towards the 2011 annual plans, the 2011 financial statements and yearend 2010 financial statements, the efforts related to actions taken by government agencies, the work underway related to Smart Grid applications, demand response, and energy efficiency. We will also discuss the efforts of board committees including requests for approval of Parliamentary Committee actions and waivers for membership thresholds for the retail quadrants.

At the Board dinner on March 23, we are very fortunate to have Peter Esposito, who will discuss the Southwest Energy Alliance. Peter is a provocative speaker, well versed in energy issues and will provide information on the infrastructure needed to enable abundant sustainable clean energy. With the recent FERC activities on variable energy resources, and the focus on gas-electric coordination both by FERC and by the National Petroleum Council, his remarks should provide a background for more than a few current energy related activities. Similarly, at our Board meeting on March 24, we have Christine Wright of the Public Utility Commission of Texas to discuss data privacy business practices – a topic getting quite a bit of attention these days. Both Peter and Christine are excellent speakers and we are very fortunate to have them contribute to our March Board event.

The specifics of the meetings are:

|        |   |
|--------|---|
| Event: | Board of Directors Meeting, and related NAESB meetings  |
| Where: | Houston Marriott North Hotel, 255 North Sam Houston Parkway East, Houston, TX 77060, phone (281) 875-4000 (excepting Board Reception and Dinner)  |
| When:  | March 23 Retail Quadrants Leadership Meeting from 11:00 am to 1:00 pm C (lunch served at noon during the meeting)   |
|        | March 23 Wholesale Electric Quadrant Leadership Meeting from 1:00 am to 3:00 pm C   |
|        | March 23 Wholesale Gas Quadrant Leadership Meeting from 3:00 pm to 5:00 pm C  |
|        | March 23 Board Reception and Dinner - 6:00 pm reception and 7:00 pm dinner seating (held at the Petroleum Club with bus transportation provided to/from the Houston Marriott North Hotel) |
|        | March 24 Resources Committee Meeting from 8:00 am to 9:00 am C  |
|        | March 24 Board Meeting from 9:00 am to 1:00 pm C, (a buffet lunch will be served during the meeting)  |

As with all our meetings, these events are open to any interested party. For the meetings, conference calling will be available should you be unable to attend in person. Please contact Veronica Thomason ([vthomason@naesb.org](mailto:vthomason@naesb.org), 713-356-0060) for additional information on the meetings and conference calling information. As additional board materials become available, they will be added to a revised posted agenda and forwarded to you.



## North American Energy Standards Board

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Please RSVP your intention to attend the Board dinner or Board of Directors meeting or any of the related meetings, and your intention to bring a guest or colleague to the dinner at your earliest convenience ([vthomason@naesb.org](mailto:vthomason@naesb.org), [naesb@naesb.org](mailto:naesb@naesb.org), 713-356-0060). We do have a room block at the Houston Marriott North Hotel for those attendees travelling to Houston. The hotel is conveniently located near to the airport complex. For those staying in the hotel, transportation is provided for attending the Board dinner.

We hope you will be able to make the leadership meetings and the dinner on March 23, followed by the Resources Committee meeting and the Board meeting on March 24. We look forward to seeing you at the dinner and our Board meeting and at any of the related meetings noted above.

Best Regards,

*Rae McQuade*

Rae McQuade  
NAESB President and COO

*As a reminder for your calendars, the dates for the 2011 Board meetings have been set as March 24, June 23, September 22 and December 8, 2011 – all in the Houston Marriott North Hotel, with a Board dinner at the Petroleum Club on the preceding night.*



# North American Energy Standards Board

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## CONFERENCE CALLING AND WEB CONFERENCING DETAILS FOR THE MARCH 23-24, 2011 SET OF BOARD AND RELATED MEETINGS:

The meetings are open to all interested parties, who may participate by phone if unable to attend in person. The Board meeting is also web cast.

|        |                       |  |
|--------|-----------------------|--|
| Mar 23 | 11:00 am to 1:00 pm C | Retail Gas and Electric Quadrants Leadership Meeting (In person and Conference Call)   |
|        | Houston 1/2 room      | <ul style="list-style-type: none"><li>• Call in number 866-740-1260</li><li>• Access Code 3560063</li><li>• Security Code 5812</li></ul> |
| Mar 23 | 1:00 to 3:00 pm C     | Wholesale Electric Quadrant Leadership Meeting (In person and Conference Call)   |
|        | Houston 1/2 room      | <ul style="list-style-type: none"><li>• Call in number 866-740-1260</li><li>• Access Code 3560064</li><li>• Security Code 8724</li></ul> |
| Mar 23 | 3:00 to 5:00 pm C     | Wholesale Gas Quadrant Leadership Meeting (In person and Conference Call)  |
|        | Houston 1/2 room      | <ul style="list-style-type: none"><li>• Call in number 866-740-1260</li><li>• Access Code 3560063</li><li>• Security Code 7318</li></ul> |
| Mar 24 | 8:00 to 9:00 am C     | Resources Committee Meeting (In person and Conference Call)  |
|        | Galveston room        | <ul style="list-style-type: none"><li>• Call in number 866-740-1260</li><li>• Access Code 3560063</li><li>• Security Code 2843</li></ul> |
| Mar 24 | 9:00 am to 1:00 pm C  | Board Meeting (In person and Conference Call/Web Cast)   |
|        | Salon D/E/F           | <ul style="list-style-type: none"><li>• Call in number 866-740-1260</li><li>• Access Code 7133560</li><li>• Security Code 6515</li></ul> |

To join a conference call:

- Dial the 11-digit toll free call-in phone number shown above for the specific meetings
- An automated attendant will ask you to enter a seven-digit access code (shown in the table above)
- The automated attendant will ask you to record your name.
- Please note that if the conference leader has not yet initiated the conference call, you will be placed on music hold until the conference leader starts the conference.
- The automated attendant will then ask you for a four-digit security code (shown in the table above)

Please place your phone on mute unless you are speaking. For those participants that do not have a mute feature on your phone, please press (\*6) to mute your phone and (\*7) to un-mute your phone. Putting the conference call on hold may cause music to be played over the discussion and if so, the NAESB office will contact the on-hold line to have it disconnected.

If the meeting has the web conferencing feature enabled, to join the web conference, go to [www.readytalk.com](http://www.readytalk.com) and enter the same access code and security code. Please note that if the conference leader has not yet initiated the web conference you will view a screen that states, "The Chairperson has not yet arrived. Please standby for your web conference to begin."

ReadyTalk recommends that you test your browser and network connections for compatibility prior to participating in a web conference. To do so, go to <http://test.callinfo.com>. If you have problems joining a conference call or need technical assistance, please contact ReadyTalk Customer Care, 1-800-843-9166.



# North American Energy Standards Board

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**NAESB BOARD OF DIRECTORS MEETING**  
**Houston Marriott North Hotel, Houston, Texas - Salon D/E/F**  
**Thursday, March 24 -- 9:00 a.m. to 1:00 pm Central**

**DRAFT AGENDA**

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| #      | Agenda Item   |
|--------|---|
| 8:00 A | Resources Committee Meeting   |
| 8:30 A | Continental Breakfast   |
| 9:00 A | 1. Welcome  |
|        | a) Welcome to Board members, guests and convene the March 24, 2011 Board meeting  |
|        | b) Antitrust Guidelines <a href="http://www.naesb.org/misc/antitrust_guidance.doc">http://www.naesb.org/misc/antitrust_guidance.doc</a> (Guidance)  |
|        | c) Establish quorum – <a href="http://www.naesb.org/pdf4/bod_terms.pdf">http://www.naesb.org/pdf4/bod_terms.pdf</a> (Board Roster)  |
|        | 2. Consent Agenda   |
|        | a) Agenda Adoption - <a href="http://www.naesb.org/pdf4/bd032411a.doc">http://www.naesb.org/pdf4/bd032411a.doc</a> (Agenda)   |
|        | b) Adoption of Draft Minutes - <a href="http://www.naesb.org/pdf4/bd120910dm.doc">http://www.naesb.org/pdf4/bd120910dm.doc</a> (minutes)  |
|        | c) Adoption of Revised 2011 WGQ Annual Plan <a href="http://www.naesb.org/misc/wgq_2011_annual_plan_020311.doc">http://www.naesb.org/misc/wgq_2011_annual_plan_020311.doc</a> (plan)  |
|        | d) Adoption of Revised 2011 Retail Annual Plan <a href="http://www.naesb.org/misc/retail_2011_annual_plan_020211.doc">http://www.naesb.org/misc/retail_2011_annual_plan_020211.doc</a> (plan with redlined changes)   |
|        | e) Adoption of Revised 2011 WEQ Annual Plan <a href="http://www.naesb.org/misc/weq_2011_annual_plan_020111.doc">http://www.naesb.org/misc/weq_2011_annual_plan_020111.doc</a> (plan with redlined changes)  |
|        | 3. Membership and Financial Report  |
|        | a) Membership Report <a href="http://www.naesb.org/misc/board_membership_slide_031011.ppt">http://www.naesb.org/misc/board_membership_slide_031011.ppt</a> (Profile), <a href="http://www.naesb.org/misc/board_membership_report_031011.doc">http://www.naesb.org/misc/board_membership_report_031011.doc</a> (Report)  |
|        | b) Financial Year End Report 2010 & Financial Year to Date Report 2011: <a href="http://www.naesb.org/misc/financial_report_032411.doc">http://www.naesb.org/misc/financial_report_032411.doc</a> (Report), <a href="http://www.naesb.org/misc/financial_profile_032411.ppt">http://www.naesb.org/misc/financial_profile_032411.ppt</a> (Profile)   |
|        | 4. Reports from Board Committees  |
|        | a) Resources <a href="http://www.naesb.org/pdf4/board_resource032411w1.pdf">http://www.naesb.org/pdf4/board_resource032411w1.pdf</a> (Resources Report)   |
|        | b) Critical Infrastructure Committee: <a href="http://www.naesb.org/pdf4/bd_cic_021711notes.doc">http://www.naesb.org/pdf4/bd_cic_021711notes.doc</a> (Notes)   |
|        | c) Retail Restructuring Committee: see information on Agenda item 4(a) from the Resources Committee, motion to extend the membership requirement waiver for the retail quadrants, with quarterly reporting at each Board meeting: <a href="http://www.naesb.org/misc/rsr_waiver_031611.doc">http://www.naesb.org/misc/rsr_waiver_031611.doc</a> (Previous motions and Bylaws Excerpt)   |
|        | d) Parliamentary Committee: <a href="http://www.naesb.org/pdf4/parliamentary010511dm.doc">http://www.naesb.org/pdf4/parliamentary010511dm.doc</a> (Draft Minutes 1-5-11), <a href="http://www.naesb.org/pdf4/parliamentary021211notes.doc">http://www.naesb.org/pdf4/parliamentary021211notes.doc</a> (Notes 2-12-11 via email), <a href="http://www.naesb.org/pdf4/parliamentary021811notes.doc">http://www.naesb.org/pdf4/parliamentary021811notes.doc</a> (Notes 2-18-11 via email), and motion to adopt work products of the Parliamentary Committee: <a href="http://www.naesb.org/pdf4/managing031611a1.pdf">http://www.naesb.org/pdf4/managing031611a1.pdf</a> (PC Actions approved by the MC) |
|        | e) Managing Committee: <a href="http://www.naesb.org/pdf4/managing031611a1.pdf">http://www.naesb.org/pdf4/managing031611a1.pdf</a> (MC Approval of PC Actions)  |

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# North American Energy Standards Board

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**NAESB BOARD OF DIRECTORS MEETING**  
**Houston Marriott North Hotel, Houston, Texas - Salon D/E/F**  
**Thursday, March 24 -- 9:00 a.m. to 1:00 pm Central**

**DRAFT AGENDA**

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| #          | Agenda Item  |
|------------|--|
| 5.         | Update on Advisory Council Meeting and discussion of possible development efforts highlighted in the Advisory Council meeting: <a href="http://www.naesb.org/pdf4/advisory021211notes.doc">http://www.naesb.org/pdf4/advisory021211notes.doc</a> (2-12-11 Notes), <a href="http://www.naesb.org/misc/icf_geic_primer062206.pdf">http://www.naesb.org/misc/icf_geic_primer062206.pdf</a> (Gas Electric Coordination ICF Report)   |
| 6.         | Discussion on Data Privacy Model Business Practices for the Retail Electric Market – Christine Wright, Public Utility Commission of Texas  |
| 7.         | Updates on specific efforts: <ul style="list-style-type: none"><li>a) <ul style="list-style-type: none"><li>• Publications: WGQ Publication Schedule (Version 2.1): <a href="http://www.naesb.org/misc/wgq_publication_schedule_ver2_1.doc">http://www.naesb.org/misc/wgq_publication_schedule_ver2_1.doc</a></li><li>• WEQ Publication Schedule (Version 2.2): <a href="http://www.naesb.org/misc/weq_publication_schedule_ver2_2.doc">http://www.naesb.org/misc/weq_publication_schedule_ver2_2.doc</a></li><li>• Retail Publication Schedule (Version 1.3): <a href="http://www.naesb.org/misc/retail_publication_schedule_ver1_3.doc">http://www.naesb.org/misc/retail_publication_schedule_ver1_3.doc</a></li><li>• Retail Publication Schedule (Version 1.4): <a href="http://www.naesb.org/misc/retail_publication_schedule_ver1_4.doc">http://www.naesb.org/misc/retail_publication_schedule_ver1_4.doc</a></li></ul></li><li>b) Update on Order 890 efforts</li><li>c) Update on Demand Response and Demand Side Management</li><li>d) Status for the Electric Industry Registry</li><li>e) Update on Smart Grid Priority Action Plans 3, 4 and 9 for Phase 2, Priority Action Plan 10, Open ADE Energy Service Provider Interface Task Force, Data Privacy Task Force</li><li>f) Update on Parallel Flow Visualization</li><li>g) Update on Common Codes</li></ul> |
| 8.         | Old and New Business <ul style="list-style-type: none"><li>a) Liaisons with external groups: FERC, NARUC, NERC, NPC, NSTC, Other Groups</li><li>b) Comments from Board Members, Invited Guests and Speakers, and Attendees</li><li>c) Board Meeting Schedule 2011: <a href="http://www.naesb.org/misc/2011_schedule.doc">http://www.naesb.org/misc/2011_schedule.doc</a></li><li>d) Plan for June 23, 2011 Board Meeting</li></ul>   |
| 1:00 pm 9. | Adjourn  |

*Attire – Business Casual*

*Breakfast pastries, fruits and coffee served in the room at 8:30 am, Buffet lunch available at noon or conclusion of the meeting*



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## NAESB BOARD RESOURCES COMMITTEE MEETING

Houston Marriott North Hotel, Houston, Texas -- Galveston Room -- Thursday March 24-- 8:00 a.m. to 9:00 am Central

### DRAFT AGENDA

| #      | Agenda Item   |
|--------|---|
| 8:00 A | 1. Welcome  |
|        | a) Antitrust Guidelines   |
|        | b) Welcome to participants and roll call  |
|        | c) Agenda Adoption: <a href="http://www.naesb.org/pdf4/bd032411a.doc">http://www.naesb.org/pdf4/bd032411a.doc</a> (Agenda)  |
|        | 2. Status towards goal of 30 net new members: 176; Home page access, 26; Resignations, 183; Progress = Net -7<br><a href="http://www.naesb.org/pdf4/board_resource032411w1.pdf">http://www.naesb.org/pdf4/board_resource032411w1.pdf</a> (Resources Report)   |
|        | a) New Members since last meeting [4]<br>Accenture, LLP (WGQ, Services)<br>Honeywell International, Inc (REQ, End Users)<br>Nalcor Energy (WEQ, Marketers/Brokers, Fed/State/Prov)<br>SouthStar Energy Corp (RGQ, Services)   |
|        | b) Subscriptions to Home Page Access since last meeting [4]<br>Big Apple Energy, LLC<br>Caerus Energy LLC<br>IGS Energy<br>Morgan, Lewis & Bockius, LLP   |
|        | c) Resignations since last meeting [9]<br>American Wind Energy Association (WEQ, Generation, Merchant)<br>Clarity Systems, Ltd (RGQ, Services)<br>Electric Power Supply Association (WEQ, Marketers/Brokers, At Large)<br>High Mount Exploration & Production, LLC (WGQ, Producer)<br>Modesto Irrigation District (WEQ, Transmission, Muni/Coop)<br>National Fuel Gas Distribution (WGQ, LDC)<br>Public Service Electric and Gas Company (WEQ, Transmission, IOU)<br>Reliance Gas Transportation Infrastructure Limited (WGQ, Pipeline)<br>Southern Natural Gas Co. (WGQ, Pipeline)   |
|        | d) Results of exit interviews<br>American Wind Energy Association (WEQ, Generation, Merchant) <i>Non-renewal</i><br>Clarity Systems, Ltd (RGQ, Services) <i>Non-renewal (No reason given)</i><br>Electric Power Supply Association (WEQ, Marketers/Brokers, At Large) <i>Non-renewal (Resources/Budget changes for 2011)</i><br>High Mount Exploration & Production, LLC (WGQ, Producer) <i>Non-renewal (Elected to discontinue participation)</i><br>Modesto Irrigation District (WEQ, Transmission, Muni/Coop) <i>Non-renewal (No reason given)</i><br>National Fuel Gas Distribution (WGQ, LDC) <i>Non-renewal (Keeping Retail Gas Quadrant membership only)</i><br>Public Service Electric and Gas Company (WEQ, Transmission, IOU) <i>Non-renewal (Budgetary Constraints)</i><br>Reliance Gas Transportation Infrastructure Limited (WGQ, Pipeline) <i>Non-renewal (No reason given)</i><br>Southern Natural Gas Co. (WGQ, Pipeline) <i>Non-renewal (Affiliated pipelines, Tennessee Gas Pipeline and El Paso Natural Gas will remain members)</i> |



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## NAESB BOARD RESOURCES COMMITTEE MEETING

Houston Marriott North Hotel, Houston, Texas -- Galveston Room -- Thursday March 24-- 8:00 a.m. to 9:00 am Central

### DRAFT AGENDA

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| #      | Agenda Item  |
|--------|--|
| 3.     | Update on effort to address potential memberships  |
| 4.     | Review board and EC openings for prospects   |
| 5.     | Update on the Board Challenge<br><i>WEQ 12 new members/14 resignations (net -2)</i><br><i>WGQ 7 new members/11 resignations (net -4)</i><br><i>REQ 6 new members/1 resignation (net +5)</i><br><i>RGQ 2 new member/2 resignation (net 0)</i><br>a) Discuss progress of quadrant resource leaders |
| 6.     | Business Continuity Planning – ID a backup for each board member   |
| 7.     | Other Business/Next Steps  |
| 9:00 A | Adjourn  |

*Attire – Business Casual – Breakfast Served in the Room*



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## NAESB RETAIL LEADERSHIP MEETING

Houston Marriott North Hotel, Houston, Texas -- Houston 1/2 Room - Wednesday March 23 -- 11:00 a.m. to 1:00 pm Central

### DRAFT AGENDA

| #       | Agenda Item   |
|---------|---|
| 11:00 A | 1. Welcome  |
|         | a) Antitrust Guidelines <a href="http://www.naesb.org/misc/antitrust_guidance.doc">http://www.naesb.org/misc/antitrust_guidance.doc</a> (Guidance)  |
|         | b) Welcome to participants  |
|         | 2. Agenda Adoption - <a href="http://www.naesb.org/pdf4/bd032411a.doc">http://www.naesb.org/pdf4/bd032411a.doc</a> (Agenda)   |
|         | 3. Review of Membership for Retail Quadrants: <a href="http://www.naesb.org/misc/board_membership_slide_031011.ppt">http://www.naesb.org/misc/board_membership_slide_031011.ppt</a> (Profile), <a href="http://www.naesb.org/misc/board_membership_report_031011.doc">http://www.naesb.org/misc/board_membership_report_031011.doc</a> (Report), <a href="http://www.naesb.org/pdf4/board_resource032411w1.pdf">http://www.naesb.org/pdf4/board_resource032411w1.pdf</a> (Membership Report), <a href="http://www.naesb.org/misc/rsr_waiver_031611.doc">http://www.naesb.org/misc/rsr_waiver_031611.doc</a> (Previous motions and Bylaws Excerpt) |
|         | 4. Work With State Commissions  |
|         | 5. Update on Demand Response and Demand Side Management   |
|         | 6. Update on Smart Grid Efforts including Data Privacy  |
|         | 7. Update on Publication Activities (Retail Schedule) and Regulatory Status Reports:  |
|         | • Retail Publication Schedule (Version 1.3): <a href="http://www.naesb.org/misc/retail_publication_schedule_ver1_3.doc">http://www.naesb.org/misc/retail_publication_schedule_ver1_3.doc</a>  |
|         | • Retail Publication Schedule (Version 1.4): <a href="http://www.naesb.org/misc/retail_publication_schedule_ver1_4.doc">http://www.naesb.org/misc/retail_publication_schedule_ver1_4.doc</a>  |
|         | 8. Review of the 2011 Executive Committee Report<br><a href="http://www.naesb.org/misc/retail_2011_annual_plan_020211.doc">http://www.naesb.org/misc/retail_2011_annual_plan_020211.doc</a> (plan with redlined changes)  |
|         | 9. Review of Other Board or Leadership Issues   |
|         | 10.. Old and New Business   |
| 1:00 P  | Adjourn   |

*Attire – Business Casual – Lunch served in the room at 12:30 pm*



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## NAESB WHOLESALE ELECTRIC QUADRANT LEADERSHIP MEETING

Houston Marriott North Hotel, Houston, Texas -- Houston 1/2 Room - Wednesday March 23 -- 1:00 p.m. to 3:00 pm Central

### DRAFT AGENDA

|        | #    | Agenda Item  |
|--------|------|--|
| 1:00 P | 1.   | Welcome  |
|        | a)   | Antitrust Guidelines <a href="http://www.naesb.org/misc/antitrust_guidance.doc">http://www.naesb.org/misc/antitrust_guidance.doc</a> (Guidance)  |
|        | b)   | Welcome to participants  |
|        | 2.   | Agenda Adoption: <a href="http://www.naesb.org/pdf4/bd032411a.doc">http://www.naesb.org/pdf4/bd032411a.doc</a> (Agenda)  |
|        | 3.   | NERC Coordination  |
|        | 4.   | Update on Order 890 efforts  |
|        | 5.   | Update on Demand Response and Demand Side Management   |
|        | 6.   | Update on Parallel Flow Visualization  |
|        | 7.   | Update on Smart Grid Efforts   |
|        | 8.   | Review of the 2011 Executive Committee Report Plan<br><a href="http://www.naesb.org/misc/weq_2011_annual_plan_020111.doc">http://www.naesb.org/misc/weq_2011_annual_plan_020111.doc</a> (plan with redlined changes)   |
|        | 9.   | Update on Publication Activities and Regulatory Filings: <ul style="list-style-type: none"><li>• WEQ Publication Schedule (Version 2.2): <a href="http://www.naesb.org/misc/weq_publication_schedule_ver2_2.doc">http://www.naesb.org/misc/weq_publication_schedule_ver2_2.doc</a></li></ul> |
|        | 10.  | Review of Membership for WEQ : <a href="http://www.naesb.org/pdf4/board_resource032411w1.pdf">http://www.naesb.org/pdf4/board_resource032411w1.pdf</a> (Resources Report)  |
|        | 11.  | Discussion on Gas-Electric Coordination: <a href="http://www.naesb.org/misc/icf_geic_primer062206.pdf">http://www.naesb.org/misc/icf_geic_primer062206.pdf</a> (Gas Electric Coordination ICF Report)  |
|        | 12.  | Discussion on Cyber Security, PKI standards and FERC Technical Conference on the IEC Standards   |
|        | 13.  | Review of Other Board or Leadership Issues   |
|        | 14.. | Old and New Business   |
| 3:00 P |      | Adjourn  |

*Attire – Business Casual – Lunch served in the room at 12:30 pm*



# North American Energy Standards Board

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## NAESB WHOLESALE GAS QUADRANT LEADERSHIP MEETING

Houston Marriott North Hotel, Houston, Texas -- Houston ½ Room - Wednesday March 23 - 3:00 p.m. to 5:00 pm Central

### DRAFT AGENDA

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| #      | Agenda Item  |
|--------|--|
| 3:00 P | 1. Welcome   |
|        | a) Antitrust Guidelines <a href="http://www.naesb.org/misc/antitrust_guidance.doc">http://www.naesb.org/misc/antitrust_guidance.doc</a> (Guidance)   |
|        | b) Welcome to participants   |
|        | 2. Agenda Adoption: <a href="http://www.naesb.org/pdf4/bd032411a.doc">http://www.naesb.org/pdf4/bd032411a.doc</a> (Agenda)   |
|        | 3. Update on Publication Activities and Regulatory Filings:  |
|        | • WGQ Publication Schedule (Version 2.1): <a href="http://www.naesb.org/misc/wgq_publication_schedule_ver2_1.doc">http://www.naesb.org/misc/wgq_publication_schedule_ver2_1.doc</a>                      |
|        | 4. Review of Membership for WGQ: <a href="http://www.naesb.org/pdf4/board_resource032411w1.pdf">http://www.naesb.org/pdf4/board_resource032411w1.pdf</a> (Resources Report)                              |
|        | 5. Review of the 2011 Executive Committee Report <a href="http://www.naesb.org/misc/wgq_2011_annual_plan_020311.doc">http://www.naesb.org/misc/wgq_2011_annual_plan_020311.doc</a> (plan)                |
|        | 6. Update and Discussion on Common Codes   |
|        | 7. Discussion on Gas-Electric Coordination: <a href="http://www.naesb.org/misc/icf_geic_primer062206.pdf">http://www.naesb.org/misc/icf_geic_primer062206.pdf</a> (Gas Electric Coordination ICF Report) |
|        | 8. Review of Other Board or Leadership Issues  |
|        | 9. Old and New Business  |
| 5:00 P | Adjourn  |

*Attire – Business Casual – Refreshments served in the room*



# North American Energy Standards Board

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January 14, 2010

**TO:** NAESB Board of Directors, Executive Committee (EC) Members, EC Alternates, and Invited Guests  
**FROM:** Cory Galik Cummings, NAESB Staff Attorney  
**RE:** Draft Minutes of the NAESB Board Meeting –December 9, 2010

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**NAESB BOARD OF DIRECTORS MEETING  
Marriott IAH Airport Hotel, Houston, Texas  
Thursday, December 9, 2010 – 9:00 a.m. to 1:00 pm Central  
DRAFT MINUTES**

## 1. Administration and Welcome

Ms. York welcomed the Board members and guests in the room and on the phone. Mr. Booe provided the antitrust guidance. Ms. Cummings called the roll of the NAESB Board members. Quorum was established.

## 2. Adoption of the Agenda and Minutes

Mr. True moved, seconded by Mr. Desselle, to approve the consent agenda. The motion passed unanimously.

## 3. Membership and Financial Report

Membership Report: Ms. McQuade reviewed the [membership report](#). This year NAESB experienced a net gain in membership, largely in response to the creation of the new WEQ segment, the reorganization of the retail quadrants and smart grid activities.

Financial Report: Ms. McQuade provided the [financial report](#). She noted that there will be a comparison between 2009 and 2010 financials at the next board meeting.

Financial Review Report: Ms. McQuade reviewed the [financial audit](#) performed by Dishongh, Jankowski & Eubank, PC. There were no issues found in the report.

Review, Discuss and Approve 2011 Budget: Ms. McQuade reviewed the [2011 budget](#), which is within 1 to 2% of the 2010 budget. NAESB expects to see an increase in revenue in 2011. Mr. Hurley moved, seconded by Mr. Young, to approve the 2011 budget. The motion unanimously passed a simple majority vote.

## 4. Reports from Board Committees

Resources: Mr. Brown provided the [report](#) of the Resources Committee. He noted the increase in membership due to NAESB's smart grid and demand response efforts. The Resource Committee remains committed to growing membership.

Critical Infrastructure Committee: Mr. Hurley provided an [update](#) of the activities of the Critical Infrastructure Committee. He provided a review of the November 16 Critical Infrastructure Committee, where there was discussion on the Lieberman Bill moving through Capital Hill, which is getting larger and more relevant as it becomes more bipartisan. The U.S. China Economic and Security Review Commission Report was released on November 17, which focused on the computer network exploitation and noted that Chinese military policy targets U.S. critical infrastructure in an event of a conflict. The report is available on the U.S. Commissions website. He also provided a review of STUXNET, which has proven to be the first example of a nation state created malware targeted to disrupt critical infrastructure.

Retail Restructuring Update: Ms. McKeever noted that the committee's review was complete in the Resource report.



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Managing Committee: Mr. Desselle provided an [update](#) of the Managing Committee, which met this morning in anticipation of this meeting. Since the last Board meeting the committee prepared via email a resolution with respect to notational ballots. A Parliamentary Committee meeting will be scheduled to review an issue that is applicable to all quadrants: how to manage the type of work NAESB may develop that does not rise to the level of standards. Mr. Cargas asked how the notational ballot resolution would be memorialized. Mr. Boswell answered that a one page document puts all existing procedures regarding notational ballots in one place in the hope that future confusion can be prevented by making that information easily accessible. It does not create new procedures, but rather consolidates the procedures that currently exist. Mr. Cargas moved that the Parliamentary Committee consider incorporating the text into the operating procedures and present it to the Board for adoption at the next meeting. Mr. Phillips seconded the motion. The motion unanimously passed a simple majority vote.

## 5. Updates on Specific Efforts

Publications: Ms. McQuade provided an update of the NAESB publication schedule. [WQG Version 2.0](#) was published on November 30. She thanked Ms. Davis and Ms. Rager for their hard work on this effort. Ms. Davis noted that the publication included the clean up of all the capacity release data sets and added additional detail to communications between the pipelines and WEQ operators to make it notifications easily understandable. The [WEQ Version 2.2](#) will be published in mid-2011. In the meantime, NAESB will be filing the Demand Response, Energy Efficiency and Smart Grid standards to the Commission prior to the Version 2.2 publication. The [Retail Quadrants](#) will publish in the first quarter of 2011 and will contain Demand Response, Smart Grid and considerable changes to the Customer Choice standards.

WEQ, Update on FERC Order No. 890 efforts: Ms. York provided an update on the Order No. 890 efforts. The OASIS Subcommittee met a total of 8 times, including next week's scheduled 3-day meeting, since the last Board meeting for a total of 17 days in an effort to complete the Network Integrated Transmission Service (NITS) including all the technical standards. There are separate groups working on pieces of the standards offline in an effort to complete this project. A technical team from OATI is working with the subcommittee to complete the technical aspects of the standards and plan to deliver that work product during the meeting next week to be incorporated into WEQ standards 002 and 003. The team plans to incorporate other work products into WEQ 01 next week as well. There is another work group that is working on a concept for provisionally denied service which should be delivered in January. At that time, the subcommittee will determine whether to include it in the final product or whether it is a change of scope that was previously set. The NITS standards will be voted out of the subcommittee in January for a 30-day formal comment period. At that time, the team will focus its attention on completing the standards that will cover the Coordination of Transmission Service across Multiple Transmission Systems to be completed in first quarter of 2011.

WEQ/Retail Electric, Update on Demand Response and Demand Side Management: Mr. True provided an update of the DR and DSM activities. The Retail and Wholesale DR groups completed work to harmonize Glossary terms and complete phase 2 of the development. There are some slight differences, however, which relate to differences between the two industries. The recommendation was sent out for an informal comment period in July and one comment was received in support of the recommendation. The recommendation was voted out of the DSM-EE subcommittee on December 1, 2010 and will be sent out for formal comments this week. It is anticipated that this recommendation will be voted on by the REQ EC during the February EC meeting held in Phoenix, AZ.

Work continues on R10002, a request to develop the processes for enrolling Retail Customers in Demand Response programs. At the work group's last meeting, the participants felt that the WEQ Phase 2 PAP 09 Recommendation which lays out the WEQ Enrollment process in detail could be used to satisfy the request. However, the original requestor, James Tillett, had expectations that the PAP 09 recommendation would be more comprehensive. The retail DR work group will continue to meet to discuss this request.

The retail energy efficiency group continues to draft its recommendation. They currently have a draft glossary and several participants have begun to draft language for the model business practices, including sections on baseline estimates for measurement burnout vs. early retirement, energy efficiency programs, general evaluation plan



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requirements and select gross savings approaches. The next Retail EE call is scheduled for Friday, December 17 from 10-12 Central.

The wholesale demand response work group completed its phase 2 recommendation on Measurement and Verification of Demand Response products, which was sent out for informal comments were due October 29. Three sets of comments were received from The ISOs, Southern California Edison and EnerNOC. The wholesale DR work group reviewed the comments on November 5 and November 12, making several changes to the recommendation based on the comments received. The recommendation was voted out of the DSM-EE subcommittee on December 1, 2010. The recommendation will be sent out for formal comments this week, with comments due January 14, 2010. After the formal comments are received, the wholesale DR work group will meet to discuss the formal comments and prepare late comments for the WEQ ECs review. It is anticipated that the WEQ EC will vote on this recommendation during the February EC meeting in Phoenix, AZ. EnerNOC has stated, and will likely continue to state, that the standards fall short of what they believe was requested by ERC. The types of changes that EnerNOC would like to see would impact the design of the programs currently in place. The wholesale DR work group has stated that their understanding of the FERC Order was to provide as much granularity as possible. The work group stopped short of requiring the ISOs to modify their programs because they did not want to undermine the stakeholder process in place.

The wholesale energy efficiency group completed their recommendation on the Measurement and Verification of Energy Efficiency products. The wholesale energy efficiency recommendation was submitted for an informal comment period, which ended Monday, November 8. Comments were received from WPPI Energy, Westar Energy, EM&V Forum and the ISOs. The recommendation and comments were reviewed by the wholesale energy efficiency work group on Monday, November 15 and Thursday November 18 and several changes were made to the recommendation. The recommendation was voted out of the DSM-EE subcommittee meeting on December 1. It will be sent out for formal comments this week, with comments due January 14, 2010. It is anticipated that the WEQ EC will vote on this recommendation at the February EC meeting held in Phoenix, AZ.

RFP Status for the Electric Industry Registry: Ms. Cummings provided the update. On September 30, 2010, NAESB and OATI signed the contracting naming OATI as the Administrator of the Electric Industry Registry (EIR). The new Registry will provide a replacement to the existing NERC TSIN Registry. The Registry will be available to the industry in mid-2011 with training and parallel operations available prior to production release. These details will be made available to the industry well in advance of the release. OATI will provide the solution via the OATI webRegistry solution. Participation in the OATI webRegistry is intended for all electric entities with intentions of performing scheduling within North America. NAESB and OATI are currently finalizing a press release and a frequently asked questions document to provide more information to participants. NAESB and NERC worked collaboratively to select OATI. NAESB, NERC and OATI continue to work together collaboratively to ensure that product brought to market will meet the needs of the industry. It is hoped that OATI will complete a draft of the report that will serve as a "Frequently Asked Questions" shortly, after which a press release from all three organizations will be finalized.

Smart Grid Activities: Mr. Booe provided the update. The Smart Grid Standards Development Subcommittee addressing the requests from NIST related to Priority Action Plans 3, 4 and 9 completed its phase two effort on October 14 and voted out four wholesale recommendations and four retail recommendations for a formal comment period. The comment period for these recommendations ended on November 15, 2010. The subcommittee met on November 18, 2010 to review the comments and begin development of a set of late comments to be submitted to the WEQ and REQ Executive Committees. The subcommittee is scheduled to meet on December 9, 2010 to finalize this late set of comments. The WEQ EC and REQ EC will hold a single topic conference call to review the recommendation and comments followed by a single topic conference call to vote on all eight of the recommendations in 2011.

The subcommittee also has a conference call scheduled on December 10, 2010 with the OASIS Technical Committees leadership responsible for incorporating the NAESB phase two recommendations into the EMIX (PAP03), WS-Calendar (PAP04) and Energy Interoperation (PAP09) technical specifications. There have been concerns raised that the NAESB efforts may not be reflected in the work of other groups. This meeting is to ensure



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that the work of the NAESB subcommittee has been properly utilized as prescribed by the SGIP PAP process in the efforts underway by the OASIS Technical Committees. It is the responsibility of the SGIP Administrator to ensure that the work of one group is represented in the work other groups may undertake in extending the NAESB standards.

The Smart Grid Standards Subcommittee on Priority Action Plan 10 voted to post both the wholesale and retail Energy Usage Information Model recommendations for the 30 day formal comment period on August 31. After the formal comment period ended on September 30 the subcommittee met and developed a set of late comments for the WEQ and REQ ECs. The two ECs held a single topic review session on October 15 and a meeting to vote on the recommendations on October 22. During the meeting on October 22, the REQ EC voted to approve the REQ recommendation; however, the WEQ EC did not garner enough votes to make a determination on the WEQ recommendation. After a WEQ EC notational ballot period ending on October 29, the WEQ recommendation was approved and both the WEQ and REQ recommendations were submitted for ratification. On November 30, the recommendations were ratified, with no votes in opposition. On December 2 the SGIP PAP 10 working group adopted the NAESB final action and is currently in the process of closing the PAP 10.

As the NAESB Energy Usage Information Model proposes extensions to the IEC CIM model, there is the potential for additional work to be done as the IEC reviews and evaluates the NAESB standard and the CIM model and the SEP 2.0 model become more integrated. Currently differences between the two models are managed through extensions in the CIM model.

The Energy Services Provider Interface Task Force has continued to meet every two weeks to continue the development of a recommendation in response to REQ AP Item 9.e. The Task Force has a draft recommendation under development and is scheduled to have a complete draft by mid January 2011. This draft will then go out for an informal comment period in early February and should be finalized by the end of the 1<sup>st</sup> Quarter. The subcommittee continues to address an issue of including REST and/or Web Services technical implementations of the standard. This was an issue that was left unresolved in the development of the Open ADE specifications.

Update on Parallel Flow Visualization: Ms. York provided the update. The Business Practice Subcommittee began this project back in June, 2009 and has held several meetings to complete the final work product. In March of this year, both NAESB and NERC filed comments in conjunction with a FERC NOI related to transmission curtailment issues stating that each organization believed that the Parallel Flow Visualization project would help alleviate curtailment issues by improving the data that is sent to the Interchange Distribution Calculator and that a field test was scheduled to begin in November of this year to test the effectiveness of that new data feed. In July of this year, NERC, NAESB, and FERC discussed the importance of beginning the test in November and at that time, the BPS, in light of meeting those deadlines, developed an interim solution for the field test. The BPS would then continue to work on a final solution for the project. In October, the Executive Committee voted to approve the BPS recommendation and the standards were ratified by the WEQ membership as of today. NERC has begun the field test that is scheduled to run 12-18 months. Once the final PFV product is complete and approved on the NAESB side, it will be sent to NERC to become part of that field test. The BPS is continuing to work on the final product at this time. They have met 6 days in this quarter to work on permanent solution and have narrowed scope down to two options – one being flow gate allocation and the second a hybrid consisting of a “tag all non-firm” with generator prioritization methodology. The subcommittee is expecting to narrow these two options down to one during their February meeting and then begin to develop business practice standards for that option. Schedules call for that product to be voted out of Subcommittee for a 30-day formal comment period by end of 2<sup>nd</sup> quarter for 2011.

Update on Common Codes: Mr. Buccigross provided the review. The WEQ BPS began work on WGQ Annual Plan Item 7 addressing Common Location Codes in late November. The issue was brought forth to discuss the idea that the common location codes were potentially redundant, since this information is already being accurately provided through requirements to provide an entity’s proprietary code and fill out a lengthy location data field. Over the course of two meetings, the subcommittee discussed whether the common location codes currently in the NAESB standards added value. Although formal consensus has not been reached, the subcommittee is proceeding under the unopposed understanding that consensus may form in favor of eliminating the common location codes. To this end,



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several participants have agreed to meet as a task force to determine which standards in WGQ Version 2.0 should be modified to accomplish the removal. This task force will present its findings to the full subcommittee in early January, when it is expected that participants will determine a plan for modifications to support removal of the location common codes from NAESB standards and implementation guides. Discussion with FERC staff to explain the direction of the subcommittee, and ascertain FERC requirements and expectations regarding common codes will occur before any decisions are made.

### 6. Review, Discuss and Approve 2011 Annual Plans

2011 WGQ Annual Plan: Mr. Buccigross reviewed the [2011 WGQ Annual Plan](#). One minor modification was made to the plan. Mr. Desselle moved, seconded by Mr. Young, to approve the 2011 WGQ Annual Plan. The motion unanimously passed a simple majority vote.

2011 WEQ Annual Plan: Ms. York provided the review of the [2011 WEQ Annual Plan](#). Mr. True asked about the difference between item 1.b and provisional item 4. Mr. Desselle noted that footnote 3 explained the difference. After reviewing the two items, Ms. McQuade stated that she would address this item offline. She would contact PJM and Midwest ISO, as the footnote was specific to comments that were provided by them. She will see if they are comfortable with provisional item 4 being addressed in annual plan item 1.b, or if the footnote should be revised to better clarify the difference between the two items. Mr. True moved, seconded by Mr. Hurley to approve the 2011 WEQ Annual Plan. The motion unanimously passed a simple majority vote.

2011 Retail Annual Plan: Ms. McKeever provided the review of the [2011 Retail Annual Plan](#). Mr. Desselle moved, seconded by Mr. Cargas, to adopt the annual plan. The motion unanimously passed a simple majority vote.

### 7. Presentation on Data Privacy

[Ms. Zientara](#) and Mr. Hurley each provided a power point presentation on data access and privacy related to third parties. In Mr. Hurley's presentation he noted that the Smart Grid introduces several issues regarding data privacy and protection. Up to this point the data that operates the balancing of the bulk power system has largely been maintained by the energy providers. The Smart Grid introduces third parties, which introduces questions of reliability and integrity. The Smart Grid will also introduce very large amounts of data to store and maintain.

Ms. McQuade noted that one of the purposes of the Smart Grid was to introduce efficiency into the system. She asked how that was possible with petabytes of data. Mr. Hurley responded that the network cannot currently handle the level of traffic anticipated by Smart Grid applications.

Mr. Kruse asked what NAESB could do to increase awareness of these concerns in the industry. Ms. McQuade agreed NAESB should take steps to highlight these concerns and determine if there were other aspects that had not been taken into account that would address the increase in data traffic, need for data privacy and protection and that should be publicized.

Mr. Ellsworth asked if the jurisdictional issues were being addressed. Mr. Hurley noted that the federal government accelerated deployment by incentivizing investment in Smart Grid while standardization was underway. By deploying without a strong foundation of standards, there is a risk of a development of a patchwork of systems that might not be the compatible. It is a balancing act of speed of implementation in the market offset by some duplicative development and accompanying cost to bring about compatibility.

### 8. Old and New Business

Ms. McQuade stated that NAESB continues to have a good working relationship with FERC, NARUC and various state commissioners and remain in close communication.

Ms. McQuade noted that the [2011 Board of Directors meetings](#) would be held at the Houston Marriott North at Greenspoint. She also noted that a leadership seminar would be held February 24 and 25 in Las Vegas. More information on the seminar would be sent out shortly.



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### 9. Adjourn

The meeting adjourned at 12:10 pm Central.



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## 12. Board Attendance and Voting Record (Vacancies Omitted)

| <b>WGQ PRODUCERS SEGMENT</b>                        |  | <b>ATTENDANCE</b> |
|---|--|-------------------|
| Richard D. Smith                                    | Regulatory & Compliance Manager, Noble Energy Inc.   |                   |
| Mark Stultz   | Vice President – Policy and Regulatory Affairs, US America Gas and Power, BP Energy Company    |                   |
| Keith Sappenfield                                   | Regional Director – US Regulatory Affairs, EnCana Oil & Gas (USA), Inc.                        |                   |
| Randy E. Parker                                     | Global Regulatory Advisor, ExxonMobil Gas and Power Marketing Company                          | In Person         |
| Pete Frost  | Director – Regulatory Affairs, ConocoPhillips Gas and Power Marketing                          | In Person         |
| <b>WGQ PIPELINE SEGMENT</b>                         |  |                   |
| Cathie Legge  | Manager – Customer Service, Alliance Pipeline, LP  | In Person         |
| Bill Grygar   | Vice President, Panhandle Eastern Pipe Line  | In Person         |
| Susanna B. Barry                                    | Vice President – Commercial Operations, Tennessee Gas Pipeline Company                         | In Person         |
| Randy Young   | Vice President – Regulatory Compliance and Corporate Services, Boardwalk Pipeline Partners, LP | In Person         |
| Richard Kruse                                       | Senior Vice President, Spectra Energy Transmission   | In Person         |
| <b>WGQ LOCAL DISTRIBUTION COMPANY (LDC) SEGMENT</b> |  |                   |
| Craig Colombo                                       | Energy Trader III, Dominion Resources  | Phone             |
| Adrian Chapman                                      | Vice President – Regulatory Affairs & Energy Acquisition, Washington Gas                       |                   |
| Mike Novak  | Asst. General Manager, National Fuel Gas Distribution Corporation                              |                   |
| <b>WGQ END USERS SEGMENT</b>                        |  |                   |
| Valerie Crockett                                    | Senior Program Manager – Energy Markets & Policy, Tennessee Valley Authority                   | In Person         |
| Timothy W. Gerrish                                  | Director of Origination-Energy Marketing and Trading, Florida Power & Light                    |                   |
| Tina Burnett  | Natural Gas Resources Administrator, The Boeing Company  | In Person         |
| Lori-Lynn C. Pennock                                | Senior Fuel Supply Analyst, Salt River Project   | In Person         |
| Jim Templeton                                       | Principal, Comprehensive Energy Services   |                   |
| <b>WGQ SERVICES SEGMENT</b>                         |  |                   |
| Darilyn Jones                                       | Senior Vice President – Risk Control, Sequent Energy Management                                | Phone             |
| Rusty Braziel                                       | Managing Director, Bentek Energy, LLC  |                   |
| Marty Patterson                                     | Senior Vice President Commercial Services, American Midstream Partners, LP                     |                   |
| Paul Kahler   | Midstream Regulatory Advisor, Cenovus Energy Inc.  |                   |
| Lori Leeder   | Relationship Manager/Business Development – Asset Optimization, Vega Energy Partners, Ltd      |                   |



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## 12. Board Attendance and Voting Record (Vacancies Omitted)

### REQ SERVICE PROVIDERS/SUPPLIERS SEGMENT

|                |   |           |
|----------------|---|-----------|
| Wendell Miyaji | Senior Director – Systems, Comverge, Inc.                   | In Person |
| Jim Minneman   | Controller, PPL Solutions LLC                               |           |
| J Cade Burks   | Executive Vice President of ista                            |           |
| Austin Morris  | Managing Partner – Energy, SunGard Consulting Services, LLC |           |

### REQ UTILITIES SEGMENT

|                 |   |           |
|-----------------|---|-----------|
| David Koogler   | Director – State Regulation, Dominion Virginia Power                          | In Person |
| Dennis Derricks | Director Regulatory Policy and Analysis, Wisconsin Public Service Corporation |           |
| Ruth Kiselewich | Director – Demand Side Management Programs, Baltimore Gas & Electric Company  | Phone     |
| Debbie McKeever | Market Advocate, Oncor  | In Person |

### REQ END USERS/PUBLIC AGENCIES SEGMENT

|                 |   |           |
|-----------------|---|-----------|
| Kevin Cooney    | Managing Director – Energy, Navigant Consulting, Inc. | Phone     |
| James P. Cargas | Senior Assistant City Attorney, City of Houston       | In Person |

### WEQ TRANSMISSION SEGMENT

#### SUBSEGMENT

|                 |   |                |           |
|-----------------|---|----------------|-----------|
| Dan Klempel     | Director Transmission Regulatory Compliance, Basin Electric Power Cooperative | Muni/Coop      |           |
| Chuck Feagans   | Senior Manager, Reliability Policy, Tennessee Valley Authority                | Fed/State/Prov | Phone     |
| John E. Lucas   | Director – Transmission Policy and Services, Southern Company Transmission    | IOU            |           |
| Jill Horswell   | Director Transmission, Southern California Edison                             | at large       | Phone     |
| Edward J. Davis | Policy Consultant, Entergy Services, Inc.                                     | at large       | In Person |

### WEQ GENERATION SEGMENT

|                  |  |                |           |
|------------------|--|----------------|-----------|
| Douglas L. Curry | Administrator and CEO, Lincoln Electric System   | Muni/Coop      |           |
| Belinda Thornton | General Manager – Energy Origination, Tennessee Valley Authority   | Fed/State/Prov |           |
| Lou Oberski      | Director – Electric Market Policy, Dominion Resources Services, Inc.   | IOU            | Phone     |
| Wayne Moore      | Regulatory Affairs & Energy Policy Director and Compliance Officer – Generation, Southern Company Services, Inc. | IOU            | In Person |
| Brent Hodges     | Director – Strategy and Development, NRG Energy, Inc.  | at large       |           |
| Shah Hossain     | Senior Regulatory Specialist, Westar Energy, Inc.  | at large       | In Person |

### WEQ MARKETERS/BROKERS SEGMENT

|               |   |                |           |
|---------------|---|----------------|-----------|
| Roy True      | Manager of Regulatory and Market Affairs, ACES Power Marketing                                | Muni/Coop      | In Person |
| Jeff Ackerman | Manager – Colorado River Storage Project Energy Management and Marketing Office, Western Area | Fed/State/Prov |           |



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### 12. Board Attendance and Voting Record (Vacancies Omitted)

|   |   |           |           |
|---|---|-----------|-----------|
|   | Power Administration  |           |           |
| Gavin Cunningham  | Manager – FirstEnergy Solutions Corp.   | at large  | Phone     |
| Jack Cashin   | Senior Manager of Policy, Electric Power Supply Association (EPSA)  | at large  |           |
| Sam Forrest   | Vice President – Energy Marketing and Trading, Florida Power & Light  | IOU       |           |
| R. Scott Brown  | Vice President and Director, Exelon Generation Power Team   | IOU       | In Person |
| <b>WEQ DISTRIBUTION/LOAD SERVING ENTITIES (LSE) SEGMENT</b> |   |           |           |
| Arthur G. Fusco   | Vice President and General Counsel, Central Electric Power Cooperative Inc.   | Muni/Coop | Phone     |
| Paul McCurley   | Manager – Power Supply, National Rural Electric Cooperative Association   | Muni/Coop |           |
| Nelson Peeler   | Vice President System Operations, Duke Energy   | IOU       | In Person |
| Joe Hartsoe   | Managing Director – Federal Policy, American Electric Power Service Corp.   | at large  |           |
| Bruce Ellsworth   | New York State Reliability Council  | At-Large  | In Person |
| <b>WEQ END USERS SEGMENT</b>                                |   |           |           |
| Jesse D. Hurley   | Chief Executive Officer, Shift Research, LLC  | at large  | In Person |
| Aaron Breidenbaugh  | Senior Manager – Regulatory Affairs and Public Policy – New York, EnerNOC, Inc.   | at large  |           |
| Thomas G. Dvorsky   | Director of the Office of Electricity, Gas, and Water at the New York State Department of Public Service, rep. National Association of Regulatory Utility Commissioners | Regulator |           |
| Marie Pieniazek   | Consultant, Rep: Energy Curtailment Specialists, Inc.   | at large  |           |
| Rick Lentz  | Fellow with SunGard   | at large  | In Person |
| Michehl Gent  | Open Access Technology International, Inc.  | At-Large  | In Person |
| <b>WEQ INDEPENDENT GRID OPERATORS/PLANNERS</b>              |   |           |           |
| Michael Desselle  | Vice President Process Integrity, Southwest Power Pool  |           | In Person |
| Kent Saathoff   | Vice President of System Operations, ERCOT  |           |           |
| Kevin Kirby   | Vice President Market Operations, ISO New England, Inc.   |           | Phone     |
| Rana Mukerji  | Vice President Market Structures, New York Independent System Operator, Inc. (NYISO)  |           |           |
| Andy Ott  | Senior Vice President Marketing, PJM Interconnection, LLC   |           |           |
| Bill Phillips   | Vice President Standards Compliance & Strategy, Midwest ISO (MISO)  |           | In Person |
| Peter Sergejewich   | Director of Corporate Planning, Independent Electricity System Operator (IESO)  |           |           |



# North American Energy Standards Board

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## 12. Board Attendance and Voting Record (Vacancies Omitted)

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### WEQ TECHNOLOGY AND SERVICES

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|                   |  |           |
|-------------------|--|-----------|
| Jim Buccigross    | Vice President Energy Industry Practice, 8760 Inc.   | Phone     |
| Laurent M. Liscia | Executive Director, Organization for the Advancement of Structured Information Standards (OASIS)                           |           |
| David A. Wollman  | Leader, Smart Grid Team – Standards and Electrical Metrology Groups, National Institute of Standards and Technology (NIST) |           |
| Dr. Scott Coe     | Vice President, Utility Integration Solutions, Inc. (UISOL)  | In Person |

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### RGQ SERVICE PROVIDERS/SUPPLIERS SEGMENT

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|                |  |           |
|----------------|--|-----------|
| Leigh Spangler | President, Latitude Technologies Inc.  | In Person |
| Rick Vogel     | Vice President – Sales and Natural Gas Operations, Sierra Southwest Cooperative Services, Inc. |           |
| Dave Darnell   | President & CEO, Systrends USA   |           |
| Greg Lander    | President, Capacity Center   |           |

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### RGQ DISTRIBUTORS SEGMENT

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|                 |  |  |
|-----------------|--|--|
| Alonzo Weaver   | Vice President of Engineering and Operations, Memphis Light, Gas & Water Division (APGA) |  |
| Ralph Cleveland | Senior Vice President – Engineering and Operations, AGL Resources, Inc.                  |  |

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### RGQ END USERS/PUBLIC AGENCIES SEGMENT

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### 13. Other Attendance

| Name               | Organization                   | Attendance |
|--------------------|--------------------------------|------------|
| Jonathan Booe      | NAESB                          | In Person  |
| Bill Boswell       | NAESB                          | In Person  |
| Kathryn Burch      | Spectra Energy Transmission    | In Person  |
| Christopher Burden | Williams Gas Pipeline          | Phone      |
| James Culliton     | NAESB                          | Phone      |
| Cory Cummings      | NAESB                          | In Person  |
| Dale Davis         | Williams Gas Pipeline          | In Person  |
| Rufus Gladney      | Consumers Energy Company       | In Person  |
| Mark Gracey        | El Paso Gas Pipeline Company   | In Person  |
| Bill Griffith      | El Paso Natural Gas            | In Person  |
| Susan Munson       | ERCOT                          | In Person  |
| Rae McQuade        | NAESB                          | In Person  |
| Alan Pritchard     | Duke Energy                    | Phone      |
| Denise Rager       | NAESB                          | In Person  |
| Andy Rodriguez     | NERC                           | In Person  |
| Lisa Simpkins      | Constellation Energy Resources | Phone      |
| Ed Skiba           | Midwest ISO                    | In Person  |
| Veronica Thomason  | NAESB                          | In Person  |
| Kim Van Pelt       | Panhandle Eastern Pipeline     | In Person  |
| Jill Vaughn        | Preferred Legal Services       | In Person  |
| Charles Yeung      | SPP                            | In Person  |
| Kathy York         | Tennessee Valley Authority     | In Person  |
| Mary Zientara      | Reliant Energy                 | In Person  |



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**NORTH AMERICAN ENERGY STANDARDS BOARD**  
**2011 Annual Plan for the Wholesale Gas Quadrant Executive Committee**  
**As Approved by the Board of Directors on December 9, 2010**

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|  | <b>Item Description</b>   | <b>Completion<sup>1</sup></b> | <b>Assignment<sup>2</sup></b> |
|--|---|-------------------------------|-------------------------------|
| <b>1. Reorganize Standards Manuals for Ease of Use<sup>3</sup></b> |   |                               |                               |
| a.   | Develop a separate WGQ manual specifically for Informational Postings standards or, alternatively, add the Informational Postings standards to the Additional Standards manual to provide ease in implementation. ( <a href="#">Reorganize Standards Request</a> )<br>Status: Not Started   | 3 <sup>rd</sup> Q, 2011       | IR/Technical                  |
| b.   | Continue reordering of standards by topic and as future standards are added, standards continue to be ordered in topic format.<br>Status: Not Started   | 2012                          | IR/Technical                  |
| <b>2. Sample Paper Review<sup>3</sup></b>                          |   |                               |                               |
| a.   | Plan for the Review and Update Sample Papers and ASc X12 Samples for all data sets with the exception of the Offer – Standard No. 5.4.z1, Bid - Standard No. 5.4.z2, Award Download - Standard No. 5.4.z3 and the Operational Capacity - Standard No. 0.4.z1 and Unsubscribed Capacity - Standard No. 0.4.z2 data sets in Capacity Release to ensure consistency with the related data dictionaries. ( <a href="#">Sample Paper Review Request</a> )<br>Status: Not Started | 1 <sup>st</sup> Q, 2011       | IR/Technical                  |
| b.   | Execute Plan to Review and Update Sample Papers and ASc X12 Samples for all data sets with the exception of the Offer – Standard No. 5.4.z1, Bid - Standard No. 5.4.z2, Award Download - Standard No. 5.4.z3 and the Operational Capacity - Standard No. 0.4.z1 and Unsubscribed Capacity - Standard No. 0.4.z2 data sets in Capacity Release to ensure consistency with the related data dictionaries.<br>Status: Not Started  | Dependent on 2a               | IR/Technical                  |
| <b>3. Development of EBB Code Values<sup>3</sup></b>               |   |                               |                               |
| a.   | Plan for the review of code values and code value descriptions in all data sets to make them easier to understand on the TSPs' EBB web sites. ( <a href="#">EBB Code Request</a> )<br>Status: Not Started   | 2 <sup>nd</sup> Q, 2011       | IR/Technical                  |
| b.   | Execute the plan for the review code values and code value descriptions in all data sets to make them easier to understand on the TSPs' EBB web sites.<br>Status: Not Started   | Dependent on 3a               | IR/Technical                  |
| <b>4. Development of Error Code Standards<sup>3</sup></b>          |   |                               |                               |
| a.   | Plan for the development of meaningful error code values in all data sets to make them easier to understand on the TSPs' EBB web sites as compared to the X12 DISA error codes. ( <a href="#">Error Code Request</a> )<br>Status: Not Started   | 3 <sup>rd</sup> Q, 2011       | IR/Technical                  |
| b.   | Execute the plan for the development of meaningful error code values in all data sets to make them easier to understand on the TSPs' EBB web sites as compared to the X12 DISA error codes.<br>Status: Not Started  | Dependent on 4a               | IR/Technical                  |



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**NORTH AMERICAN ENERGY STANDARDS BOARD  
 2011 Annual Plan for the Wholesale Gas Quadrant Executive Committee  
 As Approved by the Board of Directors on December 9, 2010**

| Item Description   | Completion <sup>1</sup>               | Assignment <sup>2</sup> |
|--|---------------------------------------|-------------------------|
| <b>5. Electronic Delivery Mechanisms</b>   |                                       |                         |
| Review minimum technical characteristics in Appendices B, C, and D of the WGQ QEDM Manual, and make changes as appropriate.<br>Status: Not Started   | 3 <sup>rd</sup> Q, 2011               | EDM                     |
| <b>6. NAESB Base Contract Review and Update</b>  |                                       |                         |
| Review typical industry Special Provisions to the NAESB Base Contract for consideration to be integrated into the NAESB Base Contract. Review is to include corresponding updates to other related documents (e.g. Canadian Addendum, ISDA Amendment and Model Credit Support Addendum and Frequently Asked Questions) |                                       |                         |
| a. NAESB Base Contract review and update<br>Status: Pending start February 2011  | 3 <sup>rd</sup> Q, 2011               | Contracts Subcommittee  |
| b. Canadian Addendum, ISDA Amendment, Model Credit Support Addendum and Frequently Ask Questions review and update<br>Status: Pending start April 2011   | 3 <sup>rd</sup> Q, 2011               | Contract Subcommittee   |
| <b>7. Common Codes</b>   |                                       |                         |
| a. Determine if location common codes as formulated are needed.<br>Status: Underway  | 1st Q, 2011                           | BPS                     |
| b. If location common codes are needed, then determine if existing specifications are sufficient, or conversely, if not needed, develop plan for modifications to support removal of location common code from NAESB WGQ standards.<br>Status: Not Started   | Date dependent on annual plan item 7a | BPS                     |

**Program of Standards Maintenance & Fully Staffed Standards Work**

|   |              |                                 |
|---|--------------|---------------------------------|
| Business Practice Requests  | Ongoing      | Assigned by the EC <sup>4</sup> |
| Continue review against plan for migration to ANSI ASC X12 new versions as needed and coordinate such activities with DISA. | Ongoing      | ANSI X12 Subcommittee           |
| Information Requirements and Technical Mapping of Business Practices  | Ongoing      | Assigned by the EC <sup>3</sup> |
| Interpretations for Clarifying Language Ambiguities   | Ongoing      | Assigned by the EC <sup>3</sup> |
| Maintenance of Code Values and Other Technical Matters  | Ongoing      | Assigned by the EC <sup>3</sup> |
| Maintenance of eTariff Standards  | As Requested | Assigned by the EC <sup>3</sup> |

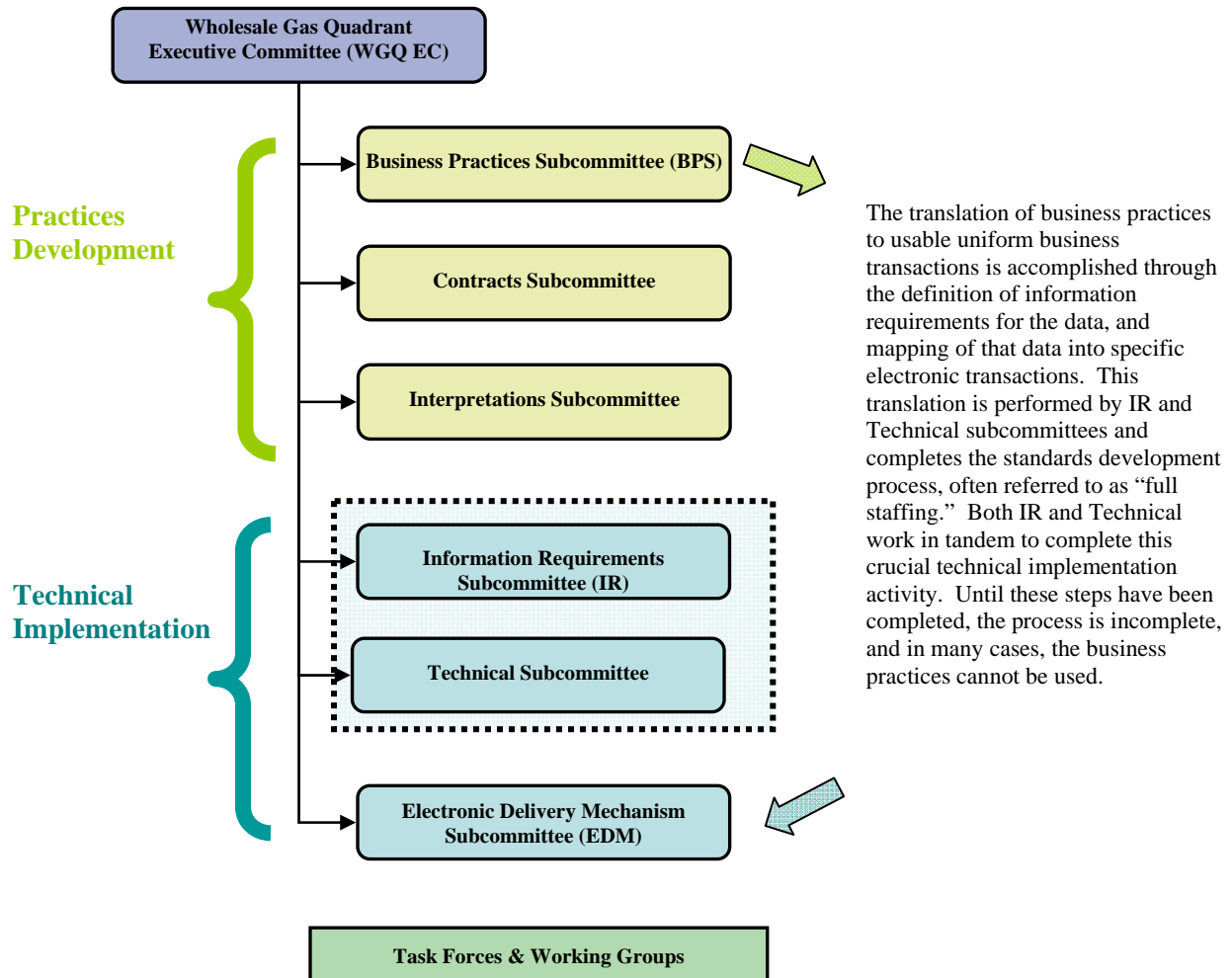
**Provisional Activities**

- Review and develop standards as needed related to [Docket No. RM11-1-000](#), Capacity Transfers on Intrastate Natural Gas Pipelines (Notice of Inquiry issued on October 21, 2010).



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## NAESB 2011 WGQ EC and Subcommittee Leadership:

Executive Committee: Jim Buccigross, Chair and Dale Davis, Vice-Chair  
Business Practices Subcommittee: Kim Van Pelt, Lori Lynn Pennock, Mike Novak and Richard Smith  
Information Requirements Subcommittee: Dale Davis  
Technical Subcommittee: Mike Stender, Kim Van Pelt  
Contracts Subcommittee: Keith Sappenfield  
Electronic Delivery Mechanism Subcommittee: Leigh Spangler, Christopher Burden  
Interpretations Subcommittee: Paul Love



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### End Notes, WGQ 2011 Annual Plan:

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

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

<sup>3 3</sup> As business issues are presented to the Information Requirements Subcommittee and Technical Subcommittee, those business issues will be given precedence over WGQ 2011 Annual Plan Item Nos. 1, 2, 3 and 4.

<sup>4</sup> The EC assigns maintenance of existing standards on a request-by-request basis.



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**NORTH AMERICAN ENERGY STANDARDS BOARD**  
**2011 ANNUAL PLAN for the RETAIL GAS and ELECTRIC QUADRANTS**  
 Approved by the Board of Directors on December 9, 2010 [With Proposed Changes from Retail Leadership](#)

| Item Number & Description <sup>1</sup>   | Completion <sup>2</sup>  | Assignment <sup>3,4</sup>               |
|--|--|---|
| 1. Develop Technical Electronic Implementation Standards and Data Dictionaries – Book 10: Customer Enrollment, Drop and Account Information Change   |  |   |
| a.. For the Distribution Company Registration Model Registration Agent Model<br>Status: Not Started  | 2011   | TEIS                                    |
| 2. Develop NAESB Certification checklist criteria for Retail Quadrants to be used in the NAESB Certification Program. The certification checklist may address test scripts, a checklist of items to be tested, data connectivity for test scripts and EDM testing.<br><br>Status: Not Started. Dependent upon publication of Version 2.0 at a minimum, but more dependent upon completion of Customer Choice efforts, expected 1 <sup>st</sup> Q 2011 at the earliest.   | 2 <sup>nd</sup> Q, 2011  | Ad Hoc EC<br>Certification Group        |
| 3. Review and develop business practices standards to Demand Response, Demand Side Management and Energy Efficiency Programs<br><br>Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program. The wholesale and retail demand response work groups and the Smart Grid Standards Subcommittees should actively and timely communicate and coordinate work products to ensure consistency between the three work groups. Each work group should take into account the work products developed by the other. |  |   |
| a. Develop glossary for business practice standards<br>Status: Ongoing   | Ongoing  | Joint WEQ/REQ<br>DSM Subcommittee       |
| b. Develop business practice standards used to measure and verify reductions in energy and demand from energy efficiency in wholesale and retail markets. <sup>5</sup> This includes developing business practice standards to measure and verify energy reductions for energy efficiency or a stand-alone Energy Efficiency Portfolio Standard.<br>Status: Underway   | 2 <sup>nd</sup> Q, 2011  | Joint WEQ/REQ<br>DSM-EE<br>Subcommittee |
| c. Develop business practice standards used to measure and verify reductions in energy and demand from energy efficiency in wholesale and retail markets. <sup>6</sup> This includes developing business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard.<br>Status: Not Started  | 4 <sup>th</sup> Q, 2011  | REQ DSM-EE<br>Subcommittee              |
| d. Harmonize DSM-EE glossary with Retail Glossary<br>Status: Ongoing   | Ongoing  | REQ/RGQ Glossary<br>Subcommittee        |
| 4. Overview of Retail Gas and Retail Electric Quadrant Procedures  |  |   |
| a. Develop process flows and online navigational aids to support the procedures and to be provided as Retail orientation materials.<br>Status: Not Started   | <span style="background-color: yellow;">2<sup>nd</sup>-3<sup>rd</sup></span> Q, 2011 BPS |   |



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| Item Number & Description <sup>1</sup>   | Completion <sup>2</sup>                      | Assignment <sup>3,4</sup> |
|--|--|---------------------------|
| 5. Additional Registration Agent Processes   |  |                           |
| a. Review all existing Model Business Practices to determine if there are other Registration Agent Model processes not covered, and develop a prioritized list of those processes, if any.<br>Status: Underway   | 2nd Q, 2011                                  | BPS                       |
| b. Develop Model Business Practices and Process Flows for those Registration Agent Model processes on the prioritized list developed in (a) above, if any.<br>Status: Underway   | 4 <sup>th</sup> Q, 2011                      | BPS                       |
| c. 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<br>Status: Underway   | 2011   | IR/TEIS                   |
| d. Develop Technical Electronic Implementation Standards and Data Dictionaries to support any Model Business Practices developed in (b) above<br>Status: Underway  | 2011   | IR/TEIS                   |
| 6. Supplier Certification<br>Develop practices to register/certify new Suppliers.<br>Status: Underway  | <b>1<sup>st</sup>-3<sup>rd</sup></b> Q, 2011 | BPS                       |
| 7. Supplier Marketing Practices<br>Develop Model Business Practices providing for a “Consumer Disclosure Statement” to be presented to residential and small commercial customers describing the Supplier’s service offering and related contract provisions. This statement would also identify how certain Supplier-Customer interactions are conducted.<br><br>Amongst the topics to be considered for inclusion on the statement would be the following: <ul style="list-style-type: none"> <li>• the most important terms of the Supplier agreement, such as the contract’s term and termination fee provisions;</li> <li>• training and identification of Supplier marketing representatives;</li> <li>• protocols for Supplier in-person and telephone contacts with customers;</li> <li>• added measures for protecting non-English speaking customers; and</li> <li>• Processes for handling customer complaints and resolving disputes arising from Supplier marketing activities.</li> </ul> Status: Underway | <b>1<sup>st</sup>-2<sup>nd</sup></b> Q, 2011 | BPS                       |



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| Item Number & Description <sup>1</sup>   | Completion <sup>2</sup>                                  | Assignment <sup>3,4</sup>  |
|--|--|--|
| 8 Develop Smart Grid Wholesale and Retail Electric Standards   |  |  |
| a. Harmonize Smart Grid glossary with Retail Glossary<br>Status: Underway  | Ongoing  | REQ/RGQ Glossary Subcommittee  |
| b. Develop standards to support PAP 10 – Standards Energy Usage Information  |  |  |
| i. Develop Information Model and related business practices – Phase 2, Harmonization with CIM and SEP 2.0<br>Status: Not Started, pending discussions with CIM and SEP 2.0   | 2011   | Joint WEQ/REQ PAP 10 SGS Subcommittee  |
| c. Develop standards to support inclusion of OpenADE requirements document into the NAESB Smart Grid standards ( <a href="#">R10008</a> ), specifically to standardize the exchange of Energy Usage Information.<br>Status: Underway   | <a href="#">1<sup>st</sup>-2<sup>nd</sup> Q.</a><br>2011 | REQ PAP 10 SGS Subcommittee<br>Energy Services Provider Interface Task Force |
| d. <a href="#">Develop retail electric model business practices for third party access to consumer smart grid data with considerations for data privacy practices those third parties should employ (R10012)</a><br>Status: Underway   | <a href="#">2<sup>nd</sup> Q.</a> 2011                   | <a href="#">REQ PAP 10 SGS Subcommittee Data Privacy Task Force</a>          |
| 9. 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<br>Status: Not Started, <a href="#">this development is tied to the development for item 8(d).</a> | <a href="#">3<sup>rd</sup>-2<sup>nd</sup> Q.</a><br>2011 | BPS  |
| 10. 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.  |  |  |
| a. Book 1 – Market Participant Interactions<br>Status: Not Started   | <a href="#">1<sup>st</sup>-2<sup>nd</sup> Q.</a> 2011    | BPS  |
| b. Book 2 – Creditworthiness<br>Status: Not Started  | 2 <sup>nd</sup> Q, 2011                                  | BPS  |
| c. Book 3 – Billing and Payments<br>Status: Not Started  | 3 <sup>rd</sup> Q, 2011                                  | BPS  |
| d. Book 4 – Distribution Company – Supplier Disputes<br>Status: Not Started  | 4 <sup>th</sup> Q, 2011                                  | BPS  |
| e. Book 8 – Customer Information<br>Status: Not Started  | 4 <sup>th</sup> Q, 2011                                  | BPS  |
| f. Book 9 – Customer Billing and Payment Notification via Uniform Electronic Transactions<br>Status: Not Started   | 2012   | BPS  |
| g. Book 10 – Customer Enrollment, Drop, and Account Information Change<br>Status: Not Started  | 2012   | BPS  |
| h. Book 11 - Customer Enrollment, Drop, and Account Information Change Using a Registration Agent  | 2012   | BPS  |



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| Item Number & Description <sup>1</sup>   | Completion <sup>2</sup> | Assignment <sup>34</sup> |
|--|-------------------------|--------------------------|
| Status: Not Started  |                         |                          |
| i. Book 12 – Customer Inquiries<br>Status: Not Started   | 2012                    | BPS                      |
| j. Book 14 – Service Request, Disconnection and Reconnection in the<br>Registration Agent Model<br>Status: Not Started | 2012                    | BPS                      |

**Program of Standards Maintenance & Fully Staffed Standards Work<sup>7</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:**

- Modify TPA as necessary.
- Review security standards as may be deemed necessary, such as Public Key Infrastructure (PKI).
- Review and update the technical implementation of Book 3 – Billing and Payment.
- Develop XML transactions to support customer choice programs.

**Retail Electric Quadrant Effort Only:**

- Retail Meter Data Validation, Editing & Estimating: Develop procedures for ensuring the integrity and validity of retail customer metering data that is needed by utilities and suppliers for billing, etc. Issues related to unbundled or competitive metering are not to be considered.
- Settlement Process: Reconcile energy schedules and energy delivered by suppliers within a given market. Note: will need to be coordinated with the WEQ for the REQ.
- Develop business practice standards for cap and trade programs for green house gas.

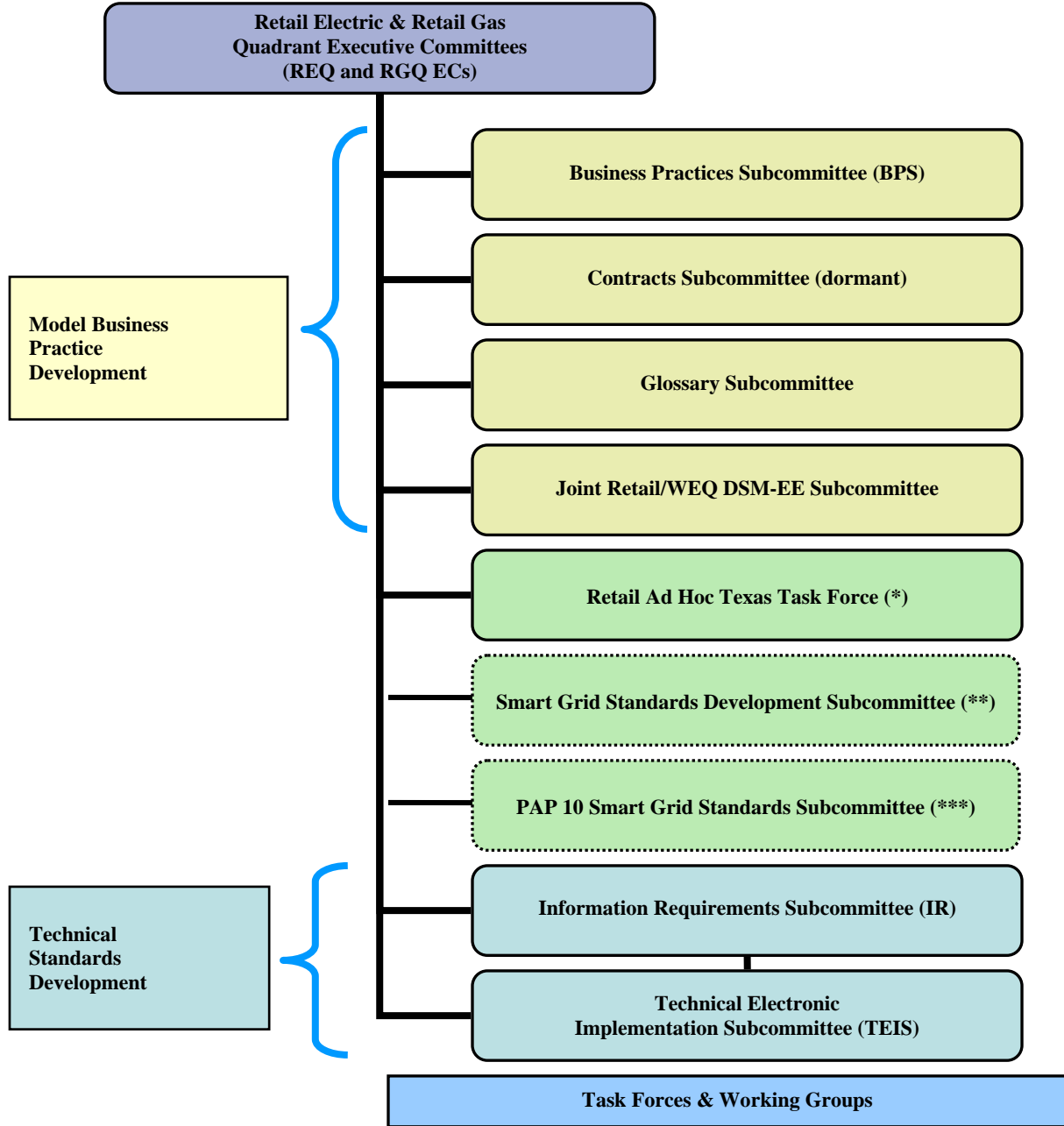
**Retail Gas Quadrant Effort Only:**

- Examine Wholesale Gas Quadrant Non-EDM Standards for applicability to retail business practices.
- Settlement Process: Reconcile energy schedules and energy delivered by suppliers within a given market.



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### NAESB Retail Subcommittee Leadership: <sup>8</sup>

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

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

Information Requirements Subcommittee: Jennifer Teel (REQ)

Technical Electronic Implementation Subcommittee: Julie Compton-Pellizzi (RGQ)

Glossary Subcommittee: Patrick Eynon (REQ)

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

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

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

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

(\*\*\*) The PAP 10 Smart Grid Standards Subcommittee is a joint group of the retail electric and wholesale electric quadrants with other standards development groups such as OASIS, UCAIug, OpenADE, ZigBee, ASHRAE, EIS Alliance, NARUC and includes other groups. Direction may be given from NIST, DoE or FERC and the group reports jointly to the NAESB Board Smart Grid Strategic Steering Committee and the REQ EC. The group is chaired by 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 2011 Annual Plan End Notes:

<sup>1</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>2</sup> Dates in the completion column are by end of the quarter for completion by the assigned committee. The dates do not necessarily mean that the standards are fully staffed to be implementable by the industry, and/or ratified by membership. If one item is completed earlier than planned, another item can begin earlier and possibly complete earlier than planned. There are no begin dates on the plan.

<sup>3</sup> The assignments are abbreviated. The abbreviations and committee structure can be found at the end of the annual plan document.

<sup>4</sup> The DSM-EE subcommittee has split into several separate groups to support concurrent development of separate standards sets.

<sup>5</sup> Energy efficiency may be a wholesale product, such as capacity. Energy efficiency in retail markets may be from individual energy efficiency measures at the project level or a portfolio of projects that make up an energy efficiency program.

<sup>6</sup> Energy efficiency may be a wholesale product, such as capacity. Energy efficiency in retail markets may be from individual energy efficiency measures at the project level or a portfolio of projects that make up an energy efficiency program.

<sup>7</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>8</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.



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| Item Description   | Completion <sup>1</sup>                           | Assignment <sup>2</sup> |
|--|---|-------------------------|
| <b>1 Develop business practices standards as needed to complement reliability standards</b>  |   |                         |
| Develop business practice standards to support and complement NERC reliability standards, NERC policies and NERC standards authorization requests (SARs) using the NERC/NAESB Coordination Joint Standards Development Process as appropriate. Current NAESB activities underway to develop business practice standards that are supportive of this annual plan item are:  |   |                         |
| a) Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection – Permanent Solution<br>Note: Consideration should be given to provisional item 4. Work is being coordinated with the NERC IDC Working Group.<br>Status: Started   | 2 <sup>nd</sup> Q, 2011                           | BPS                     |
| b) Perform consistency review of WEQ-008 Transmission Loading Relief Business Practice Standards and develop recommendation. <sup>1</sup>  | 4 <sup>th</sup> Q, 2011                           | BPS                     |
| c) DCS and AGC (BAL-002 and BAL-005) Coordination with NERC<br>Status: Monitor. (Will require coordination with Balancing Authority Reliability Based Controls Group created in July 2010 NERC Project 2010-14)  | TBD <sup>2</sup>                                  | TIMTF                   |
| d) Coordinate with NERC on the functional model glossary revisions <a href="#">NERC Project 2010-08</a>  | TBD   | SRS                     |
| e) <a href="#">Coordinate with NERC on changes to the definition of Bulk Electric System NERC Project 2010-17</a>  | <a href="#">TBD</a>                               | <a href="#">SRS</a>     |
| <b>2 Develop business practice standards in support of the FERC RM05-25-000 and RM05-17-000 (OATT Reform)<sup>2</sup></b>  |   |                         |
| a) Develop version 2 business practice standards to better coordinate the use of the transmission system among neighboring transmission providers.<br>Status: Underway<br>Request R050004 was expanded to include the <a href="#">Order No. 890 (Docket Nos. RM05-17-000 and RM02-25-000)</a> , ( <a href="#">Order No. 890-A (Docket Nos. RM05-17-001, 002 and RM05-25-001, 002)</a> ), and <a href="#">Order No. 890-B (Docket Nos. RM05-17-03 and RM05-25-03)</a> “Preventing Undue Discrimination and Preference in Transmission Services” |   |                         |
| i) Group 3: Network Service On OASIS <sup>3</sup>  |   |                         |
| 1) Use of OASIS to Make Electronic Requests to Designate and Terminate Network Resource<br>Status: Underway  | <del>1<sup>st</sup></del> 2 <sup>nd</sup> Q, 2011 | OASIS                   |

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

<sup>2</sup> FERC Order No. 890, issued February 16, 2007 can be accessed from the following link - [http://www.naesb.org/doc\\_view4.asp?doc=ferc021607.doc](http://www.naesb.org/doc_view4.asp?doc=ferc021607.doc)

<sup>3</sup> Several group 3 items may be removed from this plan if the 4<sup>th</sup> quarter completion dates are met.



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| Item Description  | Completion <sup>1</sup>                 | Assignment <sup>2</sup> |
|---|---|-------------------------|
| 2) Ability to Query Requests to Designate and Terminate Network Resources and Allow for Queries of All Information Provided with Designation Requests<br>Status: Underway | 2 <sup>nd</sup> 1 <sup>st</sup> Q, 2011 | OASIS                   |
| 3) Masking of Designated Network Resource Operating Restrictions and Generating Cost Information<br>Status: Underway  | 2 <sup>nd</sup> 1 <sup>st</sup> Q, 2011 | OASIS                   |
| 4) Procedural Requirements for Submitting Designations over new OASIS Functionality<br>Status: Underway   | 2 <sup>nd</sup> 1 <sup>st</sup> Q, 2011 | OASIS                   |
| 5) Specify How Designated Network Service Informational Postings are Posted on OASIS<br>Status: Underway  | 2 <sup>nd</sup> 1 <sup>st</sup> Q, 2011 | OASIS                   |
| 6) Develop standards for the treatment of OASIS Requests when the Customer Fails to Provide the Necessary Attestation<br>Status: Underway                                 | 2 <sup>nd</sup> 1 <sup>st</sup> Q, 2011 | OASIS                   |
| 7) Procedural Requirements for Submitting Both Temporary and Indefinite Terminations of Network Resources<br>Status: Underway   | 2 <sup>nd</sup> 1 <sup>st</sup> Q, 2011 | OASIS                   |
| 8) Procedures for Submitting and Processing Requests for Concomitant Evaluations of Transmission Requests and Temporary Terminations<br>Status: Underway                  | 2 <sup>nd</sup> 1 <sup>st</sup> Q, 2011 | OASIS                   |
| ii) Group 4: Pre-Emption; Request No. R05019  |   |                         |
| 1) Pre-Emption<br>Status: Not Started   | 3 <sup>rd</sup> Q, 2011                 | OASIS                   |
| 2) Request No. R05019<br>Status: Not Started  | 3 <sup>rd</sup> Q, 2011                 | OASIS                   |



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| Item Description  | Completion <sup>1</sup>                 | Assignment <sup>2</sup> |
|---|---|-------------------------|
| iii) Group 5: Paragraph 1377 <sup>4</sup> – Group 5 work should precede group 4 work <sup>3</sup>   |   |                         |
| 1) Paragraph 1377-Coordination of Requests Across Multiple Transmission Systems<br>Status: Underway, Scoping Group work product approved by the WEQ EC and sent to the OASIS Subcommittee.                      | 2 <sup>nd</sup> 1 <sup>st</sup> Q, 2011 | OASIS                   |
| 2) Re-Bid Of Partial Service across Multiple Transmission Providers' Systems<br>Status: Underway, Scoping Group work product approved by the WEQ EC and sent to the OASIS Subcommittee                          | 2 <sup>nd</sup> 1 <sup>st</sup> Q, 2011 | OASIS                   |
| 3) Group DNR requests from a system with point-to-point requests on other systems for synchronization<br>Status: Underway, Scoping Group work product approved by the WEQ EC and sent to the OASIS Subcommittee | 2 <sup>nd</sup> 1 <sup>st</sup> Q, 2011 | OASIS                   |

<sup>4</sup> Paragraph 1377 of FERC Order No. 890, issued February 16, 2007: The Commission agrees that transmission requests across multiple transmission systems should be coordinated by the relevant transmission providers. We will not, however, amend the pro forma OATT to require such coordination. Rather, we require transmission providers working through NAESB to develop business practice standards related to coordination of requests across multiple transmission systems. In order to provide guidance to NAESB, we will articulate the principles that should govern processing across multiple systems. All the transmission providers involved in a request across multiple systems should consider a request that requires studies across multiple systems to be a single application for purposes of establishing the deadlines for rendering an agreement for service, revising queue status, eliciting deposits and commencing service. In order to preserve the rights of other transmission customers with studies in the queue, the priority for the single application should be based on the latest priority across the transmission providers involved in the multiple system request. We note that regional entities like westTrans are already coordinating requests across multiple transmission systems and we believe such coordination is an acceptable solution to this issue.



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|     | <b>Item Description</b>  | <b>Completion<sup>1</sup></b> | <b>Assignment<sup>2</sup></b> |
|-----|--|-------------------------------|-------------------------------|
| iv) | Group 6: Miscellaneous (Paragraphs 1390 <sup>5</sup> and 1627 <sup>6</sup> of FERC Order No. 890)  |                               |                               |
|     | 1) Paragraph 1390 of Order 890 – Terminations related to: deficient requests, customer failure to pay required annual reservation fee, and customer modifications to applications which are meaningfully different.<br>Status: Not Started | 4 <sup>th</sup> Q, 2011       | OASIS                         |
|     | 2) Paragraphs 1627 of Order 890 – Posting of additional information on OASIS regarding firm transmission curtailments<br>Status: Not Started   | 4 <sup>th</sup> Q, 2011       | OASIS                         |
|     | 3) Redispatch Cost Posting to allow for posting of third party offers of planning redispatch services.<br>Status: Not Started  | 4 <sup>th</sup> Q, 2011       | OASIS                         |

<sup>5</sup> Paragraph 1390 of FERC Order No. 890, issued February 16, 2007: We will not modify the pro forma OATT to address requests to allow the transmission provider to terminate idle transmission service requests. NAESB's business practice 001-4.11 allows the transmission provider to retract a request if the transmission customer does not respond to an acceptance within the time established in NAESB business practice standard 001-4.13. Therefore, we interpret TDU Systems comments to refer to circumstances when a transmission customer fails to respond to the transmission provider's request for additional information during the course of a request study. As discussed above, by the time the transmission provider offers a system impact study agreement, it should have all of the information that it needs to complete the study. Pursuant to section 17.4 of the pro forma OATT, the transmission provider can deem a transmission service request deficient if the transmission customer does not provide all of the information the transmission provider needs to evaluate the request for service. We will revise section 17.7 of the pro forma OATT so that the transmission provider is able to terminate a request for transmission service if a transmission customer that is extending the commencement of service does not pay the required annual reservation fee within 15 days of notifying the transmission provider that it would like to extend the commencement of service. We will not change the pro forma OATT to allow the transmission provider to terminate a transmission service request if the transmission customer changes its application for service. We believe the existing pro forma OATT is sufficient to allow a transmission provider to manage situations where the transmission customer modifies its application for service to the point that the customer is requesting transmission service that is meaningfully different than its initial request.

<sup>6</sup> Paragraph 1627 of FERC Order No. 890, issued February 16, 2007: We agree with suggestions for the posting of additional curtailment information on OASIS and, therefore, require transmission providers, working through NAESB, to develop a detailed template for the posting of additional information on OASIS regarding firm transmission curtailments. Transmission providers need not implement this new OASIS functionality and any related business practices until NAESB develops appropriate standards. These postings must include all circumstances and events contributing to the need for a firm service curtailment, specific services and customers curtailed (including the transmission provider's own retail loads), and the duration of the curtailment. This information is in addition to the Commission's existing requirements: (1) when any transmission is curtailed or interrupted, the transmission provider must post notice of the curtailment or interruption on OASIS, and the transmission provider must state on OASIS the reason why the transaction could not be continued or completed; (2) information to support any such curtailment or interruption, including the operating status of facilities involved in the constraint or interruption, must be maintained for three years and made available upon request to the curtailed or interrupted customer, the Commission's Staff, and any other person who requests it; and, (3) any offer to adjust the operation of the transmission provider's system to restore a curtailed or interrupted transaction must be posted and made available to all curtailed and interrupted transmission customers at the same time.



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| Item Description   | Completion <sup>1</sup>                  | Assignment <sup>2</sup>         |
|--|--|---------------------------------|
| b) Develop the needed business practices to support existing Request No. <a href="#">R05004</a> : The processing of transmission service requests, which use TTC/ATC/AFC, in coordination with NERC changes to MOD 001 where the allocation of flowgate capability based on historical Network Native Load impacts the evaluation of transmission service requests, requiring the posting of those allocation values in conjunction with queries of service offerings on OASIS<br>Status: Underway | 2 <sup>nd</sup> 1 <sup>st</sup> -Q, 2011 | OASIS                           |
| <b>3 Develop business practices standards to improve the current operation of the wholesale electric market and develop and maintain business practice and communication standards for OASIS and Electronic Scheduling</b>   |  |                                 |
| a) Develop and/or maintain business practice standards as needed for OASIS and electronic scheduling. Specific items to address include:   |  |                                 |
| i) Network Services: Determine and develop needed business practice standards or other support is needed to support use of OASIS for Network Service transactions ( <a href="#">R04006E</a> ). (Related to AP 2(a)(iii) <sup>3</sup> – to discuss at the WEQ EC meeting on whether this item can be closed out.<br>Status: Underway  | 2 <sup>nd</sup> 1 <sup>st</sup> -Q, 2011 | OASIS                           |
| ii) Registry (TSIN): Determine and develop needed business practice standards to support the registry functions currently supported by NERC ( <a href="#">R04037</a> , <a href="#">R06027</a> ) and transition the TSIN Registry from NERC to NAESB as the enhanced Electric Industry Registry (EIR).<br>Status: Underway.   | 2 <sup>nd</sup> Q, 2011                  | NAESB/NERC Administration, JESS |
| iii) Make remaining incremental enhancements to OASIS as an outgrowth of the NAESB March 29, 2005 conference on the future of OASIS ( <a href="#">R05026</a> ).<br>Scoping <a href="#">statement</a> completed by SRS. There were a number of assignments from the Standards Request. The outstanding items are included below:  |  |                                 |
| 1) Eliminate Masking of TSR tag source and sink when requested status is denied, withdrawn refused, displaced, invalid, declined, annulled or retracted<br>Status: Not Started   | 2012                                     | OASIS                           |
| 2) Initiate standard that eliminates the disparity of posting “sensitive” information. This standard should also include procedures of user certification that allows access to this class of information.<br>Status: Underway (upon further development of this item by NAESB, a completion date will be determined)  | 2012                                     | OASIS                           |
| 3) Enhance the TSR result postings to allow showing of (i) limiting transmission elements and (ii) available generation dispatch options that would allow acceptance of reservation request.<br>Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)  | 2012                                     | OASIS                           |



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| Item Description   | Completion <sup>1</sup>                   | Assignment <sup>2</sup>                              |
|--|---|--|
| iv) Review and correct WEQ-004 Coordinate Interchange Business Practice Standard as needed based on activities in NERC Project 2008-12, Coordinate Interchange Standards Revisions and supporting EOP-002-2 R4 and R6.<br><br>Status: Underway_ Completion date dependent upon coordination activities with NERC, <u>and Project 2008-12 is likely delayed by NERC due to other higher priority development</u>  | <u>2011-2012</u>                          | JESS   |
| b) Develop and/or maintain standard communication protocols and cyber-security business practices as needed.   |   |  |
| i) Develop PKI certification program for e-Tag and OASIS<br>Status: Underway   | 3 <sup>rd</sup> Q, 2011                   | Board Certification Program Committee                |
| ii) Develop PKI standards for OASIS.<br>Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)  | 2012                                      | OASIS  |
| iii) Develop Industry Implementation Plan for meeting PKI Standard requirements for e-tagging.<br>Status: Underway. Full e-Tag implementation (server & client side) is linked to the transition of the Registry from NERC to NAESB and NAESB implementation.  | TBD – dependent on item above (i) and EIR | JESS   |
| <b>4 Review and develop business practices standards to Demand Response, Demand Side Management and Energy Efficiency Programs</b>   |   |  |
| Review and develop needed model business practices for a standardized method for quantifying benefits, savings, cost avoidance and/or the reduction in energy demand and usage derived from the implementation of demand side management and energy efficiency programs. This effort will include demand side response, energy efficiency programs and metering, including the 'curtailment service provider' program.   |   |  |
| a) Review the NAESB Business Practices for Measurement and Verification of Wholesale Electricity Demand Response (WEQ-015) in conjunction with the IRC developed Demand Response Matrix and identify business practice requirements that could be improved or made clearer through the addition of specific technical detail. The wholesale and retail demand response work groups and the Smart Grid Standards Subcommittees should actively and timely communicate and coordinate work products to ensure consistency between the three work groups. Each work group should take into account the work products developed by the other.<br>Status: Completed | Phase 2 – 4 <sup>th</sup> Q 2010          | WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee |
| b) For each performance evaluation type/service type combination identified in WEQ-015, using the IRC matrix as a starting point, assess and determine what standards or guidelines, if any, should be developed to aid all participants in the use of measurement and verification methods for demand response programs in organized wholesale electric markets. If the determination is made that standards or guidelines will be developed, those items will be added as sub-items to 4(b).<br>Status: Completed  | Phase 2 – 4 <sup>th</sup> Q 2010          | WEQ Section of the Joint WEQ/REQ DSM-EE Subcommittee |



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| Item Description   | Completion <sup>1</sup> | Assignment <sup>2</sup>  |
|--|-------------------------|--|
| c) Coordinate glossary updates for business practice standards with the Retail Electric Quadrant<br>Status: Ongoing  | Ongoing                 | Joint WEQ/REQ DSM Subcommittee and WEQ SRS and Retail Glossary |
| d) Develop business practice standards used to measure and verify reductions in energy and demand from energy efficiency in wholesale and retail markets. <sup>3</sup> This includes developing business practice standards to measure and verify energy reductions that are made to comply with a Renewable Portfolio Standard that included energy efficiency or a stand-alone Energy Efficiency Portfolio Standard<br>Status: The WEQ EE standards are completed. | 4 <sup>th</sup> Q, 2010 | Joint WEQ/REQ DSM-EE Subcommittee                              |
| <b>5 Maintain existing body of Version 2.x standards</b>   |                         |  |
| a) Make consistency changes to Version 2.2 standards as directed by the WEQ Leadership Committee on December 12, 2007 OASIS Consistency Changes (R08001, R08002, R08003, R08005)<br>Status: Not Started (upon initiation of this item by NAESB, a completion date will be determined)  | TBD                     | OASIS  |
| b) Consistent with ¶51 of FERC Order No. 890-A, add AFC and TFC values to the "System_Attribute" data element of the NAESB Standard WEQ-003: OASIS S&CP Data Dictionaries. (R08011)<br>Status: Not Started. This Standards Request was assigned to the OASIS in May 2008.  | TBD                     | OASIS  |
| c) Correct WEQ 013-2.6.7.2. – Resale off OASIS (R08027)<br>Status: Not Started   | TBD                     | OASIS  |
| d) Add language to WEQ-001-4 Online Negotiation and Confirmation process to clarify Table 4-3 (R09003)<br>Status: Not Started  | TBD                     | OASIS  |
| e) Create a new OASIS mechanism that allows for the merger of like reservations without the use of the resale mechanism (R09015)<br>Status: Not Started  | TBD                     | OASIS  |
| <b>6. Develop Smart Grid Wholesale and Retail Electric Standards -</b> The wholesale and retail demand response work groups and the Smart Grid task force should actively and timely communicate and coordinate work products to ensure consistency between the three work groups. Each work group should take into account the work products developed by the other.  |                         |  |
| a) Develop requirements and use cases for PAP 03 – Pricing Model Phase 2<br>Status: Completed  | 4 <sup>th</sup> Q, 2010 | Joint WEQ/REQ SGS Subcommittee                                 |
| b) Develop requirements and use cases for PAP 04 – Scheduling Model Phase 2<br>Status: Completed   | 4 <sup>th</sup> Q, 2010 | Joint WEQ/REQ SGS Subcommittee                                 |



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|---|--|---|
| c) Develop requirements and use cases for PAP 09 – Demand Response/Distributed Energy Resources Phase 2<br>Status: Completed  | 4 <sup>th</sup> Q, 2010                          | WEQ Section of the Joint WEQ/REQ SGS Subcommittee |
| d) Develop standards to support PAP 10 – Standards Energy Usage Information   |  |   |
| i) Develop Information Model and related business practices<br>Status: Complete   | 4 <sup>th</sup> Q, 2010                          | Joint WEQ/REQ PAP 10 SGS Subcommittee             |
| ii) Develop standards to support PAP 10 – Standards Energy Usage Information, Phase 2, Harmonization with CIM and SEP 2.0<br>Status: Not Started, pending discussions with CIM and SEP 2.0  | 2011   | Joint WEQ/REQ PAP 10 SGS Subcommittee             |
| <b>7. Develop or modify standards to Support <a href="#">FERC Order No. 676-E</a>, (Docket No. RM 05-5-013)</b>   |  |   |
| a) Review standards 001-14.1.3 and 001-15.1.2 based on FERC Order No. 676-E (See ¶ 39 <sup>7</sup> )<br>Status: Not Started   | <del>2<sup>nd</sup>-3<sup>rd</sup></del> Q, 2011 | OASIS   |
| b) Develop standards to support the Transmission Provider right to reassess the availability of conditional firm (See ¶ 72 <sup>8</sup> )<br>Status: Not Started  | <del>2<sup>nd</sup>-3<sup>rd</sup></del> Q, 2011 | OASIS   |
| c) Prepare status reports every six months regarding the development of standards for the coordination of transmission service requests across multiple transmission systems (See ¶ 105 <sup>9</sup> ). This annual plan item is tied to Annual Plan Item 2(a)(iii)<br>Status: Underway – first report filed. | Ongoing  | NAESB Office                                      |

<sup>7</sup> 39. In regards to Entergy’s question of whether the transmission provider’s calculated and posted available flowgate capability values should be used to fulfill the posting requirements set forth in Standard 001-14 and 001-15 in instances where there is no requirement to convert this calculation to available transfer capability values, we agree with Entergy that this requirement can be met by the transmission provider posting its available flowgate capability values. As to EPSA’s argument that Standard 001-15 falls short of the goals of Order No. 890, we find that, with the exception of Standard 001-15.1.2, compliance with Standard 001-15 provides all of the information required by Order No. 890. However, Standards 001-14.1.3 and 001-15.1.2 permit transmission providers to post an available transfer capability change narrative within five business days of meeting the criteria under which a narrative is required to be posted. In Order No. 890, the Commission rejected calls for delays prior to posting data and required posting as soon as possible. We do not find the NAESB standard meets this criterion and therefore decline to incorporate Standards 001-14.1.3 and 001-15.1.2 by reference. Transmission providers must post their narratives as soon as feasibly possible. Posting within one day would appear in most cases to be reasonable.

<sup>8</sup> 72. However, we reiterate here the Commission’s finding in Order No. 890 that a transmission provider is permitted to extend its right to reassess the availability of conditional firm service. Since the Version 002.1 Standards do not specifically address this issue, we would ask the industry, working through NAESB, to continue to look at additional business practice standards facilitating a transmission provider’s extension of its right to perform a reassessment

<sup>9</sup> 105. We agree that insufficient progress has been made on this issue. While we acknowledge that development of standards addressing this issue is included in NAESB’s 2009 WEQ Annual Plan, we nevertheless urge NAESB to address this issue as



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soon as possible. Accordingly, we request that NAESB provide the Commission with a status report concerning its progress on this issue every six months, counting from the date this final rule is published in the Federal Register, until NAESB's adoption of the applicable standard(s).



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**NORTH AMERICAN ENERGY STANDARDS BOARD**  
**2011 ANNUAL PLAN for the WHOLESALE ELECTRIC QUADRANT**  
**Approved by the Board of Directors on December 9, 2010 with Redlined Changes from WEQ Leadership**

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## PROVISIONAL ITEMS

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- 1 Develop and or modify business practices related to support of NERC effort on the NERC Resources and Transmission Adequacy (Project 2009-05 Resource Adequacy Assessment).
- 2 Develop business practices for allocating capacity among requests received during a submittal window Order 890-A ([Docket Nos. RM05-17-001, 002 and RM05-25-001, 002](#) - Paragraph 805)<sup>10</sup>.
- 3 Determine any needed NAESB action in support of the Interchange Distribution Calculator (IDC) and develop any necessary standards.
- 4 Prepare recommendations for future path for TLR<sup>11</sup> (Phase 2) in concert with NERC, which may include alternative congestion management procedures<sup>4</sup>. Work on this activity is dependent on completing 2010 WEQ Annual Plan 1.a (Parallel Flow Visualization/Mitigation for Reliability Coordinators in the Eastern Interconnection - Phase 1).
- 5 Develop complementary standards that align with NERC Project 2008-01 Voltage and Reactive Control, for which a white paper is expected after the SAR is authorized to proceed by the NERC Standards Committee.
- 6 Determine NAESB action needed to support FERC Action Plan for Smart Grid Technology.
- 7 Develop business practice standards for cap and trade programs for green house gas
- 8 Conduct assessment to determine if Electric Industry Requirements documented in WEQ-011 Gas / Electric Coordination should be considered reliability requirements and transition to NERC.
- 9 Develop needed business practice standards for organization/company codes for NAESB standards – and address current issues on the use of DUNs numbers. Common code usage is linked to the transition of the Registry from NERC to NAESB.
- 10 Review the need for, and develop standards where appropriate, in response to issues raised by FERC's National Action Plan on Demand Response.
- 11 Develop, modify or delete business practices to support Time Error and Inadvertent (BAL-004 and BAL-006) resulting from the NERC field test under NERC project (NERC Project 2010-14).
12. Coordinate standards development with the NERC Balancing Authority Reliability Based Controls Standards Drafting Team (BARCSDT- created in July 2010) regarding DCS and AGC (BAL-002 and BAL-005) which may require changes to NAESB WEQ standards.

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<sup>10</sup> 805. The Commission recognizes that developing methods to allocate capacity among requests received during a submittal window may require detailed procedures, particularly when transmission requests received simultaneously exceed available capacity. As the Commission explained in Order No. 890, however, we believe that each transmission provider is in the best position to develop allocation procedures that are suitable for its system. This does not preclude transmission providers from working through NAESB to develop standardized practices, as suggested by Southern. For example, as we pointed out in Order No. 890, allocation methods such as that used by PJM to allocate monthly firm point-to-point transmission service could provide useful guidance in developing general allocation procedures.

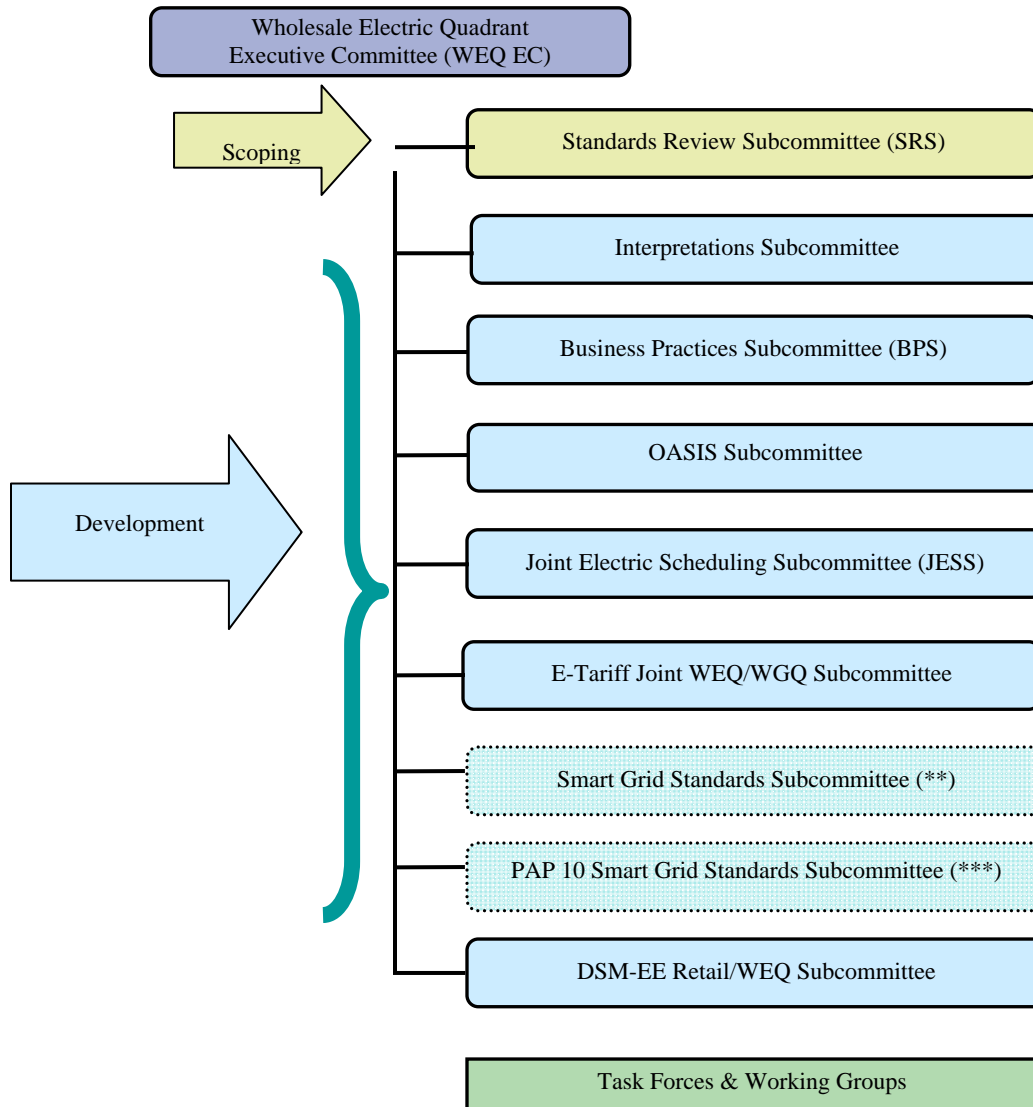
<sup>11</sup> Phase 2 of the Parallel Flow Visualization looks at developing options for and reporting of the most cost effective alternatives to achieve curtail obligations assigned during Phase 1.”



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## WHOLESALE ELECTRIC QUADRANT EXECUTIVE COMMITTEE AND SUBCOMMITTEE STRUCTURE



### NAESB WEQ EC and Subcommittee Leadership:

Executive Committee (EC): Kathy York (Chair) and [James Castle \(Vice Chair\)](#)

Standards Review Subcommittee (SRS): Narinder Saini, Ed Skiba

Interpretations Subcommittee: Ed Skiba

Business Practices Subcommittee (BPS) & Time and Inadvertent Management Task Force (TIMTF): Ed Skiba

[Narinder Saini](#)

Open Access Same Time Information System (OASIS) Subcommittee (OS): Paul Sorenson, J.T. Wood, Alan Pritchard

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

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

Demand Side Management-Energy Efficiency (DSM-EE) REQ/WEQ Subcommittee: Ruth Kiselewich and David Koogler (REQ), Roy True and Paul Wattles (WEQ)

(\*\*) The Smart Grid Standards Subcommittee is a joint group of the retail electric and wholesale electric quadrants with other

2011 WEQ Annual Plan approved by the Board of Directors on December 9, 2010 with Redlined Changes from WEQ Leadership



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standards development groups such as OASIS (Organization for the Advancement of Structured Information Standards, not Open Access Same Time Information Systems related to NAESB standards and FERC actions), CalConnect, FIX and UCAIug, among others. Direction may be given from NIST, DoE or FERC and the group reports jointly to the NAESB Board Smart Grid Strategic Steering Committee and the WEQ and REQ ECs. The group is chaired by Joe Zhou, Wayne Longcore and Robert Burke.

(\*\*\*) The PAP 10 Smart Grid Standards Subcommittee is a joint group of the retail electric and wholesale electric quadrants with other standards development groups such as OASIS, UCAIug, OpenADE, ZigBee, ASHRAE, EIS Alliance, NARUC and includes other groups. Direction may be given from NIST, DoE or FERC and the group reports jointly to the NAESB Board Smart Grid Strategic Steering Committee and the WEQ and REQECs. The group is chaired by Phil Precht, Cathy Wesley, Sharon Dinges, David Kaufman, Brad Ramsay, Tobin Richardson and Ed Koch.



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### End Notes WEQ 2011 Annual Plan:

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

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

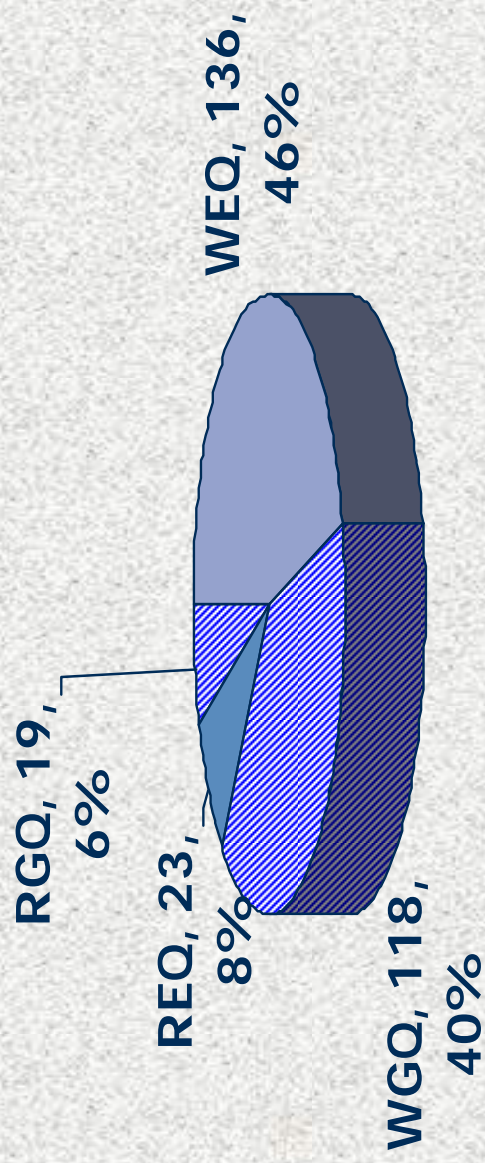
<sup>3</sup> Energy efficiency may be a wholesale product, such as capacity. Energy efficiency in retail markets may be from individual energy efficiency measures at the project level or a portfolio of projects that make up an energy efficiency program.

<sup>4</sup> For additional information, please see comments submitted by PJM and Midwest ISO for this Annual Plan Item:  
[http://www.naesb.org/pdf3/weq\\_aplan102907w1.pdf](http://www.naesb.org/pdf3/weq_aplan102907w1.pdf).

# North American Energy Standards Board Organizational Profile

## Membership Profile

March 10, 2011



Total Membership  
296

| Quadrant Statistics | WEQ | WGO | REQ | RGQ | Total |
|---------------------|-----|-----|-----|-----|-------|
| Membership YE 2010  | 138 | 122 | 22  | 19  | 301   |
| Reclassification    | 0   | 0   | 0   | 0   | 0     |
| Net Change          | -2  | -4  | +1  | 0   | -5    |
| Membership YTD      | 136 | 118 | 23  | 19  | 296   |

**NAESB Membership Statistics – Changes by Quadrant for 2011 as of March 10, 2011**

| <b>NAESB Membership Report - Quadrant/Segment Membership Analysis</b> |                                     | <b>Number of Members</b> |
|---|-------------------------------------|--------------------------|
| <b>WGQ Segments</b>   | <b>TOTAL</b>                        | <b>118</b>               |
|   | End Users                           | 16                       |
|   | Distributors                        | 18                       |
|   | Pipelines                           | 42                       |
|   | Producers                           | 11                       |
|   | Services                            | 31                       |
| <br>  |                                     |                          |
| <b>REQ Segments</b>   | <b>TOTAL</b>                        | <b>23</b>                |
|   | End Users/Public Agencies           | 8                        |
|   | Utilities                           | 7                        |
|   | Service Providers/Suppliers         | 8                        |
| <br>  |                                     |                          |
| <b>RGQ Segments</b>   | <b>TOTAL</b>                        | <b>19</b>                |
|   | End Users/Public Agencies           | 1                        |
|   | Distributors                        | 6                        |
|   | Service Providers/Suppliers         | 12                       |
| <br>  |                                     |                          |
| <b>WEQ Segments</b>   | <b>TOTAL</b>                        | <b>136</b>               |
|   | End Users                           | 8                        |
|   | Distributors                        | 20                       |
|   | Transmission                        | 46                       |
|   | Generation                          | 22                       |
|   | Marketers                           | 25                       |
|   | None Specified                      | 1                        |
|   | Independent Grid Operators/Planners | 9                        |
|   | Technology /Services                | 5                        |

North American Energy Standards Board Membership List  
As of March 10, 2011

|       |   |   |
|-------|---|---|
| WEQ   | New Members: 1-Nalcor Energy (Marketers/Brokers, Fed/State/Prov)  | 1 |
|       | Member Resignations: 1-Modesto Irrigation District (Transmission, Muni/Coop); 2-American Wind Energy Association (Generation, Muni/Coop); 3-Electric Power Supply Association (Marketers/Brokers, At Large)               | 3 |
| WGQ   | New Members:  | 0 |
|       | Member Resignations: 1-National Fuel Gas Distribution (LDC); 2-HighMount Exploration & Production, LLC (Producer); 3-Southern Natural Gas Co. (Pipeline), 4-Reliance Gas Transportation Infrastructure Limited (Pipeline) | 4 |
| REQ   | New Members: 1-Honeywell International Inc. (End Users/Public Agencies)   | 1 |
|       | Member Resignations:  | 0 |
| RGQ   | New Members:  | 0 |
|       | Member Resignations:  | 0 |
| TOTAL | New Members:  | 2 |
|       | Member Resignations:  | 7 |

North American Energy Standards Board Membership List  
As of March 10, 2011

|  | Organization   | Seg <sup>1</sup> | Contact  | Sub-Seg <sup>2</sup> |
|--|--|------------------|--|----------------------|
| <b>Retail Electric Quadrant Members:</b> |  |                  |  |                      |
| 1  | Alabama Power  | u                | Judy W. Ray  |                      |
| 2  | Ameren Services Company                                  | u                | Patrick Eynon  |                      |
| 3  | Baltimore Gas & Electric Co.                             | u                | Ruth Kiselewich, Phil Precht   |                      |
| 4  | City of Houston  | e                | James P. Cargas  |                      |
| 5  | Comverge, Inc.   | s                | Wendell Miyaji   |                      |
| 6  | Dominion Retail  | s                | William Barkas, Richard Zelenko  |                      |
| 7  | Dominion Virginia Power                                  | u                | Brandon Stites   |                      |
| 8  | Electric Reliability Council of Texas (ERCOT)            | s                | Susan Munson   |                      |
| 9  | Exelon Energy Delivery                                   | u                | Toni Garza   |                      |
| 10                                       | Honeywell International, Inc.                            | e                | Steve Gabel  |                      |
| 11                                       | ista   | s                | Judy Bailey, J. Cade Burks, Jennifer Teel  |                      |
| 12                                       | Maryland Public Service Commission                       | e                | Dan Norfolk  |                      |
| 13                                       | National Association of Regulatory Utility Commissioners | e                | James Bradford Ramsay  |                      |
| 14                                       | Navigant Consulting, Inc.                                | e                | Kevin Cooney   |                      |
| 15                                       | Oncor  | u                | Larry Williford, Debbie McKeever   |                      |
| 16                                       | Pennsylvania Office Of Consumer Advocate                 | e                | Tanya J. McCloskey, Sonny A. Popowsky  |                      |
| 17                                       | Pennsylvania Public Utility Commission                   | e                | Robert F. Wilson, Annunciata E. Marino   |                      |
| 18                                       | PPL Solutions, LLC                                       | s                | James M. Minneman, Kim Wall  |                      |
| 19                                       | Public Utilities Commission of Ohio                      | e                | Christopher Kotting  |                      |
| 20                                       | Southern Company Services                                | s                | Barbara Hingst   |                      |
| 21                                       | SunGard Consulting Services, LLC                         | s                | Austin Morris  |                      |
| 22                                       | Ventyx, Inc.   | s                | Nathan Chang   |                      |
| 23                                       | Wisconsin Public Service Corporation                     | u                | Dennis Derricks, Ken Thiry   |                      |
| <b>Wholesale Gas Quadrant Members:</b>   |  |                  |  |                      |
| 1  | 8760, Inc.   | s                | Jim Buccigross   |                      |
| 2  | Accenture, LLP   | s                | Jeff Miers   |                      |
| 3  | AGL Resources Inc  | l                | Ralph Cleveland  |                      |
| 4  | Alliance Pipeline LP                                     | pl               | Cathie Legge, Brian Troicuk  |                      |
| 5  | Ameren Corporation                                       | l                | Scott Glaeser, Ken Dothage, Jim Massmann   |                      |
| 6  | American Midstream Partners, LP                          | s                | Marty Patterson  |                      |
| 7  | ANR Pipeline Company                                     | s                | Sandy Meyers, Joseph E. Polland, Rene Staeb, Debbie Forth, Carol Wehlmann, Radha Raman |                      |

<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)

North American Energy Standards Board Membership List  
As of March 10, 2011

|    | <b>Organization</b>   | <b>Seg<sup>1</sup></b> | <b>Contact</b>   | <b>Sub-Seg<sup>2</sup></b> |
|----|---|------------------------|--|----------------------------|
| 8  | Arizona Public Service Company                                | e                      | Tom Carlson, Kelly Daly  |                            |
| 9  | Atmos Energy  | pl                     | Steve Easley   |                            |
| 10 | Ballard Natural Gas, LLC                                      | s                      | Susan Thibodeaux   |                            |
| 11 | Baltimore Gas & Electric Co.                                  | l                      | Phil Precht  |                            |
| 12 | Barclays Bank PLC   | s                      | Guy Kern-Martin  |                            |
| 13 | Bentek Energy, LLC  | s                      | E. Russell Braziel   |                            |
| 14 | BG Energy Merchants, LLC                                      | s                      | Martha Braddy, Susan Bailey, David Buckley,<br>Victoria Versen   |                            |
| 15 | Boardwalk Pipelines, LP                                       | pl                     | Randy Young, Mitch Whitehead   |                            |
| 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 | Cenovus Energy, Inc.  | s                      | Paul Kahler  |                            |
| 22 | CenterPoint Energy Gas Services, Inc.                         | s                      | James G. Beste, Larry Kunkle   |                            |
| 23 | CenterPoint Energy Gas Transmission Company                   | pl                     | Cindy Suarez, Larry Thomas   |                            |
| 24 | CenterPoint Energy Mississippi River Transmission Corporation | pl                     | Cindy Suarez, Robert Trost   |                            |
| 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 | Comprehensive Energy Services                                 | e                      | Jim Templeton  |                            |
| 33 | ConocoPhillips Gas and Power                                  | pr                     | Peter Frost  |                            |
| 34 | Consolidated Edison Company of NY                             | l                      | Scott Butler, Paul Olmsted   |                            |
| 35 | Constellation Energy Commodities Group Inc.                   | s                      | Lisa Simpkins, Joseph Kirwan, Andrea Kullman,<br>Jennifer Scott, Stephen C. Knapp                                      |                            |
| 36 | Dauphin Island Gathering Partners                             | pl                     | Katie Rice   |                            |
| 37 | DB Energy Trading   | s                      | William Donnelly, Travis McCullough  |                            |
| 38 | Defense Logistics Agency Energy                               | e                      | Veronica Jones, Kevin Ahern  |                            |
| 39 | Department of Energy  | e                      | Christopher Freitas  |                            |
| 40 | Devon Energy Corporation                                      | pr                     | Bill Green, Dianne Dunbar  |                            |
| 41 | Dominion Resources  | l                      | Craig Columbo  |                            |
| 42 | Dominion Transmission, Inc.                                   | pl                     | Gary Sypolt, Ron Tomlinson   |                            |
| 43 | DTE Energy Trading, Inc.                                      | s                      | Gregory V. Staton, James Buck, Dena Crawford,<br>Marcia L. Hissong, Ann Marie Jambor, Cynthia<br>Klots, Shelley Greene |                            |
| 44 | Eastern Shore Natural Gas Company                             | pl                     | Elaine B. Bittner  |                            |
| 45 | El Paso Exploration & Production Company                      | pr                     | Stephanie Karm   |                            |

North American Energy Standards Board Membership List  
As of March 10, 2011

|    | <b>Organization</b>   | <b>Seg<sup>1</sup></b> | <b>Contact</b>                                   | <b>Sub-Seg<sup>2</sup></b> |
|----|---|------------------------|--|----------------------------|
| 46 | El Paso Natural Gas   | pl                     | William Griffith                                 |                            |
| 47 | Enbridge (U.S.) Inc.  | pl                     | Brad Petzold                                     |                            |
| 48 | EnCana Marketing (USA) Inc.   | s                      | Keith Sappenfield                                |                            |
| 49 | EnCana Oil & Gas (USA) Inc.   | pr                     | Keith Sappenfield                                |                            |
| 50 | Energy Transfer Partners, L.P.  | pl                     | Josie Castrejana, Miki Kolobara                  |                            |
| 51 | Entergy Services, Inc.  | e                      | Laura Berryman, Terry Shields                    |                            |
| 52 | Enterprise Products Partners L.P.   | pl                     | Jeff Molinaro                                    |                            |
| 53 | Equitrans, LP   | pl                     | Joseph M. Dawley                                 |                            |
| 54 | ExxonMobil Gas & Power Marketing Company a<br>division of Exxon Mobil Corporation | pr                     | Randy E. Parker, John W. Poe                     |                            |
| 55 | Florida Power & Light Company   | e                      | Tim Gerrish, Art Morris                          |                            |
| 56 | Gas Transmission Northwest Corp.  | pl                     | Joseph Pollard                                   |                            |
| 57 | Golden Pass Pipeline, LLC   | pl                     | Vickie Long                                      |                            |
| 58 | Great Lakes Gas Transmission  | pl                     | Joseph Pollard                                   |                            |
| 59 | Iberdrola USA Management Corporation  | l                      | Mark Marini                                      |                            |
| 60 | Imperial Irrigation District  | e                      | Susie Carrillo                                   |                            |
| 61 | Integrus Energy Group, Inc.   | l                      | David E. Wear                                    |                            |
| 62 | Iroquois Gas Transmission System  | pl                     | Tom Gwilliam                                     |                            |
| 63 | JP Morgan Ventures Energy Corp  | S                      | Paul Tramonte                                    |                            |
| 64 | Kern River Gas Transmission Co  | pl                     | Brenda Horton                                    |                            |
| 65 | Laclede Gas Co.   | l                      | Kenneth Neises                                   |                            |
| 66 | Latitude Technologies   | s                      | Leigh Spangler                                   |                            |
| 67 | Louis Dreyfus Energy Services   | s                      | Jennifer Farris, W. Scott Harwood                |                            |
| 68 | Lower Colorado River Authority  | e                      | Mickey Bell                                      |                            |
| 69 | Macquarie Cook Energy, LLC  | s                      | Angela Jones                                     |                            |
| 70 | Marathon Oil Company  | pr                     | Robin Perrine                                    |                            |
| 71 | Mewbourne Oil Company   | pr                     | Michael F. Shepard                               |                            |
| 72 | National Fuel Gas Supply Corp.  | pl                     | Deborah Kupczyk                                  |                            |
| 73 | National Grid Gas Distribution Companies  | l                      | Bob Superty                                      |                            |
| 74 | Natural Gas Pipeline Co of America  | pl                     | Paul Love, Stan Thomas, Mike Schisler, Paul Haas |                            |
| 75 | Nexen Marketing   | s                      | Deb Strang, Sharron Roberts                      |                            |
| 76 | NextEra Energy Power Marketing, LLC   | e                      | Marty Jo Rogers                                  |                            |
| 77 | NiSource, Inc.  | l                      | George Simmons, Sorana Linder                    |                            |
| 78 | Noble Americas Corp   | pl                     | Joseph Limone                                    |                            |
| 79 | Noble Energy, Inc.  | pr                     | Richard Smith, Tammy M. Stevens                  |                            |
| 80 | Northern Border Pipeline Company  | pl                     | Joseph Pollard                                   |                            |
| 81 | Northern Natural Gas  | pl                     | Nancy A. Hetrick                                 |                            |
| 82 | Northwest Natural Gas Company   | l                      | Randolph Friedman                                |                            |
| 83 | NOVA Gas Transmission Ltd.  | pl                     | Doug Miller                                      |                            |
| 84 | OGE Energy Resources, Inc.  | s                      | Cary Metz  |                            |
| 85 | ONEOK   | l                      | Richard Tangeman                                 |                            |
| 86 | ONEOK Partners GP, LLC  | pl                     | Teri Tingler, Lisa Nishimuta                     |                            |

North American Energy Standards Board Membership List  
As of March 10, 2011

|     | <b>Organization</b>  | <b>Seg<sup>1</sup></b> | <b>Contact</b>   | <b>Sub-Seg<sup>2</sup></b> |
|-----|--|------------------------|--|----------------------------|
| 87  | Panhandle Eastern Pipe Line                                  | pl                     | William Grygar, Kim Van Pelt                               |                            |
| 88  | PECO Energy Co.  | l                      | Carlos Thillet   |                            |
| 89  | Pemex Gas Y Petroquimica Basica                              | s                      | Juan Enrique Gonzalez Azuara                               |                            |
| 90  | Peoples Gas System (A division of Tampa Electric Co)         | l                      | Wraye Grimard  |                            |
| 91  | Portland Natural Gas Transmission System                     | pl                     | David Haag   |                            |
| 92  | PPL EnergyPlus, LLC  | e                      | Anne Lovett  |                            |
| 93  | Questar Pipeline Co.   | pl                     | Jerry H. Gross   |                            |
| 94  | Quorum Business Solutions Inc.                               | s                      | Anne Golenternek, Michael Lewis                            |                            |
| 95  | Salt River Project Agricultural Improvement & Power District | e                      | Lori-Lynn C. Pennock                                       |                            |
| 96  | Sempra Energy - Southern California Gas Co.                  | l                      | Lee Stewart, Rodger Schewecke                              |                            |
| 97  | Sempra Pipelines & Storage Corp.                             | pl                     | Martine Blair  |                            |
| 98  | Sequent Energy Management, L.P.                              | s                      | Pat Metteauer  |                            |
| 99  | Shell Energy North America (US), L.P.                        | s                      | Eric Gillaspie   |                            |
| 100 | SNL Financial  | s                      | Katrina Sumey  |                            |
| 101 | SolArc, Inc.   | s                      | Tom Brune  |                            |
| 102 | Southern California Edison Company                           | e                      | Roman Bakke, Rob Grimm                                     |                            |
| 103 | Southern Company Services, Inc.                              | e                      | Alan Kilpatrick, Bronco Kilgore                            |                            |
| 104 | Southern Star Central Gas Pipeline                           | pl                     | Philip Rullman, Tim L. Thompson                            |                            |
| 105 | Southwest Gas Corporation                                    | l                      | Larry Black, Mark Anderson, Mark Litwin, John Olenick      |                            |
| 106 | Spectra Energy Transmission                                  | pl                     | Richard Kruse, Kathryn Burch                               |                            |
| 107 | SunGard  | s                      | Sylvia Munson  |                            |
| 108 | Tennessee Gas Pipeline Company                               | pl                     | Sue Barry, Mark Gracey                                     |                            |
| 109 | Tennessee Valley Authority                                   | e                      | Valerie Crockett   |                            |
| 110 | Tiger Natural Gas  | s                      | Tracy Phillips   |                            |
| 111 | TransCanada Pipelines  | pl                     | Doug Miller  |                            |
| 112 | Transwestern Pipeline Company, LLC                           | pl                     | Blair V. Lichtenwalter, Mary Draemer, David Mendoza        |                            |
| 113 | Vector Pipeline L.P.   | pl                     | Amy Bruhn  |                            |
| 114 | Vega Energy Partners, Ltd                                    | s                      | Julie Pincus, Lori Leeder                                  |                            |
| 115 | Washington Gas Light Co.                                     | l                      | Mark Lowe  |                            |
| 116 | Williams Gas Marketing, Inc.                                 | s                      | Rich Ficken  |                            |
| 117 | Williams Gas Pipeline  | pl                     | Dale Davis, Christopher Burden                             |                            |
| 118 | Williston Basin Interstate Pipeline                          | pl                     | Keith Tiggelaar, Gwen Schoepp, Kelly Brooks, Lori Myerchin |                            |

Wholesale Electric Quadrant Members:

|   |                                       |    |  |      |
|---|---------------------------------------|----|--|------|
| 1 | 8760, Inc.                            | ts | Jim Buccigross                           |      |
| 2 | ACES Power Marketing LLC              | m  | Roy J. True, Amadou Fall                 | muni |
| 3 | Alabama Municipal Electric Authority  | d  | Ray Phillips                             | muni |
| 4 | Alberta Electric System Operator      | i  | Diana Pommen                             |      |
| 5 | American Electric Power Service Corp. | d  | Barbara Radous, Joseph Hartsoe, Phil Cox | iou  |

North American Energy Standards Board Membership List  
As of March 10, 2011

|    | <b>Organization</b>                           | <b>Seg<sup>1</sup></b> | <b>Contact</b>                           | <b>Sub-Seg<sup>2</sup></b> |
|----|---|------------------------|--|----------------------------|
| 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 | Avista Corporation                            | t                      | Jeff Schlect, Kenneth Dillon             | iou                        |
| 11 | Basin Electric Power Cooperative              | t                      | Dan Klempel                              | muni                       |
| 12 | Basin Electric Power Cooperative              | m                      | David Raatz                              | muni                       |
| 13 | Basin Electric Power Cooperative              | g                      | Jason Doerr                              | muni                       |
| 14 | BC Hydro                                      | t                      | Al Woodruff, Brenda Ambrosi              | fed                        |
| 15 | Black Hills Corporation                       | t                      | Larry D. Williamson, Kenna Hagan         | iou                        |
| 16 | Bonneville Power Administration               | d                      | Sydney D. Berwager                       | other                      |
| 17 | Bonneville Power Administration               | g                      | Francis Halpin, Erika Doot               | fed                        |
| 18 | Bonneville Power Administration               | m                      | Brenda Anderson, Ann Shintani            | fed                        |
| 19 | Bonneville Power Administration               | t                      | Abbey J. Nulph                           | fed                        |
| 20 | BP America Inc.                               | e                      | Rhonda Denton                            | lind                       |
| 21 | Brookfield Energy Marketing, Inc.             | m                      | Nicolas Bosse                            | niou                       |
| 22 | California Department of Water Resources      | g                      | Glenn Solberg, Chi Doan                  | fed                        |
| 23 | California ISO                                | i                      | Yakout Mansour                           |                            |
| 24 | Central Electric Power Cooperative            | d                      | Arthur Fusco                             | muni                       |
| 25 | Cleco Power, LLC                              | t                      | Cindy Guillot                            | iou                        |
| 26 | Comprehensive Energy Services                 | e                      | Jim Templeton                            | enduse                     |
| 27 | Consolidated Edison Company of New York, Inc. | t                      | Scott Butler, Chris Fan                  | iou                        |
| 28 | Consumers Energy Company                      | d                      | Andrew C. Dotterweich, Rufus Gladney     | iou                        |
| 29 | Dairyland Power Cooperative                   | t                      | Chuck Callies                            | muni                       |
| 30 | Deseret Power Electric Co-op                  | g                      | Curt Winterfeld                          | muni                       |
| 31 | Dominion Energy Marketing, Inc.               | g                      | Lou Oberski                              | iou                        |
| 32 | Duke Energy Americas, LLC (DEA)               | g                      | Walt Yeager                              | iou                        |
| 33 | Duke Energy Corp.                             | d                      | Alan Pritchard                           | iou                        |
| 34 | Dynegy Power Marketing, Inc.                  | g                      | Ben Trammell                             | merc                       |
| 35 | Edison Electric Institute                     | n                      | David Owens, Dave Dworzak, James P. Fama | n                          |
| 36 | Electric Reliability Council of Texas (ERCOT) | i                      | Bill Blevins, Paul Wattles, Joel Mickey  |                            |
| 37 | Empire District Electric Company, The         | t                      | Bary K. Warren                           | iou                        |
| 38 | Energy Curtailment Specialists, Inc. (ECS)    | e                      | Marie Pieniazek                          | enduse                     |
| 39 | EnerNOC, Inc.                                 | e                      | Aaron Breidenbaugh                       | enduse                     |
| 40 | Entergy Services, Inc.                        | t                      | Edward J. Davis, Narinder Saini          | iou                        |
| 41 | Exelon Generation - Power Team                | m                      | Jack Crowley                             | iou                        |
| 42 | First Energy Service Company                  | d                      | Robert M. Martinko, Thomas C. Burgess    | iou                        |
| 43 | FirstEnergy Solutions Corp.                   | m                      | Mark Travaglianti                        | iou                        |
| 44 | Florida Municipal Power Agency                | g                      | Frank Gaffney, Dan O'Hagan               | muni                       |
| 45 | Florida Municipal Power Agency                | d                      | Frank Gaffney, Dan O'Hagan               | muni                       |
| 46 | Florida Power & Light Company                 | m                      | Jim Drake, Tom Hartman                   | iou                        |

North American Energy Standards Board Membership List  
As of March 10, 2011

|    | <b>Organization</b>  | <b>Seg<sup>1</sup></b> | <b>Contact</b>   | <b>Sub-Seg<sup>2</sup></b> |
|----|--|------------------------|--|----------------------------|
| 47 | Florida Power & Light Company  | t                      | Marty Mennes, Bob Birch                                | iou                        |
| 48 | Georgia Transmission Corporation   | t                      | Patrick McGovern                                       | muni                       |
| 49 | Hydro – Quebec Transenergie  | t                      | Glenn Sylvain  | fed                        |
| 50 | Iberdrola USA Management Corporation   | t                      | Mark Marini  | iou                        |
| 51 | Idaho Power Company  | t                      | Kathy Anderson   | iou                        |
| 52 | Independent Electricity System Operator (IESO)                               | i                      | Cristian Dragnea, Biju Gopi                            |                            |
| 53 | Indiana Municipal Power Agency   | g                      | Scott Berry  | muni                       |
| 54 | ISO New England, Inc.  | i                      | Matthew F. Goldberg                                    |                            |
| 55 | LG&E and KU Services Company   | t                      | Derek A. Rahn, Larry Monday                            | IOU                        |
| 56 | Lincoln Electric System  | g                      | Douglas Bantam   | muni                       |
| 57 | Los Angeles Department of Water and Power                                    | t                      | Mohammed Johar Beshir                                  | muni                       |
| 58 | Los Angeles Department of Water and Power                                    | m                      | Bradford L. Packer, Joel F. Cordero                    | muni                       |
| 59 | Manitoba Hydro   | t                      | Blaine Poff  | fed                        |
| 60 | Manitoba Hydro   | m                      | Blaine Poff  | fed                        |
| 61 | Michigan Public Power Agency   | d                      | James R. Nickel, Peter J. Schimpke                     | muni                       |
| 62 | MidAmerican Energy Company   | m                      | Dennis Kimm  | iou                        |
| 63 | Midwest Independent Transmission System Operator                             | i                      | William (Bill) Phillips, Ed Skiba                      |                            |
| 64 | Midwest Reliability Organization   | t                      | Dan Schoenecker  | at large                   |
| 65 | Missouri River Energy Services   | d                      | Brian Zavesky  | muni                       |
| 66 | Nalcor Energy  | m                      | Brad Coady   | fed                        |
| 67 | National Association of Regulatory Utility Commissioners                     | e                      | Lou Ann Westerfield                                    | reg                        |
| 68 | National Grid  | t                      | Edward M. Kremzier                                     | iou                        |
| 69 | National Institute of Standards and Technology                               | ts                     | David A. Wollman                                       |                            |
| 70 | National Rural Electric Cooperative Assoc.                                   | d                      | Paul McCurley  | muni                       |
| 71 | Nebraska Public Power District   | t                      | Don Schmit   | muni                       |
| 72 | New York Independent System Operator (NYISO)                                 | i                      | Rana Mukerji, Donna Pratt                              |                            |
| 73 | New York State Reliability Council   | d                      | P. Donald Raymond                                      | at large                   |
| 74 | North American Electric Reliability Corporation                              | d                      | David Taylor, Andy Rodriquez                           | at large                   |
| 75 | North Carolina Electric Membership Corporation                               | d                      | David Beam, Diane Huis                                 | muni                       |
| 76 | Northeast Utilities Service Company  | t                      | David Boguslawski, Calvin A. Bowie                     | iou                        |
| 77 | Northwestern Corporation   | t                      | Mike Cashell   | iou                        |
| 78 | NRG Energy, Inc.   | g                      | Alan Johnson, Jennifer J. Vosburg, Elizabeth Killinger | merc                       |
| 79 | NV Energy  | m                      | Sheryl Torrey  | iou                        |
| 80 | NV Energy, Inc.  | t                      | Patricia Englin  | iou                        |
| 81 | Open Access Technology International, Inc.                                   | e                      | Michehl Gent   | at large                   |
| 82 | Open Access Technology International, Inc.                                   | t                      | Paul R. Sorenson                                       | at large                   |
| 83 | Organization for the Advancement of Structured Information Standards (OASIS) | ts                     | Laurent M. Liscia                                      |                            |
| 84 | PacifiCorp   | m                      | John Apperson  | iou                        |
| 85 | PacifiCorp   | t                      | Sarah E. Edmonds                                       | iou                        |

North American Energy Standards Board Membership List  
As of March 10, 2011

|     | <b>Organization</b>  | <b>Seg<sup>1</sup></b> | <b>Contact</b>   | <b>Sub-Seg<sup>2</sup></b> |
|-----|--|------------------------|--|----------------------------|
| 86  | PHI Power Delivery   | t                      | Scott Razze  | iou                        |
| 87  | PJM Interconnection  | i                      | Patrick Brown, Cathy Wesley  |                            |
| 88  | Portland General Electric                                      | t                      | Frank Afranji, John Walker, Johnny Useldinger                          | iou                        |
| 89  | Powerex Corp   | m                      | Michael L McWilliams, Sharole Tylor                                    | fed                        |
| 90  | PowerSouth Energy Cooperative                                  | d                      | William Ronald Graham  | muni                       |
| 91  | PPL Electric Utilities Corporation                             | t                      | Randy Kreider  | iou                        |
| 92  | Progress Energy  | m                      | James Eckelkamp  | iou                        |
| 93  | Progress Energy  | t                      | Phillip W. Lewis, Michael Anthony, Lee Schuster                        | iou                        |
| 94  | Public Service Company of New Mexico                           | m                      | Steven Maestas, Darren Wilkins, Patricia Merville, Roger Vaughn        | iou                        |
| 95  | Public Utilities Commission of Ohio                            | e                      | Christopher Kotting  | reg                        |
| 96  | Puget Sound Energy, Inc.                                       | t                      | George Marshall, Bob Harshbarger                                       | iou                        |
| 97  | RRI Energy Services, Inc.                                      | g                      | Trent Carlson  | merc                       |
| 98  | Sacramento Municipal Utility District                          | d                      | Steve Sorey  | muni                       |
| 99  | Salt River Project Agricultural Improvement and Power District | t                      | Luke O'Dwyer, Michael J. Pfeister                                      | fed                        |
| 100 | Salt River Project Agricultural improvement and Power District | m                      | Richard Lehman   | fed                        |
| 101 | San Diego Gas & Electric Company                               | t                      | Patricia vanMidde  | iou                        |
| 102 | Santee Cooper  | t                      | Tom Abrams   | fed                        |
| 103 | Seattle City Light   | d                      | Marilynn Semro, Thomas P. Rowan  | muni                       |
| 104 | Seminole Electric Cooperative, Inc.                            | m                      | Steve Wallace  | muni                       |
| 105 | Shell Energy America (US), L.P.                                | m                      | Robert Reilley, Paul Kerr  | niou                       |
| 106 | Shift Research, LLC  | e                      | Jesse D. Hurley  | at large                   |
| 107 | South Carolina Electric & Gas Company                          | t                      | S. Porcher Stoney, James T. Starling, Jr.                              | iou                        |
| 108 | South Carolina Electric & Gas Company                          | m                      | Kevin Spitzform  | iou                        |
| 109 | Southern California Edison                                     | t                      | Weston Williams, Sonya Green-Sumpter                                   | iou                        |
| 110 | Southern California Edison Co.                                 | g                      | Tracy Bibb   | iou                        |
| 111 | Southern Company Services, Inc.                                | g                      | John Ciza  | iou                        |
| 112 | Southern Company Services, Inc.                                | m                      | Joel Dison   | iou                        |
| 113 | Southern Company Services, Inc.                                | t                      | Joshua Jenkins, Terry Coggins, JT Wood, James Y. Busbin, Corey Sellers | iou                        |
| 114 | Southwest Power Pool   | i                      | Carl Monroe, Michael Desselle, Charles Yeung                           |                            |
| 115 | Southwest Transmission Cooperative, Inc.                       | t                      | Larry D. Huff  | muni                       |
| 116 | Southwestern Power Administration                              | t                      | Tracey Stewart   | fed                        |
| 117 | SunGard  | ts                     | Andrew Tritch, Rick Lentz  |                            |
| 118 | Tenaska, Inc.  | g                      | Scott Helyer, William Simpson  | merc                       |
| 119 | Tennessee Valley Authority                                     | g                      | Kathy York   | fed                        |
| 120 | Tennessee Valley Authority                                     | m                      | Belinda Thornton, Valerie Crockett                                     | fed                        |
| 121 | Tennessee Valley Authority                                     | t                      | Chuck Feagans  | fed                        |
| 122 | Tri-State Generation and Transmission Association, Inc.        | t                      | Carla Javornik, Doug Reese   | muni                       |
| 123 | Tri-State G&T Association, Inc.                                | g                      | Janelle Marriott   | muni                       |

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|     | <b>Organization</b>                      | <b>Seg<sup>1</sup></b> | <b>Contact</b>                                      | <b>Sub-Seg<sup>2</sup></b> |
|-----|--|------------------------|---|----------------------------|
| 124 | Tucson Electric Power Company            | t                      | Raquel Aguilar, Judy Fregoso, Ed Beck, Amy Welander | iou                        |
| 125 | United Illuminating Company, The         | t                      | Rose Pysh   | iou                        |
| 126 | Utility Integration Solutions, Inc.      | ts                     | Scott Coe   |                            |
| 127 | Vermont Public Power Supply Authority    | g                      | William J. Gallagher                                | muni                       |
| 128 | We Energies (Wisconsin Electric)         | d                      | Linda Horn  | iou                        |
| 129 | We Energies (Wisconsin Electric)         | g                      | James R. Keller                                     | iou                        |
| 130 | Westar Energy, Inc.                      | g                      | Shah Hossain, Grant Wilkerson                       | iou                        |
| 131 | Western Area Power Administration        | t                      | JB Hite   | fed                        |
| 132 | Western Area Power Administration        | m                      | Jeffrey Ackerman                                    | fed                        |
| 133 | Western Electricity Coordinating Council | t                      | Michelle Mizumori, Louise McCarren                  | at large                   |
| 134 | Wisconsin Public Service Corporation     | g                      | Christopher Plante, Charles W. Severance, Neal Balu | iou                        |
| 135 | WPPI Energy                              | d                      | Mike Stuart   | muni                       |
| 136 | Xcel Energy Inc.                         | m                      | David Lemmons                                       | iou                        |

Retail Gas Quadrant Members:

|    |   |   |                                    |  |
|----|---|---|------------------------------------|--|
| 1  | AGL Resources Inc.                          | d | Gregory Becker                     |  |
| 2  | Allegro Development                         | s | Kimberly Page                      |  |
| 3  | American Public Gas Association (APGA)      | d | Alonzo Weaver, Joe Stengel         |  |
| 4  | Asgard Energy, LLC                          | s | Rhett C. Shumway                   |  |
| 5  | Capacity Center                             | s | Greg Lander                        |  |
| 6  | Dominion Retail, Inc.                       | s | Richard A. Zollars                 |  |
| 7  | Duke Energy Corp                            | d | Dan Jones                          |  |
| 8  | Exelon Energy                               | s | Sheree M. Petrone                  |  |
| 9  | Integrays Energy Group, Inc.                | d | Tom Aridas, Ken Thiry              |  |
| 10 | International LNG Alliance                  | s | David Sweet                        |  |
| 11 | Latitude Technologies                       | s | Leigh Spangler                     |  |
| 12 | National Fuel Gas Distribution Corporation  | d | Mike Novak                         |  |
| 13 | Pennsylvania Office of Consumer Advocate    | e | Tanya J. McCloskey                 |  |
| 14 | Sierra Southwest Cooperative Services, Inc. | s | Rick Vogel                         |  |
| 15 | SouthStar Energy Corp                       | s | Michael Braswell, Joseph C. Monroe |  |
| 16 | Sprague Energy Corp.                        | s | Paul Scoff                         |  |
| 17 | Systrends USA                               | s | Dave Darnell                       |  |
| 18 | UGI Utilities, Inc.                         | d | Paul Szykman                       |  |
| 19 | Vectren Retail, LLC                         | s | Tami Wilson                        |  |



## North American Energy Standards Board

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### MEMBERSHIP YE 2010 – ANALYSIS BY MONTH:

- **January 31, 2010:** Membership in January is 300. Membership by quadrant is: 122 (WGQ), 19 (REQ), 19 (RGQ), 140 (WEQ). Year to date, we have had five new memberships (3 – WEQ, 1 – REQ, 0 – RGQ, 1 – WGQ) and two member resignation (1 – WGQ, 0 – REQ, 0 – RGQ, 1 – WEQ). We began the year with 297 members (122 (WGQ), 18 (REQ), 19 (RGQ), 138 (WEQ)). In January, we had five new member join, Cenovus Energy, Inc. (WGQ, Services), 8760, Inc. (WEQ, Technology/Services), Organization for the Advancement of Structured Information Standards (OASIS) (WEQ, Technology/Services), Avista Corporation (WEQ, Transmission, IOU) and Maryland Public Service Commission (REQ, End Users) . We had two member resignations, Southeastern Power Administration (WEQ, Generation, Fed/State/Prov) and Pacific Gas and Electric (WGQ, Pipeline).
- **February 28, 2010:** Membership in February is 302. Membership by quadrant is: 122 (WGQ), 20 (REQ), 19 (RGQ), 141 (WEQ). Year to date, we have had eight new memberships (5 – WEQ, 2 – REQ, 0 – RGQ, 1 – WGQ) and three member resignation (1 – WGQ, 0 – REQ, 0 – RGQ, 2 – WEQ). We began the year with 297 members (122 (WGQ), 18 (REQ), 19 (RGQ), 138 (WEQ)). In February, we had three new members join, Public Utilities Commission of Ohio (WEQ, End Users, Regulator), National Institute of Standards and Technology (WEQ, Technology/Services) and Public Utilities Commission of Ohio (REQ, End Users/Public Agencies). We had one member resignation, Progress Energy (WEQ, Marketers/Brokers, IOU).
- **March 31, 2010:** Membership as of March is 302. Membership by quadrant is: 123 (WGQ), 20 (REQ), 18 (RGQ), 141 (WEQ). Year to date, we have had ten new memberships (6 – WEQ, 2 – REQ, 0 – RGQ, 2 – WGQ) and five member resignation (1 – WGQ, 0 – REQ, 1 – RGQ, 3 – WEQ). We began the year with 297 members (122 (WGQ), 18 (REQ), 19 (RGQ), 138 (WEQ)). In March, we had two new members join, Brookfield Energy Marketing, Inc. (WEQ, Marketers/Brokers, NIOU) and American Midstream Partners, LP (WGQ, Services). We had two member resignations, APS Marketing and Trading (WEQ, Marketers/Brokers, IOU) and Interstate Gas Supply (RGQ, Services).
- **April 30, 2010:** Membership as of April is 302. Membership by quadrant is: 122 (WGQ), 20 (REQ), 18 (RGQ), 142 (WEQ). Year to date, we have had twelve new memberships (8 – WEQ, 2 – REQ, 0 – RGQ, 2 – WGQ) and seven member resignation (2 – WGQ, 0 – REQ, 1 – RGQ, 4 – WEQ). We began the year with 297 members (122 (WGQ), 18 (REQ), 19 (RGQ), 138 (WEQ)). In April, we had two new members join, Energy Curtailment Specialists, Inc. (WEQ, End Users/End Use) and Nebraska Public Power District (WEQ, Transmission, Muni/Coop). We had two member resignations, TransServ International, Inc. (WEQ, IGO) and Foothills Energy Ventures, LLC (WGQ, Producers).
- **May 31, 2010:** Membership as of May is 303. Membership by quadrant is: 121 (WGQ), 21 (REQ), 19 (RGQ), 142 (WEQ). Year to date, we have had fourteen new memberships (8 – WEQ, 3 – REQ, 1 – RGQ, 2 – WGQ) and eight member resignation (3 – WGQ, 0 – REQ, 1 – RGQ, 4 – WEQ). We began the year with 297 members (122 (WGQ), 18 (REQ), 19 (RGQ), 138 (WEQ)). In May, we had two new members join, Comverge, Inc. (REQ, Service Providers/Suppliers) and Sierra Southwest Cooperative Services, Inc. (RGQ, Service Providers/Suppliers). We had one member resignation, Anadarko Energy Services Company (WGQ, Services).
- **June 30, 2010:** Membership as of June is 301. Membership by quadrant is: 120 (WGQ), 21 (REQ), 19 (RGQ), 141 (WEQ). Year to date, we have had 15 new memberships (8 – WEQ, 3 – REQ, 1 – RGQ, 3 – WGQ) and 11 member resignation (5 – WGQ, 0 – REQ, 1 – RGQ, 5 – WEQ). We began the year with 297 members (122 (WGQ), 18 (REQ), 19 (RGQ), 138 (WEQ)). In June, we had one new member join, Eastern Shore Natural Gas Company, (WGQ, LDC). We had three member resignations, Goodrich Petroleum Company, LLC (WGQ, Producers), Mirant Energy Trading, LLC (WGQ, End Users) and NCPA1 (WEQ, Distribution).



## North American Energy Standards Board

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- **July 31, 2010:** Membership as of July is 302. Membership by quadrant is: 121 (WGQ), 21 (REQ), 19 (RGQ), 141 (WEQ). Year to date, we have had 16 new memberships (8 – WEQ, 3 – REQ, 1-RGQ, 4- WGQ) and 11 member resignations (5 – WGQ, 0 – REQ, 1 – RGQ, 5 – WEQ). We began the year with 297 members (122 (WGQ), 18 (REQ), 19 (RGQ), 138 (WEQ)). In July, we had one new member join, Sempra Pipelines & Storage Corp. (WGQ, Pipeline). We had no resignations.
- **August 31, 2010:** Membership as of August 31 is 305. Membership by quadrant is: 122 (WGQ), 22 (REQ), 19 (RGQ), 142 (WEQ). Year to date, we have had 21 new memberships (10 – WEQ, 4 – REQ, 1-RGQ, 6- WGQ) and 13 member resignations (6 – WGQ, 0 – REQ, 1 – RGQ, 6 – WEQ). We began the year with 297 members (122 (WGQ), 18 (REQ), 19 (RGQ), 138 (WEQ)). In August, we had five new member join, Progress Energy (WEQ, Marketers/Brokers, IOU), AGL Resources Inc. (WGQ, LDC), Navigant Consulting, Inc. (REQ, End Users/Public Agencies), SNL Financial (WGQ, Services) and Utility Integration Solutions, Inc. (WEQ, Technology and Services). We had two resignations Entegra Power Group, LLC (WEQ, Generation, Merchant) and Platts (WGQ, Services).
- **September 30, 2010:** Membership as of September 30 is 304. Membership by quadrant is: 122 (WGQ), 22 (REQ), 19 (RGQ), 141 (WEQ). Year to date, we have had 21 new memberships (10 – WEQ, 4 – REQ, 1-RGQ, 6- WGQ) and 14 member resignations (6 – WGQ, 0 – REQ, 1 – RGQ, 7 – WEQ). We began the year with 297 members (122 (WGQ), 18 (REQ), 19 (RGQ), 138 (WEQ)). In September, we had no new members join. We had one resignation, Tampa Electric Company (WEQ, Marketers/Brokers, IOU).
- **October 31, 2010:** Membership as of October 31 is 302. Membership by quadrant is: 122 (WGQ), 21 (REQ), 19 (RGQ), 140 (WEQ). Year to date, we have had 22 new members (11 – WEQ, 4 – REQ, 1 – RGQ, 6 – WGQ) and 17 member resignations (6 – WGQ, 1 – REQ, 1 – RGQ, 9 – WEQ). In October, we had one new member join, LG&E and KU Services Company (WEQ, Transmission, IOU). We had three member resignations, Conectiv Energy Supply, Inc. (WEQ, Generation, Merchant), North Carolina Advanced Energy Corporation (REQ, Service Providers/Suppliers) and SonicWALL, Inc. (WEQ, End Users, End Use).
- **November 30, 2010:** Membership as of November 30 is 301. Membership by quadrant is: 121 (WGQ), 22 (REQ), 19 (RGQ), 139 (WEQ). Year to date, we have had 23 new members (11 – WEQ, 5 – REQ, 1 – RGQ, 6 – WGQ) and 19 member resignations (7 – WGQ, 1 – REQ, 1 – RGQ, 10 – WEQ). In November, we had one new member join, National Association of Regulatory Utility Commissioners (End Users/Public Agencies). We had two member resignations, TransAlta Energy Marketing Canada (Marketers/Brokers, NIOU) and Apache Corporation (WGQ, Pipeline).
- **December 31, 2010:** Membership as of December 31 is 301. Membership by quadrant is: 122 (WGQ), 22 (REQ), 19 (RGQ), 138 (WEQ). Year to date, we have had 25 new members (11 – WEQ, 5 – REQ, 2 – RGQ, 7 – WGQ) and 21 member resignations (7 – WGQ, 1 – REQ, 2 – RGQ, 11 – WEQ). In December, we had two new members join, Accenture, LLP (WGQ, Services) and SouthStar Energy Corp. (Retail Gas, Services). We had two member resignations, Clarity Systems, Ltd (RGQ, Services) and Public Service Electric and Gas Company (WEQ, Transmission, IOU).



# North American Energy Standards Board

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## Meeting Analysis Year End 2010:

### 2010 NAESB Meeting Analysis

| Month     | Event             | Total |       | WEQ |       | WGQ |       | Retail |       | Joint |       | Board |       |
|-----------|-------------------|-------|-------|-----|-------|-----|-------|--------|-------|-------|-------|-------|-------|
|           |                   | #     | Hours | #   | Hours | #   | Hours | #      | Hours | #     | Hours | #     | Hours |
| January   | Meetings/Hours    | 9     | 45.5  | 6   | 30    | 3   | 15.5  | 0      | 0     | 0     | 0     | 0     | 0     |
|           | Conf. Calls/Hours | 14    | 36    | 3   | 12    | 2   | 4     | 1      | 5     | 8     | 15    | 0     | 0     |
|           | Monthly Total     | 23    | 81.5  | 9   | 42    | 5   | 19.5  | 1      | 5     | 8     | 15    | 0     | 0     |
| February  | Meetings/Hours    | 8     | 43    | 4   | 24    | 3   | 17    | 0      | 0     | 1     | 2     | 0     | 0     |
|           | Conf. Calls/Hours | 9     | 24.5  | 2   | 8     | 1   | 2     | 1      | 5     | 5     | 9.5   | 0     | 0     |
|           | Monthly Total     | 17    | 67.5  | 6   | 32    | 4   | 19    | 1      | 5     | 6     | 11.5  | 0     | 0     |
| March     | Meetings/Hours    | 12    | 48    | 6   | 28    | 3   | 13    | 1      | 2     | 0     | 0     | 2     | 5     |
|           | Conf. Calls/Hours | 16    | 46.5  | 5   | 17.5  | 2   | 4     | 2      | 12    | 7     | 13    | 0     | 0     |
|           | Monthly Total     | 28    | 94.5  | 11  | 45.5  | 5   | 17    | 3      | 14    | 7     | 13    | 2     | 5     |
| April     | Meetings/Hours    | 9     | 47    | 4   | 21    | 5   | 26    | 0      | 0     | 0     | 0     | 0     | 0     |
|           | Conf. Calls/Hours | 15    | 36    | 3   | 13    | 5   | 9     | 0      | 0     | 7     | 14    | 0     | 0     |
|           | Monthly Total     | 24    | 83    | 7   | 34    | 10  | 35    | 0      | 0     | 7     | 14    | 0     | 0     |
| May       | Meetings/Hours    | 14    | 70    | 7   | 35    | 4   | 20.5  | 2      | 9.5   | 1     | 5     | 0     | 0     |
|           | Conf. Calls/Hours | 18    | 54.5  | 5   | 25    | 5   | 8.5   | 1      | 6     | 6     | 12    | 1     | 3     |
|           | Monthly Total     | 32    | 124.5 | 12  | 60    | 9   | 29    | 3      | 15.5  | 7     | 17    | 1     | 3     |
| June      | Meetings/Hours    | 15    | 59    | 6   | 26    | 6   | 26    | 1      | 2     | 0     | 0     | 2     | 5     |
|           | Conf. Calls/Hours | 22    | 73    | 9   | 38    | 1   | 2     | 2      | 7     | 10    | 26    | 0     | 0     |
|           | Monthly Total     | 37    | 132   | 15  | 64    | 7   | 28    | 3      | 9     | 10    | 26    | 2     | 5     |
| July      | Meetings/Hours    | 16    | 84    | 8   | 39    | 5   | 26    | 0      | 0     | 3     | 19    | 0     | 0     |
|           | Conf. Calls/Hours | 22    | 47.5  | 3   | 12    | 5   | 8.5   | 0      | 0     | 13    | 24    | 1     | 3     |
|           | Monthly Total     | 38    | 131.5 | 11  | 51    | 10  | 34.5  | 0      | 0     | 16    | 43    | 1     | 3     |
| August    | Meetings/Hours    | 11    | 48.5  | 4   | 19    | 3   | 17    | 3      | 9     | 1     | 3.5   | 0     | 0     |
|           | Conf. Calls/Hours | 25    | 72.5  | 6   | 30    | 1   | 0.5   | 2      | 5     | 15    | 34    | 1     | 3     |
|           | Monthly Total     | 36    | 121   | 10  | 49    | 4   | 17.5  | 5      | 14    | 16    | 37.5  | 1     | 3     |
| September | Meetings/Hours    | 15    | 58.5  | 7   | 29.5  | 3   | 13    | 1      | 2     | 2     | 9     | 2     | 5     |
|           | Conf. Calls/Hours | 20    | 54.5  | 3   | 15    | 0   | 0     | 5      | 14.5  | 11    | 22    | 1     | 3     |
|           | Monthly Total     | 35    | 113   | 10  | 44.5  | 3   | 13    | 6      | 16.5  | 13    | 31    | 3     | 8     |



# North American Energy Standards Board

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## 2010 NAESB Meeting Analysis

| Month                | Event                    | Total      |              | WEQ        |              | WGQ       |              | Retail    |             | Joint      |              | Board     |           |
|----------------------|--------------------------|------------|--------------|------------|--------------|-----------|--------------|-----------|-------------|------------|--------------|-----------|-----------|
|                      |                          | #          | Hours        | #          | Hours        | #         | Hours        | #         | Hours       | #          | Hours        | #         | Hours     |
| October              | Meetings/Hours           | 17         | 81.5         | 6          | 30           | 4         | 20.5         | 5         | 21          | 2          | 10           | 0         | 0         |
|                      | Conf. Calls/Hours        | 20         | 57.5         | 6          | 24.5         | 1         | 2            | 4         | 12          | 9          | 19           | 0         | 0         |
|                      | Monthly Total            | 37         | 139          | 12         | 54.5         | 5         | 22.5         | 9         | 33          | 11         | 29           | 0         | 0         |
| November             | Meetings/Hours           | 7          | 33           | 7          | 33           | 0         | 0            | 0         | 0           | 0          | 0            | 0         | 0         |
|                      | Conf. Call/Hours         | 18         | 52           | 3          | 15           | 3         | 4            | 2         | 6           | 8          | 21           | 2         | 6         |
|                      | Monthly Total            | 25         | 85           | 10         | 48           | 3         | 4            | 2         | 6           | 8          | 21           | 2         | 6         |
| December             | Meetings/Hours           | 13         | 46.5         | 6          | 27           | 4         | 12.5         | 1         | 2           | 0          | 0            | 2         | 5         |
|                      | Conf. Call/Hours         | 9          | 25           | 2          | 9            | 1         | 2            | 4         | 11          | 2          | 3            | 0         | 0         |
|                      | Monthly Total            | 22         | 71.5         | 8          | 36           | 5         | 14.5         | 5         | 13          | 2          | 3            | 2         | 5         |
| <b>Total YE 2010</b> | <b>Meetings/Hours</b>    | <b>146</b> | <b>664.5</b> | <b>71</b>  | <b>341.5</b> | <b>43</b> | <b>207</b>   | <b>14</b> | <b>47.5</b> | <b>10</b>  | <b>48.5</b>  | <b>8</b>  | <b>20</b> |
|                      | <b>Conf. Calls/Hours</b> | <b>181</b> | <b>502.5</b> | <b>45</b>  | <b>195</b>   | <b>23</b> | <b>40.5</b>  | <b>18</b> | <b>66.5</b> | <b>91</b>  | <b>188.5</b> | <b>4</b>  | <b>12</b> |
|                      | <b>Events/Hours</b>      | <b>327</b> | <b>1167</b>  | <b>116</b> | <b>536.5</b> | <b>66</b> | <b>247.5</b> | <b>32</b> | <b>114</b>  | <b>101</b> | <b>237</b>   | <b>12</b> | <b>32</b> |
| <b>Total YE 2009</b> | <b>Meetings/Hours</b>    | <b>142</b> | <b>707.5</b> | <b>71</b>  | <b>380</b>   | <b>44</b> | <b>228.5</b> | <b>8</b>  | <b>27.5</b> | <b>11</b>  | <b>51.5</b>  | <b>8</b>  | <b>20</b> |
|                      | <b>Conf. Calls/Hours</b> | <b>137</b> | <b>354.5</b> | <b>51</b>  | <b>180</b>   | <b>20</b> | <b>41.5</b>  | <b>22</b> | <b>48</b>   | <b>42</b>  | <b>81</b>    | <b>2</b>  | <b>4</b>  |
|                      | <b>Events/Hours</b>      | <b>279</b> | <b>1062</b>  | <b>122</b> | <b>560</b>   | <b>64</b> | <b>270</b>   | <b>30</b> | <b>75.5</b> | <b>53</b>  | <b>132.5</b> | <b>10</b> | <b>24</b> |



# North American Energy Standards Board

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## Product Access Year End 2010:

- **Monthly:** The [copyright policy and list of companies](#) with authorized access to our standards is prepared monthly and posted on the NAESB web site. It includes all companies who have legal access to the NAESB standards.
- **December 31, 2010:** The copyright report as of January 1, 2011 is posted on the [web site](#). Statistics for purchases of standards are maintained monthly and can be seen below as of December 31.

### 2010 Purchases for NAESB Products

| Product/Month   | J         | F        | M         | A         | M         | J         | J         | A         | S         | O         | N        | D        | Total      |
|---|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|------------|
| NAESB Home Page Access for Password Protected Area (\$3500)   | 1         | 0        | 3         | 1         | 2         | 0         | 0         | 1         | 2         | 0         | 1        | 1        | 12         |
| NAESB WGQ / REQ / RGQ Internet Electronic Transport Manual, Version 1.0 (\$150/\$900)                 | 0         | 0        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0        | 0          |
| Retail Base Contract for Sales/Purchase of Natural Gas/Electricity (\$25/\$50)                        | 1         | 0        | 1         | 1         | 1         | 0         | 0         | 3         | 1         | 0         | 0        | 1        | 9          |
| WGQ Base Contract for Sales/Purchases of Natural Gas/FTAA/OBA (Versions 1.7 and older) (\$25/\$50 ea) | 0         | 0        | 0         | 1         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0        | 1          |
| WGQ Base Contract for Sales/Purchases of Natural Gas/FTAA/OBA (Version 1.8, 1.9, 2.0) (\$25/\$50 ea)  | 15        | 1        | 4         | 5         | 6         | 9         | 2         | 3         | 11        | 9         | 4        | 4        | 73         |
| WGQ Electronic CD-Rom of Standards Manuals (Versions 1.7 and older) (\$150/\$900)                     | 0         | 0        | 0         | 0         | 0         | 0         | 0         | 0         | 1         | 0         | 0        | 0        | 1          |
| WGQ Electronic CD-Rom of Standards Manuals (Version 1.8) (\$150/\$900)                                | 11        | 0        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0        | 11         |
| WGQ Electronic CD-Rom of Standards Manuals (Version 1.9, 2.0) (\$150/\$900)                           | 0         | 2        | 7         | 2         | 4         | 4         | 23        | 5         | 9         | 21        | 1        | 2        | 80         |
| WEQ Electronic CD-Rom of Standards Manuals (Versions 002 and older) (\$150/\$900)                     | 0         | 0        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0        | 0          |
| WEQ Electronic CD-Rom of Standards Manuals (Version 002.1) (\$150/\$900)                              | 1         | 0        | 0         | 0         | 2         | 1         | 0         | 0         | 1         | 0         | 0        | 0        | 5          |
| NAESB WGQ Contracts Course/ eTariff Workshop CD-Rom   | 0         | 0        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0        | 0          |
| NAESB REQ/RGQ Model Business Practices CD-Rom (Versions 1.1 and older) (\$150/\$900)                  | 0         | 0        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0        | 0          |
| Final Actions (\$50)  | 0         | 0        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0        | 0          |
| <b>Total</b>  | <b>29</b> | <b>3</b> | <b>15</b> | <b>10</b> | <b>15</b> | <b>14</b> | <b>25</b> | <b>12</b> | <b>25</b> | <b>30</b> | <b>6</b> | <b>8</b> | <b>192</b> |



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## Non-Member Three-Day Limited Waivers

| Product  | J        | F        | M        | A        | M        | J        | J        | A        | S        | O        | N        | D        | Total     |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| NAESB Final Actions or Individual Standard Nos.      | 1        | 0        | 0        | 1        | 0        | 0        | 1        | 0        | 1        | 1        | 0        | 0        | 5         |
| WGQ Standards Manuals (Version 1.4)                  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| WGQ Standards Manuals (Version 1.5)                  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| WGQ Standards Manuals (Version 1.6)                  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| WGQ Standards Manuals (Version 1.7)                  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| WGQ Standards Manuals (Version 1.8)                  | 0        | 1        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 1         |
| WGQ Standards Manuals (Version 1.9)                  | 0        | 0        | 0        | 0        | 0        | 1        | 1        | 0        | 0        | 0        | 1        | 0        | 3         |
| WEQ Standards Manuals (Version 001)                  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| WEQ Standards Manuals (Version 002)                  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| WEQ Standards Manuals (Version 002.1)                | 0        | 0        | 0        | 0        | 0        | 1        | 1        | 0        | 0        | 0        | 0        | 0        | 2         |
| NAESB REQ/RGQ Model Business Practices (Version 1.0) | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| NAESB REQ/RGQ Model Business Practices (Version 1.1) | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| NAESB REQ/RGQ Model Business Practices (Version 1.2) | 0        | 0        | 0        | 0        | 0        | 0        | 0        |          | 0        | 0        | 0        | 0        | 0         |
| <b>Total</b>   | <b>1</b> | <b>1</b> | <b>0</b> | <b>1</b> | <b>0</b> | <b>2</b> | <b>3</b> | <b>0</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>11</b> |



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## FINANCIAL REPORT YEAREND 2010 – ACCRUAL BASED

### BALANCE SHEET

|   |                       | 2009 For Comparison   |
|---|-----------------------|-----------------------|
| Assets                                  |                       |                       |
| Current Assets                          | \$814,051.28          | \$696,186.95          |
| Accounts Receivable                     | \$306,000.00          | \$279,500.00          |
| Fixed Assets                            | \$55,142.34           | \$39,299.95           |
| Other Assets                            | \$21,626.00           | \$10,277.94           |
| Total Assets                            | <u>\$1,196,819.62</u> | <u>\$1,025,264.84</u> |
| Liability & Equity                      |                       |                       |
| Deferred Revenue and Deferred Rents (1) | \$1,362,231.82        | \$1,332,499.97        |
| Accounts Payable                        | \$49,150.16           | \$43,745.49           |
| Retained Earnings                       | (\$350,980.62)        | (\$374,185.91)        |
| Net Income                              | \$136,418.26          | \$23,205.29           |
| Total Liability and Equity              | <u>\$1,196,819.62</u> | <u>\$1,025,264.84</u> |

### INCOME AND EXPENSE

|                |                     |                    |
|----------------|---------------------|--------------------|
| Income         | \$2,005,149.66      | \$1,867,505.72     |
| Expense (1)    | \$1,868,731.40      | \$1,844,300.43     |
| Net Income (1) | <u>\$136,418.26</u> | <u>\$23,205.29</u> |

### INCOME AND EXPENSES TO BUDGET - YTD 2010

|                                    |                |                |
|------------------------------------|----------------|----------------|
| 2010 YE Budget for Income          | \$2,056,933.00 | \$1,829,143.48 |
| Income Variance (budget-income)    | (\$51,783.34)  | \$38,362.24    |
| 2010 YE Budget for Expenses        | \$2,056,933.00 | \$1,829,143.48 |
| Expenses Variance (budget-expense) | \$188,201.60   | (\$15,156.95)  |

### YEAR END ANALYSIS

|                                 |                |                |
|---------------------------------|----------------|----------------|
| 2010 Budget                     | \$2,056,933.00 | \$1,829,143.48 |
| Revenue YE                      | \$2,005,149.66 | \$1,867,505.72 |
| Expenses YE                     | \$1,868,731.40 | \$1,844,300.43 |
| Difference - Revenue - Expenses | \$136,418.26   | \$23,205.29    |

### CASH BASIS ANALYSIS

|                          |             |             |
|--------------------------|-------------|-------------|
| Beginning Balance 1-1-10 | \$682,359   | \$463,306   |
| Total Cash Income        | \$1,945,262 | \$2,051,507 |



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## FINANCIAL REPORT YEAREND 2010 – ACCRUAL BASED

|                |             |             |
|----------------|-------------|-------------|
| Total Costs    | \$1,847,977 | \$1,832,454 |
| Ending Balance | \$779,644   | \$682,359   |

### ACCOUNTS RECEIVABLE ANALYSIS

|   |              | 2009 For Comparison |
|---|--------------|---------------------|
| Accounts Receivable as of December 2010 | \$306,000.00 | \$279,500.00        |
| Items More than 90 Days Outstanding     | \$19,500.00  | \$0.00              |
| Items 90 Days Outstanding               | \$13,000.00  | \$6,500.00          |
| Items 60 Days Outstanding               | \$26,000.00  | \$19,500.00         |
| Items 30 Days or Less Outstanding       | \$6,500.00   | \$26,000.00         |
| Items Related to 2011 Membership Dues   | \$241,000.00 | \$227,500.00        |

- (1) With the IRS changes, it is a requirement to take rents and allot the payments evenly over the term of the lease rather than accounting for the rents as they are billed and paid. As such we pre-paid \$66,023.46 in rents in 2010 that were not billed to NAESB in 2010. We will continue pre-payments through to May 1, 2011. The lease commencement date is June 25, 2010 and the expiration date is April 30, 2021.



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### Membership YTD 2011:

- **January 31, 2011:** Membership in January is 300. Membership by quadrant is: 121 (WGQ), 23 (REQ), 19 (RGQ), 137 (WEQ). Year to date, we have had one new memberships (0 – WEQ, 1 – REQ, 0 – RGQ, 0 – WGQ) and two member resignation (1 – WGQ, 0 – REQ, 0 – RGQ, 1 – WEQ). We began the year with 301 members (122 (WGQ), 22 (REQ), 19 (RGQ), 138 (WEQ)). In January, we had one new member, Honeywell International, Inc. (REQ, End Users/Public Agencies) and two member resignations, Modesto Irrigation District (WEQ, Transmission, Muni/Coop) and National Fuel Gas Distribution (WGQ, LDC).
- **February 28, 2011:** Membership in February is 296. Membership by quadrant is: 119 (WGQ), 23 (REQ), 19 (RGQ), 135 (WEQ). Year to date, we have had one new memberships (0 – WEQ, 1 – REQ, 0 – RGQ, 0 – WGQ) and six member resignation (3 – WGQ, 0 – REQ, 0 – RGQ, 3 – WEQ). We began the year with 301 members (122 (WGQ), 22 (REQ), 19 (RGQ), 138 (WEQ)). In February, we had no new members and four member resignations, American Wind Energy Association (WEQ, Generation, Muni/Coop), Electric Power Supply Association (WEQ, Marketers/Brokers, At Large), HighMount Exploration & Productions LLC (WGQ, Producer) and Southern Natural Gas Co. (WGQ, Pipeline).
- **March 10, 2011:** Membership to date is 296. Membership by quadrant is: 118 (WGQ), 23 (REQ), 19 (RGQ), 136 (WEQ). Year to date, we have had two new memberships (1 – WEQ, 1 – REQ, 0 – RGQ, 0 – WGQ) and seven member resignation (4 – WGQ, 0 – REQ, 0 – RGQ, 3 – WEQ). We began the year with 301 members (122 (WGQ), 22 (REQ), 19 (RGQ), 138 (WEQ)). As of March 10, we had one new member, Nalcor Energy (WEQ, Marketers/Brokers, Fed/State/Prov) and one member resignation, Reliance Gas Transportation Infrastructure Limited (WGQ, Pipeline).



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## Meeting Analysis YTD 2011:

### 2011 NAESB Meeting Analysis

| Month    | Event             | Total |       | WEQ |       | WGQ |       | Retail |       | Joint |       | Board |       |
|----------|-------------------|-------|-------|-----|-------|-----|-------|--------|-------|-------|-------|-------|-------|
|          |                   | #     | Hours | #   | Hours | #   | Hours | #      | Hours | #     | Hours | #     | Hours |
| January  | Meetings/Hours    | 11    | 54.5  | 5   | 26    | 3   | 15.5  | 1      | 5     | 1     | 4     | 1     | 4     |
|          | Conf. Calls/Hours | 9     | 32    | 4   | 18    | 1   | 2     | 1      | 3     | 3     | 9     | 0     | 0     |
|          | Monthly Total     | 20    | 86.5  | 9   | 44    | 4   | 17.5  | 2      | 8     | 4     | 13    | 1     | 4     |
| February | Meetings/Hours    | 14    | 72    | 5   | 29    | 4   | 21    | 2      | 9     | 3     | 13    | 0     | 0     |
|          | Conf. Calls/Hours | 15    | 49    | 6   | 26    | 1   | 2     | 4      | 11    | 3     | 7     | 1     | 3     |
|          | Monthly Total     | 29    | 121   | 11  | 55    | 5   | 23    | 6      | 20    | 6     | 20    | 1     | 3     |
| March    | Meetings/Hours    | 0     | 0     |     |       |     |       |        |       |       |       |       |       |
|          | Conf. Calls/Hours | 0     | 0     |     |       |     |       |        |       |       |       |       |       |
|          | Monthly Total     | 0     | 0     | 0   | 0     | 0   | 0     | 0      | 0     | 0     | 0     | 0     | 0     |
| April    | Meetings/Hours    | 0     | 0     |     |       |     |       |        |       |       |       |       |       |
|          | Conf. Calls/Hours | 0     | 0     |     |       |     |       |        |       |       |       |       |       |
|          | Monthly Total     | 0     | 0     | 0   | 0     | 0   | 0     | 0      | 0     | 0     | 0     | 0     | 0     |
| May      | Meetings/Hours    | 0     | 0     |     |       |     |       |        |       |       |       |       |       |
|          | Conf. Calls/Hours | 0     | 0     |     |       |     |       |        |       |       |       |       |       |
|          | Monthly Total     | 0     | 0     | 0   | 0     | 0   | 0     | 0      | 0     | 0     | 0     | 0     | 0     |
| June     | Meetings/Hours    | 0     | 0     |     |       |     |       |        |       |       |       |       |       |
|          | Conf. Calls/Hours | 0     | 0     |     |       |     |       |        |       |       |       |       |       |
|          | Monthly Total     | 0     | 0     | 0   | 0     | 0   | 0     | 0      | 0     | 0     | 0     | 0     | 0     |
| July     | Meetings/Hours    | 0     | 0     |     |       |     |       |        |       |       |       |       |       |
|          | Conf. Calls/Hours | 0     | 0     |     |       |     |       |        |       |       |       |       |       |
|          | Monthly Total     | 0     | 0     | 0   | 0     | 0   | 0     | 0      | 0     | 0     | 0     | 0     | 0     |
| August   | Meetings/Hours    | 0     | 0     |     |       |     |       |        |       |       |       |       |       |
|          | Conf. Calls/Hours | 0     | 0     |     |       |     |       |        |       |       |       |       |       |
|          | Monthly Total     | 0     | 0     | 0   | 0     | 0   | 0     | 0      | 0     | 0     | 0     | 0     | 0     |



# North American Energy Standards Board

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## 2011 NAESB Meeting Analysis

| Month                | Event                    | Total      |              | WEQ        |              | WGQ       |              | Retail    |             | Joint      |              | Board     |           |
|----------------------|--------------------------|------------|--------------|------------|--------------|-----------|--------------|-----------|-------------|------------|--------------|-----------|-----------|
|                      |                          | #          | Hours        | #          | Hours        | #         | Hours        | #         | Hours       | #          | Hours        | #         | Hours     |
| September            | Meetings/Hours           | 0          | 0            |            |              |           |              |           |             |            |              |           |           |
|                      | Conf. Calls/Hours        | 0          | 0            |            |              |           |              |           |             |            |              |           |           |
|                      | Monthly Total            | 0          | 0            | 0          | 0            | 0         | 0            | 0         | 0           | 0          | 0            | 0         | 0         |
| October              | Meetings/Hours           | 0          | 0            |            |              |           |              |           |             |            |              |           |           |
|                      | Conf. Calls/Hours        | 0          | 0            |            |              |           |              |           |             |            |              |           |           |
|                      | Monthly Total            | 0          | 0            | 0          | 0            | 0         | 0            | 0         | 0           | 0          | 0            | 0         | 0         |
| November             | Meetings/Hours           | 0          | 0            |            |              |           |              |           |             |            |              |           |           |
|                      | Conf. Call/Hours         | 0          | 0            |            |              |           |              |           |             |            |              |           |           |
|                      | Monthly Total            | 0          | 0            | 0          | 0            | 0         | 0            | 0         | 0           | 0          | 0            | 0         | 0         |
| December             | Meetings/Hours           | 0          | 0            |            |              |           |              |           |             |            |              |           |           |
|                      | Conf. Call/Hours         | 0          | 0            |            |              |           |              |           |             |            |              |           |           |
|                      | Monthly Total            | 0          | 0            | 0          | 0            | 0         | 0            | 0         | 0           | 0          | 0            | 0         | 0         |
| <b>Total YE 2011</b> | <b>Meetings/Hours</b>    | <b>25</b>  | <b>126.5</b> | <b>10</b>  | <b>55</b>    | <b>7</b>  | <b>36.5</b>  | <b>3</b>  | <b>14</b>   | <b>4</b>   | <b>17</b>    | <b>1</b>  | <b>4</b>  |
|                      | <b>Conf. Calls/Hours</b> | <b>24</b>  | <b>81</b>    | <b>10</b>  | <b>44</b>    | <b>2</b>  | <b>4</b>     | <b>5</b>  | <b>14</b>   | <b>6</b>   | <b>16</b>    | <b>1</b>  | <b>3</b>  |
|                      | <b>Events/Hours</b>      | <b>49</b>  | <b>207.5</b> | <b>20</b>  | <b>99</b>    | <b>9</b>  | <b>40.5</b>  | <b>8</b>  | <b>28</b>   | <b>10</b>  | <b>33</b>    | <b>2</b>  | <b>7</b>  |
| <b>Total YE 2010</b> | <b>Meetings/Hours</b>    | <b>146</b> | <b>664.5</b> | <b>71</b>  | <b>341.5</b> | <b>43</b> | <b>207</b>   | <b>14</b> | <b>47.5</b> | <b>10</b>  | <b>48.5</b>  | <b>8</b>  | <b>20</b> |
|                      | <b>Conf. Calls/Hours</b> | <b>181</b> | <b>502.5</b> | <b>45</b>  | <b>195</b>   | <b>23</b> | <b>40.5</b>  | <b>18</b> | <b>66.5</b> | <b>91</b>  | <b>188.5</b> | <b>4</b>  | <b>12</b> |
|                      | <b>Events/Hours</b>      | <b>327</b> | <b>1167</b>  | <b>116</b> | <b>536.5</b> | <b>66</b> | <b>247.5</b> | <b>32</b> | <b>114</b>  | <b>101</b> | <b>237</b>   | <b>12</b> | <b>32</b> |
| <b>Total YE 2009</b> | <b>Meetings/Hours</b>    | <b>142</b> | <b>707.5</b> | <b>71</b>  | <b>380</b>   | <b>44</b> | <b>228.5</b> | <b>8</b>  | <b>27.5</b> | <b>11</b>  | <b>51.5</b>  | <b>8</b>  | <b>20</b> |
|                      | <b>Conf. Calls/Hours</b> | <b>137</b> | <b>354.5</b> | <b>51</b>  | <b>180</b>   | <b>20</b> | <b>41.5</b>  | <b>22</b> | <b>48</b>   | <b>42</b>  | <b>81</b>    | <b>2</b>  | <b>4</b>  |
|                      | <b>Events/Hours</b>      | <b>279</b> | <b>1062</b>  | <b>122</b> | <b>560</b>   | <b>64</b> | <b>270</b>   | <b>30</b> | <b>75.5</b> | <b>53</b>  | <b>132.5</b> | <b>10</b> | <b>24</b> |



# North American Energy Standards Board

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## Product Access YTD 2011:

- **Monthly:** The [copyright policy and list of companies](#) with authorized access to our standards is prepared monthly and posted on the NAESB web site. It includes all companies who have legal access to the NAESB standards.
- **February 28, 2011:** The copyright report as of March 1, 2011 is posted on the [web site](#). Statistics for purchases of standards are maintained monthly and can be seen below as of February 28, 2011.

## 2011 Purchases of NAESB Products

| Product/Month   | J         | F        | M        | A        | M        | J        | J        | A        | S        | O        | N        | D        | Total     |
|---|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| NAESB Home Page Access for Password Protected Area (\$3500)   | 2         | 2        |          |          |          |          |          |          |          |          |          |          | 4         |
| NAESB WGQ / REQ / RGQ Internet Electronic Transport Manual, Version 1.0 (\$150/\$900)                 | 0         | 0        |          |          |          |          |          |          |          |          |          |          | 0         |
| Retail Base Contract for Sales/Purchase of Natural Gas/Electricity (\$25/\$50)                        | 1         | 0        |          |          |          |          |          |          |          |          |          |          | 1         |
| WGQ Base Contract for Sales/Purchases of Natural Gas/FTAA/OBA (Versions 1.7 and older) (\$25/\$50 ea) | 0         | 0        |          |          |          |          |          |          |          |          |          |          | 0         |
| WGQ Base Contract for Sales/Purchases of Natural Gas/FTAA/OBA (Version 1.8, 1.9, 2.0) (\$25/\$50 ea)  | 3         | 2        |          |          |          |          |          |          |          |          |          |          | 5         |
| WGQ Electronic CD-Rom of Standards Manuals (Versions 1.8 and older) (\$150/\$900)                     | 0         | 0        |          |          |          |          |          |          |          |          |          |          | 0         |
| WGQ Electronic CD-Rom of Standards Manuals (Version 1.9) (\$150/\$900)                                | 0         | 1        |          |          |          |          |          |          |          |          |          |          | 1         |
| WGQ Electronic CD-Rom of Standards Manuals (Version 2.0) (\$150/\$900)                                | 6         | 1        |          |          |          |          |          |          |          |          |          |          | 7         |
| WEQ Electronic CD-Rom of Standards Manuals (Versions 002 and older) (\$150/\$900)                     | 0         | 0        |          |          |          |          |          |          |          |          |          |          | 0         |
| WEQ Electronic CD-Rom of Standards Manuals (Version 002.1) (\$150/\$900)                              | 0         | 0        |          |          |          |          |          |          |          |          |          |          | 0         |
| NAESB WGQ Contracts Course/ eTariff Workshop CD-Rom   | 0         | 0        |          |          |          |          |          |          |          |          |          |          | 0         |
| NAESB REQ/RGQ Model Business Practices CD-Rom (Versions 1.1 and older) (\$150/\$900)                  | 0         | 0        |          |          |          |          |          |          |          |          |          |          | 0         |
| Final Actions (\$50)  | 0         | 0        |          |          |          |          |          |          |          |          |          |          | 0         |
| <b>Total</b>  | <b>12</b> | <b>6</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>18</b> |



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## Non-Member Three-Day Limited Waivers

| Product  | J        | F        | M        | A        | M        | J        | J        | A        | S        | O        | N        | D        | Total    |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| NAESB Final Actions or Individual Standard Nos.      | 0        | 1        |          |          |          |          |          |          |          |          |          |          | 1        |
| WGQ Standards Manuals (Version 1.4 - 1.5)            | 0        | 0        |          |          |          |          |          |          |          |          |          |          | 0        |
| WGQ Standards Manuals (Version 1.6)                  | 0        | 0        |          |          |          |          |          |          |          |          |          |          | 0        |
| WGQ Standards Manuals (Version 1.7)                  | 0        | 0        |          |          |          |          |          |          |          |          |          |          | 0        |
| WGQ Standards Manuals (Version 1.8)                  | 0        | 0        |          |          |          |          |          |          |          |          |          |          | 0        |
| WGQ Standards Manuals (Version 1.9)                  | 0        | 0        |          |          |          |          |          |          |          |          |          |          | 0        |
| WGQ Standards Manuals (Version 2.0)                  | 0        | 0        |          |          |          |          |          |          |          |          |          |          | 0        |
| WEQ Standards Manuals (Version 001)                  | 0        | 0        |          |          |          |          |          |          |          |          |          |          | 0        |
| WEQ Standards Manuals (Version 002)                  | 0        | 0        |          |          |          |          |          |          |          |          |          |          | 0        |
| WEQ Standards Manuals (Version 002.1)                | 0        | 0        |          |          |          |          |          |          |          |          |          |          | 0        |
| NAESB REQ/RGQ Model Business Practices (Version 1.0) | 0        | 0        |          |          |          |          |          |          |          |          |          |          | 0        |
| NAESB REQ/RGQ Model Business Practices (Version 1.1) | 0        | 0        |          |          |          |          |          |          |          |          |          |          | 0        |
| NAESB REQ/RGQ Model Business Practices (Version 1.2) | 0        | 0        |          |          |          |          |          |          |          |          |          |          | 0        |
| <b>Total</b>   | <b>0</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>1</b> |



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## FINANCIAL REPORT YEAR-TO-DATE 2011 – ACCRUAL BASED, AS OF JANUARY 31, 2011

### BALANCE SHEET

|   |                       |
|---|-----------------------|
| Assets                                  |                       |
| Current Assets                          | \$774,391.06          |
| Accounts Receivable                     | \$268,300.00          |
| Fixed Assets                            | \$53,671.23           |
| Other Assets                            | \$21,626.00           |
| Total Assets                            | <u>\$1,117,988.29</u> |
| Liability & Equity                      |                       |
| Deferred Revenue and Deferred Rents (1) | \$97,652.41           |
| Accounts Payable                        | \$26,131.54           |
| Retained Earnings                       | (\$214,562.36)        |
| Net Income (1)                          | \$1,208,766.70        |
| Total Liability and Equity              | <u>\$1,117,988.29</u> |

### INCOME AND EXPENSE

|             |                       |
|-------------|-----------------------|
| Income      | \$1,370,043.16        |
| Expense (1) | \$161,276.46          |
| Net Income  | <u>\$1,208,766.70</u> |

### INCOME AND EXPENSES TO BUDGET - YTD

|                                  |                |
|----------------------------------|----------------|
| 2011 YTD Budget for Income       | \$1,370,195.50 |
| Income Variance (under budget)   | \$152.34       |
| 2011 YTD Budget for Expenses (1) | \$151,071.18   |
| Expenses Variance (over budget)  | (\$10,205.28)  |

### YEAR END ANALYSIS

|   |                |
|---|----------------|
| 2011 Budget                             | \$2,056,933.00 |
| Revenue YTD Actual                      | \$1,370,043.16 |
| Remaining Revenue Estimated through YE  | \$700,000.00   |
| Estimated YE Revenue                    | \$2,070,043.16 |
| Expenses YTD Actual (1)                 | \$161,276.46   |
| Remaining Expenses Estimated through YE | \$1,800,000.00 |
| Estimated YE Expenses                   | \$1,961,276.46 |
| Difference – YE Revenue – YE Expenses   | \$108,766.70   |



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## FINANCIAL REPORT YEAR-TO-DATE 2011 – ACCRUAL BASED, AS OF JANUARY 31, 2011

### CASH BASIS ANALYSIS

|                          |           |
|--------------------------|-----------|
| Beginning Balance 1-1-11 | \$779,646 |
| Total Cash Income        | \$132,160 |
| Total Costs              | \$169,763 |
| Ending Balance           | \$742,043 |

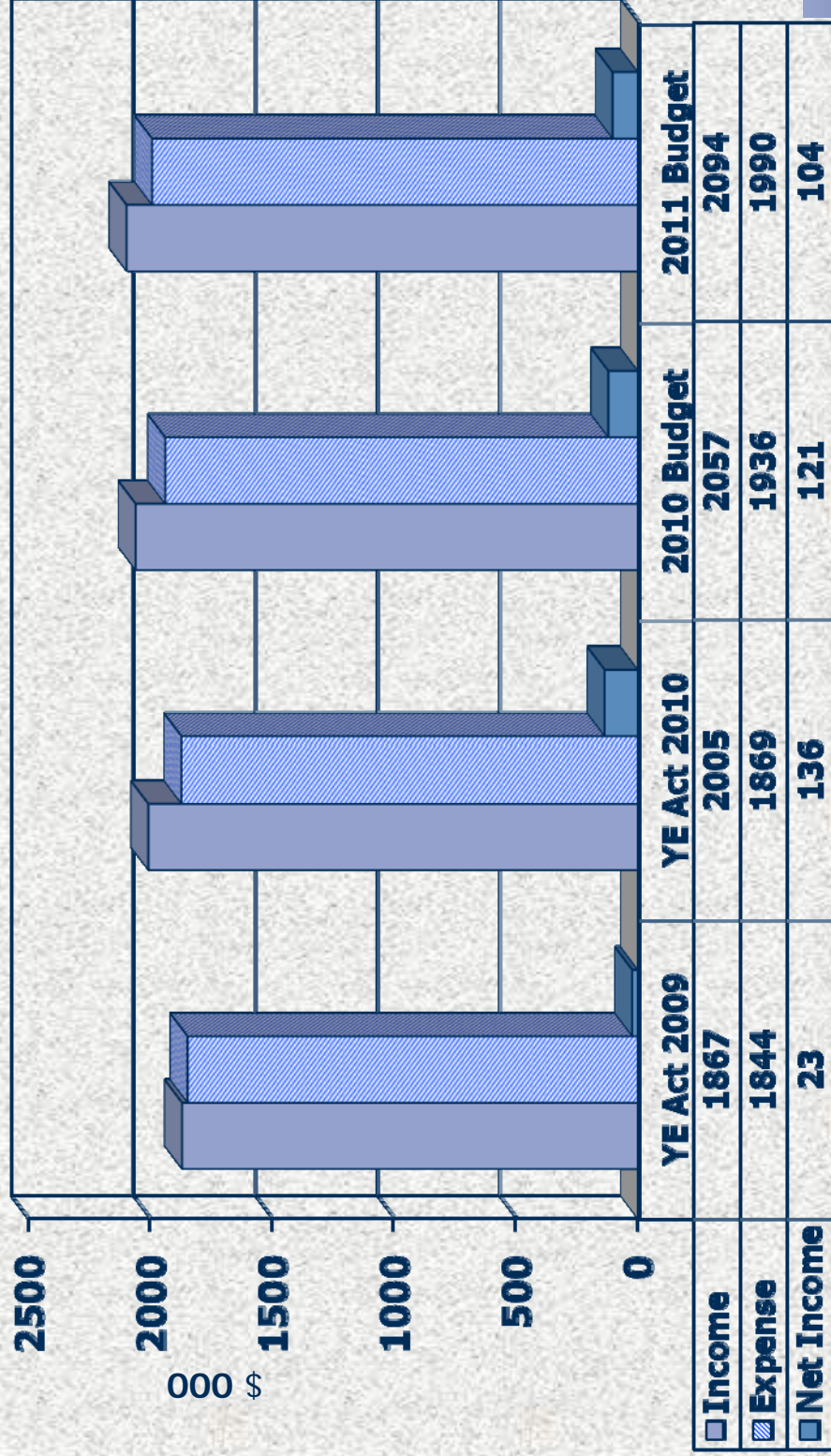
### ACCOUNTS RECEIVABLE ANALYSIS

|                                     |              |
|-------------------------------------|--------------|
| Accounts Receivable                 | \$268,300.00 |
| Items more than 90 Days Outstanding | \$13,000.00  |
| Items 90 Days or more Outstanding   | \$6,500.00   |
| Items 60 Days Outstanding           | \$6,500.00   |
| Items 30 Days or less Outstanding   | \$242,300.00 |

- (2) With the IRS changes, it is a requirement to take rents and allot the payments evenly over the term of the lease rather than accounting for the rents as they are billed and paid. As such will pre-pay \$44,016 in rents in 2011 that were not billed to NAESB in 2011. We will continue pre-payments through to May 1, 2011. The lease commencement date is June 25, 2010 and the expiration date is April 30, 2021. For the January 2011 expenses, the amount pre-paid was \$11,004.

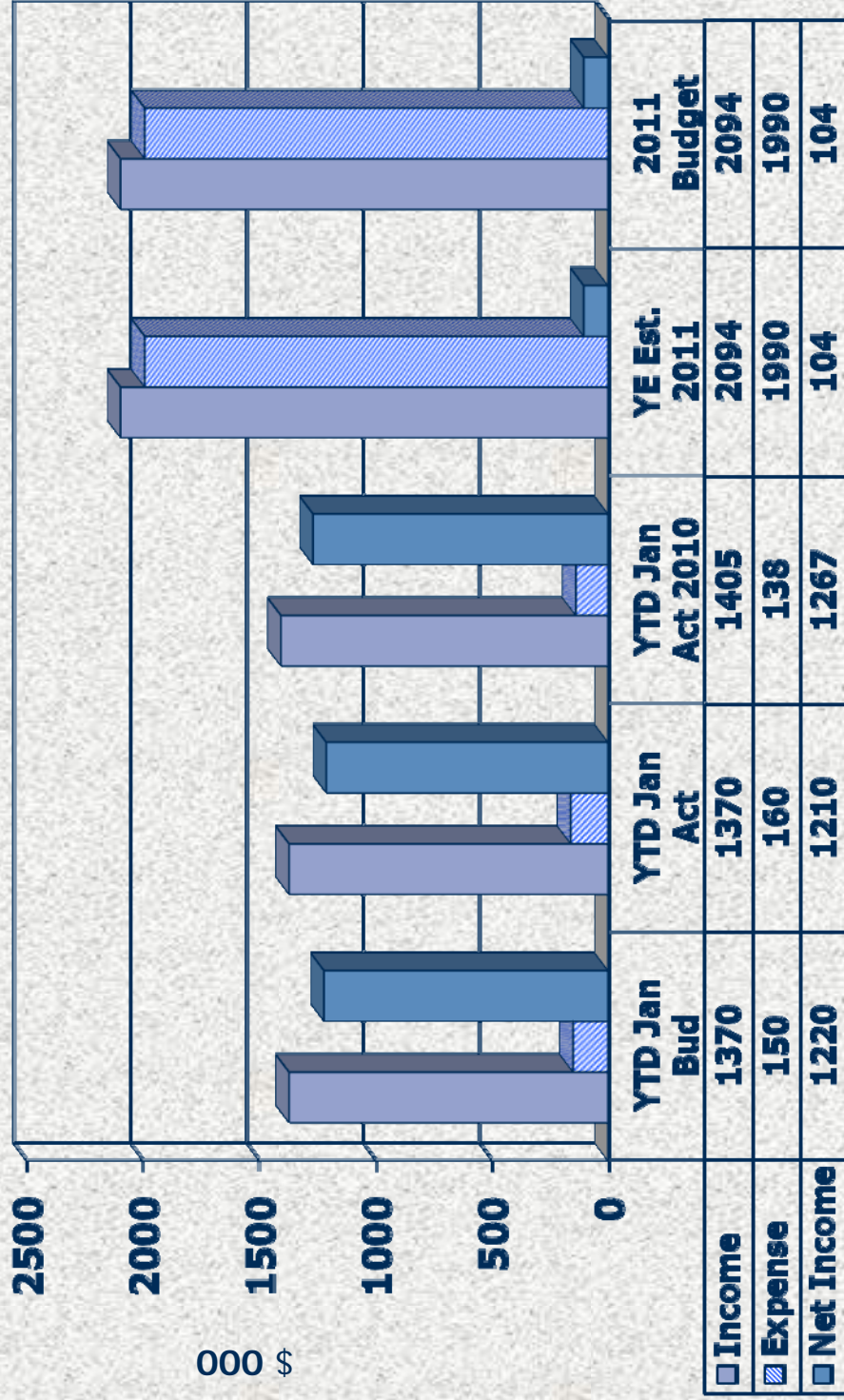
# North American Energy Standards Board Board of Directors Meeting – 3-24-11

2010 YE Actuals Compared to 2010 & 2011 Budget and 2009 YE Actuals



# North American Energy Standards Board Board of Directors Meeting – 3-24-11

As of January 2011 Accrual Based Income and Expenses





## North American Energy Standards Board

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March 10, 2011

**TO:** NAESB Resources committee  
**FROM:** Rae McQuade, NAESB President and COO  
**RE:** Membership Analysis, Vacancies on the Board and EC, Membership Prospects – March 10, 2011

---

via email

Dear NAESB Resources Committee:

This report has several parts, all of which should provide information to support the committee as it determines actions to take to solicit participation and membership in NAESB. We truly appreciate your efforts in helping grow our organization --

Best Regards,

*Rae*

Enclosures:

- (1) Resources Committee Roster
- (2) Membership Prospects: (a) short-term, (b) wind generators, (c) solar, (d) demand side management – energy efficiency, (e) groups, (f) long-term, (g) smart grid – technology companies
- (3) New Members in 2010 and 2011
- (4) Member Resignations in 2010 and 2011
- (5) Vacancies on the Board and Executive Committee
- (6) Membership Roster Sorted by Company



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Attachment 1

### North American Energy Standards Board Board Resources Committee Roster

| Quadrant | Contact and Company                                 | Phone        | Email  |
|----------|---|--------------|--|
| WEQ      | Jeff Ackerman, Western Area Power Administration    | 970-240-6209 | <a href="mailto:ackerman@wapa.gov">ackerman@wapa.gov</a>                           |
| WEQ      | Scott Brown, Exelon Corporation                     | 202-347-8096 | <a href="mailto:scott.brown@exeloncorp.com">scott.brown@exeloncorp.com</a>         |
| WEQ      | Michael Desselle, Southwest Power Pool              | 501-614-3206 | <a href="mailto:mdesselle@spp.org">mdesselle@spp.org</a>                           |
| WEQ      | Bruce Ellsworth, New York State Reliability Council | 603-746-3447 | <a href="mailto:ellsworth@conket.com">ellsworth@conket.com</a>                     |
| WEQ      | Jesse Hurley, Shift Research, Inc.                  | 774-262-9093 | <a href="mailto:jesse.hurley@shiftresearch.com">jesse.hurley@shiftresearch.com</a> |
| REQ      | Ruth Kiselewich, Baltimore Gas & Electric           | 410-470-1361 | <a href="mailto:ruth.c.kiselewich@bge.com">ruth.c.kiselewich@bge.com</a>           |
| RGQ      | Greg Lander, Commerce Energy Group                  | 978-535-7500 | <a href="mailto:glander@skippingstone.com">glander@skippingstone.com</a>           |
| RGQ      | Mike Novak, National Fuel Gas Distribution          | 716-857-7884 | <a href="mailto:novakm@natfuel.com">novakm@natfuel.com</a>                         |
| WGQ      | Lori-Lynn Pennock, Salt River Project               | 602-236-4360 | <a href="mailto:lori-lynn.pennock@srpnet.com">lori-lynn.pennock@srpnet.com</a>     |
| WGQ      | Keith Sappenfield, EnCana Oil & Gas (USA), Inc.     | 720-876-3693 | <a href="mailto:keith.sappenfield@encana.com">keith.sappenfield@encana.com</a>     |
| WGQ      | Jim Templeton, Comprehensive Energy Services        | 713-759-6999 | <a href="mailto:jrtemplton@aol.com">jrtemplton@aol.com</a>                         |
| WEQ      | Roy True, Aces Power Marketing                      | 317-344-7203 | <a href="mailto:royt@acespower.com">royt@acespower.com</a>                         |



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Attachment 2a

### NAESB Membership Prospects – Short Term, Individual Companies and Organizations

| Membership Prospects                             | Source         | Contact/Notes  | Assignment            |
|--|----------------|--|-----------------------|
| AARP   |                |  | S. Brown, J. Ackerman |
| ✓ <b>Accenture LLP</b><br>- <i>WGQ, Services</i> | R. McQuade     | Jeb Bartley – Joined   | D. Rager              |
| American Electric Power (AEP)                    | J Booe         | Randy Lowe – requested information in joining REQ (already a WEQ member) – sent information 01/13/2011<br><br>Daniel Rogier – requested information in joining REQ – sent information 01/31/2011 | D. Rager              |
| ATC  | S. Brown       | Bert Garvin – Scott will approach  | S. Brown              |
| <b>HPA</b> Big Apple                             | D. Rager       |  | D. Rager              |
| <b>HPA</b> Caerus Energy, LLC                    | D. Rager       |  | D. Rager              |
| Cavium Networks                                  | J. Hurley      |  | J. Hurley             |
| Direct Energy                                    | S. Brown       |  | S. Brown              |
| FCC  | J. Hurley      | Nick Signi   | J. Hurley             |
| GreenSmith Energy Management Systems             |                | Dr. Chen-Young – sent information on 12/3/08 as requested by R. McQuade  | R. McQuade            |
| General Electric                                 | S. Brown       |  | S. Brown              |
| GridPoint  | J. Hurley      |  | J. Hurley             |
| Hawaiian Electric Industries, Inc.               | K. Sappenfield | James A. Ajello – sent information packet 11/17/2010. Replied 11/18 will pass on to utility folks. He does not have the time – thanked NAESB for the opportunity.                                | D. Rager              |
| ✓ <b>Honeywell</b><br>- <i>REQ, End Users</i>    | J. Booe        | Dave Kaufman – Joined  | J. Booe               |
| <b>HPA</b> IGS Energy                            | D. Rager       |  | D. Rager              |
| KEMA   | S. Brown       |  | S. Brown              |
| International Transmission Company (ITC)         | S. Brown       | Terry Harvill – Scott met with Terry on July 8   | S. Brown              |
| Microsoft  | J. Hurley      | Chad Maglaque and Bill Harmon – sent information packet 11/17/2010 per J. Booe NAESB   | J. Hurley/J. Booe     |



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Attachment 2a

### NAESB Membership Prospects – Short Term, Individual Companies and Organizations

| Membership Prospects  | Source               | Contact/Notes  | Assignment          |
|---|----------------------|--|---------------------|
|   |                      | New contact Scott Harmon   |                     |
| <b>HPA</b> Morgan, Lewis & Bockius, LLP                                   | D. Rager             |  | D. Rager            |
| ✓ <b>Nalcor Energy</b><br>- <i>WEQ, Marketers/Brokers, Fed/State/Prov</i> | D. Rager             | Brad Coady – Joined  | D. Rager            |
| North Carolina PUC  | D. Koogler           |  |                     |
| * PAA Natural Gas Storage, LLC<br>- <i>WGQ, Services</i>                  | D. Rager             | Eileen W. Kisluk – received application 03/03/2011 <b>Pending Payment Receipt</b>                            | D. Rager            |
| PERI Software Solutions   | R. McQuade/C Freitas | Sarav Periasamy – sent membership information 8/24/2010  | R. McQuade/D. Rager |
| Sempa Power Systems   | R. McQuade/J. Booe   | Malcolm Metcalfe – called, sent membership information 08/30/2010  | J. Booe/D. Rager    |
| Shiple Energy Company   | M. Novak             | Brett Hoffmaster – sent membership information 03/10/2010; sent follow-up 06/10/2010                         | D. Rager            |
| Silver Springs Network  | J. Hurley            |  |                     |
| Solar Alliance, The   | S. Brown             | Carrie Cullen Hitt – Scott will contact with info provided by Rae. Carrie is presenting to her Board.        | S. Brown            |
| ✓ <b>SouthernStar Energy Corp</b><br>- <i>RGQ, Services</i>               | R. Cleveland         | Michael Braswell – Joined  | D. Rager            |
| Strategic Communications, LLC   | M. Novak             | Michael Meath – sent information packet 11/4/2010  | D. Rager            |
| Terremark   | J. Hurley            | Chris Day  |                     |
| Ultimate Clean  | Office               | Alan Barbish – sent information packet 11/10/2010  | D. Rager            |
| US Telecom  | J. Hurley            | Robert Mayer – sent information packets 05/24/2010   | J. Hurley/D. Rager  |
| Verisign (Symantec)   | J. Hurley            | Alex Decon   | J. Hurley           |
| Verizon   | J. Hurley            | Robert Heffron – sent information packets 05/24/2010; reply on 05/25/2010 will call; follow-up on 06/10/2010 | J. Hurley/D. Rager  |



## North American Energy Standards Board

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---

✓ = has joined NAESB

\* = membership application received/payment pending

× = not joining at this time

**HPA** = home page access



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Attachment 2b

### NAESB Membership Prospects – Wind Generators

| Membership Prospects | Source                       | Contact/Notes   | Assignment                              |
|----------------------|------------------------------|---|---|
| Acciona              | Resource<br>Committee        |   | S. Brown, R.<br>McQuade, M.<br>Desselle |
| First Wind           | Resource<br>Committee        | Kurt Adams  | S. Brown                                |
| Gamesa               | Resource<br>Committee        |   | S. Brown                                |
| Horizon              | Resource<br>Committee        |   | S. Brown, R.<br>McQuade, M.<br>Desselle |
| Iberdola             | Resource<br>Committee        |   | S. Brown, R.<br>McQuade, M.<br>Desselle |
| PNE Wind USA, Inc.   | M.<br>Desselle/R.<br>McQuade | Edmundo O. Toro – Rae sent<br>information 8/13/09. Not joining<br>at this time. | R. McQuade                              |



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Attachment 2c

### NAESB Membership Prospects – Solar

| Membership Prospects                    | Source             | Contact/Notes   | Assignment |
|---|--------------------|---|------------|
| Solar Alliance, The                     | S. Brown           | Carrie Cullen Hitt – Scott will contact with info provided by Rae. Carrie is presenting to her Board. | S. Brown   |
| Solar Trade Association                 | Resource Committee | Mack Thompson   |            |
| Solar Electric Power Association (SEPA) | Resource Committee | Julia Hamm, Executive Director  |            |



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Attachment 2d

NAESB Membership Prospects – Demand Side Management – Energy Efficiency  
 (*Bold = Active participant in DSM-EE activities.*)

| Membership Prospects   | Source                     | Contact/Notes   | Assignment |
|--|----------------------------|---|------------|
| Allegheny Energy, Inc.   | Participant<br>DSM         | <i>David P. Johnson, Cynthia A. Menhorn</i>   |            |
| Allegheny Power  | Participant<br>DSM         | <i>Terri Brabiak, Cassandra Robinson, Thomas Rone, Jason J. Wojciechowicz</i>         |            |
| Alliance to Save Energy  | Participant<br>DSM         | Steve Capanna, Joe Loper  |            |
| American Gas Association                                       | Participant<br>DSM         | Mariam Arnaout  |            |
| ANB Enterprises, Inc.  | Participant<br>DSM         | S. Blakrishnan  |            |
| Arizona Corporation Commission                                 | Participant<br>DSM         | Bob Gray  |            |
| Association of Energy Services Professionals (AESP)            | Participant<br>DSM         | Meg Matt  |            |
| Balhoff & Rowe, LLC  | Participant<br>DSM         | Bob Rowe  |            |
| Ballard Spahr Andrews & Ingersoll, LLP                         | Participant<br>DSM         | Howard H. Shafferman  |            |
| Bayboro EC, Inc.   | Participant<br>DSM         | Yolanda Mason   |            |
| BHMM Energy Services, LLC                                      | Participant<br>DSM         | Vicky A. Bailey   |            |
| Brattle Group, The   | Participant<br>DSM         | Philip Q. Hanser  |            |
| <b>Brickfield, Burchette, Ritts and Stone - HPA Subscriber</b> | Participant<br>DSM         | <b><i>Shaun Moher, Damon Xenopoulos</i></b>   |            |
| California Public Utility Commission                           | Participant<br>DSM         | Dian Grueneich  |            |
| CLEAResult Consulting  | Participant<br>DSM         | Eric Stern  |            |
| CLEAResult Incorporated  | Participant<br>DSM         | Glenn Garland, Jonathan Kleinman, John Oyhenart                                       |            |
| Climate Master   | Participant<br>DSM         | Dan Ellis, Robert Sallee  |            |
| Colorado Public Utilities Commission                           | Participant<br>DSM         | Jeff Hein   |            |
| Consortium for Energy Efficiency                               | Participant<br>DSM         | Marc Hoffman, Monica Nevius   |            |
| <b>CPower, Inc.</b>  | <b>Participant<br/>DSM</b> | <b><i>Janette Dudley, Murtaza Kapadia, Dirk Mahling, Nicholas Justice Planson</i></b> |            |
| <b>Demand Response Coordinating Committee</b>                  | <b>Participant<br/>DSM</b> | <b><i>Katherine George, Paul M. Pietsch</i></b>                                       |            |
| <b>Demand Response &amp; Energy Consulting, LLC</b>            | <b>Participant<br/>DSM</b> | <b><i>Marie Pieniasek</i></b>   |            |



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Attachment 2d

NAESB Membership Prospects – Demand Side Management – Energy Efficiency  
*(Bold = Active participant in DSM-EE activities.)*

| Membership Prospects                            | Source                     | Contact/Notes  | Assignment |
|---|----------------------------|--|------------|
| Distributed Energy Financial Group LLC          | Participant<br>DSM         | Jamie Wimberly   |            |
| Distribution Control Systems, Inc.              | Participant<br>DSM         | Ben Boyd   |            |
| District of Columbia Public Service Commission  | Participant<br>DSM         | Daniel Cleverdon   |            |
| Duquesne Light Company                          | Participant<br>DSM         | Dan Flaherty   |            |
| Eagle Energy Partners                           | Participant<br>DSM         | Mary Anne Berlinsky  |            |
| Efficiency Valuation Organization               | Participant<br>DSM         | John Cowan, Abraham Raher  |            |
| <b>Electric Power Research Institute (EPRI)</b> | <b>Participant<br/>DSM</b> | <b>Bob Entriken, Krish Gomatam,<br/>Jennifer Robinson, Bernie<br/>Neenan</b> |            |
| Electricity Consumers Resource Council (ELCON)  | Participant<br>DSM         | John Hughes  |            |
| Energy and Environmental Economics, Inc.        | Participant<br>DSM         | Ren Orans  |            |
| Energy Connect                                  | Participant<br>DSM         | Jacob Dobscha  |            |
| <b>Energy Curtailment Specialists, Inc.</b>     | <b>Participant<br/>DSM</b> | <b>Daniel Perez, Glen E. Smith,<br/>Paul Tyno</b>                            |            |
| Energy Regulatory Affairs, Alcoa, Inc.          | Participant<br>DSM         | Tom Gianneschi   |            |
| Energy Services Group                           | Participant<br>DSM         | George Behr  |            |
| Energy Trust of Oregon                          | Participant<br>DSM         | Fred Gordon  |            |
| Energy Washington Week                          | Participant<br>DSM         | David Clarke   |            |
| Bector Consulting                               | Participant<br>DSM         | Brett A. Perlman   |            |
| Environmental Law and Policy Center             | Participant<br>DSM         | John N. Moore  |            |
| Evergreen Software Inc.                         | Participant<br>DSM         | Marc Tannenbaum  |            |
| Fox, Smolen & Associates                        | Participant<br>DSM         | Paul N. Smolen   |            |
| Frontier Associates                             | Participant<br>DSM         | Phil Audet, Ed Garcia, John<br>McClain, Greg Landreth, Jay<br>Zarnikau       |            |
| Gainesville Regional Utilities                  | Participant<br>DSM         | Earl Fair  |            |
| Good Company Associates                         | Participant<br>DSM         | Greg Ewing, Steve Isser, Robert<br>King                                      |            |



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Attachment 2d

NAESB Membership Prospects – Demand Side Management – Energy Efficiency  
*(Bold = Active participant in DSM-EE activities.)*

| Membership Prospects   | Source             | Contact/Notes                              | Assignment |
|--|--------------------|--|------------|
| GoodCents  | Participant<br>DSM | Bill Bland, Robert Mason, Liza<br>Thompson |            |
| GreenSmith Energy Management Systems                                   | Participant<br>DSM | Michael Chen-Young                         |            |
| Gridpoint  | Participant<br>DSM | Marija Zivanovic                           |            |
| Honeywell  | Participant<br>DSM | Donna Harper                               |            |
| Honeywell Utility Solutions  | Participant<br>DSM | Thomas McMahon                             |            |
| Institute for Electric Efficiency                                      | Participant<br>DSM | TD Smith                                   |            |
| International Program Measurement and Verification<br>Protocol (IPMVP) | Participant<br>DSM | Steve Schiller                             |            |
| Itron, Inc.  | Participant<br>DSM | Chris Haslund, Dave Hanna                  |            |
| JEA  | Participant<br>DSM | PG (Bud) Para                              |            |
| Kansas City Power & Light  | Participant<br>DSM | Jason Jones                                |            |
| KEMA Services  | Participant<br>DSM | Daniel Waitroob                            |            |
| Kema/Xnergy  | Participant<br>DSM | Mimi Goldberg, Liz Hicks                   |            |
| Lawrence Berkeley National Laboratory                                  | Participant<br>DSM | Chuck Goldman, Gryason Heffner             |            |
| Lockheed Martin Information Technology                                 | Participant<br>DSM | Mark R. Bowen                              |            |
| Loeffler Tuggey Pauerstein Rosenthal, LLP                              | Participant<br>DSM | Rebecca A. Klein                           |            |
| Maine Office of Public Advocate  | Participant<br>DSM | Richard Davies                             |            |
| Maine Public Utilities Commission                                      | Participant<br>DSM | Denise Bergeron                            |            |
| Market Development Group   | Participant<br>DSM | Katherine Johnson                          |            |
| Mendota Group, LLC   | Participant<br>DSM | Grey Staples                               |            |
| Metropolitan Washington Council of Governments                         | Participant<br>DSM | Jeff King                                  |            |
| Midwest Energy Efficiency Alliance                                     | Participant<br>DSM | Alicia Ward                                |            |
| Monsanto   | Participant<br>DSM | Gary Kajander                              |            |
| National Association of State Utility Consumer Advocates               | Participant<br>DSM | Charles A. Acquard                         |            |
| National Energy Board  | Participant<br>DSM | John McCarthy                              |            |



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Attachment 2d

NAESB Membership Prospects – Demand Side Management – Energy Efficiency  
*(Bold = Active participant in DSM-EE activities.)*

| Membership Prospects  | Source                     | Contact/Notes   | Assignment       |
|---|----------------------------|---|------------------|
| National Energy Marketers Association                         | Participant<br>DSM         | Stacey Rantala  |                  |
| NC Utilities Commission – Public Staff                        | Participant<br>DSM         | Jack Floyd, Bob Hinton  |                  |
| New York Public Service Commission                            | Participant<br>DSM         | Diane Barney  |                  |
| New York Department of Public Service                         | Participant<br>DSM         | Alice Miller, Lia Rosi  |                  |
| New York State Department of Public Service                   | Participant<br>DSM         | Sigmund Peplowski, Stacey Harwood, William (Bill) Saxonis                               |                  |
| Nexus Market Research, Inc.                                   | Participant<br>DSM         | Greg Clendenning, Tim Pettit  |                  |
| Northeast Energy Efficiency Partnerships, Inc.                | Participant<br>DSM         | Julie Michals, Elizabeth Titus  |                  |
| Northeast Energy Efficiency Project                           | Participant<br>DSM         | Sue Coakley   |                  |
| Northrop Grumman, Tech. Services                              | Participant<br>DSM         | Thomas A. Adams   |                  |
| Northwest Power and Conservation Council                      | Participant<br>DSM         | Tom Eckman  |                  |
| <b>NSTAR Electric &amp; Gas</b>                               | <b>Participant<br/>DSM</b> | <b>David Olivier, Dave Weber, Lisa Shea</b>   | <b>J. Hurley</b> |
| Occidental Energy Ventures Corp                               | Participant<br>DSM         | Michelle D'Antuono  |                  |
| Occidental Chemical   | Participant<br>DSM         | Scott Wardle  |                  |
| Office of Weatherization and Intergovernmental Program, EE-2K | Participant<br>DSM         | Faith S. Lambert  |                  |
| Ontario Power Authority                                       | Participant<br>DSM         | Neil Hutchings  |                  |
| Otter Tail Power Company                                      | Participant<br>DSM         | Kim Pederson, Rebeca Wentler  |                  |
| Peak Load Management Association (PLMA)                       | Participant<br>DSM         | Elliott Boardman, Craig Boice   |                  |
| Policy Solutions  | Participant<br>DSM         | Anne Arquit   |                  |
| Praxair   | Participant<br>DSM         | David Meade   |                  |
| Public Utility Commission of Texas                            | Participant<br>DSM         | Shawnee Claiborn-Pinto, Cliff Crouch, Ernest Garcia, Theresa Gross, Voitech Yaroshevich |                  |
| RETX  | Participant<br>DSM         | Ross Malme  |                  |
| Southeast Energy Efficiency Alliance                          | Participant<br>DSM         | Kelly Ross Gillespie  |                  |
| Southern California Gas Company                               | Participant<br>DSM         | Lee Stewart   |                  |



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Attachment 2d

NAESB Membership Prospects – Demand Side Management – Energy Efficiency  
(*Bold = Active participant in DSM-EE activities.*)

| Membership Prospects                          | Source             | Contact/Notes                 | Assignment |
|---|--------------------|-------------------------------|------------|
| Southwest Energy Efficiency Alliance          | Participant<br>DSM | Howard Geller                 |            |
| Synapse Energy Economics                      | Participant<br>DSM | Paul Peterson                 |            |
| TecMarket Works                               | Participant<br>DSM | Nick Hall                     |            |
| The Gee Strategies Group                      | Participant<br>DSM | Robert W. Gee                 |            |
| The Regulatory Assistance Project             | Participant<br>DSM | Richard Sedano                |            |
| TXU Energy                                    | Participant<br>DSM | Mack Wallace                  |            |
| U.S. Environmental Protection Agency          | Participant<br>DSM | Stacy Angel, Nikolaas Dietsch |            |
| U.S. Demand Response Coordinating Committee   | Participant<br>DSM | Dan Delurey                   |            |
| University of Texas MD Anderson Cancer Center | Participant<br>DSM | Ron Russell                   |            |
| VA State Corporation Commission               | Participant<br>DSM | David R. Eichenlaub           |            |
| Vermont Energy Investment Corp.               | Participant<br>DSM | Bolleen Orsburn               |            |
| Vermont Public Service Board                  | Participant<br>DSM | Pam Stonier                   |            |
| Virginia State Corporation Commission         | Participant<br>DSM | Diane Jenkins                 |            |
| Warren Energy engineering, LLC                | Participant<br>DSM | Kevin Warren                  |            |



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Attachment 2e

### NAESB Membership Prospects – Groups

| Membership Prospects  | Source              | Contact/Notes  | Assignment                    |
|-----------------------|---------------------|--|-------------------------------|
| End Users             | Resources Committee | Should hold meetings with John Anderson for ideas after we begin the sessions for ISOs and RTOs.   | S Brown/M Desselle            |
| Munis and Coops       | Resources Committee | R. True will approach APPA and NRECA about opportunities to speak about NAESB to raise awareness and increase interest in membership. Mr. True followed up with APPA but will provide the NAESB office with a more up to date calendar prior of APPA events prior to the next meeting. | R. True                       |
| Western Groups - WECC | Resources Committee | WECC has been a member since May 2005. Conference call held with J Ackerman, B Schwermann, M Wells and L Westerfield. Meeting held on October 27 to speak to them about NAESB.   | S Brown/M Desselle/R. McQuade |
| ABBA Energy Limited   | Resource Committee  |  |                               |



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Attachment 2f

### NAESB Membership Prospects – Long Term

| Membership Prospects   | Source     | Contact/Notes                      | Assignment     |
|--|------------|------------------------------------|----------------|
| AES Corporation - Indianapolis Power & Light Company   | EEI - EPSA |                                    |                |
| Alaska Energy and Resources Company  | EEI        |                                    |                |
| ALLETE - Minnesota Power - Superior Water, Light and Power                                     | EEI        |                                    |                |
| Alliant Energy Corporation - Interstate Power and Light Co - Wisconsin Power and Light Co      | EEI        |                                    |                |
| Arizona Corporation Commission   | NERC       |                                    | R. True        |
| Avista Utilities   | EEI        |                                    |                |
| Big Rivers Electric Corp.  | NERC       |                                    |                |
| Central Vermont Public Service Corporation   | EEI        |                                    |                |
| CH Energy Group, Inc. - Central Hudson Gas & Electric Corp                                     | EEI        |                                    |                |
| Clarksdale Public Utilities Commission   | NERC       |                                    |                |
| DPL Inc. - The Dayton Power and Light Company  | EEI        |                                    |                |
| Duquesne Light Holdings - Duquesne Light Company   | EEI        |                                    | S. Brown       |
| East Kentucky Power Coop.  | NERC       |                                    | R. True        |
| El Paso Electric Company   | EEI        |                                    | M. Desselle    |
| Electric Energy, Inc.  | EEI        |                                    |                |
| Electric Power Research Institute  | NERC       |                                    |                |
| Farmington Electric Utility System   | NERC       |                                    |                |
| Goldman Sachs & Co.  | EPSA       |                                    | S. Brown       |
| Great Plains Energy, Inc. - Kansas City Power & Light Company                                  | EEI        |                                    | M. Desselle    |
| Great River Energy   | NERC       |                                    | R. True        |
| GridAmerica LLC  | NERC       |                                    |                |
| Hawaiian Electric Industries, Inc. - Hawaii Electric Light Co., Inc. - Maui Electric Co., Ltd. | EEI        | Sent information packet 11/17/2010 | K. Sappenfield |
| Huntsville Utilities   | NERC       |                                    |                |
| InterGen   | EPSA       |                                    |                |
| Kansas City Board of Public Utilities  | NERC       |                                    |                |
| MDU Resources Group, Inc. - Montana-Dakota Utilities Co.                                       | EEI        |                                    |                |
| MGE Energy, Inc. - Madison Gas and Electric Co.  | EEI        |                                    |                |
| Missouri Office of Public Counsel  | NERC       |                                    |                |
| Mt. Carmel Public Utility Company  | EEI        |                                    |                |
| National Energy & Gas Transmission Inc.  | EPSA       |                                    |                |
| National Energy Board  | NERC       |                                    |                |



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Attachment 2f

### NAESB Membership Prospects – Long Term

| Membership Prospects   | Source   | Contact/Notes | Assignment |
|--|----------|---------------|------------|
| Northeast Power Coordinating Council   |          |               | M Desselle |
| Northern Star Generation Co. -- NSTAR  | EPSA-EEI |               |            |
| Nuclear Management Company, LLC  | EEI      |               |            |
| Ohio Valley Electric Corporation   | EEI      |               |            |
| Omaha Public Power District  | NERC     |               |            |
| Ontario Energy Board   | NERC     |               |            |
| Pepco Holdings, Inc. - Pepco   | EEI      |               |            |
| Pinnacle West Capital Corporation -- (APS)                                     | EEI      |               |            |
| PNM Resources, Inc. - Public Service Co of New Mexico                          | EEI      |               |            |
| Praxair, Inc.  | NERC     |               |            |
| Quebec Energy Board  | NERC     |               |            |
| Shell Trading  | EPSA     |               | S. Brown   |
| Sierra Pacific Resources - Nevada Power Company - Sierra Pacific Power Company | EEI      |               |            |
| Sithe Energies Inc.  | EPSA     |               |            |
| Snohomish County PUD No.1  | NERC     |               |            |
| Strategic Energy LLC   | EPSA     |               |            |
| TECO Energy, Inc. - Tampa Electric Company                                     | EEI      |               | S. Brown   |
| TNP Enterprises, Inc. - Texas-New Mexico Power Company                         | EEI      |               |            |
| TransAlta  | NERC     |               |            |
| Trans-link   |          |               | M Desselle |
| UIL Holdings Corporation - The United Illuminating Company                     | EEI      |               |            |
| UniSource Energy Corporation - Tucson Electric Power Company                   | EEI      |               |            |
| Utah Public Service Commission   | NERC     |               |            |
| Vermont Electric Power Company, Inc.   | EEI      |               |            |
| Wheelabrator Technologies Inc.   | EPSA     |               |            |
| Wolf Creek Nuclear Operating Corporation                                       | EEI      |               |            |



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Attachment 2g

NAESB Membership Prospects – Smart Grid (Technology Companies)  
*(Bold = Active participant in DSM-EE activities.)*

| Membership Prospects                    | Source                   | Contact/Notes   | Assignment |
|---|--------------------------|---|------------|
| Abidance Consulting (DLC International) | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                        | D. Rager   |
| Aegix Consulting                        | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                        | D. Rager   |
| AESI-US, Inc.                           | S. Brown                 | Loreto D. Sarrachini - D. Rager - sent letter with membership information 4/23/2009 | D. Rager   |
| Agiliance, Inc.                         | S. Brown                 | Mark Lockareff - D. Rager - sent letter with membership information 4/23/2009       | D. Rager   |
| Akonix Systems, Inc.                    | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                        | D. Rager   |
| <b>Akuacom</b>                          | <b>Participant SGSTF</b> | <b>Edward Koch</b>  |            |
| Allen Systems Group, Inc.               | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                        | D. Rager   |
| AssurX, Inc.                            | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                        | D. Rager   |
| AUS, Inc.                               | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                        | D. Rager   |
| Axentis                                 | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                        | D. Rager   |
| Barbeion Software Corporation           | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                        | D. Rager   |
| BOW Networks                            | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                        | D. Rager   |
| <b>Bridge Energy Group, Inc.</b>        | <b>Participant SGSTF</b> | <b>Jim Walker</b>   |            |
| Bullzi Security, Inc.                   | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                        | D. Rager   |
| CA, Inc.                                | S. Brown                 | Bill Warren - D. Rager - sent letter with membership information 4/23/2009          | D. Rager   |



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Attachment 2g

### NAESB Membership Prospects – Smart Grid (Technology Companies)

*(Bold = Active participant in DSM-EE activities.)*

| Membership Prospects                  | Source                       | Contact/Notes  | Assignment     |
|---------------------------------------|------------------------------|--|----------------|
| Ceelox, Inc.                          | S. Brown                     | D. Rager - sent letter with membership information<br>4/23/2009              | D. Rager       |
| CipherOptics                          | S. Brown                     | D. Rager - sent letter with membership information<br>4/23/2009              | D. Rager       |
| Compliance Spectrum                   | S. Brown                     | D. Rager - sent letter with membership information<br>4/23/2009              | D. Rager       |
| ControlPath                           | S. Brown                     | D. Rager - sent letter with membership information<br>4/23/2009              | D. Rager       |
| Cooper Power Systems, Inc. (Cybectec) | S. Brown                     | D. Rager - sent letter with membership information<br>4/23/2009              | D. Rager       |
| CoreTrace Corporation                 | S. Brown                     | D. Rager - sent letter with membership information<br>4/23/2009              | D. Rager       |
| Corpedia, Inc.                        | S. Brown                     | D. Rager - sent letter with membership information<br>4/23/2009              | D. Rager       |
| Critical Watch                        | S. Brown                     | D. Rager - sent letter with membership information<br>4/23/2009              | D. Rager       |
| Corporate Risk Solutions, Inc.        | S. Brown                     | D. Rager - sent letter with membership information<br>4/23/2009              | D. Rager       |
| Deloitte & Touche, LLP                | S. Brown                     | D. Rager - sent letter with membership information<br>4/23/2009              | D. Rager       |
| Dyonyx                                | S. Brown                     | Fred Pratt - D. Rager - sent letter with membership information<br>4/23/2009 | D. Rager       |
| Ember                                 | S. Brown                     | D. Rager - sent letter with membership information<br>4/23/2009              | D. Rager       |
| <b>EnerNex Corporation</b>            | <b>Participant<br/>SGSTF</b> | <b>Erich W. Gunther</b>  | <b>J. Booe</b> |
| EnerVision, Inc.                      | S. Brown                     | D. Rager - sent letter with membership information<br>4/23/2009              | D. Rager       |
| ENOSERV                               | S. Brown                     | D. Rager - sent letter with membership information                           | D. Rager       |



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Attachment 2g

### NAESB Membership Prospects – Smart Grid (Technology Companies)

*(Bold = Active participant in DSM-EE activities.)*

| Membership Prospects                 | Source                   | Contact/Notes  | Assignment |
|--------------------------------------|--------------------------|--|------------|
|                                      |                          | 4/23/2009  |            |
| Eviance                              | S. Brown                 | D. Rager - sent letter with membership information<br>4/23/2009                | D. Rager   |
| Erado Message Control Solutions      | S. Brown                 | D. Rager - sent letter with membership information<br>4/23/2009                | D. Rager   |
| ERLPhase Power Technologies, Ltd.    | S. Brown                 | Michael Weiblen - D. Rager - sent letter with membership information 4/23/2009 | D. Rager   |
| EthicsPoint, Inc.                    | S. Brown                 | D. Rager - sent letter with membership information<br>4/23/2009                | D. Rager   |
| Eureka Software                      | S. Brown                 | D. Rager - sent letter with membership information<br>4/23/2009                | D. Rager   |
| FishNet Security, Inc.               | S. Brown                 | D. Rager - sent letter with membership information<br>4/23/2009                | D. Rager   |
| <b>Fix Protocol</b>                  | <b>Participant SGSTF</b> | <b>Kathleen Callahan, Courtney Doyle, Jim Northey, Ryan Pierce</b>             |            |
| <b>General Electric</b>              | <b>Participant SGSTF</b> | <b>Charles Smith</b>   |            |
| Gilliam Wesley International         | S. Brown                 | D. Rager - sent letter with membership information<br>4/23/2009                | D. Rager   |
| Global DataGuard, Inc.               | S. Brown                 | D. Rager - sent letter with membership information<br>4/23/2009                | D. Rager   |
| <b>Gridpoint</b>                     | <b>Participant SGSTF</b> | <b>R. Scott Crowder, III, Stephen Haber</b>                                    |            |
| <b>Gridwise Architecture Council</b> | <b>Participant SGSTF</b> | <b>Dr. Kenneth P. Wacks</b>  |            |
| Grier Consulting Group, LLC          | S. Brown                 | Chris Grier - D. Rager - sent letter with membership information<br>4/23/2009  | D. Rager   |
| HP Atalla Security Products          | S. Brown                 | D. Rager - sent letter with membership information<br>4/23/2009                | D. Rager   |
| Industrial Defender                  | S. Brown                 | D. Rager - sent letter with membership information<br>4/23/2009                | D. Rager   |



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| Membership Prospects                         | Source                   | Contact/Notes  | Assignment |
|--|--------------------------|--|------------|
| Industry Compliance Institute                | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                   | D. Rager   |
| Intellibind                                  | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                   | D. Rager   |
| Ivara Corporation                            | S. Brown                 | Kathy Steel - D. Rager - sent letter with membership information 4/23/2009     | D. Rager   |
| Jefferson Wells                              | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                   | D. Rager   |
| KEMA   | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                   | D. Rager   |
| Kestrel Power Engineering, LLC               | S. Brown                 | Mike Fogarty - D. Rager - sent letter with membership information 4/23/2009    | D. Rager   |
| KPMG LLP                                     | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                   | D. Rager   |
| <b>Lawrence Berkeley National Laboratory</b> | <b>Participant SGSTF</b> | <b>Dave Watson</b>   |            |
| LogRhythm, Inc.                              | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                   | D. Rager   |
| Loma Consulting                              | S. Brown                 | Earl S. Hill - D. Rager - sent letter with membership information 4/23/2009    | D. Rager   |
| The MathWorks                                | S. Brown                 | Jack Little - D. Rager - sent letter with membership information 4/23/2009     | D. Rager   |
| Matrikon                                     | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                   | D. Rager   |
| McCoy Power Consultants                      | S. Brown                 | Steven W. McCoy - D. Rager - sent letter with membership information 4/23/2009 | D. Rager   |
| Methodware                                   | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                   | D. Rager   |
| MetricStream, Inc.                           | S. Brown                 | Gunjan Sinha - D. Rager - sent letter with membership                          | D. Rager   |



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| Membership Prospects                         | Source                   | Contact/Notes   | Assignment |
|--|--------------------------|---|------------|
|  |                          | information 4/23/2009   |            |
| MLJ Energy Group                             | S. Brown                 | Michael T. Brown - D. Rager - sent letter with membership information 4/23/2009 | D. Rager   |
| NCircle Network Security                     | S. Brown                 | Abe Kleinfeld - D. Rager - sent letter with membership information 4/23/2009    | D. Rager   |
| N-Dimension Solutions Inc.                   | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                    | D. Rager   |
| NetVision                                    | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                    | D. Rager   |
| Network & Security Technologies, Inc.        | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                    | D. Rager   |
| Nexant, Inc.                                 | S. Brown                 | Basem Sarandah - D. Rager - sent letter with membership information 4/23/2009   | D. Rager   |
| North American Energy Services               | S. Brown                 | D. Rager - sent letter with membership information 4/23/2009                    | D. Rager   |
| Oxford Consulting                            | S. Brown                 | Michelle Abreu - D. Rager - sent letter with membership information 4/23/2009   | D. Rager   |
| <b>Pacific Northwest National Laboratory</b> | <b>Participant</b>       | <b>Steve Widergren</b>  |            |
| Policy Technologies International, Inc.      | <b>SGSTF</b><br>S. Brown | D. Rager - sent letter with membership information 4/24/2009                    | D. Rager   |
| <b>Portland Gas and Electric</b>             | <b>Participant</b>       | <b>Albert Chiu</b>  |            |
| Power Decisions Consulting                   | <b>SGSTF</b><br>S. Brown | D. Rager - sent letter with membership information 4/24/2009                    | D. Rager   |
| POWER Testing and Energization, Inc.         | S. Brown                 | D. Rager - sent letter with membership information 4/24/2009                    | D. Rager   |
| Powersmiths International, Inc.              | S. Brown                 | D. Rager - sent letter with membership information 4/24/2009                    | D. Rager   |
| PricewaterhouseCoopers LLP                   | S. Brown                 | D. Rager - sent letter with membership information 4/24/2009                    | D. Rager   |



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| Membership Prospects                | Source   | Contact/Notes  | Assignment |
|-------------------------------------|----------|--|------------|
| Quality Plus Engineering, LLC       | S. Brown | Greg Hutchins - D. Rager - sent letter with membership information 4/24/2009           | D. Rager   |
| Quanta Technology                   | S. Brown | James (Jim) M. Blackman - D. Rager - sent letter with membership information 4/24/2009 | D. Rager   |
| Quizzicle                           | S. Brown | D. Rager - sent letter with membership information 4/29/2009                           | D. Rager   |
| RavenEye                            | S. Brown | D. Rager - sent letter with membership information 4/29/2009                           | D. Rager   |
| Resolver, Inc.                      | S. Brown | D. Rager - sent letter with membership information 4/29/2009                           | D. Rager   |
| Rocky Mountain Power Services, Inc. | S. Brown | Matthew Fulk - D. Rager - sent letter with membership information 4/29/2009            | D. Rager   |
| RW Beck                             | S. Brown | D. Rager - sent letter with membership information 4/29/2009                           | D. Rager   |
| Securicon, LLC                      | S. Brown | D. Rager - sent letter with membership information 4/29/2009                           | D. Rager   |
| SecuSolutions Ltd.                  | S. Brown | D. Rager - sent letter with membership information 4/29/2009                           | D. Rager   |
| SenSage, Inc.                       | S. Brown | D. Rager - sent letter with membership information 4/29/2009                           | D. Rager   |
| Sirius Solutions, LLP               | S. Brown | D. Rager - sent letter with membership information 4/29/2009                           | D. Rager   |
| Slalom Consulting                   | S. Brown | Brian Jacobsen - D. Rager - sent letter with membership information 4/29/2009          | D. Rager   |
| Softential, Inc.                    | S. Brown | D. Rager - sent letter with membership information 4/29/2009                           | D. Rager   |
| SOURCEfire                          | S. Brown | D. Rager - sent letter with membership information                                     | D. Rager   |



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Attachment 2g

NAESB Membership Prospects – Smart Grid (Technology Companies)  
*(Bold = Active participant in DSM-EE activities.)*

| Membership Prospects                          | Source                       | Contact/Notes   | Assignment |
|---|------------------------------|---|------------|
|   |                              | 4/29/2009   |            |
| Southwest Microwave, Inc.                     | S. Brown                     | D. Rager - sent letter with membership information<br>4/29/2009                 | D. Rager   |
| Sph3r3, LLC                                   | S. Brown                     | D. Rager - sent letter with membership information<br>4/29/2009                 | D. Rager   |
| Structure Consulting Group, LLC               | S. Brown                     | Mike Peterson - D. Rager - sent letter with membership information 4/29/2009    | D. Rager   |
| Surf Technologies, Inc.                       | S. Brown                     | Jacques Davignon - D. Rager - sent letter with membership information 4/29/2009 | D. Rager   |
| Symantec                                      | S. Brown                     | D. Rager - sent letter with membership information<br>4/29/2009                 | D. Rager   |
| System Operations Success, Int'l. (SOS Int'l) | S. Brown                     | D. Rager - sent letter with membership information<br>4/29/2009                 | D. Rager   |
| Telkonet, Inc.                                | S. Brown                     | Jason L. Tienor - D. Rager - sent letter with membership information 4/29/2009  | D. Rager   |
| Teltone                                       | S. Brown                     | D. Rager - sent letter with membership information<br>4/29/2009                 | D. Rager   |
| Towerline Software                            | S. Brown                     | D. Rager - sent letter with membership information<br>4/29/2009                 | D. Rager   |
| TriGeo Network Security                       | S. Brown                     | D. Rager - sent letter with membership information<br>4/29/2009                 | D. Rager   |
| Tripwire                                      | S. Brown                     | D. Rager - sent letter with membership information<br>4/29/2009                 | D. Rager   |
| Utility Decision Support (UDS) Group          | S. Brown                     | D. Rager - sent letter with membership information<br>4/29/2009                 | D. Rager   |
| Universal Safety Response, Inc.               | S. Brown                     | D. Rager - sent letter with membership information<br>4/29/2009                 | D. Rager   |
| <b>University of North Carolina</b>           | <b>Participant<br/>SGSTF</b> | <b>Toby Considine</b>   |            |



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### NAESB Membership Prospects – Smart Grid (Technology Companies)

*(Bold = Active participant in DSM-EE activities.)*

| Membership Prospects                    | Source                       | Contact/Notes   | Assignment |
|---|------------------------------|---|------------|
| Utility Services LLC                    | S. Brown                     | D. Rager - sent letter with membership information 4/29/2009                  | D. Rager   |
| Utility System Efficiencies, Inc.       | S. Brown                     | Daniel H. Wood - D. Rager - sent letter with membership information 4/29/2009 | D. Rager   |
| Vidient                                 | S. Brown                     | Frank Pao - D. Rager - sent letter with membership information 4/29/2009      | D. Rager   |
| Vigilant Power Solutions, Inc.          | S. Brown                     | D. Rager - sent letter with membership information 4/29/2009                  | D. Rager   |
| Verisign                                | S. Brown                     | D. Rager - sent letter with membership information 4/29/2009                  | D. Rager   |
| <b>Xtensible Solutions</b>              | <b>Participant<br/>SGSTF</b> | <b>Joe Zhou</b>   |            |
| Z Global Engineering & Energy Solutions | S. Brown                     | Ziad Alaywan - D. Rager - sent letter with membership information 4/29/2009   | D. Rager   |



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Attachment 3

### North American Energy Standards Board New Members since January 2011

| Quadrant | Segment           | Contact and Company                                   | Reason Joined | Month Joined |
|----------|-------------------|---|---------------|--------------|
| REQ      | End Users         | Honeywell International, Inc.<br>Contact: Steve Gabel | Participation | February     |
| WEQ      | Marketers/Brokers | Nalcor Energy<br>Contact: Brad Coady                  | Participation | March        |



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Attachment 3

### North American Energy Standards Board New Members since January 2010

| Quadrant | Segment                     | Contact and Company  | Reason Joined | Month Joined |
|----------|-----------------------------|--|---------------|--------------|
| WEQ      | Technology/Services         | 8760, Inc.<br>Contact: Jim Buccigross  | Participation | January      |
| WGQ      | Services                    | Accenture, LLP<br>Contact: Jeff Miers  | Participation | December     |
| WGQ      | LDC                         | AGL Resources, Inc.<br>Contact: Ralph Cleveland  | Participation | August       |
| WGQ      | Pipeline                    | American Midstream Partners, LP<br>Contact: Marty Patterson  | Participation | March        |
| WEQ      | Transmission                | Avista Corporation<br>Contact: Jeff Schlect  | Participation | January      |
| WEQ      | Marketers/Brokers           | Brookfield Energy Marketing, Inc<br>Contact: Nicolas Bosse   | Participation | March        |
| WGQ      | Services                    | Cenovus Energy, Inc.<br>Contact: Paul Kahler   | Participation | January      |
| REQ      | Service Providers/Suppliers | Comverge, Inc.<br>Contact: Wendell Miyaji  | Participation | May          |
| WGQ      | LDC                         | Eastern Shore Natural Gas Company<br>Contact: Elaine B. Bittner  | Participation | June         |
| WEQ      | End Users                   | Energy Curtailment Specialists, Inc.<br>Contact: Marie Pieniazek   | Participants  | April        |
| WEQ      | Transmission                | LG&E and KU Services Company<br>Contact:   | Participants  | October      |
| REQ      | End Users/Public Agencies   | Maryland Public Service Commission<br>Contact: Dan Norfolk   | Participation | January      |
| REQ      | End Users/Public Agencies   | National Association of Regulatory Utility Commissioners   | Participation | November     |
| WEQ      | Technology/Services         | National Institute of Standards and Technology<br>Contact: David A. Wollman                                | Participation | February     |
| REQ      | End Users/Public Agencies   | Navigant Consulting, Inc.<br>Contact: Kevin Cooney   | Participation | August       |
| WEQ      | Transmission                | Nebraska Public Power District<br>Contact: Don Schmit  | Participation | April        |
| WEQ      | Technology/Services         | Organization for the Advancement of Structured Information Standards (OASIS)<br>Contact: Laurent M. Liscia | Participation | January      |
| WEQ      | Marketers/Brokers           | Progress Energy<br>Contact: James Eckelkamp  | Participation | August       |
| REQ      | End Users                   | Public Utilities Commission of Ohio  | Participation | February     |



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Attachment 3

### North American Energy Standards Board New Members since January 2010

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|     |                                |  |               |          |
|-----|--------------------------------|--|---------------|----------|
|     |                                | Contact: Christopher Kotting   |               |          |
| WEQ | End Users                      | Public Utilities Commission of Ohio<br>Contact: Christopher Kotting  | Participation | February |
| WGQ | Pipeline                       | Sempra Pipelines & Storage Corp.<br>Contact: Martine Blair           | Participation | July     |
| RGQ | Service<br>Providers/Suppliers | Sierra Southwest Cooperative Services, Inc.<br>Contact: Rick Vogel   | Participation | May      |
| WGQ | Services                       | SNL Financial<br>Contact: Katrina Sumey                              | Participation | August   |
| RGQ | End Users                      | SouthStar Energy Corp<br>Contact: Michael Braswell, Joseph C. Monroe | Participation | December |
| WEQ | Technology/Services            | Utility Integration Solutions, Inc.<br>Contact: Dr. Scott Coe        | Participation | August   |



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Attachment 4

### North American Energy Standards Board Member Resignations in 2011

| Quadrant | Segment           | Contact and Company  | Reason Resigned  | Month Resigned |
|----------|-------------------|--|--|----------------|
| WEQ      | Generation        | American Wind Energy Association<br>Contact: Tom Vinson                        | <i>Non renewal</i>   | February       |
| WEQ      | Marketers/Brokers | Electric Power Supply Association<br>Contact: Jack Cashin                      | Non renewal due to resources/budget changes for 2011   | February       |
| WGQ      | Producer          | High Mount Exploration & Production, LLC<br>Contact: David Walker              | Non renewal – elected to discontinue participation   | February       |
| WEQ      | Transmission      | Modesto Irrigation District<br>Contact: Roger Van Hoy                          | No reason given for non renewal  | January        |
| WGQ      | LDC               | National Fuel Gas Distribution<br>Contact: Michael Novak                       | Non renewal – keeping Retail Gas Quadrant membership only  | January        |
| WGQ      | Pipeline          | Reliance Gas Transportation Infrastructure Limited<br>Contact: Jagjit S. Yadav | No reason given for non renewal  | March          |
| WGQ      | Pipeline          | Southern Natural Gas Co.<br>Contact: Renee Hyde                                | Non renewal – affiliated pipelines Tennessee Gas Pipeline and El Paso Natural Gas remaining as members | February       |



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Attachment 4

### North American Energy Standards Board Member Resignations in 2010

| Quadrant | Segment                     | Contact and Company  | Reason Resigned  | Month Resigned |
|----------|-----------------------------|--|--|----------------|
| WGQ      | Services                    | Anadarko Energy Services Company                                     | No reason given for non renewal  | May            |
| WGQ      | Producers                   | Apache Corporation   | Not using membership   | November       |
| WEQ      | Marketers/Brokers           | APS Marketing and Trading  | No reason given for non renewal  | March          |
| RGQ      | Services                    | Clarity Systems, Ltd<br>Contact: Steve O'Neil                        | No reason given for non renewal  | December       |
| WEQ      | Generation                  | Conectiv Energy Supply, Inc.   | Company sold   | October        |
| WEQ      | Generation                  | Entegra Power Group, LLC   | Does not see the need for membership   | August         |
| WGQ      | Producer                    | Foothills Energy Ventures, LLC                                       | No reason given for non renewal  | April          |
| WGQ      | Producer                    | Goodrich Petroleum   | Non-renewal (Economic Conditions)  | June           |
| RGQ      | Service Providers/Suppliers | Interstate Gas Supply  | Non-renewal (Switched to HPA)  | March          |
| WGQ      | End Users                   | Mirant Energy Trading, LLC   | No reason given for non renewal  | June           |
| WEQ      | Distribution                | NCMPA1   | No reason given for non renewal  | June           |
| REQ      | Service Providers/Suppliers | North Carolina Advanced Energy Corporation                           | No reason given for non renewal  | October        |
| WGQ      | Pipeline                    | Pacific Gas & Electric   | No reason given for non renewal  | January        |
| WGQ      | Services                    | Platts   | No reason given for non renewal  | August         |
| WEQ      | Marketers/Brokers           | Progress Energy  | Company decision to not renew – only keeping one memberships                             | February       |
| WEQ      | Transmission                | Public Service Electric and Gas Company<br>Contact: Kenneth D. Brown | Non renewal due to budgetary constraints   | December       |
| WEQ      | End Users                   | SonicWALL, Inc.  | No reason given for non renewal.   | October        |
| WEQ      | Generation                  | Southeastern Power Administration                                    | No reason given for non renewal  | January        |
| WEQ      | Marketers/Brokers           | Tampa Electric Company   | Lack of personnel to follow standards development process                                | September      |
| WEQ      | Marketers/Brokers           | TransAlta Energy Marketing Canada                                    | Changed to Home Page Access  | November       |
| WEQ      | IGO                         | TranServ International, Inc.   | Non-renewal (NAESB WEQ, IGO segment is not applicable to their core business any longer) | April          |



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Attachment 5

### North American Energy Standards Board and Executive Committee Vacancies as of March 10, 2011

| Vacant Seats            | Quadrant                | Seat                    | Segment  | Subsegment   |   |
|-------------------------|-------------------------|-------------------------|--|--|---|
| 4                       | Retail Electric         | Board (2)               | End Users/Public Agencies (2)  |  |   |
|                         |                         | Executive Committee (2) | End Users/Public Agencies (2)  |  |   |
| 12                      | Retail Gas              | Board (5)               | Distributors (1)<br>End Users/Public Agencies (4)                                    |  |   |
|                         |                         | Executive Committee (7) | Distributors (1)<br>End User /Public Agencies (4)<br>Service Providers/Suppliers (2) |  |   |
| 24                      | Wholesale Electric      | Board (10)              | Distribution/Load Serving Entities (LSE) (1)   | Competitive Retailer (at large) (1)                          |   |
|                         |                         |                         | Transmission (2)   | IOU (at large) (1)<br>At-Large (at large)(1)                 |   |
|                         |                         |                         | Generation (1)   | Merchant(1)  |   |
|                         |                         |                         | Marketers/Brokers (2)  | At-Large (at large) (1)<br>Not IOU Affiliated (at large) (1) |   |
|                         |                         |                         | End User (2)   | Large Industrial (at large) (1)<br>At Large (1)              |   |
|                         |                         |                         | Technology/Services (2)  |  |   |
|                         |                         |                         | Executive Committee (14)   | End User (3)   | Large Industrial (at large)(1)<br>Commercial/Residential (at large)(1)<br>End Use (In other segments) (at large)(1) |
|                         |                         |                         | Transmission (1)   | Fed/State/Prov (1)   |   |
|                         |                         |                         | Distribution/LSE (1)   | Muni/Coop (at large)(1)                                      |   |
|                         |                         |                         | Marketers/Brokers (2)  | Not IOU Affiliated (at large) (1)<br>At Large (at large) (1) |   |
| Technology/Services (5) |                         |                         |  |  |   |
| Generation (2)          | IOU (1)<br>at large (1) |                         |  |  |   |
| 3                       | Wholesale Gas           | Board (2)               | LDC (2)  |  |   |
|                         |                         | Executive Committee (1) | LDC (1)  |  |   |



## North American Energy Standards Board

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### Membership Roster Sorted by Company as of March 10, 2011

| Quadrant | Segment | Sub-Segment | Member Company                            | Contact  | State / Province |
|----------|---------|-------------|---|--|------------------|
| WEQ      | ts      |             | 8760, Inc.                                | Jim Buccigross   | AL               |
| WGQ      | s       |             | 8760, Inc.                                | Jim Buccigross   | AL               |
| WGQ      | s       |             | Accenture LLP                             | Jeff Miers   | TX               |
| WEQ      | m       | muni        | ACES Power Marketing LLC                  | Roy J. True, Amadou Fall   | IN               |
| RGQ      | d       |             | AGL Resources Inc.                        | Gregory Becker   | GA               |
| WGQ      | l       |             | AGL Resources Inc.                        | Ralph Cleveland  | GA               |
| WEQ      | d       | muni        | Alabama Municipal Electric Authority      | Ray Phillips   | AL               |
| REQ      | u       |             | Alabama Power                             | Judy W. Ray  | AL               |
| WEQ      | i       |             | Alberta Electric System Operator          | Diana Pommen   | ALB              |
| RGQ      | s       |             | Allegro Development                       | Kimberly Page  | TX               |
| WGQ      | pl      |             | Alliance Pipeline LP                      | Cathie Legge, Brian Troicuk  | ONT              |
| WGQ      | l       |             | Ameren Corporation                        | Scott Glaeser, Ken Dothage, Jim Massmann   | MO               |
| REQ      | u       |             | Ameren Services Company                   | Patrick Eynon  | MO               |
| WEQ      | d       | iou         | American Electric Power Service Corp.     | Barbara Radous, Joseph Hartsoe, Phil Cox   | OH               |
| WGQ      | s       |             | American Midstream Partners, LP           | Marty Patterson  | TX               |
| WEQ      | m       | muni        | American Municipal Power, Inc.            | Chris Norton, Alice Walker   | OH               |
| RGQ      | d       |             | American Public Gas Association (APGA)    | Alonzo Weaver, Joe Stengel   | PA               |
| WEQ      | d       | muni        | American Public Power Association         | Allen Mosher   | DC               |
| WGQ      | pl      |             | ANR Pipeline Company                      | Sandy Meyers, Joseph E. Polland, Rene Staeb, Debbie Forth, Carol Wehlmann, Radha Raman | ALB              |
| WEQ      | t       | iou         | Arizona Public Service Company            | Robert Bean  | AZ               |
| WGQ      | e       |             | Arizona Public Service Company            | Tom Carlson, Kelly Daly  | AZ               |
| WEQ      | g       | muni        | Arkansas Electric Cooperative Corporation | Ricky Bittle   | AR               |
| RGQ      | s       |             | Asgard Energy, LLC                        | Rhett C. Shumway   | CO               |
| WGQ      | pl      |             | Atmos Energy                              | Steve Easley   | TX               |
| WEQ      | t       | iou         | Avista Corporation                        | Jeff Schlect, Kenneth Dillon   | WA               |
| WGQ      | s       |             | Ballard Natural Gas, LLC                  | Susan Thibodeaux   | TX               |
| REQ      | u       |             | Baltimore Gas & Electric Co.              | Ruth Kiselewich, Phil Precht   | MD               |
| WGQ      | l       |             | Baltimore Gas & Electric Co.              | Phil Precht  | MD               |
| WGQ      | s       |             | Barclays Bank PLC                         | Guy Kern-Martin  | NY               |
| WEQ      | g       | muni        | Basin Electric Power Cooperative          | Jason Doerr  | ND               |
| WEQ      | m       | nd          | Basin Electric Power Cooperative          | David Raatz  | ND               |
| WEQ      | t       | muni        | Basin Electric Power Cooperative          | Dan Klempel  | ND               |
| WEQ      | t       | fed         | BC Hydro                                  | Al Woodruff, Brenda Ambrosi  | BC               |
| WGQ      | s       |             | Bentek Energy, LLC                        | E. Russell Brazier   | CO               |



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| WGQ      | s       |             | BG Energy Merchants, LLC                                | Martha Braddy, Susan Bailey,<br>David Buckley, Victoria Versen | TX               |
| WEQ      | t       | iou         | Black Hills Corporation                                 | Larry D. Williamson, Kenna<br>Hagan                            | SD               |
| WGQ      | pl      |             | Boardwalk Pipelines, LP                                 | Randy Young, Mitch Whitehead                                   | TX               |
| WGQ      | e       |             | Boeing Company  | Tina Burnett   | WA               |
| WEQ      | d       | other       | Bonneville Power Administration                         | Sydney D. Berwager   | OR               |
| WEQ      | g       | fed         | Bonneville Power Administration                         | Francis Halpin   | OR               |
| WEQ      | m       | fed         | Bonneville Power Administration                         | Brenda Anderson  | OR               |
| WEQ      | t       | fed         | Bonneville Power Administration                         | Abbey J. Nulph   | OR               |
| WEQ      | e       | lind        | BP America, Inc.  | Rhonda Denton  | TX               |
| WGQ      | pr      |             | BP Energy   | Mark Stultz, Rhonda Denton                                     | TX               |
| WEQ      | m       | niou        | Brookfield Energy Marketing, Inc.                       | Nicolas Bosse  | QUE              |
| WEQ      | g       | fed         | California Department of Water Resources                | Glenn Solberg, Chi Doan  | CA               |
| WEQ      | i       |             | California ISO  | Yakout Mansour   | CA               |
| WGQ      | e       |             | Calpine Energy Services, LP                             | Shonnie Daniel, Jay Dibble                                     | TX               |
| RGQ      | s       |             | Capacity Center   | Greg Lander  | MA               |
| WGQ      | s       |             | Cargill Incorporated                                    | Lester Welch   | MN               |
| WGQ      | pl      |             | Carolina Gas Transmission Corporation                   | Rae Davis, Dana B. Randall                                     | SC               |
| WGQ      | s       |             | Cenovus Energy, Inc.                                    | Paul Kahler  | CAN              |
| WGQ      | s       |             | CenterPoint Energy Gas Services, Inc.                   | James G. Beste, Larry Kunkle                                   | TX               |
| WGQ      | pl      |             | CenterPoint Energy Gas Transmission Company             | Cindy Suarez, Larry Thomas                                     | TX               |
| WGQ      | pl      |             | CenterPoint Energy Mississippi River Transmission Corp. | Cindy Suarez, Robert Trost                                     | TX               |
| WEQ      | d       | muni        | Central Electric Power Cooperative                      | Arthur Fusco   | SC               |
| WGQ      | pl      |             | Cheniere Pipeline Company                               | Whit Scott   | TX               |
| WGQ      | pr      |             | Chevron Natural Gas                                     | Charles (Chuck) Cook   | TX               |
| WGQ      | pl      |             | Chevron Pipe Line Company                               | Mary Ann Collins, Deborah<br>Plattsmier, Jeff Kirk             | TX               |
| WGQ      | pr      |             | Cimarex Energy Co                                       | Charlotte Baker  | OK               |
| WGQ      | s       |             | Citigroup Energy Inc.                                   | Carrie Southard, Angela Davis                                  | TX               |
| REQ      | e       |             | City of Houston   | James P. Cargas  | TX               |
| WEQ      | t       | iou         | Cleco Power, LLC  | Cindy Guillot  | LA               |
| WGQ      | l       |             | Colorado Springs Utilities                              | Joe M. Holmes  | CO               |
| WGQ      | pl      |             | Columbia Gas Transmission                               | Claire Burum   | VA               |
| WEQ      | e       | enduse      | Comprehensive Energy Services                           | Jim Templeton  | TX               |
| WGQ      | e       |             | Comprehensive Energy Services                           | Jim Templeton  | TX               |
| REQ      | s       |             | Comverge, Inc.  | Wendell Miyaji   | GA               |
| WGQ      | pr      |             | ConocoPhillips Gas and Power                            | Peter Frost  | TX               |
| WGQ      | l       |             | Consolidated Edison Company of NY                       | Scott Butler, Paul Olmsted                                     | NY               |



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|----------|---------|-------------|--|---|------------------|
| WEQ      | t       | iou         | Consolidated Edison Company of NY, Inc.        | Scott Butler, Chris Fan   | NY               |
| WGQ      | s       |             | Constellation Energy Commodities Group, Inc.   | Lisa Simpkins, Joseph Kirwan,<br>Andrea Kullman, Jennifer Scott,<br>Stephen C. Knapp                                      | MD               |
| WEQ      | d       | iou         | Consumers Energy Company                       | Andrew C. Dotterweich, Rufus Gladney  | MI               |
| WEQ      | t       | muni        | Dairyland Power Cooperative                    | Chuck Callies   | WI               |
| WGQ      | pl      |             | Dauphin Island Gathering Partners              | Katie Rice  | CO               |
| WGQ      | s       |             | DB Energy Trading                              | William Donnelly, Travis McCullough   | NY               |
| WGQ      | e       |             | Defense Logistics Agency Energy                | Veronica Jones, Kevin Ahern   | VA               |
| WGQ      | e       |             | Department of Energy                           | Christopher Freitas   | DC               |
| WEQ      | g       | muni        | Deseret Generation & Transmission Co-operative | Curtis Winterfeld   | UT               |
| WGQ      | pr      |             | Devon Energy Corporation                       | Bill Green, Dianne Dunbar   | OK               |
| WEQ      | g       | iou         | Dominion Energy Marketing, Inc.                | Lou Oberski, Jalal Babik  | VA               |
| WGQ      | l       |             | Dominion Resources (Previously CNG)            | Craig Columbo   | VA               |
| REQ      | s       |             | Dominion Retail                                | William Barkas, Richard Zelenko   | VA               |
| RGQ      | s       |             | Dominion Retail, Inc.                          | Richard A. Zollars  | VA               |
| WGQ      | pl      |             | Dominion Transmission, Inc.                    | Gary Sypolt, Ron Tomlinson  | VA               |
| REQ      | u       |             | Dominion Virginia Power                        | Brandon Stites  | VA               |
| WGQ      | s       |             | DTE Energy Trading, Inc.                       | Gregory V. Staton, James Buck,<br>Dena Crawford, Marcia L.<br>Hissong, Ann Marie Jambor,<br>Cynthia Klots, Shelley Greene | MI               |
| WEQ      | g       | iou         | Duke Energy Americas, LLC (DEA)                | Walt Yeager   | OH               |
| RGQ      | d       |             | Duke Energy Corp.                              | Dan Jones   | OH               |
| WEQ      | d       | iou         | Duke Energy Corp.                              | Alan Pritchard  | NC               |
| WEQ      | g       | merc        | Dynegy Power Marketing, Inc.                   | Ben Trammell  | TX               |
| WGQ      | pl      |             | Eastern Shore Natural Gas Company              | Elaine B. Bittner   | DE               |
| WEQ      | n       | n           | Edison Electric Institute                      | David Owens, Dave Dworzak,<br>James P. Fama   | DC               |
| WGQ      | pr      |             | El Paso Exploration & Production Company       | Stephanie Karm  | TX               |
| WGQ      | pl      |             | El Paso Natural Gas                            | William Griffith  | TX               |
| REQ      | s       |             | Electric Reliability Council of Texas (ERCOT)  | Susan Munson  | TX               |
| WEQ      | i       |             | Electric Reliability Council of Texas (ERCOT)  | Bill Blevins, Paul Wattles, Joel Mickey   | TX               |
| WEQ      | t       | iou         | Empire District Electric Company, The          | Bary K. Warren  | MO               |
| WGQ      | pl      |             | Enbridge (U.S.) Inc.                           | Brad Petzold  | TX               |
| WGQ      | s       |             | EnCana Marketing (USA) Inc.                    | Keith Sappenfield   | CO               |
| WGQ      | pr      |             | EnCana Oil & Gas (USA) Inc.                    | Keith Sappenfield   | ALB              |
| WEQ      | e       | enduse      | Energy Curtailment Specialists, Inc. (ECS)     | Marie Pieniazek   | NY               |
| WGQ      | pl      |             | Energy Transfer Partners, L.P.                 | Josie Castrejana, Miki Kolobara   | TX               |
| WEQ      | e       | enduse      | EnerNOC, Inc.                                  | Aaron Breidenbaugh  | MA               |



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| WEQ      | t       | iou         | Entergy Services, Inc.   | Edward J. Davis, Narinder Saini           | LA               |
| WGQ      | e       |             | Entergy Services, Inc.   | Laura Berryman, Terry Shields             | LA               |
| WGQ      | pl      |             | Enterprise Products Partners, LP   | Jeff Molinaro                             | TX               |
| WGQ      | pl      |             | Equitrans, L.P.  | Joseph M. Dawley                          | PA               |
| RGQ      | s       |             | Exelon Energy  | Sheree M. Petrone                         | PA               |
| REQ      | u       |             | Exelon Energy Delivery   | Toni Garza                                | IL               |
| WEQ      | m       | iou         | Exelon Generation - Power Team   | Jack Crowley                              | IL               |
| WGQ      | pr      |             | ExxonMobil Gas & Power Marketing Company a division of Exxon Mobil Corporation | Randy E. Parker, John W. Poe              | TX               |
| WEQ      | d       | iou         | First Energy Service Company   | Robert M. Martinko, Thomas C. Burgess     | OH               |
| WEQ      | m       | iou         | FirstEnergy Solutions Corp.  | Mark Travaglianti                         | OH               |
| WEQ      | d       | muni        | Florida Municipal Power Agency   | Frank Gaffney, Dan O'Hagan                | FL               |
| WEQ      | g       | muni        | Florida Municipal Power Agency   | Frank Gaffney, Dan O'Hagan                | FL               |
| WEQ      | m       | iou         | Florida Power & Light Company  | Jim Drake, Tom Hartman                    | FL               |
| WEQ      | t       | iou         | Florida Power & Light Company  | Marty Mennes, Bob Birch                   | FL               |
| WGQ      | e       |             | Florida Power & Light Company  | Tim Gerrish, Art Morris                   | FL               |
| WGQ      | pl      |             | Gas Transmission Northwest Corporation   | Joseph Pollard                            | OR               |
| WEQ      | t       | muni        | Georgia Transmission Corporation   | Patrick McGovern                          | GA               |
| WGQ      | pl      |             | Golden Pass Pipeline, LLC  | Vickie Long                               | TX               |
| WGQ      | pl      |             | Great Lakes Gas Transmission   | Joseph Pollard                            | MI               |
| REQ      | e       |             | Honeywell International, Inc.  | Steve Gabel                               | MN               |
| WEQ      | t       | fed         | Hydro - Quebec Transenergie  | Glenn Sylvain                             | QUE              |
| WEQ      | t       | iou         | Iberdrola USA Management Corporation   | Mark Marini                               | NY               |
| WGQ      | l       |             | Iberdrola USA Management Corporation   | Mark Marini                               | NY               |
| WEQ      | t       | iou         | Idaho Power Company  | Kathy Anderson                            | ID               |
| WGQ      | e       |             | Imperial Irrigation District   | Susie Carrillo                            | CA               |
| WEQ      | i       |             | Independent Electricity System Operator (IESO)                                 | Cristian Dragnea, Biju Gopi               | ONT              |
| WEQ      | g       | muni        | Indiana Municipal Power Agency   | Scott Berry                               | IN               |
| RGQ      | d       |             | Integrays Energy Group, Inc.   | Tom Aridas, Ken Thiry                     | WI               |
| WGQ      | l       |             | Integrays Energy Group, Inc.   | David E. Wear                             | WI               |
| RGQ      | s       |             | International LNG Alliance   | David Sweet                               | DC               |
| WGQ      | pl      |             | Iroquois Gas Transmission System   | Tom Gwilliam                              | CT               |
| WEQ      | i       |             | ISO New England, Inc.  | Matthew F. Goldberg                       | MA               |
| REQ      | s       | ista        |  | Judy Bailey, J. Cade Burks, Jennifer Teel | TX               |
| WGQ      | s       |             | JP Morgan Ventures Energy Corp   | Paul Tramonte                             | TX               |
| WGQ      | pl      |             | Kern River Gas Transmission Company  | Brenda Horton                             | UT               |
| WGQ      | l       |             | Laclede Gas Co.  | Kenneth Neises                            | MO               |



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| RGQ      | s       |             | Latitude Technologies                                    | Leigh Spangler                                   | TX               |
| WGQ      | s       |             | Latitude Technologies                                    | Leigh Spangler                                   | TX               |
| WEQ      | t       | iou         | LG&E and KU Services Company                             | Derek A. Rahn, Larry Monday                      | KY               |
| WEQ      | g       | muni        | Lincoln Electric System                                  | Douglas Bantam                                   | NE               |
| WEQ      | m       | muni        | Los Angeles Department of Water and Power                | Bradford Packer, Joel F. Cordero                 | CA               |
| WEQ      | t       | muni        | Los Angeles Department of Water and Power                | Mohammed Johar Beshir                            | CA               |
| WGQ      | s       |             | Louis Dreyfus Energy Services L.P.                       | Jennifer Farris, W. Scott Harwood                | CT               |
| WGQ      | e       |             | Lower Colorado River Authority                           | Mickey Bell                                      | TX               |
| WGQ      | s       |             | Macquarie Cook Energy, LLC                               | Angela Jones                                     | CA               |
| WEQ      | m       | fed         | Manitoba Hydro   | Blaine Poff                                      | CAN              |
| WEQ      | t       | fed         | Manitoba Hydro   | Blaine Poff                                      | CAN              |
| WGQ      | pr      |             | Marathon Oil Company                                     | Robin Perrine                                    | TX               |
| REQ      | e       |             | Maryland Public Service Commission                       | Dan Norfolk                                      | MD               |
| WGQ      | pr      |             | Mewbourne Oil Company                                    | Michael F. Shepard                               | TX               |
| WEQ      | d       | muni        | Michigan Public Power Agency                             | James R. Nickel, Peter J. Schimpke               | MI               |
| WEQ      | m       | iou         | MidAmerican Energy Company                               | Dennis Kimm                                      | IA               |
| WEQ      | i       |             | Midwest Independent Transmission System Operator         | Bill Phillips, Ed Skiba                          | IN               |
| WEQ      | t       | at large    | Midwest Reliability Organization                         | Dan Schoenecker                                  | MN               |
| WEQ      | d       | muni        | Missouri River Energy Services                           | Brian Zavesky                                    | MO               |
| WEQ      | m       | fed         | Nalcor Energy  | Brad Coady                                       | CAN              |
| REQ      | e       |             | National Association of Regulatory Utility Commissioners | James Bradford Ramsay                            | DC               |
| WEQ      | e       | reg         | National Association of Regulatory Utility Commissioners | Lou Ann Westerfield                              | DC               |
| RGQ      | d       |             | National Fuel Gas Distribution Corporation               | Mike Novak                                       | NY               |
| WGQ      | pl      |             | National Fuel Gas Supply Corp.                           | Deborah Kupeczyk                                 | NY               |
| WEQ      | t       | iou         | National Grid  | Edward M. Kremzier                               | MA               |
| WGQ      | l       |             | National Grid Gas Distribution Companies                 | Bob Superty                                      | NY               |
| WEQ      | ts      |             | National Institute of Standards and Technology           | David A. Wollman                                 | MS               |
| WEQ      | d       | muni        | National Rural Electric Cooperative Assoc.               | Paul McCurley                                    | VA               |
| WGQ      | pl      |             | Natural Gas Pipeline Co of America                       | Paul Love, Stan Thomas, Mike Schisler, Paul Haas | TX               |
| REQ      | e       |             | Navigant Consulting, Inc.                                | Kevin Cooney                                     | CO               |
| WEQ      | t       | muni        | Nebraska Public Power District                           | Don Schmit                                       | NE               |
| WEQ      | i       |             | New York Independent System Operator                     | Rana Mukerji, Donna Pratt                        | NY               |
| WEQ      | d       | at large    | New York State Reliability Council                       | P. Donald Raymond                                | NY               |
| WGQ      | s       |             | Nexen Marketing  | Deb Strang, Sharron Roberts                      | ALB              |
| WGQ      | e       |             | NextEra Energy Power Marketing, LLC                      | Marty Jo Rogers                                  | FL               |
| WGQ      | l       |             | NiSource, Inc.   | George Simmons, Sorana Linder                    | IN               |



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| WGQ      | pl      |             | Noble Americas Corp.   | Joseph Limone  | CT               |
| WGQ      | pr      |             | Noble Energy, Inc.   | Richard D. Smith, Tammy M. Stevens                     | TX               |
| WEQ      | d       | at large    | North American Electric Reliability Corporation (NERC)                       | David Taylor, Andy Rodriguez                           | NJ               |
| WEQ      | d       | muni        | North Carolina Electric Membership Corporation                               | David Beam, Diane Huis                                 | NC               |
| WEQ      | t       | iou         | Northeast Utilities Service Company  | David Boguslawski, Calvin A. Bowie                     | CT               |
| WGQ      | pl      |             | Northern Border Pipeline Company   | Joseph Pollard   | NE               |
| WGQ      | pl      |             | Northern Natural Gas   | Nancy A. Hetrick                                       | NE               |
| WGQ      | l       |             | Northwest Natural Gas Company  | Randolph Friedman                                      | OR               |
| WEQ      | t       | iou         | Northwestern Corporation   | Mike Cashell   | MT               |
| WGQ      | pl      |             | NOVA Gas Transmission Ltd.   | Doug Miller  | ALB              |
| WEQ      | g       | merc        | NRG Energy, Inc.   | Alan Johnson, Jennifer J. Vosburg, Elizabeth Killinger | NJ               |
| WEQ      | m       | iou         | NV Energy  | Sheryl Torrey  | NV               |
| WEQ      | t       | iou         | NV Energy, Inc.  | Patricia Englin  | NV               |
| WGQ      | s       |             | OGE Energy Resources, Inc.   | Cary Metz  | OK               |
| REQ      | u       |             | Oncor  | Larry Williford, Debbie McKeever                       | TX               |
| WGQ      | l       |             | ONEOK  | Richard Tangeman                                       | OK               |
| WGQ      | pl      |             | ONEOK Partners GP, LLC   | Teri Tingler, Lisa Nishimuta                           | NE               |
| WEQ      | e       | at large    | Open Access Technology International, Inc.                                   | Michehl Gent   | MN               |
| WEQ      | t       | at large    | Open Access Technology International, Inc.                                   | Paul R. Sorenson                                       | MN               |
| WEQ      | ts      |             | Organization for the Advancement of Structured Information Standards (OASIS) | Laurent M. Liscia                                      | MA               |
| WEQ      | m       | iou         | PacifiCorp   | John Apperson  | OR               |
| WEQ      | t       | iou         | PacifiCorp   | Sarah E. Edmonds                                       | OR               |
| WGQ      | pl      |             | Panhandle Eastern Pipe Line Co.  | William Grygar, Kim Van Pelt                           | TX               |
| WGQ      | l       |             | PECO Energy Co.  | Carlos Thillet   | TX               |
| WGQ      | s       |             | Pemex Gas Y Petroquimica Basica  | Juan Enrique Gonzalez Azuara                           | MEXICO           |
| REQ      | e       |             | Pennsylvania Office Of Consumer Advocate                                     | Tanya J. McCloskey, Sonny A. Popowsky                  | PA               |
| RGQ      | e       |             | Pennsylvania Office of Consumer Advocate                                     | Tanya J. McCloskey                                     | PA               |
| REQ      | e       |             | Pennsylvania Public Utility Commission                                       | Robert F. Wilson, Annunciata E. Marino                 | PA               |
| WGQ      | l       |             | Peoples Gas System (A division of Tampa Electric Co)                         | Wraye Grimard  | FL               |
| WEQ      | t       | iou         | PHI Power Delivery   | Scott Razze  | DE               |
| WEQ      | i       |             | PJM Interconnection  | Patrick Brown, Cathy Wesley                            | PA               |
| WEQ      | t       | iou         | Portland General Electric  | Frank Afranji, John Walker, Johnny Useldinger          | OR               |
| WGQ      | pl      |             | Portland Natural Gas Transmission System                                     | David Haag   | OR               |
| WEQ      | m       | fed         | Powerex Corp.  | Michael L. McWilliams, Sharole Tylor                   | BC               |
| WEQ      | d       | muni        | PowerSouth Energy Cooperative  | William Ronald Graham                                  | AL               |



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| WGQ      | e       |             | PPL EnergyPlus, LLC  | Anne Lovett   | PA               |
| REQ      | s       |             | PPL Solutions, LLC   | James M. Minneman, Kim Wall                                     | PA               |
| WEQ      | m       | iou         | Progress Energy  | James Eckelkamp   | NC               |
| WEQ      | t       | iou         | Progress Energy  | Phillip W. Lewis, Michael Anthony, Lee Schuster                 | NC               |
| WEQ      | m       | iou         | Public Service Company of New Mexico                           | Steven Maestas, Darren Wilkins, Patricia Merville, Roger Vaughn | NM               |
| REQ      | e       |             | Public Utilities Commission of Ohio                            | Christopher Kotting   | OH               |
| WEQ      | e       | reg         | Public Utilities Commission of Ohio                            | Christopher Kotting   | OH               |
| WEQ      | t       | iou         | Puget Sound Energy, Inc.                                       | George Marshall, Bob Harshbarger                                | WA               |
| WGQ      | pl      |             | Questar Pipeline Co.   | Jerry H. Gross  | UT               |
| WGQ      | s       |             | Quorum Business Solutions Inc.                                 | Anne Golenternek, Michael Lewis                                 | TX               |
| WEQ      | g       | merc        | RRI Energy Services, Inc.                                      | Trent Carlson   | TX               |
| WEQ      | d       | muni        | Sacramento Municipal Utility District                          | Steve Sorey   | CA               |
| WGQ      | e       |             | Salt River Project Agricultural Improvement & Power District   | Lori-Lynn C. Pennock  | AZ               |
| WEQ      | m       | fed         | Salt River Project Agricultural Improvement and Power District | Richard Lehman  | AZ               |
| WEQ      | t       | fed         | Salt River Project Agricultural Improvement and Power District | Luke O'Dwyer, Michael J. Pfeister                               | AZ               |
| WEQ      | t       | iou         | San Diego Gas & Electric Company                               | Patricia vanMidde   | CA               |
| WEQ      | t       | fed         | Santee Cooper  | Tom Abrams  | SC               |
| WEQ      | d       | muni        | Seattle City Light   | Marilynn Semro, Thomas P. Rowan, Doug Rough                     | WA               |
| WEQ      | m       | muni        | Seminole Electric Cooperative, Inc.                            | Steve Wallace   | FL               |
| WGQ      | l       |             | Sempra Energy - Southern California Gas Co.                    | Lee Stewart, Rodger Schwecke                                    | CA               |
| WGQ      | pl      |             | Sempra Pipelines & Storage Corp.                               | Martine Blair   | CA               |
| WGQ      | s       |             | Sequent Energy Management, L.P.                                | Pat Metteauer   | TX               |
| WEQ      | m       | niou        | Shell Energy North American (US), L.P.                         | Robert Reilley, Paul Kerr                                       | TX               |
| WGQ      | s       |             | Shell Energy North American (US), L.P.                         | Eric Gillaspie  | TX               |
| WEQ      | e       | at large    | Shift Research, LLC  | Jesse D. Hurley   | NV               |
| RGQ      | s       |             | Sierra Southwest Cooperative Services, Inc.                    | Rick Vogel  | AZ               |
| WGQ      | s       |             | SNL Financial  | Katrina Sumej   | CO               |
| WGQ      | s       |             | SolArc, Inc.   | Tom Brune   | TX               |
| WEQ      | m       | iou         | South Carolina Electric & Gas Company                          | Kevin Spitzform   | SC               |
| WEQ      | t       | iou         | South Carolina Electric & Gas Company                          | S. Porcher Stoney, James T. Starling, Jr.                       | SC               |
| WEQ      | t       | iou         | Southern California Edison                                     | Weston Williams, Sonya Green-Sumpter                            | CA               |
| WEQ      | g       | iou         | Southern California Edison Company                             | Tracy Bibb  | CA               |
| WGQ      | e       |             | Southern California Edison Company                             | Roman Bakke, Rob Grimm  | CA               |



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Attachment 6

### Membership Roster Sorted by Company as of March 10, 2011

| Quadrant | Segment | Sub-Segment | Member Company  | Contact  | State / Province |
|----------|---------|-------------|---|--|------------------|
| REQ      | s       |             | Southern Company Services                               | Barbara Hingst   | GA               |
| WEQ      | g       | iou         | Southern Company Services, Inc.                         | John Ciza  | GA               |
| WEQ      | m       | iou         | Southern Company Services, Inc.                         | Joel Dison   | GA               |
| WEQ      | t       | iou         | Southern Company Services, Inc.                         | Joshua Jenkins, Terry Coggins,<br>JT Wood, James Y. Busbin,<br>Corey Sellers | GA               |
| WGQ      | e       |             | Southern Company Services, Inc.                         | Alan Kilpatrick, Bronson Kilgore   | GA               |
| WGQ      | pl      |             | Southern Star Central Gas Pipeline                      | Philip Rullman, Tim L.<br>Thompson   | KY               |
| WGQ      | l       |             | Southwest Gas Corporation                               | Larry Black, Mark Anderson,<br>Mark Litwin, John Olenick                     | NV               |
| WEQ      | i       |             | Southwest Power Pool                                    | Carl Monroe, Michael Desselle,<br>Charles Yeung                              | AR               |
| WEQ      | t       | muni        | Southwest Transmission Cooperative, Inc.                | Larry D. Huff  | AR               |
| WEQ      | t       | fed         | Southwestern Power Administration                       | Tracey Stewart   | OK               |
| WGQ      | pl      |             | Spectra Energy Transmission                             | Richard Kruse, Kathryn Burch   | NC               |
| RGQ      | s       |             | Sprague Energy Corp.                                    | Paul Scoff   | NH               |
| WEQ      | ts      |             | Sungard   | Andrew Tritch, Rick Lentz  | TX               |
| WGQ      | s       |             | SunGard   | Sylvia Munson  | TX               |
| REQ      | s       |             | SunGard Consulting Services, LLC                        | Austin Morris  | TX               |
| RGQ      | s       |             | Systrends   | Dave Darnell   | AZ               |
| WEQ      | g       | merc        | Tenaska, Inc.   | Scott Helyer, William Simpson  | NE               |
| WGQ      | pl      |             | Tennessee Gas Pipeline Company                          | Sue Barry, Mark Gracey   | TX               |
| WEQ      | g       | fed         | Tennessee Valley Authority                              | Kathy York   | TN               |
| WEQ      | m       | fed         | Tennessee Valley Authority                              | Belinda Thornton, Valerie<br>Crockett  | TN               |
| WEQ      | t       | fed         | Tennessee Valley Authority                              | Chuck Feagans  | TN               |
| WGQ      | e       |             | Tennessee Valley Authority                              | Valerie Crockett   | TN               |
| WGQ      | s       |             | Tiger Natural Gas                                       | Tracy Phillips   | OK               |
| WGQ      | pl      |             | TransCanada Pipelines                                   | Doug Miller  | ALB              |
| WGQ      | pl      |             | Transwestern Pipeline Company, LOC                      | B lair V. Lichtenwalter, Mary<br>Dramer, David Mendoza                       | TX               |
| WEQ      | g       | muni        | Tri-State G&T Association, Inc.                         | Janelle Marriott   | CO               |
| WEQ      | t       | muni        | Tri-State Generation and Transmission Association, Inc. | Carla Javornik, Doug Reese   | CO               |
| WEQ      | t       | iou         | Tucson Electric Power Company                           | Raquel Aguilar, Judy Fregoso, Ed<br>Beck, Amy Welander                       | AZ               |
| RGQ      | d       |             | UGI Utilities, Inc.                                     | Paul Szykman   | PA               |
| WEQ      | t       | iou         | United Illuminating Company, The                        | Rose Pysh  | CT               |
| WEQ      | ts      |             | Utility Integration Solutions, Inc.                     | Scott Coe  | CA               |
| WGQ      | pl      |             | Vector Pipeline L.P.                                    | Amy Bruhn  | MI               |
| RGQ      | s       |             | Vectren Retail, LLC                                     | Tami Wilson  | IN               |
| WGQ      | s       |             | Vega Energy Partners, Ltd.                              | Julie Pincus, Lori Leeder  | TX               |
| REQ      | s       |             | Ventyx, Inc.  | Nathan Chang   | TX               |



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### Membership Roster Sorted by Company as of March 10, 2011

| Quadrant | Segment | Sub-Segment | Member Company                           | Contact  | State / Province |
|----------|---------|-------------|--|--|------------------|
| WEQ      | g       | muni        | Vermont Public Power Supply Authority    | William J. Gallagher                                       | VT               |
| WGQ      | l       |             | Washington Gas Light Co.                 | Mark Lowe  | DC               |
| WEQ      | d       | iou         | We Energies                              | Linda Horn   | WI               |
| WEQ      | g       | iou         | We Energies                              | James R. Keller  | WI               |
| WEQ      | g       | iou         | Westar Energy, Inc.                      | Shah Hossain, Grant Wilkerson                              | KS               |
| WEQ      | m       | fed         | Western Area Power Administration        | Jeffrey Ackerman   | CO               |
| WEQ      | t       | fed         | Western Area Power Administration        | JB Hite  | CO               |
| WEQ      | t       | at large    | Western Electricity Coordinating Council | Michelle Mizumori, Louise McCarren                         | UT               |
| WGQ      | s       |             | Williams Gas Marketing, Inc.             | Rich Ficken  | OK               |
| WGQ      | pl      |             | Williams Gas Pipeline                    | Dale Davis, Christopher Burden                             | TX               |
| WGQ      | pl      |             | Williston Basin Interstate Pipeline      | Keith Tiggelaar, Gwen Schoepp, Kelly Brooks, Lori Myerchin | ND               |
| REQ      | u       |             | Wisconsin Public Service Corporation     | Dennis Derricks, Ken Thiry                                 | WI               |
| WEQ      | g       | iou         | Wisconsin Public Service Corporation     | Christopher Plante, Charles W. Severance, Neal Balu        | WI               |
| WEQ      | d       | muni        | WPPI Energy                              | Mike Stuart  | WI               |
| WEQ      | m       | iou         | Xcel Energy Inc.                         | David Lemmons  | CO               |



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via posting

**TO:** NAESB Board Critical Infrastructure Committee Members and posting for Interested Industry Parties  
**FROM:** Jonathan Booe, Deputy Director, NAESB  
**RE:** Meeting Notes for the NAESB Board Critical Infrastructure Committee  
**DATE:** February 17, 2011

Dear Critical Infrastructure Committee Members,

A Critical Infrastructure Committee conference call was held on February 17, 2011. The meeting was called to order at 1:00 pm C. Mr. Hurley presided over the meeting and Mr. Booe served as counsel for the meeting. The notes below serve as a record for the meeting.

## Notes for the February 17, 2011 NAESB Board Critical Infrastructure Committee Meeting

**Administrative:** Mr. Hurley welcomed the participants to conference call and thanked them for attending. Mr. Booe provided the antitrust guidance. Mr. Hurley reviewed the draft agenda and Mr. Feagans made a motion to adopt the agenda as drafted. Ms. Barry seconded the motion and the motion passed without opposition.

### Update on Recent Administration Meetings on Cyber Security and Critical Infrastructure and the GAO Report

Mr. Hurley stated that a new bill was recently introduced in the House of Representatives that address' cyber security in several different areas and that he will develop a work paper for the next Critical Infrastructure Committee ("CIC") conference call that identifies which NAESB standards may be impacted by the pending legislation. At the request of Ms. Barry, Mr. Hurley clarified that he was referencing Bill S.21. Ms. Barry noted that NAESB's scope is limited to the development of standards and that the Committee should not recommend action that exceeds the organizations scope. Mr. Hurley supported Ms. Barry's statement and reiterated that the CIC is only given authority to provide information to the NAESB Board of Directors.

Next, Mr. Hurley briefly reviewed the results of the recent Government Accountability Office ("GAO") report on the cyber security guidelines developed as part of the smart grid effort by the National Institute of Standards and Technology ("NIST"). He noted that the GAO report was rather harsh on the NIST cyber security guidelines and noted that NIST did not address important elements essential to securing smart grid systems that it had planned to include such as the risk of attacks that use both cyber and physical means. Mr. Hurley stated that the NIST guidelines may lack a necessary level of sophistication and recommended that CIC review NAESB standards in tandem with other NAESB subcommittees and task forces to ensure that there are not cyber security impacts. He stated that he would investigate a process for review.

### NAESB Staff Review of Data Privacy Task Force Meeting and FERC Technical Conference

Mr. Booe stated that the newly formed REQ Data Privacy Task Force held their kickoff meeting in conjunction with the winter NARUC meetings on February 16, 2011. He stated that the Task Force is chaired by Robin Lunt, the Assistant General Counsel of NARUC and Christine Wright, the smart grid lead for the Public Utility Commission of Texas. The Task Force is currently reviewing the many reports published by various state and federal agencies to determine if there are any consensus positions that may serve as the basis for NAESB Model Business Practices. The co-chairs have set an early April deadline for completion of a draft recommendation and have scheduled weekly meetings to meet this deadline. Mr. Booe encouraged the CIC members to participate in the Task Force and to contact him should they have any questions.

Next, Mr. Booe reviewed the results of the January 31, 2011 technical conference on the five IEC standards submitted by NIST to FERC. Mr. Booe stated that the purpose of the technical conference was to gain information regarding the consensus process instituted by NIST and determine if sufficient consensus around the proposed standards had been reached so that FERC may initiate the rulemaking process. Mr. Booe noted that all thirteen panelists responded negatively to the Chairman's questions concerning consensus and the NIST process and that several panelists cited NAESB as an organization with a true consensus process. Ms. Barry asked if the negative responses were a surprise to NIST. Mr. Booe responded that he was surprised by the responses of some of the panelists such as GE, Cisco and Xanthus Consulting. Mr. Booe stated that the FERC has opened a comment period on the technical conference and that NAESB will likely submit comments before the March 2, 2011 deadline.



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## Notes for the February 17, 2011 NAESB Board Critical Infrastructure Committee Meeting

### Other Business/Next Meeting and Action Items:

Mr. Hurley noted that Industrial Control Systems Cyber Emergency Response Team (“ICS-CERT”) conducted a study called Operation Night Dragon which focused specifically on the energy sector produced some interesting results. Mr. Burden and Ms. Barry asked if Jesse could make the report available the CIC members as El Paso is in the process of reviewing the report. Mr. Hurley stated that he would send a link to the report through the CIC email exploder. Mr. Booe reviewed the action items from the meeting:

- 1) Mr. Hurley will develop a report that identifies which NAESB standards may be impacted by the pending cyber security legislation
- 2) Mr. Hurley will disseminate the Operation Night Dragon report via the CIC email exploder

### Adjourn:

Ms. Barry moved to adjourn the meeting at 1:40 pm Central and Mr. Burden seconded the motion. The motion passed without opposition.

### Work Papers Provided for the Meeting:

#### Meeting Related Documents:

- November 16, 2010 meeting notes: [http://www.naesb.org/pdf4/bd\\_cic\\_111610notes.doc](http://www.naesb.org/pdf4/bd_cic_111610notes.doc)
- GAO Report
  - Summary: <http://www.gao.gov/highlights/d11117high.pdf>
  - Report: <http://www.gao.gov/new.items/d11117.pdf>
  - Web Site Page: <http://www.gao.gov/products/GAO-11-117>
- Data Privacy Task Force Agenda: [http://www.naesb.org/data\\_privacy.asp](http://www.naesb.org/data_privacy.asp)
- FERC announcement of smart grid RM docket: <http://www.naesb.org/pdf4/ferc100710.doc>



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## Notes for the February 17, 2011 NAESB Board Critical Infrastructure Committee Meeting

### CRITICAL INFRASTRUCTURE COMMITTEE MEMBERS

| Name                | Organization                                      | Attendance |
|---------------------|---|------------|
| Jim Buccigross      | 8760, Inc.  |            |
| Ralph Cleveland     | AGL Resources, Inc.                               |            |
| Joelle Ogg          | Brunenkant & Cross, LP                            |            |
| Chris Eisenbrey     | Edison Electric Institute                         |            |
| Bob Gee             | Gee Strategies Group                              |            |
| J. Cade Burks       | ista  |            |
| Leigh Spangler      | Latitude Technologies                             |            |
| Paul McCurley       | NRECA   |            |
| Bill Boswell        | NAESB General Counsel                             |            |
| Rick Smead          | Navigant Consulting, Inc.                         |            |
| Diane Barney        | New York State Department of Public Service Staff |            |
| Bruce Ellsworth     | New York State Reliability Council                |            |
| Michehl Gent        | Open Access Technology International, Inc         |            |
| Chris Kotting       | Public Utilities Commission of Ohio               |            |
| Thomas Pearce       | Public Utilities Commission of Ohio               |            |
| Jesse D. Hurley     | Shift Research, LLC                               | Phone      |
| Michael Desselle    | Southwest Power Pool                              |            |
| Dave Darnell        | Systrends USA                                     |            |
| Susanna B. Barry    | Tennessee Gas Pipeline Company                    | Phone      |
| Chuck Feagans       | Tennessee Valley Authority                        | Phone      |
| Valerie Crockett    | Tennessee Valley Authority                        |            |
| Christopher Freitas | US Department of Energy                           |            |
| Brett Perlman       | Vector Consultants                                |            |
| William Gallagher   | Vermont Public Power Supply Authority             |            |



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## Notes for the February 17, 2011 NAESB Board Critical Infrastructure Meeting

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### OTHER ATTENDEES

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| <b>Attendee</b>    | <b>Organization</b>   |
|--------------------|-----------------------|
| Jonathan Booe      | NAESB                 |
| Kathryn Burch      | Spectra Energy        |
| Christopher Burden | Williams Gas Pipeline |
| Kevin Cicero       | NRG Energy            |
| Jim Eckelkamp      | Progress Energy       |
| Bill Griffith      | El Paso Natural Gas   |
| Judy Koski         | Tucson Electric Power |
| Colleen L'Abbe     | Spectra Energy        |
| Kevin Money        | Iroquois Gas          |
| Ed Skiba           | Midwest ISO           |



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**TO:** Materials for Board Consideration  
**FROM:** Rae McQuade  
**RE:** Motions Made to Extend Waivers for Membership Thresholds for the Retail Quadrants  
**DATE:** March 16, 2011

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March 25, 2010 Board action:

“Mr. Desselle moved to extend the resolution passed at the March 2009 Board meeting allowing a waiver of the minimum membership requirements for the Retail Quadrants for twelve months with quarterly reports from the Retail Quadrants regarding membership for an additional 12 months. Ms. Crockett seconded the motion and the motion passed without opposition.”

March 2009 Board action:

“Mr. Kruse moved to allow a waiver of the minimum membership requirements for the Retail Quadrants for twelve months with quarterly reports from the RSR. Mr. Ellsworth seconded the motion. The motion unanimously passed a simple majority vote.”

Bylaws Requirement (Article 2, Section 2.3):

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.



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January 5, 2011

**TO:** NAESB Parliamentary Committee Members, Posting for Interested Industry Participants  
**FROM:** Jonathan Booe, NAESB Staff Attorney  
**RE:** Parliamentary Committee Meeting Minutes – January 5, 2011

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**NAESB Parliamentary Committee Meeting  
Hosted by NAESB – Tampa, Florida  
Wednesday, January 5, 2011 – 1:00 pm to 5:00 pm Eastern**

### 1. Administration and Welcome

Ms. Crockett called the meeting to order. The participants in the room and on the phone introduced themselves. Quorum was established. Mr. Booe provided the antitrust guidance. Mr. Ellsworth made a motion to adopt the agenda as drafted and Mr. Hurley seconded the motion. The motion passed without opposition.

Ms. Crockett reviewed the agenda and provided background information for the meeting, noting that the meeting was scheduled at the request of the Board to address issues identified during the December 9, 2010 meeting. Ms. Crockett asked if any of the participants would like to provide any supplemental information in addition to the materials posted for the meeting. The participants confirmed that the Parliamentary Committee members received all relevant information.

### 2. Adoption of the Notational Ballot MC Resolution into the NAESB Operating Practices

Ms. Crockett opened the floor to Parliamentary Committee member's comments concerning the Managing Committee's resolution related to the notational ballot process. Mr. Lander confirmed that the Committee members received copies of the [work paper](#) containing his proposed language to explain and clarify the notational ballot process in advance of the meeting. The participants responded in the affirmative. He detailed his experiences and roles within NAESB and GISB since the organizations creation and stated that the proposed language details his interpretation of the notational ballot process that has been in place within the Organization for the past 17 to 19 years. Mr. Brown asked if Mr. Lander's intent is to replace the resolution adopted by the Managing Committee and the Board of Director's at the December 9, 2010 meeting with the language proposed in the work paper or if the language proposed in the work paper is intended to supplement the adopted resolution. Mr. Lander responded that language contained in the work paper is intended to clarify and supplement the resolution moving forward. Mr. Novak confirmed that if an Executive Committee (EC) member or alternate does not vote during a meeting and does not vote notationally, there would be no vote cast for the seat in question. Mr. Lander confirmed.

Ms. Bigelow asked if the Parliamentary Committee believes that there is a conflict between the resolution, which clearly states that the EC Chair has discretion to distribute a notational ballot, and the NAESB By-laws which vests the power in the EC as a whole. Mr. Lander responded that it is true that the By-laws vest the power to distribute notational ballots in the EC; however the powers, with respect to process, are delegated to the EC Chair who serves at the pleasure of the EC. Mr. Lander stated that the authority is apparent in the NAESB Operating Procedures as the EC Chair is voted to serve the EC by the EC members. Ms. Bigelow noted that the [document](#) describing the powers and duties of subcommittee and task force chairs does not explicitly state that the authority to initiate the notational ballot process is delegated to the EC Chair. Mr. Lander responded that the document was not intended to be interpreted as an exclusive list of all powers granted to subcommittee and task force chairs, as it is impossible to anticipate all issues that may arise at the time the document was drafted. Ms. Bigelow and Mr. Phillips expressed concern about the availability of documents posted on the NAESB website that clarify the intent of the NAESB Certificate of Incorporation, By-laws and Operating Procedures.



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Mr. Lander stated that purpose of the meeting and the creation of the Parliamentary Committee is to resolve such issues and should be addressed during this meeting and subsequent meetings, if necessary.

Mr. Phillips stated that the purpose of the appeal filed by Midwest ISO and PJM is not to disrupt the NAESB process, but rather to bring to light some issues that have been identified regarding the notational ballot process and to ensure that the process is clearly defined and understood moving forward. He also noted that the clarification of the notational ballot process currently being discussed by the Parliamentary Committee should not be applied retroactively to the appeal submitted to NAESB. Mr. Desselle stated that the Parliamentary Committee is only discussing an explanation or a clarification of the current NAESB process and that the appeal of Midwest ISO and PJM should not have any bearing on the Parliamentary Committee's actions. The Parliamentary Committee members supported Mr. Desselle's statement. Mr. Phillips asked that the Parliamentary Committee consider the three issues identified in the [comments](#) of Midwest ISO and PJM posted as a work paper for the meeting. Mr. Lander stated that the comments of Midwest ISO and PJM are addressed in the work paper containing the proposed language to explain and clarify the notational ballot process and moved to adopt the clarification. Mr. Desselle seconded the motion. Mr. Brown and Mr. Fusco requested that the Parliamentary Committee review the issues presented in the Midwest ISO and PJM comments prior to voting on Mr. Lander's motion to ensure that the issues are, in fact, addressed. The participants supported the request of Mr. Brown and Mr. Fusco.

Ms. Bigelow reviewed each of the issues identified in the Midwest ISO and PJM comments. She first noted that the WEQ By-laws Addendum clearly gives all WEQ EC members a right to vote and that if a WEQ EC member is absent from a vote the resolution adopted by the Board of Directors precludes the EC member from exercising that right. Mr. Oberski stated that EC members have a right to a notational ballot prior to a meeting but not necessarily to a notational ballot after a meeting. If you fail to exercise that right, then you may have an alternate member vote on your behalf. Mr. Lander supported Mr. Oberski's interpretation and noted that the process described is not intended to extend or postpone a vote after a determination is made. Mr. Brown confirmed that a segment may seat alternates in the seats of absent EC members, if there is not a designated alternate for the absent EC member. Mr. Oberski and Ms. Davis confirmed.

Ms. Bigelow stated that the second issue identified in the Midwest ISO and PJM comments concerns the authority of the EC chair to distribute notational ballots at their discretion. Mr. Lander stated that Parliamentary Committee previously discussed this issue and that he does not see the dissonance between the resolution and the section of By-laws identified in comments. He recommended that the Parliamentary Committee relieve an ambiguity, if there is confusion concerning the authority of the EC Chair at a future meeting. Mr. Boswell stated that Mr. Lander's interpretation concerning the inherit authority of the EC Chair related to the notation ballot process is correct and noted that the EC always has the ultimate authority regarding EC action, as the EC Chair acts only to serve the EC at the EC's request. Mr. Desselle supported Mr. Lander's interpretation and noted that additional clarity on the issue in the governing documents may be helpful moving forward. Mr. Phillips supported a review of the governing documents to provide additional clarity on the issue. Mr. Covina asked what the process would be for over-riding the inherit authority of an EC Chair acting on behalf of the EC. Mr. Lander responded that the objection of any EC member to action taken by the EC Chair on behalf of the EC would result in a vote and determination as to the action of the EC. Mr. Phillips stated that his understanding of the effort of the Committee is not to document past practice but clarify the process moving forward. Mr. Lander stated that any changes to the process would only be prospective but noted that he is not attempting to modify or make any changes to the process through his motion. The purpose of his proposed language is only to add clarity to a process that has been followed by the NAESB ECs for many years. Ms. Crockett confirmed Mr. Lander's statement concerning the prospective nature of changes to procedure. Ms. Bigelow stated that Mr. Lander's language is helpful and recommended that the language contained in article five of the Certification of Incorporation be reviewed to avoid alternative interpretations.

Next, Ms. Bigelow reviewed the third issue presented in the Midwest ISO and PJM comments. Mr. Lander stated that the issue identified is a recitation of the points previously raised and has been addressed through previous discussion. Ms. Bigelow asked Mr. Boswell to describe the process for the incorporation of action taken by the Parliamentary Committee. Mr. Boswell responded that the recommendations of the Parliamentary Committee will be reviewed by the Managing Committee and presented during the March Board meeting and considered for adoption. He reiterated that the action



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taken by the Board at the December meeting did not change the Certificate of Incorporation or the By-laws. Mr. Desselle and Mr. Buccigross supported Mr. Boswell's statement and noted that the resolution was only intended to provide clarity. Mr. Phillips stated that the actions of the Managing Committee, and the actions of the Parliamentary Committee today, are attempts to document a process that has been followed for many years. He stated that he asked during the December Board meeting if the principles being documented can be found in the Organizations governance documents and received an affirmative response. He stated that he has been unable to find the principles described by the Managing Committee and the Parliamentary Committee and asked the NAESB staff to direct him to the cites in the governance documents. Ms. Crockett stated the language Mr. Phillips is requesting is in the governance documents but not included verbatim. Mr. Boswell stated that organizations are often called upon to add clarity to their governance documents and that the action taken by the Board in December and the action proposed today by Mr. Lander is not inconsistent with the organic governing documents. Mr. Lander noted that other issues will be presented in the future that are not directly addressed by the governance documents and will require clarification by the Organization.

Ms. Crockett asked the participants if anyone would like to offer any additional comments or questions on Mr. Lander's motion. No comments were offered. The motion passed unanimously.

### **3. Clarify and adopt resolution regarding the Appeals Process**

Next, Mr. Boswell reviewed the [Explanation & Clarification of NAESB Appellate Processes](#) posted as a work paper for the meeting. He stated that the proper forum regarding an appeals process is determined by where the standard resides. If the standard is an ANSI standard, the proper forum for appeal is ANSI; however, if the standard is a NAESB standard, the proper forum for appeal is NAESB. As NAESB has not developed any standards that have been submitted to ANSI to date, the proper forum for all appeals is NAESB. He noted that NAESB has only had two appeals to standards submitted in the past and that in both instances the process described in 3(a) was followed. Mr. Lander noted that the language included in the governance documents was drafted at a time when it was undetermined if NAESB standards would reside within NAESB or if they would be submitted to ANSI and become ANSI standards. He also stated that allowing members to forum shop an appeal was not what was intended when the governing documents were drafted and is inappropriate.

Ms. Bigelow stated that the language in the in the governing documents describing the appeals process is unambiguous and has remained unchanged throughout the evolution of the Organization. She also noted that if the language in the NAESB Operating Procedures describing the appeals process was intended to apply only to ANSI standards developed by NAESB, the language would have referenced section six of the *ANSI Procedures for Development and Coordination of American National Standards* rather than clause A.12, as section six addresses the appeals process of ANSI standards.

Mr. Boswell stated that it is now clear that the intent of Midwest ISO and PJM was to appeal the *process* by which the standard was developed rather than the *standard*. Mr. Phillips confirmed that Midwest ISO and PJM intended to file an appeal to the process rather than the standard. He stated that the Operating Procedures describe the procedure for the appeal of a standard but not the procedure for appealing the process. Mr. Desselle and Mr. Boswell supported Mr. Phillips assessment and noted that the distinction between the two types of appeals was unclear.

Mr. Boswell recommended that the Parliamentary Committee draft a procedure to address an appeal of process. The participants supported Mr. Boswell's recommendation and requested that Mr. Boswell develop a draft for review. Mr. Lander cautioned the Parliamentary Committee members that the appellate process, if not limited, could lead to significant delays and inefficiencies in standards development. He also noted that the new procedure should be prospective and not retroactive, in the same manner in which the balanced voting procedures were adopted and applied by the Organization. Mr. Boswell asked Mr. Phillips if Midwest ISO and PJM would quickly develop a short list of process issues they have identified in their appeal. Mr. Phillips responded affirmatively.

Ms. Barry asked if the Parliamentary Committee should take action regarding the reference to clause A.12 in the Operating Procedures as noted by Ms. Bigelow. Ms. Crockett suggested that the Committee deal with the issue in a subsequent meeting.



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The participants reviewed the language proposed by Mr. Boswell in light of the discussion and modified section three so as to remove any ambiguity. The modifications to the language can be found in redline format through the following hyperlink: <http://www.naesb.org/pdf4/parliamentary010511a1.doc>. Mr. Lander made a motion to adopt the language proposed by Bill Boswell and modified through discussion. Mr. Hurley seconded the motion. The motion passed unanimously.

#### **4. Consider modifications dealing with minor corrections**

Ms. McQuade discussed the minor correction process and noted that the current process requires a two week comment period followed by a 30-day grace period before incorporation. She stated that the 30-day grace period requirement for the approval of code changes and typos may be excessive and recommended that, if the members are in agreement, Ms. Davis draft a modification to the current procedure to be discussed and considered for vote during the next parliamentary meeting. Mr. Lander recommended that the draft modification to the procedure require a unanimous vote of the EC. Ms. Barry stated that she supports the proposal to streamline the process.

#### **5. Consider issues associated with the development of work products that do not rise to the level of standards**

Ms. McQuade stated that the NAESB Operating Procedures and By-laws currently only allow the Organization to develop standards and documents in support of standards. It has come to her attention that some members would like for NAESB to have the freedom to develop documents that do not rise to the level of standards, such as, documents that are in support of NERC field tests. Mr. Lander stated that modifying the governance documents to allow for the development of such documents can be a slippery slope and cautioned the members against broad modifications. Mr. Oberski noted that the Organization has managed to develop standards that support NERC field tests without issue under the current governance documents, and suggested that wholesale changes to the procedures is unnecessary. Mr. Desselle suggested that the Parliamentary Committee consider a modification to the Operating Procedures to deal with such issues at their next meeting. Mr. Phillips noted that this issue was discussed in the development of the smart grid standards. Ms. Crockett stated that the item would be added to the agenda of the next meeting.

#### **6. Other Business**

Ms. Crockett noted that, under the current process, votes in abstention by EC members have the same effect as a vote in opposition. She asked the Committee to consider modifications to the process concerning the manner in which votes in abstention are tabulated in an effort to improve the efficiency of the process during the next meeting. Mr. Boswell stated that he has drafted language that may be added to Article V of the Certificate of Incorporation to address Ms. Crockett's concern. The participants agreed to consider the issue at the next meeting and Mr. Novak volunteered to work with Ms. Crockett and Mr. Boswell on the effort.

Ms. McQuade noted that Mr. Hurley's company has expressed interest in applying as a PKI certificate authority and has some ideas that may improve security that he would like to discuss at the next meeting.

#### **7. Adjournment**

The meeting was adjourned at 5:00 pm Eastern.



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### 8. Attendance

| <b>Parliamentary Committee Members</b> |                                       |                   |
|--|---------------------------------------|-------------------|
| <b>Name</b>                            | <b>Organization</b>                   | <b>Attendance</b> |
| Susanna B. Barry                       | Tennessee Gas Pipeline Company        | In Person         |
| Bill Boswell                           | NAESB                                 | In Person         |
| Scott Brown                            | Exelon Corporation                    | Phone             |
| Jim Buccigross                         | 8760 Inc.                             | Phone             |
| J. Cade Burks                          | EC Power                              |                   |
| Valerie Crockett                       | Tennessee Valley Authority            | In Person         |
| Michael Desselle                       | Southwest Power Pool                  | In Person         |
| Bruce Ellsworth                        | New York State Reliability Council    | In Person         |
| Art Fusco                              | Central Electric Power Cooperative    | Phone             |
| Joe Hartsoe                            | American Electric Power Service Corp. | Phone             |
| Jesse Hurley                           | Shift Research, LLC                   | In Person         |
| Richard Kruse                          | Spectra Energy Transmission           | Phone             |
| Greg Lander                            | Capacity Center                       | Phone             |
| Debbie McKeever                        | Oncor                                 | Phone             |
| Lou Oberski                            | Dominion Resources Services, Inc.     | In Person         |
| Leigh Spangler                         | Latitude Technologies                 | Phone             |
| <b>Observers</b>                       |                                       |                   |
| <b>Name</b>                            | <b>Organization</b>                   | <b>Attendance</b> |
| Chris Advena                           | PJM                                   | In Person         |
| Christina Bigelow                      | Midwest ISO                           | In Person         |
| Jonathan Booe                          | NAESB                                 | In Person         |
| Kathryn Burch                          | Spectra Energy Transmission           | Phone             |
| Christopher Burden                     | Williams Gas Pipeline                 | Phone             |
| Dale Davis                             | Williams Gas Pipeline                 | In Person         |
| Ed Davis                               | Entergy                               | Phone             |
| Rob Martinko                           | FirstEnergy Service Company           | Phone             |
| Rae McQuade                            | NAESB                                 | In Person         |
| Mike Novak                             | National Fuel Gas Distribution        | Phone             |
| Bill Phillips                          | Midwest ISO                           | In Person         |



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|                   |             |           |
|-------------------|-------------|-----------|
| Brad Ramsay       | NARUC       | Phone     |
| Ed Skiba          | Midwest ISO | In Person |
| Veronica Thomason | NAESB       | In Person |



# North American Energy Standards Board

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**TO:** NAESB Files  
**FROM:** Jonathan Booe, Deputy Director  
**RE:** Email Exchange and Approval of Motion  
**DATE:** February 12, 2011

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The NAESB Parliamentary Committee, through a series of email exchanges, discussed revisions to the NAESBOP. On February 11, 2011, Mr. Oberski made a motion to recommend that the [following] revised NAESBOP be adopted and passed along to the Board for approval. Mr. Hurley seconded the motion and the motion was unanimously approved on February 12, 2011.

## **F. Standards Appeal Procedure**

Any interested person with a direct and material interest who has been or may be adversely affected by a substantive or procedural action or inaction of the EC shall have the right to appeal, by resort to the procedures below. [Section 1 applies to NAESB Standards and Section 2 applies to NAESB Standards that have been adopted by ANSI as ANSI Standards:](#)

1. Such affected person may ask that any adopted NAESB standard or proposed standard be amended, rejected, or reconsidered. A request for an amendment to existing standards or reconsideration of a proposed standard that was not adopted may be designated as [an appeals](#) by the requesting party and filed with the NAESB office. [Appeals of actions shall be taken within 30 days after the date of notification of action by the EC; appeals of inactions may be taken at any time.](#) The requesting party shall state in its appeal the reasons for its request and any proposed alternative language. Such requests shall be treated as requests for new standards and processed accordingly; or

2. Such affected person may appeal using the procedures set forth in [Section 6 and](#) Clause A.12 of the *ANSI Procedures for Development and Coordination of American National Standards*. ~~[Appeals of actions shall be taken within 30 days after the date of notification of action by the EC; appeals of inactions may be taken at any time.](#)~~

## **G. Process Appeal Procedure**

[Any interested person with a direct and material interest who has been or reasonably may be adversely affected by a procedural action of the EC to adopt a standard shall have the right to appeal, by resort to the procedures below, within 30 days after the date of notification of action by the EC:](#)

1. [Such affected person carries the burden of presenting clear and convincing evidence that a standard adopted by the EC and ratified by the membership was invalidly adopted as a matter of process. Such evidence must overcome the rebuttable presumption that a standard adopted by the EC and ratified by the membership is valid and was validly adopted.](#)

2. [The appealing party must clearly identify the specific procedural defect\(s\) alleged and how they relate to existing NAESB policy regarding the adoption of standards and to the standard in question.](#)

3. [All such appeals must be directed to the NAESB Office on a form specified by them.](#)

4. [The NAESB office shall first refer the matter to the NAESB General Counsel, who shall review the complaint and advise the NAESB Office and the Managing Committee whether the complaint states a prima facie clear and valid cause for appeal.](#)

5. [If the Managing Committee determines that the complaint does not state a prima facie clear and valid cause for appeal then the NAESB office will so advise the complaining party. The complaining party shall have an opportunity to revise its appeal application. Following the reapplication, if the Managing Committee again determines that the complaint](#)

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does not state a prima facie clear and valid cause for appeal then the NAESB office shall advise the complaining party. A report shall be made to the Board as a matter of information only at the next meeting following its action.

6. If the Managing Committee determines that the complaint does state a prima facie clear and valid cause for appeal then the Managing Committee shall refer the matter to the Parliamentary Committee for review and decision. The Parliamentary Committee may meet in person or otherwise, and may consider the matter based upon the written filing or request supplemental information from the appealing party. It shall also request input from the EC leadership and shall review the record of EC proceedings as it deems necessary.

7. The Parliamentary Committee thereafter shall forward its decision to the Board through the Managing Committee.

8. If the Parliamentary Committee determines that the EC action was procedurally defective the NAESB Office shall so advise the EC and direct the EC to take action to reconsider the standard. The action taken shall be in the form of a revote of the appealed standard using NAESB practices.

9. If the Parliamentary Committee determines that the EC action was not procedurally defective then the NAESB Office shall so advise the complaining party.

10. At the next Board meeting following final action by the Parliamentary Committee to either uphold or reject the appeal, the Managing Committee shall report the Parliamentary Committee's decision to the Board as a matter of information only.

11. Should the appealing party be a member of the Managing Committee or the Parliamentary Committee, to avoid conflict of interest, the appealing party is barred from voting on the appeal.

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**TO:** NAESB Files  
**FROM:** Jonathan Booe, Deputy Director  
**RE:** Email Exchange and Approval of Motion  
**DATE:** February 18, 2011

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Upon consideration of comments filed by the Midwest ISO on February 11, 2011 (<http://www.naesb.org/pdf4/parliamentary010511a4.doc>), the NAESB Parliamentary Committee discussed, through a series of email exchanges, additional revisions to the revised NAESBOP adopted by the Parliamentary Committee on February 12, 2011. On February 15, 2011, Mr. Lander made a motion to reconsider the February 12, 2011 action and to adopt the following revisions to the NAESBOP in light of the Midwest ISO late-filed comments. Ms. Crockett seconded the motion and the motion was approved without opposition on February 18, 2011.

## F. Standards Appeal Procedure

Any interested person with a direct and material interest who has been or may be adversely affected by a substantive or procedural action or inaction of the EC shall have the right to appeal, by resort to the procedures below. [Section 1 applies to NAESB Standards and Section 2 applies to NAESB Standards that have been adopted by ANSI as ANSI Standards:](#)

1. Such affected person may ask that any adopted NAESB standard or proposed standard be amended, rejected, or reconsidered. A request for an amendment to existing standards or reconsideration of a proposed standard that was not adopted may be designated as an appeal by the requesting party and filed with the NAESB office. [Appeals of actions shall be taken within 30 days after the date of notification of action by the EC; appeals of inactions may be taken at any time.](#) The requesting party shall state in its appeal the reasons for its request and any proposed alternative language. Such requests shall be treated as requests for new standards and processed accordingly; or

2. Such affected person may appeal using the procedures set forth in Section 6 and Clause A.12 of the *ANSI Procedures for Development and Coordination of American National Standards*.

## G. Process Appeal Procedure

Any interested person with a direct and material interest who has been or reasonably may be adversely affected by a procedural action of the EC to adopt a standard shall have the right to appeal, by resort to the procedures below, [within 30 10 calendar days after the date of notification of action by the EC:](#)

1. Such affected person carries the burden of presenting clear and convincing evidence that a standard adopted by the EC ~~and ratified by the membership~~ was invalidly adopted as a matter of process. Such evidence must overcome the rebuttable presumption that a standard adopted by the EC ~~and ratified by the membership~~ is valid and was validly adopted.

2. The ~~appealing-complaining~~ party must clearly identify the specific procedural defect(s) alleged and how they relate to existing NAESB policy regarding the adoption of standards and to the standard in question.

3. All such ~~appeals-complaints~~ must be directed to the NAESB [Office](#) on a form specified by them.

4. The NAESB ~~office-Office~~ shall first refer the matter to the NAESB General Counsel, who shall [promptly](#) review the complaint and advise the NAESB Office and the Managing Committee whether the complaint states a [prima facie](#) clear and valid cause for appeal.

5. If the Managing Committee determines that the complaint does not state a prima facie clear and valid cause for appeal then the NAESB ~~office-Office~~ will so advise the complaining party. The complaining party shall have [10 calendar](#)

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days from the NAESB Office's notification an opportunity to revise its appeal application. Following the reapplication, if the Managing Committee again determines that the complaint does not state a prima facie clear and valid cause for appeal then the NAESB ~~office~~ Office shall advise the complaining party. A report shall be made to the Board as a matter of information only at the next meeting following its action.

6. If the Managing Committee determines that the complaint does state a prima facie clear and valid cause for appeal then the complaining party becomes the appealing party, the complaint becomes an appeal and the Managing Committee shall promptly refer the matter to the Parliamentary Committee for review and decision. The Parliamentary Committee may meet in person or otherwise, and may consider the matter based upon the written filing ~~or~~ and may request supplemental information from the appealing party. It shall also request input from the EC leadership and shall review the record of ~~related~~ EC proceedings as ~~it~~ the Parliamentary Committee deems necessary.

7. The Parliamentary Committee thereafter shall promptly forward its decision to the Board through the Managing Committee.

8. If the Parliamentary Committee determines that the EC action was procedurally defective, the Parliamentary Committee shall promptly notify the NAESB Office and the NAESB Office shall promptly so advise the EC and direct the EC to take action to reconsider the standard. The action taken shall be in the form of a revote of the appealed standard using NAESB practices.

9. If the Parliamentary Committee determines that the EC action was not procedurally defective then the then the Parliamentary Committee shall promptly notify the NAESB Office and the NAESB Office shall promptly so advise the ~~complaining~~ appealing party.

10. The Parliamentary Committee shall endeavor to complete its work, make its decision and communicate same to the Managing Committee within 60 calendar days of the Managing Committee's referral of the matter to the Parliamentary Committee for review and decision.

~~1011.~~ At the next Board meeting following final action by the Parliamentary Committee to either uphold or reject with respect to the appeal, the Managing Committee shall report the Parliamentary Committee's decision to the Board as a matter of information only.

~~112.~~ Should the appealing party be a member of the Managing Committee or the Parliamentary Committee, to avoid conflict of interest, the appealing party is barred from voting on the appeal.



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March 16, 2010

The Managing Committee via email unanimously endorsed the actions taken by the Parliamentary Committee as shown below.

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### **Explanation and Clarification adopted by the Parliamentary Committee unanimously on January 5, 2011**

#### **Explanation & Clarification of Notational Voting Rules**

Chairs have been given certain responsibilities and authority by the NAESB Board in order to effectively discharge their duties and see that the work of their committees, subcommittees and task forces is carried out.

In addition, and as GISB did prior to NAESB's creation, NAESB's EC uses notational voting to adopt standards, as provided in the bylaws. Normally this occurs when there are insufficient members at an EC meeting to either pass or not pass a proposed standard. In addition, and has occurred in the past, the EC has made ballots completely notational, which is to say that voting occurs solely through a notational ballot and not at an EC meeting. Normally this is a decision made by the chair(s) at the time of the vote in the case of complex matters and where additional time for consideration is deemed appropriate.

The PC believes it is time to better clarify the rules on notational ballots and thus makes the following recommendations to the Managing Committee and the Board:

- (1) Notational Ballots which occur as a result of insufficient votes at an EC meeting are sent only to those persons who were not present at the meeting in person or by phone and whose segment did not have Alternate(s) vote to full segment tally. If an EC member is not present at an EC meeting and is represented by a designated Alternate, that Alternate's vote counts when made. In the absence of a designated Alternate, any Alternate in attendance from the EC's segment may vote, and that Alternate's vote likewise counts when made. If there are multiple Alternates from the EC member's segment in attendance, any segment rules on seniority apply; in the absence of such rules the segment members in attendance shall designate which Alternate may vote. The votes of all present parties are final when cast prior to the close of the vote on the matter at the meeting. The subsequent notational vote(s) of EC members are final and counted in the order cast prior to the announced date and time of the close of voting. No segment may cast more votes than its full tally.
- (2) In the exercise of their sound discretion, chair(s) may declare that an EC vote shall be a notational vote only, in which case all EC members shall vote notationally. In such cases the votes of the EC members are final when cast prior to the announced date and time of the close of voting.
- (3) When the chair(s) have opted to use their discretion as indicated above they shall state their reasons for doing so; normally such reasons shall be limited to issues of greater complexity where postponing action to the next meeting is impractical or inconsistent with previously-established deadlines. The chair(s) decision shall stand unless overturned at the meeting by a vote of a majority of voting members (including seated Alternates) in attendance (in person or by phone), in which case the provisions of (1) above shall apply.

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### **Revisions to NAESB Operating Practices adopted by the Parliamentary Committee unanimously via email on February 18, 2011**

#### **F. Standards Appeal Procedure**

Any interested person with a direct and material interest who has been or may be adversely affected by a substantive or procedural action or inaction of the EC shall have the right to appeal, by resort to the procedures below. Section 1 applies to NAESB Standards and Section 2 applies to NAESB Standards that have been adopted by ANSI as ANSI Standards:



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1. Such affected person may ask that any adopted NAESB standard or proposed standard be amended, rejected, or reconsidered. A request for an amendment to existing standards or reconsideration of a proposed standard that was not adopted may be designated as an appeals by the requesting party and filed with the NAESB office. Appeals of actions shall be taken within 30 days after the date of notification of action by the EC; appeals of inactions may be taken at any time. The requesting party shall state in its appeal the reasons for its request and any proposed alternative language. Such requests shall be treated as requests for new standards and processed accordingly; or

2. Such affected person may appeal using the procedures set forth in Section 6 and Clause A.12 of the *ANSI Procedures for Development and Coordination of American National Standards*.

### G. Process Appeal Procedure

Any interested person with a direct and material interest who has been or reasonably may be adversely affected by a procedural action of the EC to adopt a standard shall have the right to appeal, by resort to the procedures below, within 10 calendar days after the date of notification of action by the EC:

1. Such affected person carries the burden of presenting clear and convincing evidence that a standard adopted by the EC was invalidly adopted as a matter of process. Such evidence must overcome the rebuttable presumption that a standard adopted by the EC is valid and was validly adopted.

2. The complaining party must clearly identify the specific procedural defect(s) alleged and how they relate to existing NAESB policy regarding the adoption of standards and to the standard in question.

3. All such complaints must be directed to the NAESB Office on a form specified by them.

4. The NAESB Office shall first refer the matter to the NAESB General Counsel, who shall promptly review the complaint and advise the NAESB Office and the Managing Committee whether the complaint states a prima facie clear and valid cause for appeal.

5. If the Managing Committee determines that the complaint does not state a prima facie clear and valid cause for appeal then the NAESB Office will so advise the complaining party. The complaining party shall have 10 calendar days from the NAESB Office's notification to revise its appeal application. Following the reapplication, if the Managing Committee again determines that the complaint does not state a prima facie clear and valid cause for appeal then the NAESB Office shall advise the complaining party. A report shall be made to the Board as a matter of information only at the next meeting following its action.

6. If the Managing Committee determines that the complaint does state a prima facie clear and valid cause for appeal then the complaining party becomes the appealing party, the complaint becomes an appeal and the Managing Committee shall promptly refer the matter to the Parliamentary Committee for review and decision. The Parliamentary Committee may meet in person or otherwise, and may consider the matter based upon the written filing and may request supplemental information from the appealing party. It shall also request input from the EC leadership and shall review the record of EC proceedings as the Parliamentary Committee deems necessary.

7. The Parliamentary Committee thereafter shall promptly forward its decision to the Board through the Managing Committee.

8. If the Parliamentary Committee determines that the EC action was procedurally defective, the Parliamentary Committee shall promptly notify the NAESB Office and the NAESB Office shall promptly so advise the EC and direct the EC to take action to reconsider the standard. The action taken shall be in the form of a revote of the appealed standard using NAESB practices.

9. If the Parliamentary Committee determines that the EC action was not procedurally defective then the then the Parliamentary Committee shall promptly notify the NAESB Office and the NAESB Office shall promptly so advise the appealing party.



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10. The Parliamentary Committee shall endeavor to complete its work, make its decision and communicate same to the Managing Committee within 60 calendar days of the Managing Committee's referral of the matter to the Parliamentary Committee for review and decision.

11. At the next Board meeting following final action by the Parliamentary Committee with respect to the appeal, the Managing Committee shall report the Parliamentary Committee's decision to the Board as a matter of information only.

12. Should the appealing party be a member of the Managing Committee or the Parliamentary Committee, to avoid conflict of interest, the appealing party is barred from voting on the appeal.



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### Parliamentary Committee Members as of March 3, 2011:

|                   |            |  |
|-------------------|------------|--|
| Valerie Crockett  | (WGQ)      | Tennessee Valley Authority               |
| Susanna B. Barry  | (WGQ)      | Tennessee Gas Pipeline Company           |
| Bill Boswell      | non-voting | NAESB General Counsel                    |
| R. Scott Brown    | (WEQ)      | Exelon Generation Power Team             |
| Jim Buccigross    | (WEQ)      | 8760 Inc.                                |
| J. Cade Burks     | (REQ)      | ista                                     |
| Michael Desselle  | (WEQ)      | Southwest Power Pool                     |
| Bruce Ellsworth   | (WEQ)      | New York State Reliability Council       |
| Art Fusco         | (WEQ)      | Central Electric Power Cooperative, Inc. |
| Joseph R. Hartsoe | (WEQ)      | American Electric Power Service Corp.    |
| Jesse Hurley      | (WEQ)      | Shift Research, LLC                      |
| Richard Kruse     | (WGQ)      | Spectra Energy Transmission              |
| Greg Lander       | (RGQ)      | Capacity Center                          |
| Lou Oberski       | (WEQ)      | Dominion Resources Services, Inc.        |
| Debbie McKeever   | (REQ)      | Oncor                                    |
| Leigh Spangler    | (RGQ)      | Latitude Technologies, Inc.              |



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via posting

**TO:** NAESB Web Site for Posting  
**RE:** Notes from the NAESB Advisory Council Meeting – February 12, 2011  
**DATE:** March 7, 2011

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**NORTH AMERICAN ENERGY STANDARDS BOARD ADVISORY COUNCIL MEETING NOTES**  
**Renaissance Washington Hotel – Washington, DC**  
**February 12, 2011 – 4:00 PM to 6:00 PM Eastern**

## 1. Welcome

Mr. Ellsworth opened the meeting and welcomed the Advisory Council members and observers. Mr. Booe provided antitrust guidance and the participants introduced themselves. Mr. Ellsworth reviewed the agenda<sup>1</sup> and recommended that it be modified so that agenda item three is addressed prior to agenda item two. Mr. Lander moved to adopt the agenda as modified by Mr. Ellsworth and Mr. Minneman seconded the motion. The motion passed without opposition.

## 2. NAESB's role relative to federal and state regulators, the Department of Energy, the Department of Commerce and the National Institute of Standards & Technology – progress made in 2010

Ms. McQuade provided a brief history of NAESB's relationships with the Federal Energy Regulatory Commission ("FERC or Commission") and the National Association of Regulatory Utility Commissioners ("NARUC") related to the submission and adoption of NAESB standards. She stated that NAESB's activities with other governmental agencies have expanded as a result of the organization's participation in smart grid activities and that NAESB will be filing its initial set of smart grid standards with the Commission at the end of March. Ms. McQuade noted that NAESB submitted comments through the Department of Commerce to the National Institute of Standards and Technology on an effort lead by the National Science and Technology Council to gain information on successful public-private relationships between standards organizations and regulatory agencies. She also noted that NAESB may be involved in developing energy reporting standards for the Commodity Futures Trading Commission ("CFTC") in the near future. Ms. Ogg stated that the standards would likely be related to swaps and the record keeping requirements after transactions. Mr. DeBoissiere and Mr. Lander noted that NAESB may also be asked to determine what information must be included in filings with the CFTC. Ms. Kelly stated that American Public Power Association ("APPA") has been involved in with the recent CFTC inquiries into energy industry transactions. Ms. Ogg stated that the NAESB should know if and how it will be involved in the CFTC activities by July 2011.

## 3. Primer: The development of a standard from introduction through approval and publication

Ms. McQuade provided the attendees with a review of the NAESB standards development process<sup>2</sup> and encouraged the participants to ask questions at any time. Mr. Ellsworth clarified that the NAESB process is accredited but NAESB has not submitted any standards to ANSI to date. Ms. McQuade responded affirmatively and noted that NAESB undergoes an audit every year with ANSI to maintain accreditation. Mr. Freitas stated that it is important that NAESB provide adequate information about its activities with the appropriate governmental agencies even though NAESB does not advocate. Mr. Ellsworth asked Ms. McQuade to provide an overview of the NAESB staff. Ms. McQuade noted that the NAESB staff includes three attorneys, soon to be four, three support staff, including a tech writer, a part-time accountant and Mr. Boswell as General Counsel. Mr. Freitas asked how many requests for standards development the Wholesale Gas Quadrant ("WGQ") has received lately and if any were related to gas

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<sup>1</sup> The agenda is available through the following hyperlink: <http://www.naesb.org/pdf4/advisory021211a.doc>

<sup>2</sup> The presentation is available through the following hyperlink: <http://www.naesb.org/pdf4/advisory021211primer.pdf>



## North American Energy Standards Board

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quality within the eTariff system. Ms. McQuade responded that the WGQ has not received many requests in the past year and that none have involved gas quality issues. Ms. Crockett stated that the WGQ addressed a gas quality related request from Florida Power and Light several years ago and that the resulting standard did not resolve all of the identified issues. Mr. Freitas stated that gas quality issues and how they affect the NAESB Base Contract will resurface with the recent influx of shale gas production. Mr. Lander stated that NAESB appropriately avoided policy questions related to gas composition when addressing the Florida Power and Light request. Mr. Freitas asked if the NAESB Base Contract is being used as a long term contract. Mr. Lander responded that the NAESB contract is often rolled over and in effect becomes a long term contract. He also noted that the Base Contract is often used as a baseline for drafting long term contracts. Ms. McQuade noted the formation of the REQ Data Privacy Task Force created in response to a request from Reliant, with the backing of NARUC, to develop model business practices for the third party service provider maintenance and distribution of customer data. The Task Force is co-chaired by NARUC and the Public Utility Commission of Texas and the first meeting is going to be held in conjunction with the NARUC winter meetings on February 16, 2011. Ms. Kelly noted that the Department of Energy developed a report on customer data privacy and that APPA provided comments. She noted that it is primarily a state regulatory issue.

### 3. Update on Quadrant Activities and Strategic Directions

Ms. McQuade reviewed the WEQ 2011 Annual Plan<sup>3</sup>, the WGQ 2011 Annual Plan<sup>4</sup> and the Retail 2011 Annual Plan<sup>5</sup> with the participants and highlighted the activities that will be addressed in the next year.

### 4. New Business

- Ideas and Suggestions from the Floor

Ms. McQuade stated that the recent rolling blackouts in Texas have resulted in a reexamination of gas-electric coordination issues and may become a high priority standards development area for NAESB. Ms. Kelly stated that APPA developed a report on gas-electric coordination issues in 2010 and will make it available for interested participants. She also noted that the new Environmental Protection Agency regulations may have an affect on gas-electric coordination issues. Mr. Desselle asked if any of the participants knew if the North American Electric Reliability Corporation (“NERC”) has been involved in these issues. Ms. Kelly stated that she is unaware of any NERC responses and noted that NERC remains neutral on fuel sources. Mr. Lander stated that gas-electric coordination presents several policy issues that will have to be addressed by the Commission before NAESB can start the standards development process. Ms. Daly stated that the any action taken by the Commission on this issue will impact the NAESB nomination and scheduling standards. Ms. Kelly stated that there is currently a Notice of Proposed Rulemaking (“NOPR”) out for comment on variable energy resources (“VERs”) that introduces the requirement of intra-hourly transmission scheduling for public utility transmission providers. The participants discussed the complexities that may arise related to gas-electric coordination should such a requirement be mandated. Mr. Gee stated that a number of factors led to the rolling blackouts in Texas including curtailment priorities and noted that if NAESB addresses gas-electric coordination issues large number of market players would need to be brought into the process. Mr. Desselle recommended that NAESB file comments on the VERs NOPR and note the policy issues and potential impacts to the current NAESB standards. The participants supported his recommendation. Mr. Freitas suggested that the issue be elevated to the National Petroleum Council through the participation of Mr. Gee and Ms. McQuade. Mr. Wollman noted the parallels between the NAESB standards development process and the process being formalized in the NIST smart grid effort. Mr. Desselle stated that Ms. McQuade should discuss the gas-electric coordination issues with the Commissioners during her next visit to the FERC. Mr. Freitas stated that he is on the NARUC Gas Committee and will add this item to the agenda of the July meeting.

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<sup>3</sup> The WEQ Annual Plan is available through the following hyperlink: [http://www.naesb.org/pdf4/weq\\_2011\\_annual\\_plan.doc](http://www.naesb.org/pdf4/weq_2011_annual_plan.doc)

<sup>4</sup> The WGQ Annual Plan is available through the following hyperlink: [http://www.naesb.org/pdf4/wgq\\_2011\\_annual\\_plan.doc](http://www.naesb.org/pdf4/wgq_2011_annual_plan.doc)

<sup>5</sup> The Retail Annual Plan is available through the following hyperlink: [http://www.naesb.org/pdf4/retail\\_2011\\_annual\\_plan.doc](http://www.naesb.org/pdf4/retail_2011_annual_plan.doc)



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- Election of Chair for 2010

Mr. DeBoissiere nominated Mr. Ellsworth to continue as the NAESB Advisory Council Chair for 2010 and Mr. Freitas seconded the nomination. Mr. Ellsworth was unanimously re-elected to his position as Chair.

### 5. Adjourn

The meeting was adjourned at 5:45 PM Eastern by consensus.

### 6. Attendance

#### Advisory Council Members in Attendance

|                        |                                    |
|------------------------|------------------------------------|
| Bruce Ellsworth, Chair | New York State Reliability Council |
| Alex DeBoissiere       | Duane, Morris, LLP                 |
| Christopher Freitas    | Department of Energy               |
| Robert Gee             | The Gee Strategies Group           |
| Charles Gray           | NARUC                              |
| Thomas Pearce          | Ohio Public Utilities Commission   |

#### Board Members in Attendance

|                  |  |
|------------------|--|
| Valerie Crockett | Tennessee Valley Authority                     |
| Michael Desselle | Southwest Power Pool                           |
| James Minneman   | PPL Solutions                                  |
| David Hadley     | NIPSCO/NiSource                                |
| Greg Lander      | Skipping Stone/Capacity Center                 |
| David Wollman    | National Institute of Standards and Technology |

#### Guests in Attendance

|              |   |
|--------------|---|
| Diane Barney | New York State Department of Public Service |
| Kelly Daly   | Stinson, Morrison & Hecker                  |
| Sue Kelly    | American Public Power Association           |
| Joelle Ogg   | Brunenkant Law                              |
| Kathy York   | Tennessee Valley Authority                  |

#### NAESB Staff in Attendance

|                   |                       |
|-------------------|-----------------------|
| Rae McQuade       | NAESB President       |
| Bill Boswell      | NAESB General Counsel |
| Jonathan Booe     | NAESB Deputy Director |
| Veronica Thomason | NAESB Staff           |

**Summary of  
the North American Energy Standards Board  
Gas and Electric Interdependency  
Final Report to the Federal Energy Regulatory  
Commission in Docket No. RM05-28-000 “NAESB  
Report on the Efforts of the Gas-Electric  
Interdependency Committee”**

**Prepared by:  
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**For consideration of  
The National Association of Regulatory Utility Commissioners  
and the United States Department of Energy**

**June 22, 2006**

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## Section 1: Background

This document provides a summary of the recommendations made in the final status report of the North American Energy Standards Board (NAESB) Gas-Electric Interdependency Committee (GEIC), which was filed with the Federal Energy Regulatory Commission (FERC) on February 24, 2006.<sup>1</sup> It examines the background, scope, benefits and impact analysis of the recommendations made in the GEIC final report.

The GEIC report examined potential updates and additions to business practices that would improve the interaction between the gas and electric industries. NAESB, however, cannot proceed further to develop business practice standards until regulators address the findings in the report. It is therefore essential that the recommendation in the final report be presented in a manner that will allow regulators to gain an understanding of the background and benefit of each recommendation and the challenges involved in its implementation. The purpose of this document is to provide an overview of the key issues for regulators who may need to consider regulatory policies related to the GEIC recommendations.

The GEIC was created on September 16, 2004 to emphasize the importance of gas-electric coordination and address the substantial increase in interdependence between natural gas and electric generation. The mission of the committee is to review issues requiring gas-electric interdependency at an executive level and identify actions that may result in additional NAESB standards development, and thus improve the efficiency and reliability of the interaction between the two industries. In addition, the GEIC was tasked with addressing issues relating to three standards development requests, R04016, R04020 and R04021, which resulted from earlier work by the NAESB Gas-Electric Coordination Task Force (GECTF), a precursor of the GEIC.

The efforts of the NAESB at improving gas and electric coordination began in 2003 with the creation of the GECTF. The group filed interim and final reports with FERC on April 16, 2004 and November 30, 2004, respectively. These reports outlined a list of discussion points, which was the principal work product of the GECTF. The discussion points list represented areas of coordination between the gas and electric industries that the GECTF identified as potential items that could be further investigated by the appropriate organizations in order to enhance and improve operational coordination between the electric and gas industries.

The discussion points list was considered a starting point for industry stakeholders interested in submitting standards requests or pursuing resolution in forums other than NAESB to address gas and electric coordination. Standards requests resulting from the GECTF scoping effort included the three assigned to the GEIC:

- R04016: Request No. R04016 to develop a standard definition for Energy Day was submitted to NAESB on May 25, 2004 by KeySpan Utility Services and Duke Energy Gas Transmission and assigned jointly to the NAESB Wholesale Gas Quadrant (WGQ) and Wholesale Electric Quadrant (WEQ) for standards development. The request was for NAESB to develop a standard energy day that would apply to both the natural gas and electric industries. In particular, R04016 proposed standardizing the energy day as midnight to midnight central time. The expected benefits included the improvement of coordination of scheduling between the electric and natural gas industries and the ability of both industries to more closely match fuel deliveries to generation requirements;

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<sup>1</sup> The North American Energy Standards Board (NAESB) serves as an industry forum for the development and promotion of standards which will lead to a seamless marketplace for wholesale and retail natural gas and electricity, as recognized by its customers, business community, participants, and regulatory entities.

- R04020: Request No. R04020 to establish business standards relating to electric transaction scheduling and timelines was submitted to NAESB on June 29, 2004 by Tennessee Valley Authority and assigned to the WEQ for standards development. The request was intended to standardize timelines for the day-ahead energy markets to improve coordination between the gas and electric markets; and
- R04021: Request No. R04021 was submitted by Natural Gas Pipeline Company of America, CrossCountry Energy and Salt River Project to address daily communications between pipelines and entities that control power generation facilities. The request was assigned to both quadrants. These communications standards would include anticipated power generation fuel requirements for the upcoming day as well as notification when plans changed. Likewise standards for pipeline communications for any operating problems that might hinder power plants from receiving required contractual quantities when needed would be developed.

The list of discussion points and presentation material from the GECTF report were included as part of the reference material for the GEIC final report.<sup>2</sup> Following the presentation of the GECTF final report, the task of the GECTF was deemed complete and the Task Force was disbanded.

In line with its assigned tasks, the GEIC submitted a report to FERC that included communication standards between natural gas transmission service providers and power generators on June 27, 2005. These standards represented the final actions from NAESB related to Standards Request No. R04021, which was submitted as part of the GECTF scoping efforts.

Further, in the June 2005 report, GEIC identified thirteen issues relating to standards development that would improve the interaction between the gas and electric markets. GEIC categorized the issues based on the follow-up action required as part of the standards development effort. The categories included:

1. Indicating policy direction and decisions from federal, state or provincial regulatory agencies or other groups, including issues between contractual parties;
2. Appropriate for review for NAESB standards development;
3. Appropriate to be forwarded to the North American Electric Reliability Council for consideration for reliability standards development;
4. Appropriate for review as regional issues; and
5. A national infrastructure concern.

The outstanding standards requests, R04016 and R04020, were symptoms of many of the issues identified in the June 2005 report. Therefore the GEIC was charged with the preparation of a standards development request that would reflect the intent of both of these requests and included other aspects of gas-electric interdependency that were evident in the issues identified. This assignment culminated in the preparation of the GEIC final status report of February 24, 2006, on which this document is based.

As outlined in the GEIC final status report, GEIC identified six potential activities where existing standards should be reexamined to determine whether updates or new business practices could be written to further improve the interaction between the gas and electric industries.

However, NAESB will likely face challenges as it proceeds with standards development based on the GEIC recommendation. Before NAESB can move further in developing business

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<sup>2</sup> The list of discussion points is outside the scope of this document, but is available in the GEIC final report issued on February 24, 2006.

practice standards to address the coordination of the two industries, policy direction and industry willingness for change is required, otherwise NAESB may be in the position of developing business practices and striving to achieve industry consensus for standards that the industry is not convinced are needed. Extraordinary coordination would be needed among regulators, the North American Electric Reliability Council (NERC), NAESB and industry participants of both the natural gas and electric wholesale markets.

As would be evident from a review of the six activities in the GEIC final status report, these activities have policy implications. Therefore, regulators may be required to intervene to help define the way forward. Further, some stakeholder groups may not be interested in working within NAESB to create the needed standards or business practices. For example, the GEIC report indicated that the organized electric markets, such as the ISOs, RTOs and their stakeholder groups may prefer regional solutions developed individually to a joint effort within NAESB. This shows the need for change from both gas and electric industries in order to find collaborative solutions. Finally, some issues will require the attention of an organization external to NAESB, such as NERC. For example, issues related to system reliability may need to be addressed by NERC to avoid duplication of efforts.

This document provides an overview of the key issues for regulators to enable them provide the policy direction required as NAESB proceeds with the standards development effort. In addition to providing background information on each of the GEIC recommendations, it also discusses the benefits of the recommendations and examines the challenges in implementation.

## Section 2: Proposed Standards Development Activities

The six activities identified by the GEIC report as considerations for potential improvement in the interaction between the gas and electric industries are:

- 1: Develop standards to support Capacity Release pricing on an index for pipelines that have the FERC authority to enter into negotiated rates and discount capacity on an index basis.
- 2: Review the possibility of adding an additional intraday nomination cycle with bumping rights to provide more flexibility to shippers, including power generators, with firm transportation rights such that they can nominate for natural gas supporting their market clearing times.
- 3: Review the ability of pipelines to shift gas for primary firm transportation within a pipeline path without having to re-offer as secondary firm transportation service.
- 4: Review and modify the requirements for organized electric markets so that the markets clear in sufficient time to nominate within the existing gas nomination timelines.
- 5: Require generators that offer into the day-ahead market to have the appropriate commercial arrangements to fulfill the needed obligations.
- 6: Develop the appropriate supporting definitions for new business practices for the Wholesale Electric Quadrant, including but not limited to definitions for: alternate fuel capability, usable alternate fuel capability, firm transportation service, firm sales service, firm supply, and “must run” generator.

These six items are discussed in more detail below.

### **1: Develop standards to support Capacity Release pricing on an index for pipelines that have the FERC authority to enter into negotiated rates and discount capacity on an index basis.<sup>3</sup>**

- **Issue Background:** The release of previously contracted gas pipeline capacity is governed by NAESB standards, as incorporated by reference in pipeline tariffs, and by FERC policy. The NAESB guidelines and FERC policy allow the release of capacity subject to certain bidding rules and tariff rate limits. However, the NAESB standards are more restrictive than FERC policy in that NAESB (WGQ Standard 5.3.19) requires re-releases of capacity to be on the same terms as the primary release, whereas FERC leaves this commercial decision to the releasing and replacement shipper. Under current NAESB standards neither the pipeline nor the releaser of capacity is allowed to charge short-term rates that would match the instantaneous market value of the released capacity to a peak-demand market. Conversely, under FERC policy releasing shippers can offer the same type of pricing arrangement that the pipeline offers, which often is at discounted rates where the effective rate was tied to a published price index.
- **Proposed Resolution:** NAESB standards should be modified to enable a firm shipper to propose a short-term release rate based on a published electric price index. This rate could fluctuate each day between a releasing shipper specified floor and the maximum tariff rate. In theory, this would create an economic incentive to provide more short-term capacity to the market when needed, as the potentially higher

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<sup>3</sup> Consistent with the 2/27/04 Order in Docket No. RP04-151-0007 and the Policy Statement in Docket No. PL02-6 issued on 1/19/06,

release value would enable releasing shippers to explore replacement capacity alternatives that otherwise might not be cost-effective.

A related issue is the removal of the pricing cap on capacity releases in order to make it more attractive for firm capacity holders to release capacity. However, such a revision of rules would require regulatory policy changes, and it is not included in the scope of business practice updates and additions discussed in this report.

- **Challenges:** The ability of nomination cycles, capacity-release procedures and other pipeline tariff terms to accommodate the recommended proposal currently vary in their flexibility, and the impact on market participants needs to be evaluated.

**Item 2: Review the possibility of adding an additional intraday nomination cycle with bumping rights to provide more flexibility to shippers, including power generators, with firm transportation rights such that they can nominate for natural gas supporting their market clearing times.<sup>4</sup>**

- **Issue Background:** The gas industry follows a cyclic timeline in nominating gas supplies and transportation services in order to facilitate efficient coordination in meeting market demand. The four-stage nomination cycle (the “Gas Day”) runs from 9 a.m. Central Clock Time (CCT) the day before the gas is to flow, and ends at 9 a.m. CCT the next day when the last of the two “Intraday” nomination cycles is completed. In general, the earlier in the nomination cycle that gas is nominated to flow, the firmer are the shippers’ rights to assure delivery to market. However, the Gas Day commences well in advance of the time when power markets are cleared (i.e., generator dispatch orders are firmed up) via the nomination process followed by the electric industry. Participants in the electricity market either nominate gas supply and transportation in the earliest cycles of the Gas Day and risk not having their dispatch bids subsequently clear the power market (e.g., they are stuck with excess supply and transportation), or they may wait for their bid to clear the power market and risk relying upon one or both of the two Intraday nomination cycles, which offer less reliability that adequate transportation capacity will be available when needed. Sometimes a generator needing to run takes gas despite not having the appropriate service nominated, and this can create problems in maintaining pipeline system operational integrity, which could harm other gas consumers.
- **Proposed Resolution:** Adding another Intraday nomination cycle and modifying the order of prioritizing levels of transportation service reliability (i.e., firm versus interruptible) that is defined within each nomination cycle of the Gas day may mitigate potential mismatches between gas services nominated and gas demand in the power sector
- **Challenges:** Although the appropriate technology exists to implement this proposed solution, the impact of an additional cycle on the timing of the existing nomination cycles and on current market participants could be problematic and needs further evaluation. Also, gas industry participants are less inclined to undertake the

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<sup>4</sup> “Firm shippers are paying reservation charges for priority rights and those rights should include the right to have a nomination become effective as early as possible on the gas day following the nomination. Interruptible shippers...should not be able to prevent firm shippers from having their nominations take effect at the earliest possible time.” FERC Docket No. RM96-1-007, Order No. 587-G, (April 16, 1998). See also FERC Docket No. RM96-1 and FERC Docket No. RM96-1 Order Nos. 587-F, 636, and 637.

proposed changes to their established Gas Day nomination process unless participants in the electric industry undertake corresponding changes in their process and timing of clearing power markets – a suggestion that is discussed in more detail under Item 4 below.

**Item 3: Review the ability of pipelines to shift gas for primary firm transportation within a pipeline path without having to re-offer as secondary firm transportation service.<sup>5</sup>**

- Issue Background: Within an operating day, gas pipeline customers have the ability to divert gas to markets other than those originally scheduled for that day during prior nomination cycles for a given Gas day. This provides customers with the flexibility to adjust their schedules with changing market conditions. Current market rules, however, restrict this ability, in that Intraday schedule changes have to be treated as new nominations specified in the context of the Intraday nomination cycles. This rule restricts the customers' flexibility to adjust schedules, and also could result in a customer losing their original transportation priority (i.e., their designated volumes assigned firm capacity, rights, for example). Current rules also create potential equity issues that pipelines face if they attempt to switch nomination schedules. For example, depending on capacity availability, some customers may not be scheduled originally because they did not contract for firm transportation. If capacity is switched intra-day, it introduces the possibility that other customers who also did not originally contract for firm transportation may be recipients of the available capacity
- Proposed resolution: A revision of the rules to allow for greater flexibility for shippers to reschedule gas deliveries would provide greater flexibility, benefiting pipeline customers and the market as a whole.
- Challenges: Modifications to the manner in which transportation services are provided should ensure that pipelines are operationally indifferent and that the final rules are non-discriminatory. It is also important to ensure that scheduled service for other customers is not affected by changes to intra-day nomination procedures. Therefore any rule revisions should incorporate at least two conditions:
  - The intra-day nomination should have the same scheduling priority that is being scheduled and could be allowed to flow on the same Gas Day as the intra-day nomination through a posted point of system-capacity constraint, even if subject only partially to the constrained capacity point; and
  - The nomination should not result in a net increase in the total volume scheduled under the contract though the posted constraint point.

**Item 4: Review and modify the requirements for organized electric markets so that the markets clear in sufficient time to nominate within the existing gas nomination timelines.**

- Issue Background: Although gas and power markets are highly interdependent, their operational (gas nominations and electric dispatch) timelines are not synchronized. (Appendix 1 provides a graphical representation of the differences in operating timelines of the gas and electric markets.) As discussed in Item 2 above, initial gas nominations for a given Gas Day, which offer the highest degree of reliability of delivery compared to subsequent nomination cycles occur before the electricity-dispatch markets have cleared and successful bidders are

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<sup>5</sup> Consistent with the 11/22/05 Order in Docket Nos. RP06-69-000 and RP06-70-000

notified<sup>6</sup>. Participants in the electricity market therefore have to either purchase and nominate gas transportation during the initial nomination cycles and risk not having their bids in the power market subsequently clear the market, or wait for their bids to clear the power market and risk relying upon the Intraday gas transportation nominations that offer a relatively lesser degree of reliability of firm service. Depending on prior reservations, nominations at later cycles may even fail to be scheduled regardless of reservation priority. Therefore, on the one hand transmission participants could incur additional costs if they contract for capacity that they subsequently cannot use because their bids in the electricity market did not clear, and on the other they could be cleared for the electricity generation with insufficient fuel reservation to fill the generation requirements.

- Proposed resolution: Procedures for nominating gas transportation services and determining the electric-dispatch order should be synchronized so that electricity markets clear ahead of the gas markets. Market synchronization would allow participants in the electricity market to determine the outcome to their bidding process and then purchase and schedule gas transportation only if they are cleared to operate during the next operating period. This would enhance the ability of power producers to meet their delivery obligations in a cost-effective manner.
- Challenges: Consensus will have to be sought from the electric industry in order to implement market changes, and there is disagreement regarding how to accomplish this fairly across electric markets, which, unlike the gas transportation industry, operate regionally. However, these changes must be made in order for the gas industry to accept corresponding changes to its nomination procedures as described in item 2 above. Likewise, the gas industry is less likely to implement changes in its market rules if the electric industry does not reciprocate.

**Item 5: Require generators that offer into the day-ahead market to have the appropriate commercial arrangements to fulfill the needed obligations.**

- The power markets often rely on gas-fired generators, especially new market entrants, that may not have the appropriate contracts in place to ensure that adequate fuel supplies will be available when called upon. Some power markets allow generators to bid to dispatch power on a firm basis even though the bid is supported only by interruptible gas transportation arrangements. In addition to being considered more economical for the generators, relying on lower cost interruptible gas arrangements represented a reduced risk given that gas-fired plants were expected to serve load in contra-seasonal peaks (which has not developed as anticipated).
- Proposed Resolution: Power generators that offer firm service bids in the day-ahead market should be required to have corresponding firm gas supply and transportation arrangements in place. This would not only assure that generators would be able to fulfill their firm power obligations, but it also would

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<sup>6</sup> Note that although interruptible capacity may be bumped by a firm reservation at a later cycle, lower priority firm reservation, once scheduled, supersedes a relatively higher firm priority reservation at a later cycle. For example once a Secondary Firm reservation is scheduled at the Timely Cycle, it cannot be bumped by a Primary Firm reservation at the Evening Cycle.

minimize the problem of gas-fired generation units coming online despite not having sufficient (or any) previously nominated gas service and take unauthorized gas out of the system and jeopardizing integrity of the pipeline system and the rights of other customers.

- Challenges: There is the potential that requiring generators to maintain firm gas supply and transportation arrangements could interfere with the risk management strategies of market participants. Also, any aspects relating to power system reliability need to be addressed by the NERC, as they are outside the authority of the NAESB.

**Item 6: Develop the appropriate supporting definitions for new business practices for the Wholesale Electric Quadrant, including but not limited to definitions for: alternate fuel capability, usable alternate fuel capability, firm transportation service, firm sales service, firm supply, and “must run” generator.**

- Issue Background: Given the highly interdependent nature of the gas and electric industries, the ongoing lack of common agreement regarding definitions of industry business terms and practices creates potential inefficiencies in market operation.
- Proposed Resolution: Developing an inter-industry consensus regarding definitions of business terms and practices would minimize inefficiencies in the gas and electric market sectors.
- Challenges: In previous attempts, the Wholesale Electric Quadrant was unable to reach consensus on definitions of similar terms as those accepted by the gas industry. In addition, although these definitions will apply to Wholesale Electric Quadrant, the definitions should be developed with the appropriate input from the Wholesale Gas Quadrant to ensure consistency with gas products.

### **Section 3: Summary and Next Steps**

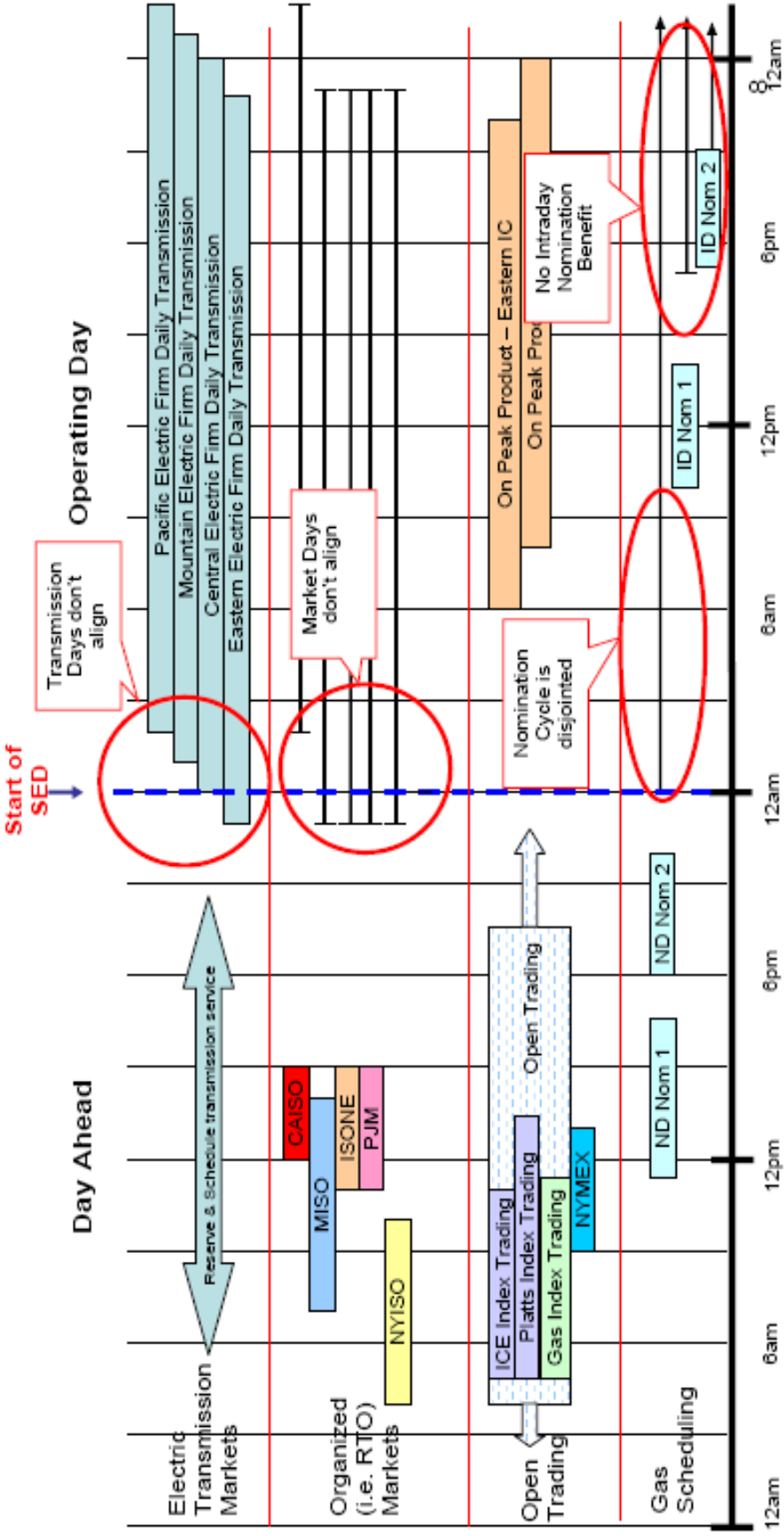
To accomplish the standards development efforts, extraordinary coordination will be required of industry participants of both the natural gas and electric wholesale markets. Items 1-3 (all gas related) have previously cited policies or statements in individual pipeline tariffs that may support the standards development but may benefit from direction provided by the FERC to support the much needed consensus building. Items 4-6 do not have specific policies in place today, and would require direction from FERC if consensus within the two industries would be achievable. Since the lack of industry support poses sufficient roadblocks to development, regulatory policy guidance will be required before further efforts can be undertaken.

With the Board approval of the GEIC final status report, the submitters of R04016 and R04020 have withdrawn their requests. The GEIC efforts are considered complete with the submittal of the final report as endorsed by the Board of Directors to FERC.

# Appendix 1: Gas-Electric Timeline

## “As Requested” Standard Energy Day

With Other Processes as They Exist Today





# North American Energy Standards Board

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NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ)  
MARCH 21, 2011 (REVISED)

## ACTIONS TO BE APPLIED TO WGQ VERSION 2.0 TO CREATE WGQ VERSION 2.1:

Version 2.0 was published on November 30, 2010.

### 2011-12:

#### Final Actions:

R09018 - Add MA data element Path Rank in the Nominations data set and corresponding error message in the Nom QR as approved by the WGQ Executive Committee on February 3, 2011.

Recommendation: [http://www.naesb.org/member\\_login\\_form.asp?doc=wgq\\_rat021511\\_r09018\\_rec.doc](http://www.naesb.org/member_login_form.asp?doc=wgq_rat021511_r09018_rec.doc) - *Ratified March 17, 2011*

#### Recommendations:

R10003 – This request proposes the addition of two new data elements “Discount Begin Date” and “Discount End Date” in the following Transaction Datasets: Transactional Reporting – Capacity Release, NAESB WGQ Standard No. 5.4.20 and Transactional Reporting – Firm Transportation, NAESB WGQ Standard No. 5.4.21. – approved by the WGQ EC via Notational Ballot on December 20, 2010

Recommendation: [http://www.naesb.org/member\\_login\\_form.asp?doc=wgq\\_rat031711\\_r10003\\_rec.doc](http://www.naesb.org/member_login_form.asp?doc=wgq_rat031711_r10003_rec.doc) –  
*Ratification period ending April 18, 2011*

R09016 – Add Rate Schedule data element to the Bid Upload and Bid Download datasets and change conditionality of Location data for Offer Upload/Download datasets or add code values to allow a dummy agenda – approved by the WGQ EC via Notational Ballot on December 20, 2010

Recommendation: [http://www.naesb.org/member\\_login\\_form.asp?doc=wgq\\_rat031711\\_r09016\\_rec.doc](http://www.naesb.org/member_login_form.asp?doc=wgq_rat031711_r09016_rec.doc) –  
*Ratification period ending April 18, 2011*

C10001 - Clarification of the word Tariff under Informational Posting. NAESB WGQ Standard No. 4.3.23 does not specify if the category Tariff under Informational Posting includes negotiated rates, non-conforming agreements, Volume 2s, and X-rate schedules within the definition.

Recommendation: <http://www.naesb.org/pdf4/10001c.doc>

*Request for Formal Comments - [http://www.naesb.org/pdf4/wgq\\_121310\\_reqcom.doc](http://www.naesb.org/pdf4/wgq_121310_reqcom.doc) - comment period ended January 13, 2011* – Recommended for WGQ EC consideration in May 2011

R10007 - Change the Offer, Bid and Award downloads to have the ability to communicate multiple indexed rates for a given offer.

Recommendation: **(no changes necessary)** [http://www.naesb.org/pdf4/wgq\\_r10007\\_rec\\_123010.doc](http://www.naesb.org/pdf4/wgq_r10007_rec_123010.doc)

*Request for Formal Comments - [http://www.naesb.org/pdf4/wgq\\_010311reqcom.doc](http://www.naesb.org/pdf4/wgq_010311reqcom.doc) - comment period ended February 2, 2011*

R10009 - Add sender’s option data element “Open Season ID” to Transactional Reporting – Firm Transportation – NAESB WGQ Standard No. 5.4.21

Recommendation: [http://www.naesb.org/pdf4/wgq\\_r10009\\_rec.doc](http://www.naesb.org/pdf4/wgq_r10009_rec.doc)

*Request for Formal Comments - [http://naesb.org/pdf4/wgq\\_020911reqcom.doc](http://naesb.org/pdf4/wgq_020911reqcom.doc) - comment period ended March 11, 2011* - Recommended for WGQ EC consideration in May 2011



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## NAESB UPDATE: VERSION 2.1 – WHOLESALE GAS QUADRANT (WGQ) MARCH 21, 2011 (REVISED)

### Minor Corrections:

MC10038 - For NAESB WGQ Version 2.1, additional code values for the data elements Transaction Type and Reduction Reason Code in the following data sets as appropriate: Nomination (1.4.1), Confirmation Response (1.4.4), Scheduled Quantity (1.4.5), Scheduled Quantity for Operators (1.4.6), and Confirmation Response data sets as needed to support these requirements. – approved by the WGQ EC via Notational Ballot on January 18, 2011  
Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc10038\\_rec\\_123010.doc](http://www.naesb.org/pdf4/wgq_mc10038_rec_123010.doc)  
Request for Comments: [http://www.naesb.org/pdf4/wgq\\_mc031011reqcom.doc](http://www.naesb.org/pdf4/wgq_mc031011reqcom.doc) - *comments due March 24, 2011 (Effective Date, April 25, 2011)*

MC10040 - For NAESB WGQ Version 2.1, NAESB WGQ Standard No. 0.4.2 – Operational Capacity, NAESB WGQ Standard No. 1.4.1 – Nomination, NAESB WGQ Standard No. 1.4.3 – Request for Confirmation, NAESB WGQ Standard No. 1.4.4 – Confirmation Response, NAESB WGQ Standard No. 1.4.5 – Scheduled Quantity, NAESB WGQ Standard No. 1.4.6 – Scheduled Quantity for Operator, NAESB WGQ Standard No. 5.4.20 – Transactional Reporting – Capacity Release, NAESB WGQ Standard No. 5.4.21 – Transactional Reporting – Firm Transportation, NAESB WGQ Standard No. 5.4.24 – Offer, NAESB WGQ Standard No. 5.4.25 – Bid, and NAESB WGQ Standard No. 5.4.26 – Award Download. – approved by the WGQ EC via Notational Ballot on January 18, 2011  
Recommendation: [http://www.naesb.org/pdf4/wgq\\_mc10040\\_rec\\_123010.doc](http://www.naesb.org/pdf4/wgq_mc10040_rec_123010.doc)  
Request for Comments: [http://www.naesb.org/pdf4/wgq\\_mc031011reqcom.doc](http://www.naesb.org/pdf4/wgq_mc031011reqcom.doc) - *comments due March 24, 2011 (Effective Date, April 25, 2011)*

### **TIMELINE:**

- Version 2.1 is scheduled for publication in third quarter 2012.
  - To back into this date – all standards should be ratified by date of publication, and EC actions should be taken one month prior, to publication, all subcommittee actions should be taken three months prior to publication.
- |           |   |
|-----------|---|
| Month - 4 | Subcommittee Recommendations Completed and sent out for comment |
| Month - 3 | EC Actions taken  |
| Month - 2 | Ratifications sent out and completes, minor corrections applied |
| Month - 1 | Review of draft publication                                     |
| Month - 0 | Date of Publication.  |



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**NAESB UPDATE: VERSION 002.2 – WHOLESALE ELECTRIC QUADRANT (WEQ)  
MARCH 21, 2011**

## **ACTIONS TO BE APPLIED TO WEQ VERSION 002.1 TO CREATE WEQ VERSION 002.2:**

Version 002.1 was published on March 11, 2009.

### **2009-10:**

#### Final Actions:

2008 WEQ Annual Plan Item 5(a) – Review and develop business practice standards to support DR and DSM-EE programs – Ratified March 16, 2009 - [http://naesb.org/member\\_login\\_check.asp?doc=fa\\_weq\\_2008\\_api5a.doc](http://naesb.org/member_login_check.asp?doc=fa_weq_2008_api5a.doc) (New WEQ-015)

2009 WEQ Annual Plan Item 3(d) – Order 717, Standards of Conduct – Ratified June 15, 2009 - [http://naesb.org/member\\_login\\_check.asp?doc=fa\\_weq\\_2009\\_api\\_3d.doc](http://naesb.org/member_login_check.asp?doc=fa_weq_2009_api_3d.doc) (WEQ-001, WEQ-002, WEQ-003)

2009 WEQ Annual Plan Item 2(a)(ii)(3) – Rollover Rights on Redirect on a Firm Basis – Ratified July 27, 2009 - [http://naesb.org/member\\_login\\_check.asp?doc=fa\\_weq\\_2009\\_ap\\_2aii3.doc](http://naesb.org/member_login_check.asp?doc=fa_weq_2009_ap_2aii3.doc) (WEQ-001, WEQ-002, WEQ-003, WEQ-013)

2009 WEQ Annual Plan Item 1(a), 3(a)(vii)/R05020 – Modifications to WEQ-004 Coordinate Interchange as approved by the WEQ EC on October 27, 2009 – Ratified December 14, 2009 - [http://naesb.org/member\\_login\\_form.asp?doc=fa\\_weq\\_2009\\_api\\_1a\\_3avii\\_r05020.doc](http://naesb.org/member_login_form.asp?doc=fa_weq_2009_api_1a_3avii_r05020.doc) (WEQ-001, WEQ-002, WEQ-003, WEQ-004, WEQ-013)

Attachment: [http://naesb.org/member\\_login\\_form.asp?doc=fa\\_weq\\_2009\\_api\\_1a\\_3avii\\_r05020\\_attach.doc](http://naesb.org/member_login_form.asp?doc=fa_weq_2009_api_1a_3avii_r05020_attach.doc)

2009 WEQ Annual Plan Item 5(b) – Modify NAESB definition to address internal inconsistencies and inconsistencies with the NERC glossary – approved by the WEQ EC on February 2, 2010 – Ratified March 24, 2010 - [http://naesb.org/member\\_login\\_check.asp?doc=fa\\_weq\\_2009\\_api5b.doc](http://naesb.org/member_login_check.asp?doc=fa_weq_2009_api5b.doc)

2009 WEQ Annual Plan Items 5(a)(2), 5(i)/R08004/R09011 – Multiple Annual Plan Items affecting WEQ-011 Gas/Electric Coordination – Approved by the WEQ EC on June 11, 2010 via Notational Ballot. – Ratified July 15, 2010 - [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_weq\\_2009\\_api\\_5a2\\_5i\\_r08004\\_r09011.doc](http://www.naesb.org/member_login_form.asp?doc=fa_weq_2009_api_5a2_5i_r08004_r09011.doc)

Attachments:

[http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_weq\\_2009\\_api\\_5a2\\_5i\\_r08004\\_r09011\\_attach1.doc](http://www.naesb.org/member_login_form.asp?doc=fa_weq_2009_api_5a2_5i_r08004_r09011_attach1.doc)

2009 WEQ Annual Plan Items 3(a)(ii)(1)/R07013 - Develop a Confidentiality Agreement - [http://www.naesb.org/pdf4/weq\\_2009\\_api\\_3aii1\\_r07013\\_rec.doc](http://www.naesb.org/pdf4/weq_2009_api_3aii1_r07013_rec.doc) - Approved by the WEQ EC on May 4, 2010 (*No further action needed*)

2010 WEQ Annual Plan Item No. 6.a - Requirements Specifications for Common Electricity Product and Pricing Definition – for NIST PAP03 as revised by the WEQ EC on July 7, 2010 – Ratified August 21, 2010 - [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_weq\\_2010\\_api\\_6a.doc](http://www.naesb.org/member_login_form.asp?doc=fa_weq_2010_api_6a.doc)



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### NAESB UPDATE: VERSION 002.2 – WHOLESALE ELECTRIC QUADRANT (WEQ) MARCH 21, 2011

2010 WEQ Annual Plan Item No. 6.b - Requirements Specifications for Common Scheduling Mechanism for Energy Transactions – for NIST PAP04 as revised by the WEQ EC on July 7, 2010 – Ratified August 21, 2010 - [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_weq\\_2010\\_api\\_6b.doc](http://www.naesb.org/member_login_form.asp?doc=fa_weq_2010_api_6b.doc)

2010 WEQ Annual Plan Item No. 6.c - Requirements Specifications for Wholesale Standard DR Signals - for NIST PAP09 as revised by the WEQ EC on July 7, 2010 – Ratified August 21, 2010 - [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_weq\\_2010\\_api\\_6c.doc](http://www.naesb.org/member_login_form.asp?doc=fa_weq_2010_api_6c.doc)

2010 WEQ Annual Plan Item 6d – Business Practices and Information Models to Support Priority Action Plan 10 – Standardized Energy Usage Information as approved by the WEQ EC on October 29, 2010 – Ratified November 29, 2010 - [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_weq\\_2010\\_ap\\_6d.doc](http://www.naesb.org/member_login_form.asp?doc=fa_weq_2010_ap_6d.doc)

2010 WEQ Annual Plan Item 1.a.i – Interim Solution for Parallel Flow Visualization as revised by the WEQ EC on October 26, 2010 and approved via notational ballot on November 3, 2010 – Ratified December 6, 2010 - [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_weq\\_2010\\_api\\_1ai.doc](http://www.naesb.org/member_login_form.asp?doc=fa_weq_2010_api_1ai.doc)

2010 WEQ Annual Plan Item 6 – Master Data Requirements List for Standards associated with NIST PAP03 and PAP09 as reviewed, revised and subsequently approved via notational ballot on February 18, 2011 by the WEQ EC – Ratified March 21, 2011 - Recommendation: [http://www.naesb.org/member\\_login\\_check.asp?doc=weq\\_rat021811\\_2010\\_weq\\_api\\_6\\_a-c\\_rec.doc](http://www.naesb.org/member_login_check.asp?doc=weq_rat021811_2010_weq_api_6_a-c_rec.doc)

2010 WEQ Annual Plan Item 6a – Phase 2: Requirements Specifications for Common Electricity Product and Pricing Definition for NIST PAP03 as reviewed, revised and subsequently approved via notational ballot on February 18, 2011 by the WEQ EC – Ratified March 21, 2011 - Recommendation Phase 2: [http://www.naesb.org/member\\_login\\_check.asp?doc=weq\\_rat021811\\_2010\\_weq\\_api\\_6\\_a\\_ii\\_rec.doc](http://www.naesb.org/member_login_check.asp?doc=weq_rat021811_2010_weq_api_6_a_ii_rec.doc)

2010 WEQ Annual Plan Item 6b – Phase 2: Requirements Specifications for Common Scheduling Mechanism for Energy Transactions for NIST PAP04 as reviewed, revised and subsequently approved via notational ballot on February 18, 2011 by the WEQ EC – Ratified March 21, 2011 - Recommendation Phase 2: [http://www.naesb.org/member\\_login\\_check.asp?doc=weq\\_rat021811\\_2010\\_weq\\_api\\_6\\_b\\_ii\\_rec.doc](http://www.naesb.org/member_login_check.asp?doc=weq_rat021811_2010_weq_api_6_b_ii_rec.doc)

2010 WEQ Annual Plan Item 6c – Phase 2: Requirements Specifications for Wholesale Standard DR Signals for NIST PAP09 as reviewed, revised and subsequently approved via notational ballot on February 18, 2011 by the WEQ EC – Ratified March 21, 2011 - Recommendation Phase 2: [http://www.naesb.org/member\\_login\\_check.asp?doc=weq\\_rat021811\\_2010\\_weq\\_api\\_6\\_c\\_ii\\_rec.doc](http://www.naesb.org/member_login_check.asp?doc=weq_rat021811_2010_weq_api_6_c_ii_rec.doc)

2010 WEQ Annual Plan Items 4a and 4b - Review and develop business practice standards to support DR and DSM-EE programs (DR Phase 2) as reviewed, revised and subsequently approved via notational ballot on February 18, 2011 by the WEQ EC – Ratified March 21, 2011 - Recommendation: [http://www.naesb.org/member\\_login\\_check.asp?doc=weq\\_rat021811\\_2010\\_weq\\_api\\_4a\\_4b\\_rec.doc](http://www.naesb.org/member_login_check.asp?doc=weq_rat021811_2010_weq_api_4a_4b_rec.doc)

Recommendations:



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### NAESB UPDATE: VERSION 002.2 – WHOLESALE ELECTRIC QUADRANT (WEQ) MARCH 21, 2011

2009 WEQ Annual Plan Item 2(a)(i)(1-8) – Develop business practice standards to better coordinate the use of the transmission system among neighboring transmission providers. Such business practice standards would be based on recommendations from NERC’s Long Term ATC/AFC Task Force and would involve revised procedures for the ATC calculation and/or revised protocols as determined by the final order. Development is using joint standards development process with NERC. Request R050004 was expanded to include the Order No. 890 ([Docket Nos. RM05-25-000 and RM05-17-000](#)) and Order No. 890-A ([Docket Nos. RM05-17-001, 002 and RM05-25-001, 002](#)), “Preventing Undue Discrimination and Preference in Transmission Services,” issued April 11, 2007). Group 3: Network Service on OASIS – Recommendation currently under development by the WEQ OASIS Subcommittee [http://naesb.org/weq/weq\\_oasis.asp](http://naesb.org/weq/weq_oasis.asp)

2009 Annual Plan Item 2.a.i.1 through 2.a.i.8 and 3.a.i - Network Service on OASIS – Recommendation currently under development by the WEQ OASIS Subcommittee.

Draft Recommendation: [http://www.naesb.org/pdf4/weq\\_oasis062110reqcom\\_a1.doc](http://www.naesb.org/pdf4/weq_oasis062110reqcom_a1.doc)

Request for Informal Comments - [http://www.naesb.org/pdf4/weq\\_oasis062110reqcom.doc](http://www.naesb.org/pdf4/weq_oasis062110reqcom.doc) - comment period ended July 12, 2010

2010 WEQ Annual Plan Item 1.d – Monitor and develop NAESB business practices as needed to complement NERC reliability standards for FAC-012 and FAC-013

Recommendation: [http://www.naesb.org/pdf4/weq\\_2010\\_api\\_1d\\_rec.doc](http://www.naesb.org/pdf4/weq_2010_api_1d_rec.doc)

Request for Formal Comments - [http://www.naesb.org/pdf4/weq\\_092410\\_reqcom.doc](http://www.naesb.org/pdf4/weq_092410_reqcom.doc) - comment period ended October 25, 2010

2010 WEQ Annual Plan Item 4d - Business Practice Standards for Measurement Verification of Energy Efficiency Products – for review and consideration by the WEQ Executive Committee on March 21, 2011.

Recommendation: [http://www.naesb.org/pdf4/weq\\_2010\\_api\\_4d\\_rec\\_redline.doc](http://www.naesb.org/pdf4/weq_2010_api_4d_rec_redline.doc) (Redline),

[http://www.naesb.org/pdf4/weq\\_2010\\_api\\_4d\\_rec\\_clean.doc](http://www.naesb.org/pdf4/weq_2010_api_4d_rec_clean.doc) (Clean)

Request for Formal Comments - [http://www.naesb.org/pdf4/weq\\_120810\\_reqcom.doc](http://www.naesb.org/pdf4/weq_120810_reqcom.doc) - comment period ended January 14, 2011

#### Minor Corrections:

Minor Correction MC10041, Submitted by D. Rager, NAESB - Joint WEQ/WGQ Minor Correction to the NAESB WEQ/WGQ Implementation Guide for Electronic Tariff Filing to correspond to modifications made by FERC to its Implementation Guide for Electronic Filing of Parts 25, 154, 284, 300, and 241 Tariff Filings as noted in the FERC eTariff RSS Feed(s), dated October 8, 2010: [http://www.naesb.org/pdf4/weq\\_wgq\\_mc10041\\_122010.doc](http://www.naesb.org/pdf4/weq_wgq_mc10041_122010.doc) - approved by the WEQ and WGQ ECs via Notational Ballot on December 20, 2010 (*Effective date February 3, 2011*)

Minor Correction MC10033, Submitted by Y. Coleman, Bonneville Power Administration – Book 2.1, WEQ-003 Data Dictionary and WEQ-013 Implementation Guide: [http://www.naesb.org/pdf4/weq\\_mc10033\\_102610.doc](http://www.naesb.org/pdf4/weq_mc10033_102610.doc) - approved by the WEQ EC on October 26, 2010 (*Effective date January 3, 2011*)

Minor Correction MC10032, Submitted by E. Skiba, JT. Wood, N. Saini, M.Otondo – WEQ 2010 AP Item 1.a.i – Interim Solution for Parallel Flow Visualization: [http://www.naesb.org/pdf4/weq\\_mc10032\\_102610.doc](http://www.naesb.org/pdf4/weq_mc10032_102610.doc) - revised/approved by the WEQ EC on October 26, 2010 (*Effective date January 3, 2011*)



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## NAESB UPDATE: VERSION 002.2 – WHOLESALE ELECTRIC QUADRANT (WEQ) MARCH 21, 2011

Minor Correction MC10019, Submitted by D. Davis, Williams Gas Pipeline for NAESB WGQ Version 1.9: Joint NAESB WEQ Version 002.1 Standard WEQ-014-A and WGQ Version 1.0 Standard No. 11.4.1 (Implementation Guide for Electronic Tariff Filing): [http://www.naesb.org/pdf4/wgq\\_weq\\_mc10019\\_revised.doc](http://www.naesb.org/pdf4/wgq_weq_mc10019_revised.doc) - revised/approved by the WEQ EC on August 17, 2010 and the WGQ EC on August 19, 2010 – (*Effective date October 7, 2010*)

Minor Correction MC10031, WEQ-001 Minor Correction to be applied to Version 002.2, Submitted by M. Goldberg, ISO New England Inc.: [http://www.naesb.org/pdf4/weq\\_mc10031\\_revised.doc](http://www.naesb.org/pdf4/weq_mc10031_revised.doc) - revised/approved by the WEQ EC on August 17, 2010 - (*Effective date October 7, 2010*)

Minor Correction for WEQ-001 to be applied to versions 002.1 and 002.2 submitted by JT Wood, Southern Company: [http://www.naesb.org/pdf4/weq\\_mc111209\\_attach1\\_revised.doc](http://www.naesb.org/pdf4/weq_mc111209_attach1_revised.doc) - approved by the WEQ Executive Committee on October 27, 2009 - (*Effective date December 14, 2009*)

### TIMELINE:

- Version 002.2 is scheduled for publication end of second quarter 2011.
- To back into this date – all standards should be ratified by date of publication, and EC actions should be taken one month prior, to publication, all subcommittee actions should be taken three months prior to publication.

|           |   |
|-----------|---|
| Month - 4 | Subcommittee Recommendations Completed and sent out for comment |
| Month - 3 | EC Actions taken  |
| Month - 2 | Ratifications sent out and completes, minor corrections applied |
| Month - 1 | Review of draft publication                                     |
| Month - 0 | Date of Publication.  |



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## NAESB UPDATE: VERSION 1.3 – RETAIL ELECTRIC AND RETAIL GAS QUADRANT (REQ/RGQ) MARCH 21, 2011

### ACTIONS TO BE APPLIED TO RETAIL VERSION 1.2 TO CREATE RETAIL VERSION 1.3:

Version 1.2 was published on December 31, 2009.

#### 2009-10:

##### Final Actions:

2010 Retail Annual Plan Item No. 9.a (REQ Final Action) - Requirements Specifications for Common Electricity Product and Pricing Definition – for NIST PAP03 as approved by the REQ EC on June 16, 2010 -  
[http://www.naesb.org/member\\_login\\_check.asp?doc=fa\\_req\\_2010\\_retail\\_api\\_9a.doc](http://www.naesb.org/member_login_check.asp?doc=fa_req_2010_retail_api_9a.doc) – Ratified July 30, 2010

2010 Retail Annual Plan Item No. 9.b (REQ Final Action) - Requirements Specifications for Common Scheduling Mechanism for Energy Transactions – for NIST PAP04 as approved by the REQ EC on June 16, 2010 -  
[http://www.naesb.org/member\\_login\\_check.asp?doc=fa\\_req\\_2010\\_retail\\_api\\_9b.doc](http://www.naesb.org/member_login_check.asp?doc=fa_req_2010_retail_api_9b.doc) - Ratified July 30, 2010

2010 Retail Annual Plan Item No. 9.c (REQ Final Action) - Requirements Specifications for Retail Standard DR Signals - for NIST PAP09 as approved by the REQ EC on June 16, 2010 -  
[http://www.naesb.org/member\\_login\\_check.asp?doc=fa\\_req\\_2010\\_retail\\_api\\_9c.doc](http://www.naesb.org/member_login_check.asp?doc=fa_req_2010_retail_api_9c.doc) - Ratified July 30, 2010

2009 Retail Annual Plan Item 1/R05016 – Develop Technical Electronic Implementation Standards and Data Dictionaries (*Book 9: Customer Billing and Payment Notification via Uniform Electronic Transaction*) – approved by the Retail ECs on February 3, 2010.

Final Action – Part A with Revised Attachments -

[http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_retail\\_2009\\_api1\\_r05016.doc](http://www.naesb.org/member_login_form.asp?doc=fa_retail_2009_api1_r05016.doc) – Ratified August 30, 2010

Revised Attachment 1 – Data Dictionaries -

[http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_retail\\_2009\\_api1\\_r05016\\_attach1.doc](http://www.naesb.org/member_login_form.asp?doc=fa_retail_2009_api1_r05016_attach1.doc) – Ratified August 30, 2010

Revised Attachment 2 – X12 Technical Implementation Guidelines -

[http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_retail\\_2009\\_api1\\_r05016\\_attach2.rtf](http://www.naesb.org/member_login_form.asp?doc=fa_retail_2009_api1_r05016_attach2.rtf) – Ratified August 30, 2010

2010 Retail Annual Plan Item 4 (Final Action) – Billing and Payments as approved by the Retail EC's on September 7, 2010 - [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_retail\\_2010\\_ap4.doc](http://www.naesb.org/member_login_form.asp?doc=fa_retail_2010_ap4.doc) - Ratified November 8, 2010  
Attachment: [http://www.naesb.org/pdf4/retail\\_2009\\_ap\\_10a\\_10c\\_rec\\_attach.ppt](http://www.naesb.org/pdf4/retail_2009_ap_10a_10c_rec_attach.ppt) (Models)

2009 Retail Annual Plan Items 10.a and 10.c (Final Action) – Service Request, Disconnection and Reconnection in the Registration Agent Model as approved by the Retail EC's on September 7, 2010 -

[http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_retail\\_2009\\_ap\\_10a\\_10c.doc](http://www.naesb.org/member_login_form.asp?doc=fa_retail_2009_ap_10a_10c.doc) - Ratified November 8, 2010

Attachment: [http://naesb.org/pdf4/retail\\_2010\\_ap4\\_rec\\_attachment.ppt](http://naesb.org/pdf4/retail_2010_ap4_rec_attachment.ppt) (Models)

2010 Retail Annual Plan Item 9d (REQ Final Action) – Business Practices and Information Models to Support Priority Action Plan 10 – Standardized Energy Usage Information as approved by the REQ Executive Committee on October 22, 2010 - [http://www.naesb.org/pdf4/req\\_2010\\_ap\\_9d\\_rec.doc](http://www.naesb.org/pdf4/req_2010_ap_9d_rec.doc) - Ratified November 29, 2010



## North American Energy Standards Board

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### NAESB UPDATE: VERSION 1.3 – RETAIL ELECTRIC AND RETAIL GAS QUADRANT (REQ/RGQ) MARCH 21, 2011

Retail 2010 Annual Plan Item 5a (Final Action) – Users Guide for Book 0 as approved by the Retail Executive Committees on October 27, 2010 - [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_retail\\_2010\\_ap\\_5a.doc](http://www.naesb.org/member_login_form.asp?doc=fa_retail_2010_ap_5a.doc) – Ratified December 10, 2010

Retail 2010 Annual Plan Item 11 (Final Action) – Revised Master List of Defined Terms as approved by the Retail Executive Committees on October 27, 2010 - [http://www.naesb.org/member\\_login\\_form.asp?doc=fa\\_retail\\_2010\\_ap\\_11.doc](http://www.naesb.org/member_login_form.asp?doc=fa_retail_2010_ap_11.doc) – Ratified December 10, 2010

Retail 2010 Annual Plan Item 9 – Master Data Requirements List for Standards associated with NIST PAP03 and PAP09 approved by the REQ Executive Committee on February 2, 2011.

Recommendation: [http://www.naesb.org/member\\_login\\_check.asp?doc=req\\_rat021811\\_2010\\_retail\\_api\\_9\\_a-c\\_rec.doc](http://www.naesb.org/member_login_check.asp?doc=req_rat021811_2010_retail_api_9_a-c_rec.doc) - Ratified March 21, 2011

Retail 2010 Annual Plan Item 9a – Phase 2: Requirements Specifications for Common Electricity Product and Pricing Definition for NIST PAP03 approved by the REQ Executive Committee on February 2, 2011.

Recommendation Phase 2:  
[http://www.naesb.org/member\\_login\\_check.asp?doc=req\\_rat021811\\_2010\\_retail\\_api\\_9\\_a\\_rec.doc](http://www.naesb.org/member_login_check.asp?doc=req_rat021811_2010_retail_api_9_a_rec.doc) - Ratified March 21, 2011

Retail 2010 Annual Plan Item 9b – Phase 2: Requirements Specifications for Common Scheduling Mechanism for Energy Transactions for NIST PAP04 approved by the REQ Executive Committee on February 2, 2011.

Recommendation Phase 2:  
[http://www.naesb.org/member\\_login\\_check.asp?doc=req\\_rat021811\\_2010\\_retail\\_api\\_9\\_b\\_ii\\_rec.doc](http://www.naesb.org/member_login_check.asp?doc=req_rat021811_2010_retail_api_9_b_ii_rec.doc) - Ratified March 21, 2011

Retail 2010 Annual Plan Item 9c – Phase 2: Requirements Specifications for Retail Standard DR Signals for NIST PAP09 approved by the REQ Executive Committee on February 2, 2011.

Recommendation Phase 2:  
[http://www.naesb.org/member\\_login\\_check.asp?doc=req\\_rat021811\\_2010\\_retail\\_api\\_9\\_c\\_rec.doc](http://www.naesb.org/member_login_check.asp?doc=req_rat021811_2010_retail_api_9_c_rec.doc) - Ratified March 21, 2011

Retail 2010 Annual Plan Item 3c – Phase 2: M&V for Demand Response Programs approved by the REQ Executive Committee on February 2, 2011.

Recommendation Phase 2:  
[http://www.naesb.org/member\\_login\\_check.asp?doc=req\\_rat021811\\_2010\\_retail\\_api\\_3\\_c\\_rec.doc](http://www.naesb.org/member_login_check.asp?doc=req_rat021811_2010_retail_api_3_c_rec.doc) - Ratified March 21, 2011

#### Recommendations:

None



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## NAESB UPDATE: VERSION 1.3 – RETAIL ELECTRIC AND RETAIL GAS QUADRANT (REQ/RGQ) MARCH 21, 2011

### Minor Corrections:

MC10035 – Minor Corrections to Internet Electronic Transport Related Standards, Submitted by T. Roza, GXS - [http://www.naesb.org/pdf4/wgq\\_retail\\_mc10035\\_rec\\_102210.doc](http://www.naesb.org/pdf4/wgq_retail_mc10035_rec_102210.doc) - approved by the Retail EC on October 27, 2010 and WGQ EC on October 28, 2010 (*Effective date December 17, 2010*)

MC09034 Correct references in 3 lines of Section 4.12 of the NAESB WGQ Standard No. 6.3.3 – Electronic Data Trading Partner Agreement (Version 1.8), Submitted by C. Burden, Williams Gas Pipeline - [http://www.naesb.org/pdf4/wgq\\_retail\\_mc09034\\_rec\\_011510.doc](http://www.naesb.org/pdf4/wgq_retail_mc09034_rec_011510.doc) – approved by the WGQ EC via notational ballot January 15, 2010. (*Effective date September 27, 2010*)

MC10025 – Version 1.9 (Errata) for NAESB WGQ Internet Electronic Transport (Internet ET) Manual and NAESB RXQ Internet ET Manual, Version 1.2, Submitted by C. Burden, Joint WGQ Information Requirements/Technical Subcommittee - [http://www.naesb.org/pdf4/wgq\\_req\\_rgq\\_mc10025\\_rec\\_080610.doc](http://www.naesb.org/pdf4/wgq_req_rgq_mc10025_rec_080610.doc) - approved by the WGQ EC on August 6, 2010. (*Effective date September 27, 2010*)

MC10012 –Errata for NAESB WGQ Internet Electronic Transport (Internet ET) Manual, Version 1.9 and NAESB RXQ Internet ET Manual Version 1.2: [http://www.naesb.org/pdf4/wgq\\_req\\_rgq\\_mc10012.doc](http://www.naesb.org/pdf4/wgq_req_rgq_mc10012.doc) - approved by the WGQ and Retail ECs on March 5, 2010. (*Effective Date June 24, 2010*)

### **TIMELINE:**

- Version 1.3 is scheduled for publication in first quarter 2011 (March 31, 2011).
- To back into this date – all standards should be ratified by date of publication, and EC actions should be taken one month prior, to publication, all subcommittee actions should be taken three months prior to publication.

|           |   |
|-----------|---|
| Month - 4 | Subcommittee Recommendations Completed and sent out for comment |
| Month - 3 | EC Actions taken  |
| Month - 2 | Ratifications sent out and completes, minor corrections applied |
| Month - 1 | Review of draft publication                                     |
| Month - 0 | Date of Publication.  |



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**NAESB UPDATE: VERSION 1.4 – RETAIL ELECTRIC AND RETAIL GAS QUADRANT (REQ/RGQ)  
MARCH 10, 2011**

## **ACTIONS TO BE APPLIED TO RETAIL VERSION 1.3 TO CREATE RETAIL VERSION 1.4:**

Version 1.3 will be published on March 31, 2011.

### **2011-12:**

Final Actions:

Recommendations:

Minor Corrections:

### **TIMELINE:**

- Version 1.4 is scheduled for publication in 2012.
- To back into this date – all standards should be ratified by date of publication, and EC actions should be taken one month prior, to publication, all subcommittee actions should be taken three months prior to publication.

|           |   |
|-----------|---|
| Month - 4 | Subcommittee Recommendations Completed and sent out for comment |
| Month - 3 | EC Actions taken  |
| Month - 2 | Ratifications sent out and completes, minor corrections applied |
| Month - 1 | Review of draft publication                                     |
| Month - 0 | Date of Publication.  |



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November 30, 2010

**TO:** NAESB Board of Directors and Executive Committee  
**FROM:** Rae McQuade  
**RE:** Schedule of 2011 Meetings

Below is the schedule of 2011 meetings for the Board of Directors, Advisory Council and Executive Committee.

## 2011 Calendar of Board and Advisory Council Meetings

| Date         | Meeting  | Location  |
|--------------|--|---|
| February 12  | Advisory Council Meeting   | Washington D.C. – Renaissance Washington Hotel (in conjunction with NARUC Winter Meeting)   |
| March 24     | Board of Directors   | Houston Marriott North at Greenspoint, 255 North Sam Houston Parkway East, Houston, Tx 77060<br>Phone: 281-875-4000<br>8 miles from IAH Intercontinental Airport, airport shuttle provided every 30 minutes |
| June 23      | Board of Directors   | Houston Marriott North at Greenspoint   |
| September 22 | Board of Directors, Meeting of the Members and Strategic Session | Houston Marriott North at Greenspoint   |
| December 8   | Board of Directors   | Houston Marriott North at Greenspoint   |

## 2011 Calendar of Executive Committee Meetings

| Date           | Meeting                                | Location  |
|----------------|--|---|
| February 1-3   | Executive Committee (WEQ, Retail, WGQ) | Host Salt River Project, Phoenix, AZ                |
| February 24-25 | Leadership Seminar (WEQ, Retail, WGQ)  | Mirage Hotel, Las Vegas                             |
| May 3-5        | Executive Committee (WEQ, Retail, WGQ) | Host Aces Power, Carmel, IN                         |
| August 16-18   | Executive Committee (WEQ, Retail, WGQ) | Host El Paso Western Pipeline, Colorado Springs, CO |
| October 25-27  | Executive Committee (WEQ, Retail, WGQ) | Host Dominion, Richmond, VA                         |

### Notes:

1. The Retail Executive Committee meetings will be held by conference call and web cast unless otherwise determined by the retail leadership.
2. For each of the Board meetings, a dinner will be held the night before at the Petroleum Club in the Exxon Building, 800 Bell Street, 43<sup>rd</sup> Floor.
3. Board members are encouraged to attend the leadership seminar as well.